THE CANADA YEAR BOOK 1933



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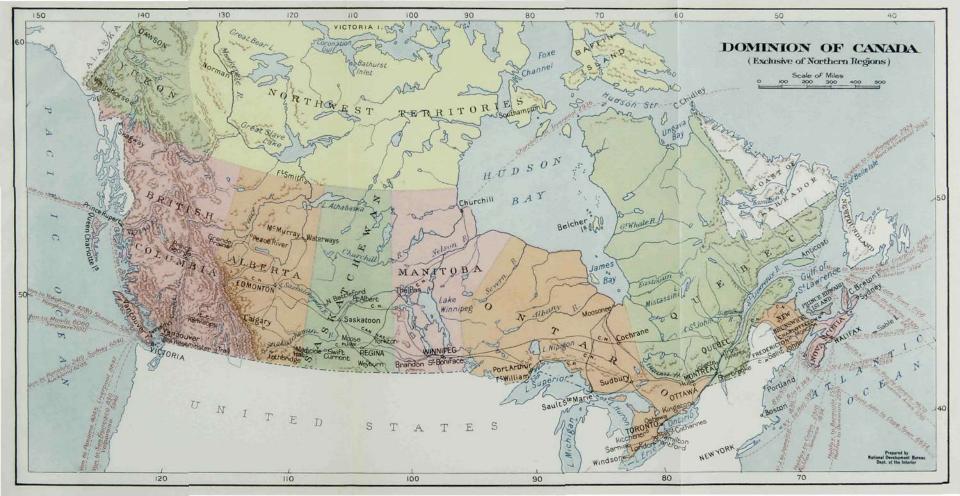
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PREFACE.

The Canada Year Book had its origin in the first year of the Dominion, when the "Year Book and Almanac of British North America"-being (to quote its sub-title) "an Annual Register of political, vital and trade statistics, customs tariffs, excise and stamp duties, and all public events of interest in Upper and Lower Canada, New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland, and West Indies"—was founded. Subsequently the title was changed to "The Year Book and Almanac of Canada,—an annual statistical abstract of the Dominion and a register of legislation and of public men in British North America" It was published annually from 1867 to 1879.

In 1886, after the passing of a general Statistics Act, the "Statistical Abstract and Record of Canada" was instituted as an official book of reference respecting the institutions, population, finance, trade and general conditions of the Dominion, "with comparative data for the United Kingdom, British Possessions and foreign The work was prepared in the General Statistical Office of the Department of Agriculture, and was continued annually until 1904, under the direction of Dr. George Johnson, F.S.S. In 1905 the General Statistical Office was amalgamated with the Census Office (which was at the same time made a permanent organization), and the Year Book was remodelled by Dr. Archibald Blue, Chief Officer, and continued under the title "The Canada Year Book, Second Series".

In the reorganization and centralization of statistics which followed the report of the Royal Commission on Statistics of 1912, and the establishment of the Dominion Bureau of Statistics in 1918, the improvement of the Year Book, both in content and method of presentation, was made a primary object, and this improvement

has been continued down to the present time.

A feature of the Year Book has been the inclusion of special articles from time to time dealing more fully than is possible in the regular material, with some phase of science or art or of the social or economic development of Canada. Thus, in the present edition there appears a special article prepared in the Department of External Affairs dealing with the Imperial Economic Conference of 1932. Attention may also be drawn to the inclusion in Chapter I of a special study on Droughts in Western Canada, contributed by the Climatologist of the Meteorological Service. Additional census analyses becoming available from the census of 1931 have facilitated a more extensive and up-to-date treatment of Population. The chapter on Internal Trade has been extended to present summary statistics of the first comprehensive census of wholesale and retail trade and services to be taken in Canada; this census is also one of the first of its kind in any country. The chapter on Transportation and Communications includes a description of the new Canadian National-Canadian Pacific Act implementing the report of the Duff Commission, together with a description of the aims and objects of the Radio Broadcasting Commission. A special article on the Growth of Life Insurance in Canada, which appeared in the 1925 edition, has been revised in consequence of recent changes in insurance legis-The Public Health chapter has also been improved by the inclusion of the new annual statistics of institutions. Finally, all parts of the volume have received a careful revision by competent authorities in each branch of the national activities.

A list of the special articles appearing in earlier volumes of the Year Book and not repeated in this edition is presented at page ii of this Introduction, immediately preceding the map. The latest available data on immigration, trade, and from the

1931 Census of Agriculture will be found in the Appendices.

The present volume has been edited by S. A. Cudmore, B.A. (Tor.), M.A.. (Oxon.), F.S.S., F.R. Econ. Soc., assisted by A. E. Millward, B.A., B. Com., W. H. Lanceley, and R. F. Clarke, M.C., D.L.S., of the editorial staff of the General Statistics Branch of the Bureau. Grateful acknowledgments are hereby tendered to the numerous officials of the Dominion and Provincial Governments who have assisted in the collection of information. An effort has been made to apportion due credit to the various individuals and services concerned by means of footnotes to those chapters and sections which have been contributed, or in the compilation of which co-operation has been received.

While the greatest care has been taken in the preparation of the volume, there are doubtless imperfections and, with a view to the improvement of future editions. the Editor will be glad to hear of any errrors which may have escaped his notice, and to receive any suggestions with regard to omissions or to method of treatment.

DOMINION BUREAU OF STATISTICS. OTTAWA, Sept. 1, 1933.

R. H. COATS, Dominion Statistician.

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Area of the Dominion of Canada in square miles: I and, 3,457,484; Fresh Water, 226,979; Total, 3,684,463

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	Item.	1871.	1881.	1891.	1901.	1906.
1 2 3 4 5 6 7 8	Quebec " Ontario " Manitoba " Saskatchewan " Alberta " British Columbia " Yukon "	94, 021 387, 800 285, 594 1, 191, 516 1, 620, 851 25, 228 - 36, 247 48, 000	321,233 1,359,027 1,926,922 62,260 — 49,459	450,396 321,263 1,488,535 2,114,321 152,506 	103,259 459,574 331,120 1,648,898 2,182,947 255,211 91,279 73,022 178,657 27,216 20,129	476, 119 341, 682 1, 822, 992 2, 362, 470 365, 688 257, 763 185, 412 268, 276 14, 899
	Canada "	3,689,257	4,324,810		5,871,315	
12 13 14	Immigration (fiscal years)—	27,773	47,991	11,3837 2,4122 7,9212	11,810 17,987	86,796 57,796 44,472
	Agriculture—	-				
15 16	Area of occupied farms acre Improved lands " Field Cropss"	36,046,401 17,385,818		58, 997, 995 27, 729, 852	63,422,338 30,166,033	
17	Wheat acre bush Oats acre bush	1,646,781 16,723,873 16,993,265 42,489,459	2,366,554 32,350,269 38,820,323 - 70,493,131	2,701,213 42,228,372 31,667,529 3,961,356	4,224,542 55,572,368 36,122,039 5,367,655 151,497,407	-
19	Barley aere bush.	15,966,310 11,496,038 8,170,735	23,967.665	83,428,202 31,702,717 868,464 17,222,795 8,611,397	871,800 22,224,366	
26	Corn acre	3,802,830 2,283,145	9,025,142 5,415,085	195, 101 10, 711, 380 5, 034, 348	8,889,746 360,758 25,875,919 11,902,923	ı
21	Potatoes	403, 102 47,330, 187 15,211,774 3,650,419 3,818,641 38,869,900	464,289 55,368,790 13,288,510 4,458,349 5,055,810 40,446,480	450, 190 53, 490, 857 21, 396, 342 5, 931, 548 7, 693, 738 69, 243, 597	448,748 55,362,635 13,840,658 6,543,423 6,943,775 85,625,315	
	Total Areas, Field Crops acre Total Values, Field Crops ⁹ . \$ Live Stock	111, 116, 606	155,277,427	15,662,811 194,766,934	19,763.740 237,682.285	
23	Horses	836,743 	1,059,358	1,470,572	1,577,493 118,279,419	
24	Milch cows No.	1,251,209	1,595,800	1,857,112	2,408,677 69,237,970 3,167,774	
25	Other cattle No.	1,373.081	1,919,189	2,263,474	04,187,041	
26	Sheep No.	3,155,509	3,048,678	2,562,781	2,510,239 10,490,594	
27	Swine No.	1,366.083	1.207,619	1,733,850	2,353,828 16,445,702	
	Total Values, Live Stock \$ Dairyings—				268,651,026	
28	Cheese, factory	155,524 17,585	54,574.856 5,130.036	97,418,855 9,644,467 3,654,364	220,883,269 22,221,430	204,788,583 ° 23,597,639 °
23	Butter, creamery lb.	981,939 188,532	1,365,912 225,375	3,654,364 635,859	22,221,430 36,066,739 7,240,972	45.930.294 8 10,949,062 8
39	Butter, home made 1b.	74,190,584 14,244,592	102,545,169 16,919,953	111,577,210 19,414,435	105,343,076 21,384,644	
31	Miscellaneous dairy products . \$				15,623,907	
	Total Values, Dairy Products \$	15.023,966	22,748,939	30,315,214	66,740,953	
32	Forestry—Exports of Wood, Wood Products and Paper	7,573,199	15,817,162 987,555	25,351,085 18,977,874 768,983	33,099,915 25,737,153 899,645	45,716,762 26,279,485

¹Estimated populations are given for inter-censal and post-censal years. ²1897. ³The figures for the decennial census years 1871-1921 are for the next preceding years. Export prices have been used in working out values of dairy products.

Area of the Dominion of Canada in square miles: Land, 3,457,484; Fresh Water, 226,979; Total, 3,684,463.

Area of the Dominion of Canada in square mues: Land, 3,407,404; Flesh water, 220,979; 10tal, 3,604,405.								
1911.	1916.	1921.	1926.	1929.	1930.	1931.	1932.4	Ī
93,728 493,338 351,889 2,005,7292 461,394 492,432 374,425 392,480 8,512 6,507	508 860	523 837	515,000	515,000	514,000 406,000 2,825,000 3,386,000 689,000 903,000 708,000 676,000 4,000	512,846 408,219 2,874,255 3,431,683 700,139 921,785 731,605 694,263 4,230	88,000 513,000 409,000 2,904,000 3,459,000 971,000 740,000 704,000 4,000 9,000	23 4 5 6 7 8 9 10
7,206,643	8,085,584	8,788,4831	9,450,000	10,027,000	10,206,000			·l
123,013 121,451 66,620 311,084	8,664 36,937 2,936 48,537	74,262 48,059 26,156	18,778 89,717	58,880 30,560 78,282	30,727 68,479	24,280 36,859	14,297 4,367	13 14
311,034	79,037	140,477	96,064		163,288	88,223	25,752	
108,968,715 48,733,823	-	140,887,903 70,769,548	-	-	-	163,568,369 85,803,645	-	15 16
8,864,154 132,077,547 104,816,825 8,656,179 245,393,425 86,796,130	15,369,709 262,781,000 844,096,400 10,996,487 410,211,000	17,835,734 226,508,411 374,178,601 13,879,257 364,989,218	22,895,649 407,136,000 442,221,000 12,741,340 883,416,000 184,098,000	25,255,092 304,520,000 319,715,000 12,479,477 282,838,300	204.693.000	321,325,000 123,550,000	428,514,000 129,105,000	
1,283,094 28,848,370 14,653,697 293,951	210,957,500 1,802,996 42,770,000 35,024,090	180,989,587 2,043,669 42,956,049 33,514,070 204,775	3,642,462 99,987,100 52,059,000 209,725	168,017,000 5,925,542 102,313,300 60,505,000	102,919,000 5,558,700 135,160,200 27,254,000	3,768,269 67,382,600 17,465,000 181,695	391,561,000 71,538,000 3,757,600 80,778,000 15,794,000 5,057,000	19 20
14, 417, 599 5, 774, 039 464, 504 55, 461, 473 27, 426, 765 8, 289, 407	6,282,000 6,747,000 472,992 63,297,000 50,982,300 7,821,257	10,822,278 7,081,140 534,621 62,230,052 44,635,547 8,541,093	7,813,000 7,780,000 523,112 46,937,000 69,204,000 9,516,125	5,183,000 5,469,000 543,727 39,930,000* 63,372,000 10,560,101	5,826,000 5,054,000 571,300 48,241,000 39,858,000 10,618,200	5,449,000 2,274,000 583,926	2,276,000 521,500	21
90,115,531	14,527,000 168,547,900	8,593,398 169,822,397	14,058,000 170,473,000	15,833,000 184,528,000	16,397,000 161,122,000	13,960,000 106,343,000	13,559,000 96,278,000	
30,556,168 384,513,795	38,930,333 886,494,900	47,553,418 933,045,936	56,097,836 1,104,983,100	61,207,034 948,981,400	62,214,670 662,040,900	58,074,905 432,199,400	59,633,500 416,586,900	
2,598,958 381,915,505 2,595,255 109,575,526 3,930,828 86,278,490 2,174,300 10,701,691 3,634,778	3,246,430 418,686,900 2,835,532 198,896,900 3,763,155 204,477,000 2,025,030 20,927,000	3,624,262 440,502,040 3,324,653 203,555,836 5,194,831 139,590,484 3,203,966 20,704,509	3,398,114 245,119,000 3,839,191 201,236,000 4,731,688 148,742,000 3,142,476 31,417,000 4,359,582	3,376,487, 235,971,000 3,684,766 273,817,000 5,139,866 239,713,000 3,635,923 36,118,000	3,295,000 292,013,000 3,683,000 218,822,000 5,254,000 182,263,000 3,696,000 25,275,000 4,000,000	3,365,000 143,166,000 4,626,000 114,828,000 3,608,000	3,088,630 141,640,000 3,624,600 116,349,000 4,886,500 83,685,000 3,644,500 12,084,000	24 25 26
3,634,778 26,986,621	3,484,982 60,700,000	20,704,509 3,404,730 36,893,244	4,359,582 69,958,000	36,118,000 4,381,725 71,111,000	4,000,000 58,852,000	18,596,000 4,716,720 32,773,000	4,639,100 21,964,000	27
615,457,833	903,686,000	836,413,401	696,472,000	856,730,000	687,225,000	465,271,000	375,722,000	
199, 904, 205 21, 587, 124 64, 489, 398 15, 597, 807 137, 110, 200 30, 269, 497 35, 927, 426	192,968,597 35,512,622 82,564,130 26,966,355	162, 117, 494 28, 710, 080 128, 734, 610 48, 135, 439 100, 000, 000 29, 840, 000 98, 750, 881	171, 781, 631 28, 807, 841 177, 209, 287 61, 753, 390 95, 000, 000 28, 252, 777 158, 490, 971	118, 746, 286 21, 471, 330 170, 810, 230 65, 929, 782 88, 000, 900 28, 929, 000 175, 412, 745	119,105,203 18,089,870 185,751,661 56,670,504 97,214,696 23,844,000 171,240,085	113, 956, 639 12, 824, 695 225, 955, 246 50, 198, 878 104, 640, 000 21, 723, 000 76, 497, 007	-	28 29 30 31
103,381,854		205,436,350	277,304,979	291,742,857	269,844,459	161,243,580		
56,384,695 34,667,872 1,927,550	83,116,282 35,860,708	284,561,478 34,931,935 10,151,594	56,360,683	288,621,745 53,518,521 18,745,473	289,566,675 47,804,216 12,158,376	30,517,306	175,740,269 25,956,083 10,156,225	33

⁴The figures for 1932 are subject to revision. *Cwt. *See Monthly Bulletin of Agricultural Statistics for May, 1921, for particulars of the values of field crops for the years 1871, 1881, 1891 and 1901. *Includes Canadian Navy. *Figures are for 1907.

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	Item.	1871.	1881.	1891.	1901.	1906.
-	Miles and The day of					
	Mineral Production—	105 105	69 FO4	42 610	1 767 916	556,415
1	Gold	105, 187	63,524	45,018	1,167,216 24,128,503 5,539,192 3,265,354 37,827,019	11,502,120
	\$	2,174,412	1,313,153 355,0831 347,2711	930,614	24,120,000	0 472 220
2	Silveroz.	-	365,0831	414,523	5,539,192	8,473,379
_	\$	-	347,2711	409,549	3,260,304	5,659,455
3	Copper 1b.	! - [3,260,424	9,529,401	37,837,019	55,609,888
			366,7981	1,226,703	φ, υ 9 φ, ροτί	10,720,474
- 4	Lead lb.	-	204,8001	88,665	51,900,958	54,608,217
_		-	9.2161	3,857	2,249,387	3,089,187
5	Nickel lb.	-	830, 47711	4,035,347	9,189,047	21,490,955
	<u>.</u> .	-	498,28611	2,421.208	4,594,523	8,948,834
•	Pig iron ton	-	24,827	23.891	274,376	598,411
	.		366, 1921	368,901	3,512,923 6,486,325 12,699,243	7,955,136 9,762,601 19,732,019 2,128,374
2	Coal ton	1,063,7422	1,537,106	3,577,749	6,486,325	9,762,601
	. .	1,763,4232	2,688,621	7.019.420	12,699,243	19,732,019
8	Cement brl.	-	1,537,106 2,688,621 69,843	93,479 108,561	450,394	2,128,374
	\$	-	81,9091	108,561	660,030	3,170,859
	management to the second of		10.004.0553	10 000 010	CF 000 011	70 000 407
	Totals, Mineral Production. \$	- 1	10,221,2553	18,976,616	65,797,911	79,286,697
	Electric Statistics—					
8	Power Houses No.	_	-	80	58	157
10	Conital invested \$	l - ₹	_ 1	4,113,771	11,891,025	80,393,445
ii	Kilowatt hours generated No.	_	-			-
12	Customers	_	_	_		
	Water Power—					
13	Turbine H.P. installed No.	_	_	71,219	238,902	608,002
	Manufactatress			·		
14	Employees No.	187,942	254,894	272,033	339,173	383,920
15	Canita)	77,964,020		353,213,000	446,916,487	833,916,155
16	Salaries and wages \$	40,851,009	59,401,702	79,234,311	113,249,350	162,155,578
17	Products-					_
	Gross \$	221,617,773	309,731,867	368,696,723	481,063,375	706,446,578
	Net \$	98,709,927	-	-	214,525,517	-
	External Trade (fiscal years)—					
18	Exports ⁶ \$	57,630,024	83,944,701	88,671,738	177,431,386	235,483,956
13	Imports ¹ \$	84,214,388	90,488,329	111,533,954	177,930,919	283,740,280
	l			*** ***	AFE 000 AA	F10 004 000
	Totals, External Trade \$	141,844,412	174,433,030	200,205,692	355,362,305	519,224,236
			10 405 416	40.040.504	00 00 505	107 450 405
20	Exports to United Kingdom \$	21,733,556	42,637,219	43,243,784	92,857,525	127,456,465
21	Imports from United Kingdom \$	48,498,202	42,885,142	42,018,943 37,743,430	42,820,334	69,183,915
22 23	Exports to United States 8	29, 164, 358	34,038,431	60 000 400	67,983,673	83,546,306
23	Imports from United States \$	27,185,586	36,338,701	52,033,477	107,377,906	169,256,452
	Exports, Domestic, by Chief Items-	1,748,977	2,523,673	2,108,216	9,739,758	40,399,402
24	Wheat bush.	1 001 017	2,020,010	1,583,084	6,871,939	33,658,391
47	Wheat flour brl.	1,981,917	2,593,820		1,118,700	1,532,014
25	wheat nour Dri.	306,339	439,728		1,110,100	6,179,825
	الأسباء الما	1,609.849	2,173,108	1,388,578 260,560	4,015,226 8,155,063	2,700,303
26	Oatsbush.	542,386 231,227	2,926,532 1,791,873		9 400 591	1,083,347
-	S 4-4	231,22/	1,781,860	125, 917	2,490,521 252,977 2,097,882	206,714
27	Hay ton	23,487 290,217	168,381	65,083	9 200 700	1,529,941
0.0	Barra and Barra abandana harri	490,217	1,813,208	559,489 75,541	1,055,495	1,029,079
28	bacon and nams, shoulders ; cwt.	103,444	103,547 758,334	628,469	11,778,446	12,086,868
•	Bacon and hams, shoulders cwt. and sides. b.	1,018,918 15,439,266	17 640 401	3,768,101	16,335,528	34,031.525
29	.Butter 1b.	10,489.266	17,649,491	0,(00,101	9 905 240	7,075,539
	S 11	3,065,234	3,573,034	602,175	3,295,663 195,926,697	I OIR 924 543
30	Cheese lb.	8,271,439	49,255,523	106, 202, 140	20,240,097	215,834,543 24,433,169
	\	1,109,906	5.510,443		20,696,951	10 001 016
31	Gold	163,037	767,318	554,126	24,445,156	12,991,916 7,261,527
32	Silver 02.	EAE 001	مَن مِن ا	999 997	9 490 750	4 910 500
-	ام. ب <mark>ا</mark>	595,261	34,494	238,367	4,022,019 2,420,750 26,345,776	4,310,528 44,282,348
33	Copper ⁸ lb.	6,246,000	39.604,000	10,994,498	9 640 961	7 140 802
	\$ 15. The state of	120, 121	150,412	505,196 5 262 042	0 #07 FKG	7,148,683 23,959,841
34	Nickel lb.	_	1 -	5,352,048	2,659,261 9,537,558 958,365	2,166,936
	(Tax) 4an	210 005	400.055	240,499 833,684	1,888,538	1,820,511
35	Coal ton	318,287	420,055 1,123,091	2,916,465	5,307,060	4,643,198
-	1 4.3	662,451	1,120,091	7,022	26,715	57,075
36	Asbestos ton	1		513,909		
37	Wood pulp cwt.	l	I -]	- 1	l -
	11 OOG PUP	1	l -	280,619	1,937,207	3,478,150
38	Newsprint paper cwt.	1	l -	-	^-	
•0	2	l -		l -	J	-

^{1887. 21874. 31886. 4060&#}x27;s omitted. 5 The statistics of manufactures in 1871 and 1881 include works employing fewer than 5 hands, while those of 1891, 1901, 1911 and 1916 are for works with 5 hands and over, except in the case of butter and cheese factories, flour and grist mills, electric light plants, lumber, lath and shingle mills, lime kilns, brick and tile works, and fish canneries. The figures for these years are

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						_		
1911.	1916.	1921.	1926.	1929.	1930.	1931.	1932.*	
473,159 9,781,077 32,559,044 17,355,272 55,648,011	19,234,976 25,459,741	926,329 19,148,920 13,543,198 8,485,355 47,620,820	22,371,924 13,894,531	1,928,308 39,861,663 23,143,261 12,264,308 248,120,760	43,453,601 26,443,823 10,089,376 303,478,356	2,693,892 55,687,688 20,562,247 6,141,943 292,304,390	3,050,581 63,061,103 18,356,393 5,813,769 247,678,503	2
6,886,998 23,784,969 827,717 34,098,744 10,229,623	31,867,150 41,497,615		17,490,360 283,801,265 19,240,661 65,714,294 14,374,168	43,415,251 326,522,566 16,544,248 110,275,912	1 37.948.359	24,114,065 267,842,482 7,260,183 65,666,320 15,267,453	15,294,022 255,949,960 5,469,758 30,327,968	4
917,535 12,307,125 11,323,388 26,467,646	1,169,257 16,750,898 14,483,395 38,817,481	665,676 15,511,828 15,057,495 72,451,656	\$20,426 16,011,173 ¹⁰ 16,478,131 59,875,094	11.496,557 63,065,170	836,839 14,345,800 ¹⁰ 14,881,324 52,849,748 11,032,538	7,863,111 ¹⁰ 12,243,211 41,207,682	7,179,862 161,426 2,829,272 ¹⁰ 11,723,411 87,045,272 4,498,721	7
5,692,915 7,644,537 103,220,994	5,369,560 6,547,728 177,201,584	5,752,885 14,195,143 171,923,342	8,707,021 13,018,283 240,437,123	12,284,081 19,337,235 310,850,246	17,718,067	10,161,658 15,826,243 228,029,018	6,930,721 182,320,150	
266	307	510	595	585	587	587	-	9
110,838,746	248, 573, 546 _ 	484,669,451 5,614,132 973,212	756,220,066 12,093,445 1,337,562	1,055,731,532 17,962,515 1,555,883	1,138,200,016 18,093,802 1,607,766	1,229,988,951 16,330,867 1,632,792	-	10 11 12
1,363,134		l ' '	4,549,383			6,666,337	7,045,260	1
		456,076 3,190,026,358 518,785,137	1			1	-	14 15 16
1,165,975,639 564,466,621	589,603,792	2,576,037,029 1,209,143,344	1,492,645,039	[1,997,350,365 	1,76(,986,726	1,474,581,851	-	17
274,316,553 452,724,603	508, 201, 134	1,139,163,701 1,240,158,882	927,328,732	1,265,679,091	1,248,273,582	906,612,695	576,344,302 578,503,904	19
727,041,156		2,429,322,583			```	1,706,355,362	1,154,848,206	ı
132,156,924 109,934,753 104,115,823 275,824,265	77,404,361 201,106,488 370,880,549	312,844,871 213,973,562 542,322,967 856,176,820		499,612,145 868,012,229	281,745,965 189,179,738 515,049,763 847,442,087	584,407,018	174,043,725 106,371,779 235,186,674 351,686,775	21 22 23
45,802,115 45,521,134 3,049,046 13,854,790	172,896,445 6,400,214 35,767,044	310,952,138 6,017,032	249,679,470 364,364,388 10,084,974 09,687,598 48,058,283	370, 459, 551 428, 524, 326 11, 405, 728 65, 117, 779 15, 657, 348	177,006,369 215,758,475 7,893,960 45,457,195 6,406,181	217,243,037 177,419,769 7,218,188 32,876,234, 3,258,501	191,815,988 115,739,383 5,413,740 18,897,548 18,841,300 4,662,335	24 25
5,431,662 2,144,846 326,132 2,723,291	14.637.849	14,321,048 14,152,633 179,398 4,210,594	48,058,283 24,237,692 368,787 3,711,840	15,657,348 10,241,938 113,763 1,127,270	4.055,855	3,258,501 1,146,266 156,722 1,590,657	523, 102	21
598,745 8,526,332 3,142,682	1,536,517 27,090,113 3,441,183	982,338 31,492,407 9,739,414	1,253,760 28,590,801 23,303,865	366,582 7,874,026 1,889,200	267,026 6,579,726 1,309,400	121,770 2,914,278 1,162,900	185,146 2,446,564 10,917,300	28
744,288 181,895,724 20,739,507 5,344,465	26,690,500 16,870,394	5,128,831 133,620,340 87,146,722 3,038,779	8,773,125 148,333,500 33,718,587 25,968,094	764,836 112,609,200 25,181,853 12,396,444 20,768,801	l 18.278.004	12,989,726	2,362,888 85,424,700 10,593,967 13,671,565	31
33,731,010 17,269,168 55,005,342 5,575,033	14,298,351 111,046,300	13,331,050 11,127,432 36,167,900 4,336,972	18,382,415 12,365,576 61,090,600 7,037,206	11,962,928 85,590,600 7,936,179	11,569,855 82,084,600	24,695,827 8,927,216 62,997,100 5,629,512	17,753,631 5,160,528 50,223,700 4,076,854	33
34,767,528 3,842,332 2,315,171 6,014,095	70,443,000 7,714,769 1,971,124 6,032,765	47,018,300 9,405,291 2,277,202 16,501,478	71,081,400	107, 482, 200 23, 880, 492 841, 493 4, 402, 028	106.517,500	81,929,300 18,246,375 534,710	54,379,100 12,109,400 333,239 1,809,271 147,149	34
69,829 2,076,477 6,588,655 5,715,532	88,833 2,962,010 8,144,019	191,299 12,633,389 14,363,006 71,552,037	269,652 9,920,900 19,812,381 49,909,870	268,879 11,267,188 16,950,165 44,895,717	286,497 12,074,065 17,261,954 44,704,958	2,896,837 219,541 7,719,974 13,862,122 35,061,689	147,149 4,628,117 11,762,563 27,684,782	37
3,092,437	9,264,080	15,112,586	29.537.366	45,264,586	49,800,821	44,848,479	39,942,149	88

for the preceding years in each case. From 1922 statistics are exclusive of construction, hand trades, repair and custom work. Figures for 1925-30 include non-ferrous metal smelting not included in earlier years. Exports of domestic merchandise only. Imports of merchandise for home consumption. Copper, fine, contained in ore, matte, regulus, etc.

1 The figures for 1932 are subject to revision.

2 Animals and their products (except chemicals and fibres) 5	₹.						· · · · · - · - · - · - · - · - · - · -	
1 Vegetable products (except chemicals, fibres and wood).	_	Item.		1871.	1881.	1891.	1901.	1906.
1 Vegetable products (except chemicals, fibres and wood).	_	Exports, Domestic, by Classes	_					
## All other commodities ## All other products ## Casept chemicals and fibres 5	ıl	Vegetable products (except						
## All other commodities ## All other products ## Casept chemicals and fibres 5	Ĭ	chemicals, fibres and wood)	1	- 1	ĺ	13,742,557	25,541,567	55,828,252
Totals Carlier and textile products Carlier and textile	2	(except chemicals and fibres)	•	-	_			84,570,644
Wood, wood products and paper 5 17.03 and its products 5 50.527 33.395,096 28,455,786 50.500,736 33.395,096 28,455,786 50.500,736 30.985,584 7.386,444 7.817,472 7.91,855 7.386,444 7.817,472 7.91,855 7.856,827 7.91,855 7.856,827 7.91,855 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827 7.856,827	3	Fibres, tertiles and tertile pro- ducts	\$	_		872,628	1,880,539	2,602,903
Non-derrous metals and their products S	4	Wood, wood products and paper	\$	-		25,351,085	33,099,915	49,716,762
Products Non-metalic minerals and their products (ex. chemicals) \$ \$ \$ \$ \$ \$ \$ \$ \$	5	fron and its products	ş	-		556,527	3,778,897	4,700,280
Totals, Exports, Domestic. \$ Totals, Imports for Consumption— (except chemicals and their products (except chemicals, fibres and wood). \$ Animals and their products (except chemicals and fibres). \$ Totals, Imports. \$ Wood, wood products and paper 3	•	products	\$	-	-	1,618,955	33,395,096	28,455,786
Totals, Exports, Domestic. \$ Totals, Imports for Consumption— (except chemicals and their products (except chemicals, fibres and wood). \$ Animals and their products (except chemicals and fibres). \$ Totals, Imports. \$ Wood, wood products and paper 3	1	their products (as observed as	•	_ 1		2 988 584	7 356 444	7, 817, 475
Totals, Exports, Domestic. \$ Totals, Imports for Consumption— (except chemicals and their products (except chemicals, fibres and wood). \$ Animals and their products (except chemicals and fibres). \$ Totals, Imports. \$ Wood, wood products and paper 3	8	Chemicals and allied products.			-	851.211	791,855	1,784,800
Imports for Consumption Vegetable products (except chemicals, fibres and wood) 8		All other commodities	\$		-	5,291,051	3, 121, 741	4,002,038
19 Vegetable products (except chemicals), fibres and wood) 8 - 24,212,140 36,936,146 50,307,366 11 Animals and their products (except chemicals and fibres) 5 - - 8,080,862 14,022,895 23,616,831 12 Simple	- [Totals, Exports, Domestic.	\$	57,630,024	83,944,701	88,671,738	177,431,386	235,483,956
19 Vegetable products (except chemicals), fibres and wood) 8 - 24,212,140 36,936,146 50,307,366 11 Animals and their products (except chemicals and fibres) 5 - - 8,080,862 14,022,895 23,616,831 12 Simple	- 1	Innanta for Communities		-				
Animals and their products (except chemicals and fibres) \$ -	LO	Vegetable products (except			_	94 919 140	38 038 146	50 307 369
Totals Seam Railways Sea	IJ	Animals and their products			_			
duets. \$ - - 28,670,141 37,284,752 59,292,685	12	Fibres, textiles and textile pro-	9	-	-	0,000,002		
Wood, wood products and paper		duets	8	- l	-	28,670,141	37,284,752	59, 292, 868
15 170 and its products 3 -		Wood, wood products and paper	\$	-	-	5,203,490	8,196,901	14,341,947
		Iron and its products	\$	-	-	15, 142, 615	29,955,936	49,436,840
products (except chemicals)		products	\$	-	-	3,810,626	7, 167, 318	17, 533, 430
Totals, Imports. \$ 84,214,388 90,488,329 111,533,954 177,930,919 283,740,289 Steam Railways—	۳	products (except chemicals)	\$	-		14, 139, 024	21,255,403	33,757,284
Totals, Imports. \$ 84,214,388 90,488,329 111,533,954 177,930,919 283,740,289 Steam Railways—		Chemicals and allied products	8	- 1	- 1	3,697,810	5,684,999	8,269,169
Steam Railways	18	All other commodities	\$	-		8,577,246	16,326,568	27,184,539
Miles in operation 2,695 7,331 13,838 18,140 21,35	١	Totals, Imports	\$	84,214,388	90,488,329	111,533,954	177,980,919	283,740,280
Miles in operation 2,695 7,331 13,838 18,140 21,35	- 1	Steam Railways—					-	i .
Capital. \$ 257,038,1838 294,419,293 620,614,0816,108,381,108,381,022,268 18,385,722 27,989,781 12,085,323 21,753,021 36,999,371 57,966,712 22 Earnings \$ 19,479,5392 27,987,509 48,102,099 72,888,749 125,322,888 224 Expenses \$ 15,776,5322 20,121,418 34,960,448 60,368,726 87,129,438 22,268 22,268 23,486,024 24,099,918 5,766,212 28,532,200 2,902,526 5,665,259 16,523,188 22,384,360 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 24,099,918 5,766,703 22,764,766 22,763,592 2,764,569 22,764,669 24,099,918 5,766,703 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,764,766 22,76	19	Miles in operation		2,695	7,331	13.838	18,140	21,358
Passengers	žě	Capital	\$	257,035,1881	284,419,293	032.061.440	1 810.110.837	1,065,881,629
Expenses	21	Passengers	No.	5,190,4162	6,943,671	13,222,568	18,380,722	27,989,782
Expenses	82	Freight	ton	5,670,8362	12,065,323	21,753,021	36,999,371	57,966,713
Directric Railways	86	Earnings	•	19,470,539	27,987,509	24 060 440	#2,090,799 #0,368,796	97 120 484
Miles in operation No Capital State State Capital State	۳	Dairenges	*	10,110,002	20,121,110	01,500,110	00,000,720	07,120,10
Expenses \$ 3,435,102 6,675,08* Canals— 31 Passengers carried No. 100,377 118,136 146,336 190,428 256,508 32 Freight. ton 3,955,621 2,853,230 2,902,526 5,665,259 10,523,18* Shipping (Sea-going)— 33 Entered. ton 2,521,573 4,032,946 5,273,935 7,514,732 3,895,351 34 Cleared. " 2,594,460 4,071,391 5,421,261 7,028,330 7,948,071 35 Totals " 5,116,033 8,104,337 10,695,196 14,543,062 16,843,42* Shipping (Inland International)— Entered. " 3,954,797 2,763,592 4,099,018 5,766,171 8,536,094 38 Totals " 8,009,995 5,698,095 8,107,452 11,496,746 17,888,741 Shipping (Coastwise)— Entered. " 7,664,863 12,835,774 17,927,959 23,543,694 40 Cleared. " 7,451,903 12,150,356 16,516,832 22,789,454 17 Ctals " 7,451,903 12,150,356 16,516,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 27,866 30,194 31,506	- 1	Electric Railways—						
Expenses \$ 3,435,102 6,675,08* Canals— 31 Passengers carried No. 100,377 118,136 146,336 190,428 256,508 32 Freight. ton 3,955,621 2,853,230 2,902,526 5,665,259 10,523,18* Shipping (Sea-going)— 33 Entered. ton 2,521,573 4,032,946 5,273,935 7,514,732 3,895,351 34 Cleared. " 2,594,460 4,071,391 5,421,261 7,028,330 7,948,071 35 Totals " 5,116,033 8,104,337 10,695,196 14,543,062 16,843,42* Shipping (Inland International)— Entered. " 3,954,797 2,763,592 4,099,018 5,766,171 8,536,094 38 Totals " 8,009,995 5,698,095 8,107,452 11,496,746 17,888,741 Shipping (Coastwise)— Entered. " 7,664,863 12,835,774 17,927,959 23,543,694 40 Cleared. " 7,451,903 12,150,356 16,516,832 22,789,454 17 Ctals " 7,451,903 12,150,356 16,516,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 27,866 30,194 31,506	65	Miles in operation	No.	- '		-	675	814
Expenses \$ 3,435,102 6,675,08* Canals— 31 Passengers carried No. 100,377 118,136 146,336 190,428 256,508 32 Freight. ton 3,955,621 2,853,230 2,902,526 5,665,259 10,523,18* Shipping (Sea-going)— 33 Entered. ton 2,521,573 4,032,946 5,273,935 7,514,732 3,895,351 34 Cleared. " 2,594,460 4,071,391 5,421,261 7,028,330 7,948,071 35 Totals " 5,116,033 8,104,337 10,695,196 14,543,062 16,843,42* Shipping (Inland International)— Entered. " 3,954,797 2,763,592 4,099,018 5,766,171 8,536,094 38 Totals " 8,009,995 5,698,095 8,107,452 11,496,746 17,888,741 Shipping (Coastwise)— Entered. " 7,664,863 12,835,774 17,927,959 23,543,694 40 Cleared. " 7,451,903 12,150,356 16,516,832 22,789,454 17 Ctals " 7,451,903 12,150,356 16,516,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 27,866 30,194 31,506	3€	Capital		-		-	100 004 050	027 655 074
Expenses \$ 3,435,102 6,675,08* Canals— 31 Passengers carried No. 100,377 118,136 146,336 190,428 256,508 32 Freight. ton 3,955,621 2,853,230 2,902,526 5,665,259 10,523,18* Shipping (Sea-going)— 33 Entered. ton 2,521,573 4,032,946 5,273,935 7,514,732 3,895,351 34 Cleared. " 2,594,460 4,071,391 5,421,261 7,028,330 7,948,071 35 Totals " 5,116,033 8,104,337 10,695,196 14,543,062 16,843,42* Shipping (Inland International)— Entered. " 3,954,797 2,763,592 4,099,018 5,766,171 8,536,094 38 Totals " 8,009,995 5,698,095 8,107,452 11,496,746 17,888,741 Shipping (Coastwise)— Entered. " 7,664,863 12,835,774 17,927,959 23,543,694 40 Cleared. " 7,451,903 12,150,356 16,516,832 22,789,454 17 Ctals " 7,451,903 12,150,356 16,516,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 25,988,130 34,444,796 46,324,063 15,116,766 27,866 30,194 31,506		Passengers	No.	1 -	_	-	987 026	506 024
Expenses \$ \$ \$ \$ \$ \$ \$ \$ \$	S	Earnings	ton	[_		5, 768, 283	10.966.87
Canals— Passengers carried No 100,377 118,136 146,336 190,428 256,568 Preight ton 3,955,621 2,853,230 2,902,826 5,665,259 10,523,18 Shipping (Sea-going)— Entered ton 2,521,573 4,032,946 5,273,935 7,514,732 3,895,351 Cleared "2,594,460 4,071,391 5,421,261 7,028,330 7,948,071 Totals "3,547,745,755 116,033 8,104,337 10,695,196 14,543,062 16,843,421 Shipping (Inland International)— Entered "3,954,797 2,763,592 4,009,018 5,766,171 8,536,091 Totals "4,055,198 2,934,503 4,098,434 5,720,575 9,352,655 Totals "3,954,797 2,763,592 4,009,018 5,766,171 8,536,091 Shipping (Coastwise)— Entered ton 7,664,863 12,835,774 17,927,959 23,543,664 Cleared "7,451,903 12,150,356 16,516,832 22,783,454 17,516,766 25,988,130 34,444,796 46,324,065 Communications— Telegraphs, Government, miles of line 1,947 2,699 5,744 6,822 17,866 30,194 31,506	30	Expenses	š		-		3,435,162	6,675,037
31 Passengers carried No 100,377 118,136 146,336 190,428 256,508 222 Freight, ton 3,965,621 2,853,230 2,902,826 5,665,259 10,523,183 Shipping (Sea-going)— 32 Entered ton 2,521,573 4,032,946 5,273,935 7,514,732 7,948,071 33 Cleared "2,594,460 4,071,391 5,421,261 7,028,330 7,948,071 35 Totals "5,116,033 8,104,337 10,695,196 14,543,062 16,843,42 Shipping (Inland International)— 36 Entered "3,954,797 2,763,592 4,009,018 5,766,171 8,536,094 37 Cleared "3,954,797 2,763,592 4,009,018 5,766,171 8,536,094 38 Totals "8,009,995 5,698,095 8,107,452 11,486,746 17,888,743 39 Entered "7,451,903 12,150,356 16,516,832 22,789,454 40 Cleared "7,451,903 12,150,356 16,516,832 22,789,454 41 Totals "7,451,903 12,150,356 16,516,832 22,789,454 42 Totals "7,451,903 12,150,356 34,444,796 46,324,063 43 Totals "7,451,903 12,150,356 34,444,796 46,324,063 44 Totals "7,451,903 12,150,356 34,444,796 46,324,063 45 Totals "7,451,903 12,150,356 34,444,796 46,324,063 46 Totals "7,451,903 12,150,356 34,444,796 46,324,063 47 Totals "7,451,903 12,150,356 34,444,796 46,324,063 48 Totals "7,451,903 12,150,356 34,444,796 46,324,063 48 Totals "7,451,903 12,150,356 34,444,796 46,324,063 49 Totals "7,451,903 12,150,356 34,444,796 46,324,063 40 Totals "7,451,903 12,150,356 34,444,796 46,324,063 41 Totals "7,451,903 12,150,356 34,444,796 46,324,063 42 Totals "7,451,903 12,150,356 34,444,796 46,324,063 43 Totals "7,451,903 12,150,356 34,444,796 46,324,063 44 Totals "7,451,903 12,150,356 34,444,796 46,324,063 45 Totals "7,451,903 12,150,356 34,444,796 46,324,063 46 Totals "7,451,903 12,150,356 34,444,796 46,324,063 47 Totals "7,452 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,486 11,4	1		•		1	ĺ		1
Shipping (Sea-going)							+00 400	050 500
Shipping (Sea-going)— Entered		Passengers Carried	No.			9 002 826	5 665 250	10 523 185
34 Cleared. " 2,594,460 4,071,391 5,421,361 7,023,330 7,948,071 355 Totals. " 5,116,033 8,104,337 10,695,196 14,543,062 16,843,42	•	Freignt	ton	3,809,021	2,000,200	2,502,020	0,000,200	10,050,100
34 Cleared. " 2,594,460 4,071,391 5,421,361 7,023,330 7,948,071 355 Totals. " 5,116,033 8,104,337 10,695,196 14,543,062 16,843,42	- 1	Shipping (Sea-going)		i	1			
34 Cleared. " 2,594,460 4,071,391 5,421,361 7,023,330 7,948,071 355 Totals. " 5,116,033 8,104,337 10,695,196 14,543,062 16,843,42	33	Entered	ton	2,521,573	4,032,946	5,273,935	7,514,732	8,895,353
Shipping (Inland International)— 36 Entered	34I	Cleared	++	1 2.594,460	4,071,391	5,421,261	7,028,330	7,948,070
36 Entered	35]	Totals	••	5,116,033	8,104,337	10,099,190	14,545,002	10,040,420
36 Entered	1	Shinning (Inland International	n—		!			1
38 Totals	36	Entered	ton	4,055,198	2,984,503	4,098.434	5,720,575	9,352,653
38 Totals	37	Cleared	16	3,954,797	2,763,592	4,609,018	5,786,171	8,536,090
Entered	38	Totals	**	8,009,995	5,698,095	8,107,452	11,486,746	17,888,743
Entered	ı	Shinning (Casetwies)						l
Communications— Telegraphs, Government, miles of line - 1,947 2,699 5,744 6,825 of line - 27,866 30,194 31,506	30	Entered	ton	-	7,664,863	12,835,774	17,927,959	23,543,604
Communications— Telegraphs, Government, miles of line - 1,947 2,699 5,744 6,825 of line - 27,866 30,194 31,506	10	Cleared	41	-	7,451,903	12, 150, 356	16,516,832	22,78),458
Communications— Telegraphs, Government, miles of line - 1,947 2,699 5,744 6,825 of line - 27,866 30,194 31,506		Totals	64	-	15, 116, 766	25,986,180	34,444,796	46,324,062
42 Telegraphs, Government, miles of line - 1,947 2,699 5,744 6,829 of line - 27,866 30,194 31,506	-1			j i				
of line		Communications— Telegraphs, Government miles					' I	
43 Telegraphs, other, miles of line 27,866 30,194 31,506 44 Telephones No 63,192 - 2,1306	**	of line		-	1,947		5.744	6,829
44 Telephones		Telegraphs, other, miles of line.		- 	- 1	27,866	30, 194	31,506
45) Motor venicles		Telephones	Νo,	[_ [<u> </u>	95,192	9 1208
	5	Motor vehicles,		- 1	1	1	- 1	2, 140

^{1 1876. 2 1875. 3} Motor vehicles in 6 provinces numbered 2,130 in 1907.

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1911.	1916.	1921.	1926.	1929.	1930.	1931.	1932.4
84,368,425	257,019,215	482, 140, 444	606,058,672	646,514,058	384,635,751	292,280,037	204,398,365 1
69, 693, 263	138,875.083	188,359,937	190,975,417	158,757,272	133.009,145	83,714,772	68,798,683
1,818,931	15,097,691	18,783,884	8,940,046	9,678,019	9,066,226	6.504,182	5,512,130 3
56,334,695 9,884,346	83.116.282 66,127,099	284,561,478	278,674,960 74,735,077	288,621,745 82,256,717	289,586,675 78,589,580	230,604,474	175,740,269
34,000,996	66,036,542	45,939,377	97,476,270	112,778,194	154,319,429	95,652,063	69,072,888 6
10,038,493	12,096,973	40,345.345	24,712,584	27,401,790	28,545,096	21,107,780	13,456,701
3,088,840 5,088,564	15,961,226 87,780,527	20,142,826 32,389,669	17,354,389 16,428,376	19,438,064 18,263,813	22,468,462 20,057,988	12,825,852 18,115,846	10.535,038 8 13.367,251 8
274,316,553	741,610,638	1,189,163,701	1,315,355,791	1,363,709,672	1,120,258,302	799,742,867	576,344,302
79,214,041	95, 421, 161	259,431,110	203,417,431	283,130,244	227,048,817	177, 628, 778	128,621,260
30,671,908	38,657,514	61,722,390	49,185,558	71,661,754	69,853,833	45,995,705	24,563,246 11
87,916,282	96,191,485	243.608,342	184.761,831	206, 439, 173	185,241,252 60,951,077	130,717,022	83,879,362 13 32,008,168 13
26,851,936 91,968,180	18,277,420 92,065,895	57,449,384 245,625,703	40,403,096 181,196,800	59,214,818 345,194,597	314,366,791	46,042,029 193,983,477	32,008,168113 98,811.706 14
27,579,572	29,431,592	55,651,319	47,692,985	76,858,365	90,421.154	60,595,034	34,301,105 14
53,430,475 12,471,730	53,490,284 19,217,505	206,095,113 37,887,449	139,033,940	166,964,231 37,723,046	186,496,388 39,907,503	153,578,658 35,650,772	102, 147, 347 10 30, 731, 345 13
42,620,479	65,448,278	72,688,072	28,404,276 58,232,815	68,492,863	73,986,767	62,471,220	43,440,365 18
452,724.603	508, 201, 134	1,240,158,882	927.328,732	1,265,679,091	1,248,273,582	906, 612, 695	578,503,904
25.400	37,484	39,363	40,352	41,409	42,075	42.308	42,437 18
1,528,689,201 37,097,718	1,893,125,774, 43,503,459	2,164,687,636 46,793,251	3,506,758,949 42,686,166	3,902,676,977 39,107,893	4,026,469,311 34,698,767	4,232,022,088 26,396,812	4,348,328,000 26 21,099,582 21
79,884,282	109,659,088	103,131,132	122,476,822	137, 855, 151	115.229.511	85,993,206	67.722,105 22 293,390,415 23
188,733,494 131,034,785	261,888,654 180,542,259	458,008,891 422,581,205	493,599,751 389,503,452	534, 106, 045 433, 077, 113	454,231,650 380,723,411	858,549,382 321,025,588	256, 668, 375 24
1,224	1,674	1,687	1,684	1,637	1,509	1,386	- 2
111.532.347 426,296,792	154,895,584 580,094,167	177, 187, 436 719, 305, 441	215,808.520 748,710,836	222,422,815 836,729,851	224,089,539 792,701,493	215,818,096 720,468,361	- 25 - 26 - 27 - 28 - 28 - 31
1,228,362 20,356,952	1,936,674	2.282.292	3,489,188	3.653,411	2,872,929	1.977.441	- 2
12,096,134	1,936,674 27,416,285 18,099,906	44,536,833 35,945,316	51,723,199 36,453,709	58,268,981 40,085,140	2,872,929 54,719,259 39,125,515	49,088,310 35,867,068	- 31
201.001	200 240	****				400 400	
304,904 38,030,353	263,648 23,583,491	230,129 9,407,021	197,561 13,477,663	164,552 18,699,647	133,266 14,803,334	126,633 16,189.074	44, 189 31 17, 960, 650 33
11,919,339 10,377,847	12,616,927 12,210,723	12,516,503 12,400,226	22,837,720 22,817,276	27,464,158 26,944,369	27, 155, 766 25, 836, 466	28,064,762 26,535,387	27,003,210 33 25,337,081 34
22,297,186	24,827,656	24,916,729	45,654,996	54,408,527	52,992,232	54,600,149	52,340,241 35
13,286,102	16,486,778	14,828,454	14, 117, 099	18 987 751	17,550,585	17,769,690	15,216,213 36
11,846,257 25,132,359	16,406,670 32,893,448	14.903.447	15,474,732 29,591,831	18,987,751 20,338,949 39,326,700	18.895,972 36.446,557	18,542,087 36,311,727	15,879,948 37 31,096,156 38
20,102,000	00,000,710	28, 101, 901	29,091,001	39,320,100	30,440,001	30,311,120	31,090,100 00
34,280,669	35,624,074 33,085,350	28,567,545 27,773,668	41,770,480	49,046,588	43,666,866	47,134,652	44,912,972 39 45,311,899 40
34,280,669 32,347,265 66,627,934	33,085,350 68,709,424	56,841,213	41,117,175 82,887,655	48,007,097 97,053,685	44.067.907 87.734,773	47,540,555 94,675,207	45,311,899 40 90,224,871 41
						1	
8.446	10,699	11.207	10,722	9,848	9,351	9.300	9,077 42
33,905 302,759	38,552 548,421	41,577 9 02 ,090	42,2396 1,201,008	42,987 1,382,822	43,473 1,402,861	43,928 1,364,200	43,285 43 - 44
21,519	123,464	465,378	836,794	1, 188, 929	1,232,486	1,200,903	1,114,503 45

⁴ The figures for 1932 are subject to revision. ⁵ Excluding U.S. lines of Canadian National Telegraphs.

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_	Item.	1871.	1881.	1891.	1901.	1906.
1 2 3	Post Office Revenue	803,637 994,876 4,546,434	1,344,970 1,876,658 7,725,212		3,421,192 3,837,376 17,956,258	5,993,343 4,921,577 37,355,673
4 5 6 2 8 1 1 1 1 1 1 1 1 3	Total Ordinary Revenue	11,841,105 4,295,945 19,335,545 5-50 15,623,082 4-44 19,293,478 5-48 115,492,683 37,786,165	18, 406, 092 5, 343, 022 29, 035, 298 6-83 25, 502, 554 5-88 33, 796, 643 7-79 199, 861, 537 44, 465, 757	23,305,218 6,914,850 38,579,311 7-96 36,343,568 7-50 40,793,208 289,899,230 52,090,199	10,318,266 52,514,701 9.72 46,866,368 8.67 27,982,866 10.73	12.99
	Net Debt \$	77,706,518	155,395,780	237,809,031	268,480,004	267,042,978
14 15		5,518,946 4,935,008	7,858,698 8,119,701	10,693,815 11,628,353	14,074,991 14,146,059	23,027,122 21,169,868
16 17	Note Circulation— Bank Notes	20,914,637 7,244,341			50,610,205 27,898,509°	70,638,870 49,941,426
18 19 20 21 22	Chartered Banks— Capital, paid-up. \$ Assets. \$ Liabilities to the public. \$ Deposits payable on demand. \$ Deposits payable after notice. \$ Totals, Deposits? \$	37,095,340 125,273,631 80,250,974 - 56,287,391	59,534,977 200,613,879 127,176,249 24,346,481	269,307,032	95,169,631 221,624,664	91,035,604 878,512,076 713,790,553 165,144,569 381,778,705 605,968,513
23 24 25	Savings Banks— Deposits in Post Office \$ Deposits in Government Banks \$ Deposits in Special Banks \$	2,497,260 2,072,037 5,766,712	6,208,227 9,628,445 7,686,888	21,738,648 17,661,378 10,982,232	39,950,813 16,098,144 19,125,097	45,736,488 16,174,134 27,399,194
26 27 28	Loan Companies2— Assets	8,392,464 8,392,464 2,399,136	73,906,638 71,965,017 13,460,268	123,915,704	158,523,307	282,076,447 282,076,447 23,046,194
23 80	Trust Companies— Shareholders' assets	<u>-</u>		-	Ξ	
31 32	Dominion Fire Insurance— Amount at risk, Dec. 31\$ Premium income for year\$	228,453,784 2,821,716	462,210,968 3,827,116		1,038,687,619 9,650,348	1,443,902,244 14,687,963
33 34	Provincial Fire Insurance— Amount at risk, Dec. 31	- -	<u>-</u> -	<u> </u>	-	
35 36 27	Dominion Life Insurance— Amount at risk, Dec. 31	45,825,985 1,852,974	103,290,932 3,694,689	261,475,229 8,417,702	463,769,034 15,189,854	656, 260, 900 22, 364, 456
38 39 40	Premium income for year	- -	-	580,644 -	1,871,062 -	3,950,701
41 42 43 44	Controlled Schools only) Enrolment	803,000 13,559	891,000 18,016	1	1,083,000 669,000 27,126 11,044,925	1,178,009 743,496 32,250 16,368,244

¹ Figures do not include fraternal insurance. ² Including amounts deposited elsewhere than in Canada from 1901. ³ Including Building Societies and Trust Companies (1871-1911). ⁴The figures for 1932 are subject to revision. ⁵ As at June 30. ⁵ Active assets only. ⁷ Included in Post Office savings banks. ⁸ These figures are for 1924, the first year for which bank debits are available.

NOTE.

In the foregoing Summary, the statistics of immigration, fisheries (1871-1916), trade, shipping, the Post Office, the public debt, revenue and expenditure and the Post Office and Government savings banks

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								_
1911.	1916.	1921.	1926.	1929.	1930.	1931.	1932.4	
9,146,952 7,954,223 70,614,862	18,858,410 16,009,139 94,469,871	24.661.262	31,024,464 30,499,686 177,840,231	31,170,904 33,483,058 203,129,237	32,969,293 35,036,629 197,699,353	30,416,106 36,292,603 167,749,651	32,476,604 34,448,986 132,625,260	12
71,838,089 16,869,837 117,780,409 16-34 87,774,198	98,649,409 22,428,492 172,147,838 21,42 130,350,727	163,266,804 37,118,367 434,386,537 49.64 361,118,145	127,355,143 42,923,549 380,745,506 40.52 320,660,479	63,684,954 455,463,874 45.89	65,035,701 441,411,806 43.69	131,208,955 57,746,808 349,587,299 34-32 389,558,289	104,132,677 48,654,862 329,709,056 32.05 375,403,344	6
87,774,198 12:18 122,861,250 17:04	16-22 339,702,502 42-27	41-09 528, 283, 199	33+93 355, 186, 423	35 00 388,805,953	398, 176, 246	37-55 440,008,855	85 · 78 450 · 955 · 541	10
474,941,487 134,899,435	936, 987, 802 321, 831, 631	2,902,482,117 561,608,1336	2,768,779,184 379,048,085	2,647,033,978 421,529,2686	39-01 2,544,586,411 366,822,452	2,610,265,698 348,653,762	2,831,743,563 455,897,390	12 13
340,042,052	615, 156, 171	2,840,878,984	2,389,731,099	2,225,504,705	2,177,763,959	2,261,611,936	2,375,846,172	
40,706,948 38,144,511	50,015,795 53,826,219	102,030,458 102,569,515	146,450,904 144,183,178	183,598,024 177,542,192	188, 154, 910 184, 804, 203		=	14 15
89, 982, 223 99, 921, 354	126,691,913 176,816,006	271,531,162	190,004,824	204,381,409	159,341,085 174,616,019	153,079,362	132,165,942 165,878,510	17
103, 909, 256 1,303,131,260 1,097,661,393 304,801,755 568,976,209 980,433,788	113, 175, 353 1,839,286,709 1,596,905,337 428, 717, 781 780, 842, 383 1,418,035,429	129, 096, 339 2,841,782,079 2,556,454,190 551, 914,643 1,289,347,063 2,264,586,736	116, 638, 254 2,864,019,213 2,604,601,786 553, 322, 935 1,340,559,021 2,277,192,043	137, 269, 085 3,528,468,027 3,215,503,098 696,387,381 1,479,870,058 2,696,747,857	144,560,874 3,237,073,853 2,909,530,263 622,895,347 1,427,569,716 2,518,611,587	144,674,853 3,066,018,472 2,741,554,219 578,604,394 1,437,976,749 2,422,834,828	144,500,000 2,869,429,779 2,546,149,789 486,270,764 1,376,325,128 2,258,639,530	18 19 29 21 23
43,380,579 14,673,752 34,770,386	40,008,418 13,519,855 40,405,037	29,010,619 10,150,189 58,576,775	24,035,669 8,794,875 67,241,344	28,375,770 70,809,603	26,086,036 68,846,366	24,750,227 69,820,422	23,919,677 68,683,324	24
389,701,988 389,701,988 33,742,513	70,872,297 70,872,297 8,987,720	96,698,810 95,281,122 15,868,926	120,321,095 119,455,317 21,316,150	135,358,095 134,654,166, 29,602,789	143,308,774 -142,178,240 31,581,913	147,921,556 146,858,594 30,823,662	Ξ	26 27 28
-	7,826,943 47,162,220	10,237,930 87,811,965	13,195,277 157,756,647	14,669,497 234,470,089	14,952,282 231,691,422	15,459,347 256,876,037	-	29 30
2,279,868,346 20,575,255	3,720,058,236 27,783,852	6,020,513,832 47,312,564	8,051,444,136 52,595,923	9,431,169,594 56,112,457	9,672,996,973 52,646,520	9,544,641,293 50,342,669	9,254,378,288 46, 93 3,270	31 32
-	849,915,678 3,902,504	1,269,764,435 5,545,549	1,286,255,476 6,068,7 0 1	1,305,123,764 5,400,527	1,290,302,102 5,505,600	1,280,923,112 6,848,712	1,228,396,488 5,318,814	33 34
950,220,771 31,619,626	1,422,179,632 48,093,105	2,934,843,848 99,015,081	4,610,198,334 160,746,413	6,157,262,207 210,728,479	6,492,428,676 220,523,727	6,622,556,490 225,152,008	6,471,588,455 216, 133, 010	35 36
=	348,097,229 5,311,003	222,871,178 4,389,008	147,821,972 3,991,126	202,961,007 5,310,568	190,589,965 5,032,428	202,094,301 5,178,615	178, 120, 314 4, 745, 111	37 38
7,846,381 -	10,315,8 5 3	16,811,287 27,157,4748	17,715,099 30,358, 0 34	25,105,188 46,670,482	20,091,874 37,491,302	16,827,603 31,586,468	12,914,155 25,844,268	39 40
1,356,879 870,801 40,516 37,971,374	1,622,351 1,140,793 50,307 57,362,734	1,869,643 1,335,454 56,607 112,976,543	2,063,498 1,547,992 63,840 122,701,259	2,156,549 1,644,786 68,888 130,658,883	2,192,017 1,688,918 69,820 135,901,082	=		41 42 43 44

relate to the fiscal years ended June 30 up to 1906, and from then on to the years ended Mar. 31. Agricultural, dairying, fisheries (1922-26), mineral, manufacturing, banking, insurance, loan and trust companies statistics relate to the calendar years and railway statistics to the years ended June 30, 1871-1916, and to the calendar years 1921 and 1924-28. Canal statistics are those of the navigation seasons. The telegraph statistics relate to the fiscal years for Government lines and to the calendar years for other lines.

ERRATA.

- P. 2. Total land and fresh water area of Cape Breton Island should be given as 3,970 square miles in line 9 of the second paragraph. This correction applies also to page 18, line 2.
- P. 34. Line 11. "Pardo" should be "Pardoe".
- P. 72. Table 1. "The Earl of Minto, K.C.M.G." should read "G.C.M.G."
- P. 84. Table 9. The population of the electoral district of Argenteuil is 18,976, not 78,976.
- P. 174. Middle Paragraph. Deaths in the 9 provinces in 1927 numbered 105,292 instead of 105,136 as given in the text.

CHAPTER I.—PHYSIOGRAPHY.

PART L-GEOGRAPHICAL FEATURES.1

Situation.—The Dominion of Canada comprises the whole northern half of the North American continent except the United States territory of Alaska, and the Coast of Labrador, a dependency of the Colony of Newfoundland. It also includes the Arctic archipelago between Davis strait and the 141st meridian.

The Dominion is bounded on the west by the Pacific ocean and Alaska; on the south by the 49th parallel, the Great Lakes, the St Lawrence river and additional lines set out by the Ashburton Treaty, signed Aug. 9, 1842; and on the east by the Atlantic ocean, the gulf of St. Lawrence, the territory of the Coast of Labrador (as defined by the award of the Privy Council, Mar. 1, 1927), and Davis strait. As regards the far north, Canada includes all the lands in the area bounded on the east by a line passing midway between Greenland and Baffin, Devon and Ellesmere islands to the 60th meridian of longitude, following this longitude to the pole, and on the west by the 141st meridian of longitude, following this longitude to the pole. The southernmost point is Middle island in lake Erie, in north latitude 41° 41′, while from east to west the Dominion extends from about west longitude 57°—at the southernmost point of the boundary with the Coast of Labrador—to west longitude 141°, the boundary with Alaska. Canadian territory thus extends over 84° of longitude and 48° of latitude.

Area.—The area of the Dominion (as revised on the basis of the results of recent explorations in the north) is 3,684,463 square miles, a figure which may be compared with that of 3,738,395 square miles for the United States and its dependent territories, 3,776,700 the total area of Europe, 2,974,581 the total area of Australia, 4,277,655 the total area of China inclusive of dependencies, 3,275,510 the area of Brazil, 1,805,332 the area of India, 121,633 the area of the British Isles and 13,355,426 the area of the British Empire. By comparison with the last two figures, Canada is seen to be over 30 times as large as the British Isles and to comprise over 27 p.c. of the total area of the British Empire.

Political Subdivisions.—Canada is divided from east to west into the following provinces: the Maritime Provinces of Prince Edward Island, Nova Scotia and New Brunswick, all three comparatively small in area; Quebec, covering a strip south of the St. Lawrence and the whole territory north of the St. Lawrence and east of the Ottawa to Hudson strait, less the territory of the Coast of Labrador; Ontario, extending northward from the Great Lakes to Hudson bay; Manitoba, Saskatchewan and Alberta, the provinces of the interior continental plain, extending from 49° to 60° north latitude; and British Columbia, the province of the western mountain and Pacific Coast region, also extending from 49° to 60° North of the 60th parallel of latitude, the country is divided into the Yukon Territory and the Northwest Territories, the latter area composed of the provisional districts of Mackenzie, Keewatin and Franklin.

Prince Edward Island.—This, the smallest province of the Dominion, lies in the southern bend of the gulf of St. Lawrence and is separated from the mainland by Northumberland strait. It is about 120 miles in length and, with an average width of 20 miles, covers an area of 2,184 square miles, approximately 200 square

¹ Revised by F. H. Peters, Director of the Topographical Survey, Department of the Interior, Ottawa. 52230-1

miles more than the State of Delaware. The island is almost trisected by the deep indentations of Malpeque bay north of Summerside and by the mouth of the Hillsborough river at Charlottetown, which nearly meets Tracadie bay on the north side. Its rich red soil and red sandstone formations are a distinct feature, and no point in the island attains a greater altitude than 306 feet above sea-level. A climate tempered by the surrounding waters of the gulf and yet free from the rigours of Atlantic storms, combined with a fertile soil and sheltered harbours, offers great inducements to the pursuits of agriculture and fishing. The province is noted for its relative predominance in the fox-farming industry, its lobster canneries, and its production of oats and potatoes.

Nova Scotia.—The province of Nova Scotia is 381 miles in length by from 50 to 105 miles in width, a long, narrow strip of land lying parallel to the Maine and New Brunswick coast and joined to the latter province by the isthmus of Chignecto. It includes at the north the island of Cape Breton, which is separated from the mainland by the narrow strait of Canso. The total area of the province is 21,068 square miles, a little over 2,000 square miles less than the combined area of Belgium and Holland. Cape Breton island, south of the main entrance to the gulf of St. Lawrence and sheltering Prince Edward island from the Atlantic, is roughly 100 miles in length with an extreme breadth of 87 miles. Its area of 3,120 square miles encloses the salt-water lakes of Bras d'Or, connected with the sea at the north by two natural channels and at the south by the St. Peters ship canal. low mountainous country running through the centre of the Nova Scotia mainland, the highest altitude of which is less than 1,500 feet, divides it roughly into two That facing the Atlantic is generally rocky and open to the sweep of Atlantic storms, but the other, facing the bay of Fundy and Northumberland strait, consists for the most part of fertile plains and river valleys noted for the general farming and fruit-farming districts which produce the famous Nova Scotian apples. The Atlantic coast is deeply indented with numerous excellent harbours many of which provided splendid homes and refuges for the old sail fishing fleets.

New Brunswick.—With a total area of 27,985 square miles, New Brunswick may be compared in size to Scotland with its area of 30,405 square miles. The province is very compact and in shape nearly rectangular, with its depth not greatly exceeding its width. The conformation is in general undulating and of low relief. In the southeastern half of the province the ground elevation does not generally exceed 500 feet above sea-level except for a narrow strip in the south which produces the highlands bordering the bay of Fundy east of Saint John. In the northwestern half the ground elevation is in general from 500 to 1,000 feet above sea-level and reaches its greatest elevation of over 2,700 feet in Northumberland county northeast of Grand Falls. The St. John, rising in the sister province of Quebec and the bordering State of Maine, is a river with many distinctive beauties, while its length of nearly 400 miles makes it quite noteworthy as to size. In the northeastern half of the province there are very extensive areas of Crown lands still carrying valuable stands of merchantable timber. While New Brunswick is essentially a part of the mainland, the bay of Chaleur at the north, the gulf of St. Lawrence and Northumberland strait at the east, the bay of Fundy at the south and Passamaquoddy bay at the southwest, provide the province with a very extensive sea-coast. To its southwest is a group of islands belonging to the province, the most important of which are Grand Manan, Campobello, and the West Isles. New Brunswick has

been called the best watered country in the world; numerous rivers provide access to extensive lumbering areas in its interior and to many of the most attractive hunting and fishing resorts in the Dominion.

Quebec.—Quebec might with considerable accuracy be included among the Maritime Provinces, for the gulf of St. Lawrence is really a part of the Atlantic. and altogether salt water washes the coasts of the province for a length of over 2.700 miles. Besides including a narrow strip of land between the St. Lawrence and the International and New Brunswick boundaries, Quebec extends northward from the St. Lawrence and Ottawa rivers to Labrador and Hudson strait, covering over 17° of latitude and an area of 594.534 square miles, about 38 n.c. of which lies south of the isotherm of 60° F. mean July temperature. The combined areas of France, Germany and Spain are about 2,600 square miles less than the area of Quebec. The conformity of the surface of Quebec is in general that characteristic of the Precambrian rocks, being quite even in general but much diversified by minor hills and hollows. North of the St. Lawrence the land takes the form of a ridge, parallel to the river and rising from sea-level to the Height of Land at an elevation of from 1,000 to 3.000 feet and then descending gently again to the sea-level of Hudson bay to the northwest; but to the northeast the ridge carries its height to end abruptly in the high headlands of Labrador. South of the river, the area is comprised of the St. Lawrence Lowlands between Montreal and Quebec which, rising to the east, produce the highest elevation in the province, of about 4,200 feet, in the Gaspé peninsula. With the exception of the treeless zone extending somewhat south of Ungava bay the whole of the province supports a valuable tree growth varying from the mixed forest in the southwest to the eastern and northern coniferous in the areas of higher latitude. Apart from its importance as the threshold of Canada and the gateway through which ocean vessels must pass on their way to the interior of the continent Quebec is also noted for its natural resources. The extensive timber limits of its northern areas form the basis for the great pulp and paper industry of the present and the future. Its rivers, many of them as yet comparatively unknown, may be harnessed to supply over one-third of the electric power available in Canada. Its mineral deposits, particularly those of asbestos, have long been known for their quality and extent, while more recent developments of copper and gold deposits in Rouyn and the neighbouring townships in the western part have brought the province up to second place in mineral production in Canada. The fisheries of the St. Lawrence river and gulf are well known. Agriculturally, the climate and soil of the upper St. Lawrence River valley and the plains of the Eastern Townships are eminently adapted to general farming operations.

Ontario.—The province of Ontario is the section of the Dominion contained between the great international lakes and Hudson bay and between the western boundary of Quebec and the eastern limits of Manitoba. Although generally regarded as an inland province, Ontario has a fresh-water shore line on the Great Lakes of more than 2,362 miles and on the north a salt-water shore line of about 680 miles with a tidal port at Moosonee at the southern end of James bay. The southernmost point of Ontario, which is also the southernmost point of the Dominion, is in north latitude 41° 41′—a little further south than the northern boundary of the State of California—and its most northern, in north latitude 56° 48′. The total area comprised within its limits, of which about 82 p.c. lies south of the isotherm of 60° F. mean July temperature, is 412,582 square miles, of which its fresh-water area

¹ The isotherm of 60° F, mean July temperature is generally considered as the northern limit for the economic production of cereals.

of 49.300 square miles forms the unusually large proportion of 12 p.c. The province is over 17,000 square miles greater in area than are France and Germany together, and when compared with the States to the south, Ontario is found to be almost equal in extent to the combined areas of the six New England States, together with New York. New Jersey. Pennsylvania, Ohio, Indiana, Illinois, Michigan and Wisconsin. Excepting in the southwestern part, the surface conformity of Ontario is influenced by the characteristics of the Precambrian rocks. In northern Ontario a large area with elevations of 1,000 feet or over adjoins the north shore of the Great Lakes and going north a short distance over the Height of Land the slope descends very gently to Hudson bay, which has a wide marginal strip less than 500 feet above sea-level. The highest point in Ontario is 2,120 feet, on the promontory at the northeastern corner of lake Superior. The whole province supports a valuable covering of trees. varying from south to north, from the mixed forest to the eastern and northern coniferous. Many varieties of climate and soil are encountered, from the distinctively southern conditions found along the shores of lake Erie to the very different ones of Hudson and James bays. Ontario, of all the provinces of Canada, is the centre of the country's manufacturing life, owing to its abundant water-power resources and its proximity to the coal fields of Pennsylvania, but the many resources of its rural districts are not on this account neglected. Mining is an important industry in the Sudbury, Porcupine, and Kirkland Lake districts, the nickel coming from the Sudbury field amounting to 90 p.c. of the world production, while, as regards gold production the province ranks first in Canada. Fruit farming in the Niagara district and general farming throughout the entire southern part of the province are carried on extensively under unusually favourable conditions, while timber, pulp and furs are among the most important products of more northern parts.

Manitoba.—Manitoba, the most easterly of the Prairie Provinces, and also the oldest of them in point of settlement, includes the area between Ontario on the east and Saskatchewan on the west. Its southerly limit is the International Boundary, while its northerly boundary is the 60th parallel of latitude and Hudson bay, where its coast of over 400 miles includes the harbour and port of Churchill. The total area of Manitoba, of which about 56 p.c. lies south of the isotherm of 60° F. mean July temperature, is 246,512 square miles—3,246 square miles greater than twice the total area of the British Isles. The conformity of the surface of Manitoba is quite even; commencing on the north with a strip bordering on Hudson bay perhaps 100 miles wide and less than 500 feet in elevation, the surface rises gradually towards the west and south. The bulk of the province has an elevation of between 500 and 1,000 feet, with the greatest height of 2,727 feet attained in Duck mountain, northwest of lake Dauphin. East and north of lake Winnipeg the Precambrian formation intrudes, producing a rock formation, but the remainder of the province is overlain by very fertile soil of great depth. The treeless prairie belt extends into the southwest corner of the province, but the greater portion of the developed area is in the grove belt, characterized by groves of poplar interspersed with open prairie patches; to the north there are great areas of northern mixed forest, blending into the northern coniferous, which thin again to some treeless areas along the coast line farther north. The province has been regarded as typically agricultural, its southern lands being specially adapted to this form of industry. Its northern districts, however, are of importance in the production of timber and also contain large mineral deposits particularly of copper-gold ore. About three-fifths of the area of this province is underlain by the Precambrian rocks which have been found so rich in minerals in northern Ontario and Quebec.

^{&#}x27;See (ootnote, p 3.

Saskatchewan.—The central prairie province lies between Manitoba and Alberta: it reaches to the International Boundary on the south and its northerly limit is the 60th parallel of latitude, which divides it from the Northwest Territories. of which about 89 p.c. lies south of the isotherm of 60° F. mean July temperature. is 251,700 square miles, approximating that of Manitoba, and greater by 5,000 square miles than the combined areas of the British Isles and Norway. With the exception of a point of the Precambrian rocks jutting in from the east at the Height of Land, well to the north, and again covering a narrow strip along the northern boundary, the whole of the province is overlain by generally fertile soil of great depth. The greater part of the developed area in the south is comprised in the great treeless prairie belt, fringed to the north with a zone of poplar, interspersed with open prairie, which gradually changes into the northern mixed forest covering all the northerly parts. Apart from the southern prairies, which are extraordinarily smooth, the surface topography is generally of low relief and with a general rising slope towards the west. The bulk of the province has a general elevation of between 1,000 and 2,000 feet, with the maximum elevation of about 4,500 feet on the eastern point of the Cypress hills in the southwest corner. The climate is quite different from that of Eastern Canada, with less precipitation and perhaps slightly more severe features than are encountered in many other parts of the country, but is nevertheless most favourable to plant and animal growth. The northern districts, abundantly watered by lakes and rivers, are rich in timber resources and have prospective mineral wealth, while the southern plains include a large portion of the wonderful western wheat fields.

Alberta.—Lying between Saskatchewan on the east, and the Rocky mountains and the 120th meridian on the west, and bounded on the north and south by the Northwest Territories and the United States respectively, is the province of Alberta. Its area is slightly greater than that of Saskatchewan or Manitoba, comprising a total of 255,285 square miles, of which about 90 p.c. lies south of the isotherm of 60° F. mean July temperature. The area of the province is over 8,600 square miles greater than the combined areas of the British Isles and Norway. Like Saskatchewan, the southern part of the province is comprised in the dry treeless prairie belt, changing to the north into a zone of poplar interspersed with open prairie, which again gives way to the northern mixed forest covering the northerly parts. The Precambrian rocks just touch Alberta at its northeast corner, so that excepting the fringe of mountainous country on its western border the whole of the province is overlain by arable soil of great depth. Alberta has two marked features: (1) the great valley of the Peace river, which has already resulted in the extension of settlement farther north than in any other part of Canada, and (2) the wonderful grazing lands in the foothills district, which, rising sharply on the west, commences the ascent which continues to the very peaks of the Rocky mountains. The southern half of the province, rising toward the west, lies at a general elevation of from 2,000 to 4,000 feet; but in the northern half the slope descends until elevations of well under 1,000 feet are reached at lake Athabaska in the northeast corner. Mount Columbia, with an elevation of 12,294 feet, is the highest point in the province. Considerable coal and oil mining are carried on, lumbering is important in the more mountainous western parts and in the north, while some ranching is still pursued in the less populous sections. The climate of Alberta is a particularly pleasant one, cooler in summer than more eastern parts of the country and tempered in winter by the "Chinook" winds.

Bee footnote, p. 3.

British Columbia.—British Columbia, the most westerly province of the Dominion, comprises an area of 355,855 square miles, slightly less than three times the area of the British Isles. The predominant feature of the province is the parallel ranges of mountains which cover all of it except the northeast corner and produce a conformation characterized by high mountain ranges interspaced with valleys, many of which are extremely fertile, with climatic conditions well adapted to mixed agriculture or fruit growing. Apart from the smoother area in the northeast corner which extends up from the "Peace River Block" there is another notably large area of smoother terrain in the Stuart Lake district traversed by the Canadian National Railway running west from Fort George to Prince Rupert. The highest point in the province is Mount Fairweather (15,287 feet). The shore line of the Pacific is deeply indented with many inlets ideal for harbourage and with wonderful scenic aspects. With two ocean ports served by transcontinental railways British Columbia is well situated and equipped to carry on trade with the Orient, while its great stands of fir. spruce and cedar timber constitute a natural resource of great value. The province includes many islands of the Pacific, notably the Queen Charlotte group and Vancouver island; the latter, with an area of about 13,500 square miles, is noted for its temperate climate and abundant natural resources. mines, timber, fisheries and agricultural resources of the province are remarkable for their quality and extent. The boundaries of the province extend from Alberta on the east to the Pacific ocean and Alaska on the west, and from the International Boundary northward to the Yukon.

Yukon and Northwest Territories.—The vast area of 1,516,758 square miles is included within the boundaries of Canada's northern subdivisions, the Yukon Territory and the three provisional districts of the Northwest Territories. is over twelve times the area of the British Isles, nearly half the area of the United States, and more than the combined areas of the Argentine Republic and Chile in The northern territories are as yet, in parts, unexplored and South America. excepting the main through water routes are still in many places unmapped in any accurate way. The territories are known to include mighty rivers like the Mackenzie and the Yukon and great inland bodies of water such as Great Slave and Great Bear lakes; but with the present paucity of accurate knowledge the potentialities of this great area are at present unknown. The many general indications of mineral wealth in the country together with the recent mineral discoveries in the Great Bear Lake-Coppermine River area suggest that the future may well reproduce the great gold rush to the Yukon in 1897. Because a large portion lies within the Arctic circle the tendency has been to associate with the Northwest Territories thoughts of ice and snow, but as our knowledge is increased the argument steadily gains more weight that what have been regarded in the past as the great 'barren lands' of the north are more appropriately described as our great northern prairies. The opening of the port of Churchill, making the Hudson Bay coast of the district of Keewatin readily approachable, adds considerably to the transportation facilities, which previously have been confined to a regular steamboat summer route down the Mackenzie river. In the future it is likely that travel and transport by air will have a great influence in the further development of these territories, while a net of established radio stations already brings a large area within the realm of quick communication. The production of minerals in the Yukon in 1931 was valued at \$2,145,347, while the value of the production of furs in the Northwest Territories and Yukon in the 1930-31 season was \$2,090.961.

Summary of Land and Water Area.—The total land and fresh-water area of the Dominion, together with its distribution by provinces and territories, is shown in Table 1.

1.—Land and Fresh-Water Area of Canada, by Provinces and Territories, as in 1933.1

Province or Territory.	Land.2	Fresh Water. ²	Total.	Per Cent of Total Area.
	eq. miles.	sq. miles.	sq. miles.	
Prince Edward Island	2,184	_	2.184	0.1
Nova Scotia	20,743	825	21,068	0.6
New Brunswick	27,710	275	27,985	0.8
Quebec	523,534	71,000	594,534	16-1
Ontario	363,282	49,300	412.582	11.2
Manitoba		26,789	246,512	6.7
Saskatchewan		13.725	251,700	6.8
Alberta	248,800	6,485	255,285	9-7
British Columbia. Yukon. Northwest Territorics—	349,970 205,346	5,885 1,730	355,855 207,076	5.6
Franklin	546.532	7,500	554.032	15.0
Keewatin	218,460	9,700	228, 160	6.2
Mackenzie	493,225	34,265	527,490	14.3
Totals	3,457,484	228,979	3,684,463	199 - 0

¹The salt-water areas of Canada are excluded. ²

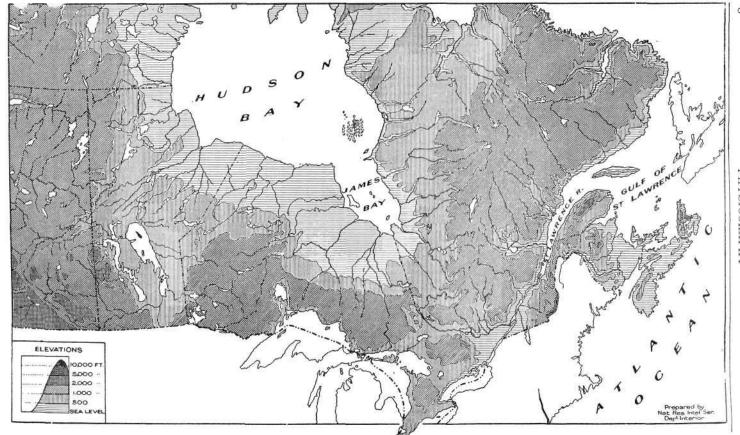
Section 1.—Orography.

The conformation of the present surface of the North American continent admits of its apportionment, in Canada, into several orographic divisions. The exposed surface of the old Precambrian continent forms one of the largest divisions and has been called the Canadian Shield, the Archæan Peneplain and in its southern portion, the Laurentian Highland. The mountainous country of the west constitutes the Cordilleras, while the mountains of eastern United States, in their continuation across the border, form the Appalachian Highland of Eastern Canada. The Great Plains, with various subdivisions, occupy the area between the mountainous area of the west and the great roughened surface of the Canadian Shield. The St. Lawrence Lowlands lie between the Laurentian and Appalachian Highlands. Within the borders of the Canadian Shield an area on the southern margin of Hudson bay has been referred to as the "clay belt" It occupies a part of the basin that during the glacial period was submerged and covered with a coating of clay which smoothed over its inequalities and concealed most of the underlying rocks. Since its emergence the surface has been but slightly altered by drainage channels cut across it.

Orographical maps of Eastern and Western Canada, showing elevations above sea-level, will be found on pp. 8 and 10 of this volume.

Canadian Shield.—The portion of the Precambrian continent whose exposed surface still forms a large part of Canada has an area of about two and a half million square miles. Its northern border crosses the Arctic archipelago and the eastern lies beyond Baffin island and Labrador and reaches the depressed area occupied by

² Approximate.



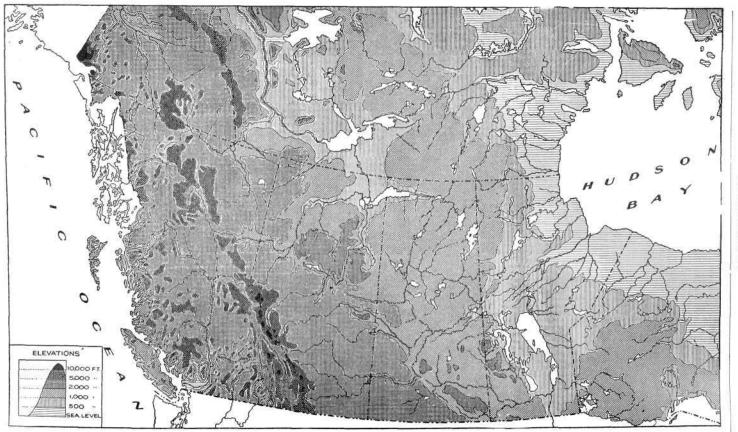
OROGRAPHY OF EASTERN CANADA AND LABRADOR.

the St. Lawrence river, a short spur or point crossing this valley at the outlet of lake Ontario to join the Adirondack mountains in New York. The southern boundary runs from this spur west to Georgian bay, skirts the north shore of lake Huron and sweeps almost around the ancient depressed area occupied by lake Superior. The western edge, from the lake of the Woods and lake Winnipeg, bears northwest to the western end of lake Athabaska, and passes through the basins occupied by Great Slave and Great Bear lakes, reaching the Arctic ocean east of the Mackenzie River delta. In detail, the surface features of the Canadian Shield are irregular, but, viewed broadly, it has the conformation of a great plain, depressed toward the centre and in the north and slightly elevated along the eastern and southern borders where it presents a rather steep outward slope. The general elevation in the eastern portion is under 2,000 feet and over the larger part of the plain is about 1,000 feet. The highest portion is along the northeastern margin, where it presents a steep face to the sea, rising to a maximum altitude of about 6,000 feet.

Appalachian Region.—The continuation of the Green mountains of Vermont into Canada may be traced in the Notre Dame mountains, which approach the St. Lawrence northeast of Quebec and, continuing with more easterly trend, form the highland of the Gaspé peninsula. Over a large part of the region, these hills hardly attain the dignity of mountains, but peaks rising more than 3,500 feet above the nearby coast are found in the Gaspé peninsula. The continuation of the White mountains of New Hampshire is found in the highlands of Maine and New Brunswick, the continuity being shown quite plainly by the rock-folding and other evidences of the great earth movements which caused the topography. An additional ridge apparently forms the present province of Nova Scotia, and although the highlands of that province do not attain elevations of even 1,500 feet, the rock structure indicates that it was a mountainous country at no very remote geological period.

St. Lawrence Lowlands.—The southern interior of the continent consists of a plain of low relief, bordered on the east by the Appalachian mountains, on the west by the Cordilleran Mountain systems, and on the north by the Laurentian plateau. This plain, in its Canadian portion, is known as the St. Lawrence Lowlands, and extends from a short distance below Quebec city to lake Huron, south of Georgian bay, having a length of 600 miles and an area of 35,000 square miles. To the northeast it becomes reduced in width, and in the vicinity of Quebec is represented by a narrow plateau or shelf on each side of the St. Lawrence river.

Great Plains.—A great area, including diverse features, lies to the east of the Cordilleras. The portion that is included under the term Great Plains extends from the southwestern edge of the ancient surface, forming the Canadian Shield, to the eastern edge of the mountainous region of the Cordilleras. This area is characteristically different from other parts of Canada in that any exposure of Generally, it is overlain by great depths of soil, through surface rock is rare. which the streams have cut themselves down into deep coulées and the rivers into deep wide valleys. Lakes of any considerable extent are infrequent and usually quite shallow; in the dry prairie section there are many places where the absorption from the broad and shallow bodies of water is so great that they have little or no outflowage and consequently the concentration of mineral salts in the water makes it unfit for domestic use. The terrain is generally smooth or gently undulating and with elevations of from 600 to 3,500 feet has a general upward slope toward the south and west where, rising more sharply in the foothills, the real ascent to the high mountains commences.



OROGRAPHY OF WESTERN CANADA.

Cordilleran Region.—The western part of the American continent is more or less mountainous. The Andean chain, which extends throughout the length of South America and broadens out in the United States has, in Canada, an average width of about 475 miles. This region, covering about 530,000 square miles, is the most elevated in the Dominion, many of the summits reaching heights of 10,000 feet, with occasional peaks over 13,000 feet above sea-level. The mountainous tract forming the Cordilleras can be divided broadly into three parallel bands: a series of plateaus and mountains, comprised in the Columbia, Interior, Cassiar, and Yukon systems, forming the central part, referred to as the Central Belt; another series of parallel ridges east of the central plateaus, formed of fault rocks and folds and including the Rocky and Arctic systems, known as the Eastern Belt; and a third division between the plateau country and the Pacific, composed of the Pacific and Insular systems, called the Western Belt.

Table 2 shows the principal named Canadian Cordilleran peaks exceeding 11,000 feet in elevation.

2.—Mountain Peaks over 11,000 feet in Elevation, with Latitude and Longitude.

Province and Mountain Peak.	Elevation.	N, I	at.	W.L	ong.	Range.
erta—	Ít.		,	•	,	
Alberta	11.874	52	14	117	36	Rocky Mt
Alexandra ³	11,214	51	59	117	12	a
Assiniboine ¹	11,870	50	56	115	42	"
Athabaska	11,452	52	07	117	11	"
Coleman	11,000	52	06	116	55	
Columbia ²	12,294	52	09	117	27	"
Deltaform ¹	11,235	51	18	116	15	14
Diadem	11,060	52	19	117	00	"
Forbes	11,902	51	48	116	56	14
Fryatt.,	11,026	52	33	117	, 54	44
Hector	11,135	51	34	116	15	14
Hungabeet	11,457	51	20	116	17	**
Joffret	11,316	50	32	115	12	4
King Edward ¹	11,400	52	10	117	30	44
Kitchener	11,500	52	13	117	19	44
Lyell ¹ ,	11,495	51	58	117	06	44
Lefroy1	11,230	51	22	116	17	44
Lunette ¹ ,	11,150	50	52	115	39	**
Sir Douglast	11,174	50	43	115	20	++
Show Domet	11,340	52	11	117	19	44
Stutfield	11,320	52	15	117	29	te
Temple	11,636	51	21	116	15	44
The Twins	$\{11,675 \\ 12,085$	52	13	117	12	1.6
Victoria1	11,365	51	23	116	18	16
Wilson	11,000	51	58	118	45	şe
Woolley		52	18	117	25	

¹ This peak is on the interprovincial boundary between Alberta and British Columbia.

2.—Mountain Peaks over 11,000 feet in Elevation, with Latitude and Longitude—con.

Province and Mountain Peak.	Elevation.	N.:	Lat.	W. L	ong.	Range.
	ft.	•	,	•	,	
ritish Columbia—						
Bush	11,000	54	00	120	15	Rocky Mts
Bryce	11,507	52	03	117	20	
Clemenceau	12,001	_	-	l –	-	"
Chown	11.500	53	26	l 119	26	44
Delphine	11,076	50	28	116	25	Selkirk Mt
Fairweather!	15,287	58	54	137	31	St. Elias M
Paul		50	29	116	27	
Farnham	11,342					Selkirk M
Goodsir	11,676	51	12	116	24	Rocky Mt
<u>H</u> asler	11,113	51	09	117	25	Selkirk Mt
Huber	11.051	51	22	116	18	"
Jumbo	11,217	50	24	116	32	Rocky Mt
King George	11,226	5ò	86	1115	24	2000
Posslandont	11,240	53	05	119	őž	44
Resplendent					08	
Robson	12,972	53	07	119		
Root1	12,860	58	59	137	30	St.EliasM
Selwyn	11.013	51	09	117	24	Selkirk M
Sir Alexander	11,000	54	00	1 120	15	Rocky M
Sir Sandford	11.590	51	39	117	52	Selkirk M
The Helmet	11.160	51	ĭĭ	116	20	Rocky M
THE LIGHTER, , , , ,						LOUKY III
Whitehorn	11,101	53	08	119	16	"
Tukon	l					l
Alverstone	14,500	60	21	139	02	St.EliasM
Augusta	14.070	60	18	140	28	. "
Baird,	11.375	60	19	140	31	1 "
Badham	12,625	60	38	139	47	"
Cools	13.760	60	10	139	39	- 66
Cook		00	Ţ0	199	99	l "
Craig	13,250			l=		"
Hubbard	14,950	61	16	140	53	
Jeannette	11,700	60	20	140	43	**
King	17.130	60	35	140	89	"
Logan	19,850	60	35	140	21	14
Lucania		ĭã l	01	140	28	14
ACCOUNTED TO THE RESERVE OF THE PROPERTY OF TH						1
Malaspina	12,150	60	19	140	34	- 41
McArthur	14,400	- 60	36	140	13	
Newton	13,811	60	19	140	52	"
St. Elias	18,008	60	18	140	57	"
Steele	11/111	61	06	140	19	14
Strickland	13.818	61	14	140	45	1 44
Yr						- 66
Vancouver		60	21	139	42	
Walsh		61	00	140	00	
Wood,	15.885	61	14	l 140	31	24

This peak is on the international boundary between British Columbia and Alaska.

This peak is on the international boundary between BITISH Columbia and America.

The enumerated oeaks in Yukon are on or near the Yukon-Alaska boundary.

Note.—The highest mountain east of the Rockies, with the exception of the Torngats in Labrador, peaks of which exceed 6,000 feet, is Tabletop mountain (recently re-named Mount Jacques Cartier by the Geographic Board of Canada) in N. lat. 48° 59′, W. long. 65° 56′. Gaspé district, Quebec, the summit of which is 4,350 feet above sea-level.

Section 2.—Rivers and Lakes.

General.—The waterways of Canada constitute not only one of its most remarkable geographic features, but one of the most vital elements of its national existence. The fresh-water area of 226,979 square miles is unusually large, constituting over 6 p.c. of the total area of the country. The Great Lakes, with the St. Lawrence river, form the most important system of waterways on the continent and one of the most notable fresh-water transportation routes in the world. Their value in facilitating the cheap and speedy shipment of grain from the Prairie Provinces cannot be overestimated. These lakes never freeze over, but usually most of their harbours are closed by ice about the middle of December and remain frozen over until the end of March or the beginning of April.

Drainage Basins.—The great drainage basins of Canada are the Atlantic (524,900 square miles), the Hudson Bay (1,486,000 square miles), the Pacific (387,300 square miles), the Arctic (1,290,000 square miles) and the Gulf of Mexico (12,365 square miles). Table 3 indicates the drainage areas of the more important rivers.

3.- Drainage Basins of Canada.

Norn.—Owing to overlapping and to the fact that minor basins are omitted, the totals of each drainage basin do not represent an addition of the drainage areas as given. Tributaries and sub-tributaries are indicated by indentation of the names. The Gulf of Mexico basin is that part of the southern area of the Prairie Provinces drained by the Missouri and Mississippi rivers and their tributaries.

Drainage Basin.	Area Drained.	Drainage Basin.	Area Drained.
Atlantic Basin.	sq. miles.	Hudson Bay Basin—concluded.	sq. miles.
Miramichi		Kazan	32,700
St. John	21,500	Dubawat	58,500
St. Lawrence	309,500		
Saguenay	35,900	Total	1.486.000
St. Maurice			
French	8,000	Paciñe Basin.	
Nipigon	9,000	Yukon	145.800
Ottawa	56,700	Porcupine	24.600
du Lièvre	3,500	Stewart	21,900
Gatineau	9,100	Pelly	21,300
		Lewes	35,100
Total	524.900	White	15,000
	0,00	Alsek	11.200
Hudson Bay Basin.	1	Taku	7.600
Koksoak	62,400	Stikine	20.300
George	20,000	Nass	7.400
Big	26,300	Skeena	19.300
Eastmain	25,500	Fraser	91.700
Rupert		Thompson	21.800
Broadback	9,800	Nechako	15,700
Nottaway	29.800	Blackwater	5,700 5,600
Moose			8,000 4,500
Abitibi	11.300	Quesnel	
Missinaibi	10,600		7,500
		Columbia	39,300
Albany	59,800	Kootenay	15,500
Kenogami		Okanagan	6,000
Attawapiskat	18,700	Kettle	3,160
Winisk	24,100	Pend d'Oreille	1,190
Severu	38,600		
Hayes	28,000	Total	387,304
Nelson	370,800		
Winnipeg	44,000	Aretic Basin,	
English		Back	47,500
Red	63,400	Coppermine	29,100
Assini boine	52,600	Mackenzie	682,000
Saskatchewan	158,800	Liard	100,700
North Saskatchewan	. 54.700	Hay	25,700
South Saskatchewan	65,500	Peace	117, 100
Red Deer	18,300	Athabaska	58,909
Bow	11,100	Total	1,293,000
Belly	8,900		-,,
Churchill	115,500	Gulf of Mexico Basin	12,365

The St. Lawrence River System.—Most important of the lakes and rivers of Canada is the chain of the Great Lakes with their connecting rivers, the St. Lawrence river and its tributaries. This chain is called the St. Lawrence River system. The Great Lakes, separating the province of Ontario from the United States and connected by a series of canals with the St. Lawrence river, allow vessels to proceed from the Atlantic ocean to the interior of the Dominion as far as Fort William and Port Arthur, twin cities situated on lake Superior, practically half way across the continent. The present waterway provides a draught of 30 feet as far as Montreal, 14 feet through the remainder of the St. Lawrence river and 20 feet on the Great Lakes.

Other River Systems.—Apart from the St. Lawrence, the great waterway of the eastern half of the Dominion, other systems also merit some attention. The Saskatchewan river, for example, flowing eastward from the Rocky mountains to lake Winnipeg and thence northward by the Nelson river into Hudson bay, drains a great part of the plains of the western provinces. In the north, the Mackenzie river, with its tributaries the Slave, Liard, Athabaska and Peace rivers, follows the northerly slope of the Great Plain and empties into the Arctic ocean, its waters having traversed in all a distance of 2,514 miles. The Yukon river, after draining a

great part of the Yukon Territory, flows northward through Alaska into the Behring sea after a course of 1,765 miles. The Fraser, Columbia, Skeena and Stikine rivers flow into the Pacific ocean after draining the western slopes of the mountains of British Columbia. Table 4 gives the lengths of the principal rivers with their tributaries, classified according to the course taken by their waters.

4.-Lengths of Principal Rivers and Tributaries in Canada.

Norz.—In this table the tributaries and sub-tributaries are indicated by indentation of the names. The the Ottawa and other rivers are shown as tributary to the St. Lawrence, and the Gatineau and other rivers as tributary to the Ottawa.

River.	Miles.	River.	Miles.
Flowing into the Atlantic Ocean.		Flewing into Hudson Bay—concluded.	
Natashkwan (to Labrador boundary)	160 270	Attawapiskat Albany (to head of Cat river)	465
Romaine	210	Moose (to head of Mattagami)	610 3 40
Marguerite	130	Mattagami.	275
St. John	399	Abitibi	340
Miramichi	135	Missinaibi	265
St. Lawrence (to head of St. Louis, Minn.)	1,900	Harricanaw	250
ManikuaganOutarde	310 270	Nottaway (to head of Waswanipi)	400 190
Roreimie	240	Rupert	380
Bersimis	405	Eastmain	375
Peribonka	280	Big	520
Mistassini	185	Great Whale	365
Ashuapmuchuan	165	Leaf	295
Chaudière	120	Koksoak (to head of Kaniapiskau)	535
St. Maurice	325 100	KaniapiskauGeorge	445 365
St. Francis	165	weorge	900
Richelieu	210	Flowing into the Pacific Ocean.	
Ottawa	696	Columbia (totai),,,,,	1,150
North	70	Columbia (in Canada)	465
Rouge	115	Kootenay	400
North Nation	60 205	Fraser	695 270
Gatineau	240	North Thompson	185
Coulonge	135	South Thompson	120
Dumoine	80	Chileotin	145
South Nation	90	Blackwater Nechako	140
Mississippi	105	Nechako	255
Madawaska	130	Stuart	220
Petawawa,	95 60	Porcupine	525 335
Trent	150	Nass.	205
Grand	165	Stikine	335
Thames	163	Alsek.,,,	260
French (to head of Sturgeon)	180	Yukon (mouth to head of Nigutlin)	1,765
Sturgeon	110	Yukon (int. boundary to head of Nisutlin).	655
SpanishMississagi	153 140	Stewart	320 185
Thessalon	40	Pelly	330
Nipigon (to head of Ombabika)	130	Macmillan	200
		Lewes	338
Flowing into Hudson Bay.		TM 1 47 4 47 4 47 4 47 4 47 4 47 4 47 4 4	
Hayes	300 400	Flowing into the Arctic Ocean. Anderson	465
Nelson (to head of Bow)	1,600	Horton,	275
Red (to head of lake Traverse)	355	Mackenzie (to head of Finlay)	2,514
Red (to head of Sheyenne)	545	Peel	365
Assini boine	590	Arctic Red	230
Souris	450	Twitya	200
Qu'Appelle	270 475	Liard Fort Nelson	570 260
English	330	South Nahanni	250
Saskatchewan (to head of Bow)	1.205	Petitot	260
North Saskatchewan	760	Athabaska	765
South Saskatchewan (to head of Bow)	865	Pembina	210
Bow,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	315	Slave	258 350
Belly	180 385	Hay Peace (to head of Finlay)	1,054
Red Deer	1.000	Finlay	250
Beaver	305	Parenin	145
Kazan	455	Smoky	245
Dubawnt	580	Little Smoky	185
Severn	420	Coppermine	525 605
	295		oua

LAKES 15

The Great Lakes.—Table 5 shows the length, breadth, area, elevation above sea-level and maximum depth of each of the Great Lakes. Particularly notable are the depth of lake Superior and the shallowness of lake St. Clair and lake Erie.

· •	5.—Areas,	Elevations	anđ	Depths	of	the	Great	Lakes.	
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Lake.	Length.	Breadth.	Maximum Depth.	Атеа.	Elevation above Sea-level.
***	miles.	miles.	feet.	square miles.	feet.
Superior Michigan Hiron St. Clair Erie Ontario	383 320 247 26 241 180	160 118 101 24 57 53	1,180 870 750 23 210 738	31,810 22,400 23,010 460 9,940 7,540	602 · 39 581 · 13 581 · 13 575 · 62 572 · 52 246 · 17

Lake Superior, with its area of 31,810 square miles, is the largest body of fresh water in the world. As the International Boundary between Canada and the United States passes through the centre of lakes Superior, Huron, St. Clair, Erie and Ontario, only a part of the areas of these lakes given in the above statement is Canadian, while the whole of lake Michigan is within United States territory. The total length of the St. Lawrence waterway, from the head of the St. Louis river in Minnesota to Pointe-des-Monts at the entrance of the gulf of St. Lawrence, is 1,900 miles. The tributaries of the St. Lawrence, several of which have themselves important tributaries, include the Ottawa river, 696 miles long, the St. Maurice river, 325 miles long, and the Saguenay (to head of Peribonka), 405 miles long.

Other Inland Waters.—In addition to the Great Lakes, there are large bodies of inland water in other parts of Canada. Of these only the following principal lakes, with their respective areas, need be mentioned: in Quebec, lake Mistassini (840 square miles); in Ontario, lake Nipigon (1,590 square miles); in Manitoba, lake Winnipeg (9,398 square miles), lake Winnipegosis (2,086 square miles) and lake Manitoba (1,817 square miles); in Manitoba and Saskatchewan, Reindeer lake (1,765 square miles); in Saskatchewan and Alberta, lake Athabaska (2,762 square miles). All these are within the boundaries of the provinces as at present constituted and are exclusive of lakes situated in the Northwest Territories, the largest of which are Great Bear lake (11,660 square miles) and Great Slave lake (11,170 square miles) in the district of Mackenzie.

Table 6 gives a list of the principal lakes of Canada by provinces, with the area of each in square miles. The table corresponds with the delimitation of the provinces as altered by the Boundary Extension Acts, 1912 (2 Geo. V, cc. 32, 40 and 45).

6 .- Areas of Principal Canadian Lakes, by Provinces.

Province and Lake.	Атеа.	Province and Lake.	Area.
	square miles.		square miles.
Neva Scotla— Bras d'Or	360	Quebec—continued. Burnt	56 18
New Brunswick— Grand	65	Chibougamau Clearwater.	138 410
Quebec Abitibi (total, 330) part	55 145 392	Evans. Expanse. Gult Great Long. India House	180 59 125 110 125

6.-Areas of Principal Canadian Lakes, by Provinces-continued.

Province and Lake.	Area.	Province and Lake,	Area,
Onether conductors	square miles.	Workshop concluded	square miles.
Quebec—concluded. Kakabonga	66	Manitoba—concluded. Kiskittogisu	mues.
Kaniapiskau	375	Kiskitto	65
Kipawa	95	Kississing Manitoba	141
Lower Seel	130	Manitoba	1,817
Manikuagan	110	Molson	
Manikuagan	100	Moison. Moose. Namew (total, 81) part. North Indian. Nueltin (total, 336) part. Oxford. Pelican, west of Winnipegosis. Playgreen. Reed.	52
Mattagami.,.,,.,	88 485	Namew (total, 81) part	١١
Minto	840	Nucltin (total 338) port	150 76
Niehikus	150	Orford	158
Nichikun Olga	50	Pelican, west of Winniperosis	1 87
Pavne	300	Playgreen	80 25
Pipmakan	90	Reed	
Pletipi Quinze, Lac des. St. Francis, river St. Lawrence (total, 85)	138	Red Deer, west of lake Winnipegosis Reindeer (total, 1,765) part	80
Quinze, Lac des	- 55	Reindeer (total, 1,765) part	24
St. Francis, river St. Lawrence (total, 85)	63	St. Martin	12
part	375	Shoel (total 114) part	6.
St. JohnSt. Louis,	57	Siniwesk	20
St. Peter	130	Shoai (total, 114) part Sipiwesk Sisipuk (total, 99) part	~~**
Timiskaming (total, 110) part	55	i Southern Indian	1,200
St. Peter. Timiskaming (total, 110) part. Two Mountains. Upper Seal.	63	Stevenson	78
Upper Seal	260	Swan	100
Waswampi	75	Swan. Talbot. Todatara (total, 241) part. Walker	.79
0-4-1-		Todatara (total, 241) part	156
Ontario— Abitibi (total, 336) part	295	Waterhen	62 90
Dog	61	Wekusko	64
K'oglo	137	Winnipeg	9.398
Erie (total, 9.940) part	5.094	Winnipegosis	2,086
Huron, including Georgian Bay (total,		Woods, lake of the (total, 1,346) part	59
Erie (total, 9,940) part. Huron, including Georgian Bay (total, 23,010) part.	13,675	G. T. J. T	
Kesagami La Croix (total, 55) part.	90-	Saskatchewan—	
La Croix (total, 55) part	25	Athabasha (total 9.709) nast	111 1.700
Long. Manitou, Kenora	75 60	Amisk	72
Mille Lacs, Lac des.	102	Candle	
Minnitaki	72	Canoe Churchill Cold (total, 136) part Cree Cumberland	l 68
Nipigon	1,590	Churchill	213
Ninissing	330	Cold (total, 136) part	36
Ontario (total, 7,540) part	3,727	Cree	350
Rainy (total, 366) part	292	Doré	98 248
Red. St. Clair (total, 460) part.	69 270	fle-à-la-Crosse	187
St. Francis, river St. Lawrence (total, 85)	2.0	Inhastona	123
part	l 20-l	Johnstone Kipahigan (total, 59) part La Plonge	30
St. Joseph	187 270	La Plonge) šč
SandySeul	270		1 89
Seul.	416	List production Little Quill Loche, Lac la	70
Shoal (total, 114) part	108 280	Loche, Lac la	70 162
Stout. Berens river	250 50	Montreal Namew (total, 81) part	102
Stout, Berens river. Sturgeon, English river. Superior (total, 31,810) part.	110	Namew (total, 81) part	73 63
Superior (total, 31,810) part	11,200	Peter Pond	302
Timagami	90	Plonge, Lac la. Primrose (total, 181) part.	64
Timiskaming (total, 110) part	55	Primrose (total, 181) part	173
Trout, English river	156	Quill	236
Trout, Severn river	215 1,127	Reindeer (total, 1,765) part	1,520 450
woods, take of the (total, 1,340) part	1,121	Ronge, Lac la	26
Manitoba—		Quill Reindeer (total, 1,765) part. Ronge, Lee la Sisipuk (total, 99) part Smoothstone. Snake. Wellsete	110
Athananuskow	104	Snake	159
Atikameg	112	Wollaston	768
Atikameg Beaverhill	112 70		i
Cedar	537	Alberta—	
Cormorant. Cross (Nelson river)	134	Athabaska (total, 2,762) part	1,062
Cross (Nelson river)	274	Athabaska (total, 2,762) part	80 94
DauphinDog.	200 64		56
Etawney	546		55
Gods	319	Claire	545
Goose	53	Claire	100
	207	Leeser Slave	461
Grenville			
Goose Grenville Island Kipahigan (total, 59) part		Leser Slave	9

6.—Areas of Principal Canadian Lakes, by Provinces—concluded.

Province and Lake.	Атеа.	Province and Lake.	Атеа.
	square		aquare
Liberta—concluded.	miles.	Northwest Territories—concluded.	miles.
Primrose (total, 181) part	.8	Faber	163
Sullivan (variable)	62 85	Franklin	175
Utikuma	89	Garry Gras, Lac de	980
			345
iritish Columbia—		Great Bear	11,660
Adams	52	Great Slave	11,170
Atlin (total, 246) part	245	Hottah.	107 377
Babine	194	Kaminuriak	360
Chilko	75	Macdougal	265
Eutsuk	153	Maguse	540
François	91	Martre, Lac la	1.335
Harrison,	94	Mackay	250
Kootenay	168	Marian	90
Kotcho, (unsurveyed and estimated)	90	Nueltin (total, 336) part	260
Lower Arrow	59	Nutarawit	350
Okanagan	136	Pelly	331
Quesnel	104	Point	295
Shuswap	120	Rae	74
Stuart	136	Schultz	110
Tagish (total, 114) part	69	Thoalintoa	160
Takla	96 62	Todatara (total, 241) part	85
Teslin (total, 158) part	89	Yathkyed	860
Opper Arrow	99		
	l	Yukon	
forthwest Territories—	l	Aishibik	107
Aberdeen	475	Atlin (total, 246) part	1
Artillery	207	Kluane	184
Aylmer,	340	Kusawa	56
Baker	975	Laberge	87
Clinton-Colden	253	Tagish (total, 114) part	45
Dubawot,	1,600	Teslin (total, 246) part	123

Section 3.—Islands.

The islands of Canada are among its most remarkable geographic features. They include the numerous unsurveyed and little known areas of the Arctic regions, the fringe of both large and small islands off the Pacific coast, those of the Maritime Provinces and Quebec in the Atlantic ocean and the gulf of St. Lawrence, together with the islands of the Great Lakes and other inland waters. Of the Arctic islands, but little need be said. They are known to be of vast extent, Baffin, Victoria and Ellesmere, the three largest, being approximately 199,610, 80,450 and 78,400 square miles in area respectively, but Banks, Devon, Southampton, Somerset, Prince of Wales, Melville and Axel Heiberg are also of considerable size. Their economic possibilities, beyond scattered deposits of coal and other minerals, have not been established. The Pacific Coast islands, with the exception of Vancouver island and the Queen Charlotte group, are small and dot the western coast of British Columbia from Dixon entrance to the southern boundary of the province. Vancouver island is 285 miles long and from 40 to 80 miles broad, covering an area of about 13,500 square miles; the mountain range which forms its backbone rises again to form the Queen Charlotte islands farther north. These islands figure largely in the mining, lumbering and fishing industries of the West.

On the eastern coast of the Dominion are the island province of Prince Edward Island, the island of Cape Breton (an integral part of Nova Scotia), Anticosti and the Magdalen group (included in the province of Quebec) and the islands of Grand

Manan and Campobello (part of the province of New Brunswick) in the bay of Fundy. Prince Edward island is 2,184 square miles in area, Cape Breton 3,120 and Anticosti of about the same extent. Fishing activities in these eastern islands are important, while agriculture on Prince Edward island and mining on Cape Breton are among the chief occupations of the inhabitants.

Manitoulin island in lake Huron and the Thousand Islands group in the St. Lawrence river, at its outlet from lake Ontario, are the more important islands of the inland waters.

PART II.—GEOLOGY.

Section 1.—Geology of Canada.1

The outstanding feature of Canadian geology is the vast area underlain by formations of Precambrian age. These occupy nearly the whole of Canada east of a line joining lake Winnipeg and Great Bear lake with the exception of the Maritime Provinces, the extreme southern parts of Ontario and Quebec, and a part of Ontario adjacent to the southern coast of Hudson bay. The Precambrian rocks are the oldest rocks exposed on the earth's surface, and the vast area which they underlie is one that has probably existed as a land mass throughout longer periods than any other part of Canada.

These ancient formations extend, with gentle sloping surface, in almost all directions beneath a mantling series of nearly flat-lying sedimentary rocks of Palxozoic, Mesozoic and Cenozoic age. These little disturbed sediments occupy southern Quebec, southern Ontario, the Prairie Provinces and the Northwest Territories. Some of them were at one time of much wider extent and covered part or all of the Precambrian area.

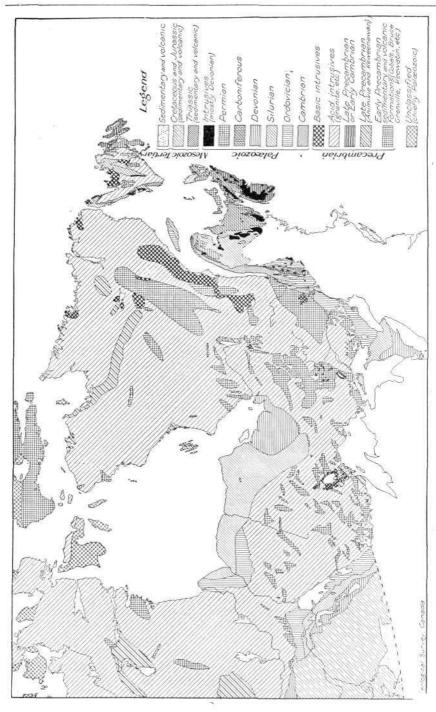
Towards the Atlantic and Pacific coasts the Palæozoic and later sediments, together with the older rocks on which they rest and assemblages of volcanic rock, are intensely folded and faulted, forming the Appalachian system of mountains on the east and the great Cordillera, comprising nearly all of British Columbia and Yukon, on the west.

Subsection 1.—Topography.

The present topography of Canada is the temporary outward expression of a half continent which is subject to unceasing change. It is the result of the operation of geological processes at the surface of the earth or at depth throughout hundreds of millions of years. It derives from the injection of igneous rock masses in liquid form beneath the surface, the ejection of lavas and volcanic fragmental material, the deposition of sediments, the folding and faulting of rock formations, and the disintegration of solid rocks and transportation of the products of disintegration by surface agencies. The slow rising and sinking of broad continental land masses and the upheaval and subsequent gradual levelling of mountain ranges are involved.

The great area in Eastern Carada underlain by rocks of Precambrian age is known as the Canadian (or Precambrian) Shield or the Laurentian Plateau. It may be regarded as a subdued plateau or perhaps, more strictly speaking, a peneplanated surface that has been rejuvenated by Pleistocene glaciation and uplift.

¹ By Wyatt Malcolm, M.A., Geological Survey, Ottawa.

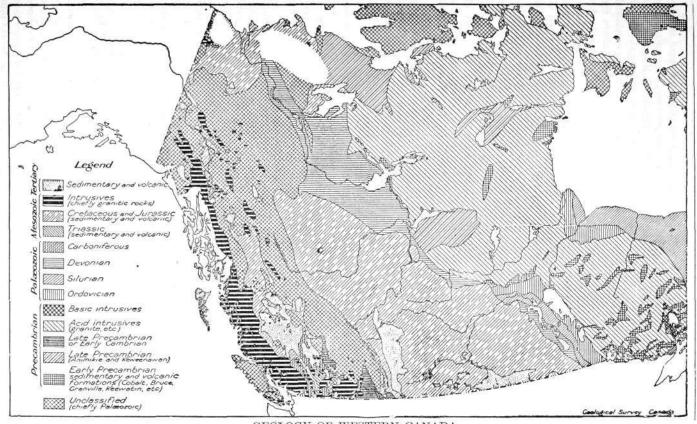


Its average elevation probably does not exceed 1,500 feet, and, except in the northeast, there are few areas that exceed 2,000 feet. In general, the surface slopes gently to the surrounding plain and there are long stretches of the boundary in which there is no marked difference of elevation between the Precambrian Shield and the adjacent Palæozoic plain; there are other long stretches in which there is an abrupt rise of several hundred feet above the plain or the sea. The greatest known elevations are in the eastern part of Baffin island and along the coast of northern Labrador. A peak of the Torngat mountains of Labrador is estimated to have an elevation of 7,000 feet. The coast is one of the boldest and most rugged of the world, with nearly vertical cliffs rising 1,000 to 2,000 feet in height. Though the Canadian Shield is an area of low relief and has a remarkably even sky line. the surface is generally rugged with successions of rocky hills 100 to 200 feet high. Occasional exceptions occur in which there is a relief of several hundred feet, as in the hills on the north shores of lake Huron and lake Superior. The area is dotted with lakes, large and small, of irregular outline and with numerous islands. They are rock basins that spill their waters from one to another by streams with rapids and falls. In an area of 250 square miles in western Ontario that cannot be considered exceptional, aerial surveys have shown that there are 700 lakes. There are well-defined deep trenches like that occupied by lake Timiskaming, related to faulting or other structural features. The Saguenay river flows in a trench that descends to more than 800 feet below sea-level, and lake Superior, the largest body of fresh water on the face of the earth, fills a basin in the Canadian Shield that reaches about 400 feet below sca-level.

Extending south and west from the Canadian Shield and limited on the east by the Appalachian Mountain system and on the west by the western Cordillera of America, is the great North American plain. The northeastern part of this plain occupies southern Ontario south of a line extending from Georgian bay to the east end of lake Ontario, that part of eastern Ontario lying between the Ottawa and St. Lawrence rivers, and the part of Quebee lying adjacent to the St. Lawrence between Montreal and Quebec. The part of the plain west of the Canadian Shield is of wide extent, and stretches northward to the Arctic ocean between a line approximately joining lake Winnipeg, lake Athabaska, Great Slave lake and Great Bear lake on the east, and the foothills of the Rocky mountains on the west.

Although these areas are but parts of one great plain and are disconnected in Canada only because the Canadian Shield happens to project across the International Boundary in a narrow belt east of lake Ontario and in a wide zone between lake Huron and the lake of the Woods, they will, for convenience of treatment, be considered separately. Those parts lying in the basin of the St. Lawrence and the Great Lakes have been designated the St. Lawrence Lowlands, while the western area has been named the Interior Plains.

The part of the St. Lawrence Lowlands lying in the eastern angle of Ontario and in Quebec south of Montreal, and extending down the St. Lawrence, is comparatively flat and lies less than 500 feet above sea-level. On the lower St. Lawrence it is greatly narrowed by the near approach of the Appalachian system to the Canadian Shield. The part lying adjacent to lakes Ontario, Erie and Huron is of less even surface, has its greatest elevation of over 1,700 feet south of Georgian bay, and slopes rather gently to the Great Lakes. A striking topographical feature is the Niagara escarpment. This is an eastward-facing escarpment having a height of 250 to 300 feet and extending from the Niagara peninsula northwest to Bruce peninsula.



GEOLOGY OF WESTERN CANADA

The Interior Plains region is in general a rolling country with broad undulations and a slope eastward and northward of a few feet per mile, descending from an elevation of 3,000 to 5,000 feet near the mountains on the west to less than 1,000 feet at its eastern border. The elevation of the Canadian Pacific Railway at Calgary is 3,439 feet and at Winnipeg 772 feet. The rolling character of the area is relieved by several flat-topped hills—erosion remnants rising hundreds of feet above the surrounding country—by flat areas that formed the beds of lakes of considerable extent, and by deeply incised river valleys. A striking feature is the broken escarpment of western Manitoba and eastern Saskatchewan, marking the rise of 400 to 1,000 feet from the Manitoba lowland to the upland of the west. A lowland of considerable extent stretches for some distance into Ontario and Manitoba from the south shore of Hudson bay.

The Arctic archipelago consists of large islands, many of which rise prominently from the sea as sloping table lands while others are comparatively low.

The Appalachian and Acadian regions occupy practically all that part of Canada lying east of the St. Lawrence, with the exception of the lowland west of a line joining Quebec city and lake Champlain. The Appalachian region is a continuation northward into the province of Quebec of three chains of the Appalachian system of mountains. The most westerly of these ranges stretches northeast into Gaspé peninsula, where it forms flat-topped hills over 3,000 feet high. Jacques Cartier on Tabletop mountain has an elevation of 4,350 feet. The Acadian region, which includes New Brunswick, Nova Scotia, and Prince Edward Island, is an alternation of uplands and lowlands. The northwest part of New Brunswick is an upland with hills and ridges rising to 2,500 feet or higher. Adjacent to the bay of Fundy is a series of ridges rising in places to an elevation of 1,200 feet or more. Between these two New Brunswick uplands is a lowland forming the whole eastern part of the province and converging towards the southwest. This lowland extends east so as to include Prince Edward island, the western fringe of Cape Breton island and the mainland of Nova Scotia north of the Cobequid mountains, which have an elevation of 800 to 1,000 feet. South of them lies a long narrow lowland stretching from Chedabucto bay to Minas basin and along the Cornwallis-Annapolis valley between North and South mountains. South of this is a highland sloping to the Atlantic coast and having an elevation at its highest part of about 700 feet. The northern part of Cape Breton island is a tableland 1,200 feet high, with its central part rising to an elevation considerably in excess of this, one point at the headwaters of Clyburn and Cheticamp rivers being 1,747 feet above sea-level.

The Cordilleran region, the mountainous area bordering the Pacific, extends northward from the United States through Canada into Alaska, and embraces nearly all of British Columbia and the Yukob, and the western edge of Alberta and the Northwest Territories. The eastern part of the Cordillera is occupied by the Rocky mountains. They consist of overlapping chains with peaks rising to heights of 10,000 to 12,000 feet. They extend northwest and fall away towards the Liard river. North of this river the mountains with a similar trend lie 100 miles farther east and are known as the Mackenzie mountains. The western part of the Cordillera is occupied by the Coast range and the mountains of Vancouver and Queen Charlotte islands. The Coast range rises to heights of 7,000 to 9,000 feet. Between the Rocky mountains and the Coast range lies a vast plateau system having elevations of 3,000 to 4,000 feet, and cut by deep river valleys. The plateau region merges into rugged mountain ranges as it approaches the Rocky mountains; it also breaks into

mountains in northern British Columbia, but becomes subdued to a plateau again in the Yukon. A striking feature of the Cordillera is the deep trench that lies immediately to the west of the Rocky mountains, extends northwesterly from the International Boundary into Yukon and is occupied by the head waters of the Kootenay, Columbia and Fraser rivers, and tributaries of the Peace and Liard rivers.

Subsection 2.—Geology.

Canadian Shield.—The Canadian Shield is underlain by rocks of Precambrian age. These consist of series of sedimentary and volcanic formations and igneous intrusives of great variety. They were subjected to mountain-building processes, folded, crushed and metamorphosed, and the mountains were reduced nearly to their present level before the earliest Palæozoic sediments were deposited. The Precambrian period was probably of greater duration than all the subsequent geological periods taken together.

Geologists do not agree on the main subdivisions of the Precambrian formations. There is one great unconformity, which represents a long period of erosion, and which divides the stratified rocks into two groups, the earlier group consisting of a great mass of volcanics with associated sedimentary rocks and the later group consisting more fully of sediments. The earlier group is greatly folded and altered; the later group has in general been less disturbed and altered.

In the earlier group the most important series is the Keewatin. The Keewatin consists essentially of lava flows accompanied in many places by tuffs and basic intrusives, and includes iron formation, which frequently is made up of thin layers of chert-like quartz, alternating with quartzose layers holding magnetite or hæmatite or both. Sedimentary rocks consisting of conglomeratic, sandy and slaty strata are frequently associated with the volcanics and are, in places, of considerable thickness and extent. They may underlie the volcanics, like the Couchiching of the Rainy Lake area; they may be interbedded with the volcanics, like the Doré formation of Michipicoten; or they may overlie the volcanics, like the Timiskaming formation of northeastern Ontario and western Quebec. Between the volcanics and overlying sediments of northeastern Ontario and western Quebec there is an unconformity that is regarded by some geologists as of major importance. The early Precambrian formations occupy numerous areas of various sizes up to several hundred square miles in western Quebec, northern Ontario, eastern and central Manitoba, and to a less degree in Saskatchewan and the Northwest Territories.

The later Precambrian formations consist in a large measure of sedimentary rocks—conglomerates, quartzites and slates. In an area lying immediately north of lake Huron and stretching northeast to beyond lake Timiskaming lies a succession of sediments known as the Huronian. These consist of: (a) the Bruce series, made up of conglomerates, quartzites and impure dolomitic limestone with an aggregate thickness of 2,700 to 12,000 feet; and (b) the Cobalt series, made up of boulder conglomerate and other materials probably of glacial origin, overlain by quartzite and calcareous quartzite, with an aggregate thickness of 12,000 feet. An erosion interval of considerable time intervened between these two series. These strata are undulating with gentle dips except on the north shore of lake Huron and eastward, where they stand at high angles and represent the core of an ancient mountain range that probably flanked the southern edge of the continent.

North of lake Superior the later Precambrian rocks are represented by a group of nearly flat-lying sediments known as the Kaministikwan group. This group embraces the Animikie series of conglomerate, iron formation, and shale; the Sibley series of conglomerate, sandstone, limestone, and tuff; and the Osler series of lavas, conglomerate, sandstone and tuff.

In northwestern Manitoba the Precambrian formations are separated by an unconformity into an earlier Wekuskoan group of lavas and sediments and a later group of Missian sediments.

Strata, presumably of late Precambrian age, are known to occur on lake Athabaska, Great Slave lake, east of Great Bear lake, on Belcher islands, on the east of Hudson bay and at other points in the Ungava peninsula. In the southern part of Ungava peninsula sediments are found that bear a resemblance to the Grenville-Hastings group of southern Quebec and southeastern Ontario.

The Grenville-Hastings group consists of closely folded, highly altered sediments intruded by, and in places interleaved with, granite. They are in general rusty-weathering banded gneisses, quartzose gneisses grading into quartzites, crystalline limestones, amphibolites, pyroxene-rich rocks and volcanic schists. Pegmatite dykes are common and anorthosite occupies large areas. The Grenville-Hastings group forms a belt in the southern part of the Canadian Shield, extending east from Georgian bay. The formations have not as yet been indubitably correlated with the Keewatin and Huronian rocks to the north.

The Precambrian sediments have suffered intrusion at various times by granites. These have been unroofed at different stages in the history of the Precambrian, and pebbles of granite are found in the conglomerates as early as those of Keewatin age. So complete has been the unroofing of the granites that they are exposed over the greater portion of the Canadian Shield. Basic intrusives were common in later Precambrian times. Sills and dykes of diabase cut the late Precambrian sediments around lake Nipigon, to the west of lake Timiskaming and at many other points. A thick laccolith of notite and micropegmatite is found in the Sudbury district.

The Canadian Shield was intensely glaciated during Pleistocene times, with the exception of the more elevated parts of the northern Labrador coast, and in general only a scant amount of soil was left, sufficient partially to conceal the rocks and maintain a forest growth. In some areas, as in part of northern Ontario and Quebec, adjacent to the Canadian National Railway, stratified fine sediments were deposited in lakes formed in front of the retreating glacier.

The Precambrian formations are prolific of mineral deposits of great number, variety and extent. These latter occur generally at or near the contact of the intrusives and the intruded rocks. Among them are the gold deposits of Porcupine and Kirkland Lake, associated with intrusions of porphyry, the silver deposits of Cobalt, South Lorrain and Gowganda, associated with diabase sills, the enormous nickel-copper deposits of Sudbury, associated with norite of a thick laccolithic intrusion, the auriferous copper sulphides of western Quebec, the copper-zinc sulphides of Manitoba, and the iron ores and iron pyrites of many localities of Ontario; in the Grenville-Hastings area are found deposits of galena, mica, graphite, feldspar, magnesite, fluorite, kaolin, molybdenite, tale and apatite.

St. Lawrence Lowlands.—The St. Lawrence Lowlands are divided into two parts by an arm of the Laurentian Plateau that extends southward into New York State, crossing the St. Lawrence between Kingston and Brockville. They are

underlain by nearly horizontal Palæozoic sediments dipping gently away from the Canadian Shield and resting on the sloping surface of Precambrian rocks which, prior to the deposition of the Palæozoic strata, had been reduced to a physiographic condition similar to that existing on the Canadian Shield to-day.

The sediments are almost wholly of marine origin, consist mainly of limestone, magnesian limestone and shale, and range in age from late Cambrian to late Devonian.

In the Ottawa-Montreal division the latest strata are Ordovician; these, together with the Potsdam sandstone (Cambrian), have a thickness of about 6,000 feet. In the Great Lakes region of southern Ontario the Ordovician formations are succeeded upward by those of Silurian age and these in turn by strata of Devonian age. The Ordovician formations form a zone extending from Kingston to the Niagara escarpment and stretching northwest to Georgian bay and into Manitoulin island. The Silurian formations are exposed in the Niagara escarpment and westward in a belt 25 to 50 miles wide stretching northwest from Niagara peninsula into Manitoulin island. West of this nearly the whole of the area between lake Erie and lake Huron is underlain by Devonian limestones and shales. Each in turn is exposed over an area farther to the southwest than the older and underlying formation, so that in travelling westward from Kingston to Sarnia one passes over the bevelled edges of successively younger strata. Borings made at Courtright, in the township of Moore, show a thickness of nearly 4,260 feet of sedimentary rocks.

It is probable that the seas in which some of these sedimentary rocks were formed extended northward over the Precambrian rocks through Hudson bay into the Arctic ocean. The presence of outliers on lake St. John, lake Nipissing, and lake Timiskaming in the south, and on lake Nicholson west of Hudson bay, of broad areas of Ordovician, Silurian and Devonian formations south of Hudson bay, and of Cambrian, Ordovician, Silurian and Devonian formations on the islands of the northern part of Hudson bay and of the Arctic seas, is clearly indicative of wide submergence. On the Arctic islands formations of Carboniferous (with coal seams) and Triassic ages are widespread, and there are patches of Tertiary sediments (with lignite). There is also evidence of the occurrence of rocks of Mesozoic age in Moose River basin.

The St. Lawrence Lowlands were covered by the glaciers of Pleistocene time, and the bedrock is to a great extent concealed by thick deposits of glacial till. In places are found stratified deposits that formed in lakes at the edge of the retreating ice sheet. Marine deposits were laid down in an arm of the sea that extended up the St. Lawrence and Ottawa valleys to a point above Ottawa.

The only intrusives worthy of mention are the igneous rocks of alkali types that form the Monteregian hills in southern Quebec, Mount Royal and seven others to the east. They are circular or oval hills that rise 600 to 1,200 feet above the plain and appear to be stock-like bodies or conduits that may have led to volcanic vents or larger masses of intrusives.

The mineral deposits are such as are usually found in the less altered sedimentary rocks. Petroleum has been produced in southern Ontario for 70 years; natural gas has been produced for 40 years in the counties bordering on lake Erie; salt has been obtained for a great many years from thick beds lying at a depth of about 1,000 feet in the counties bordering on lake Huron and lake St. Clair; gypsum

is produced in the Grand River valley; limestone and dolomite, utilized in chemical and metallurgical industries, are widespread; materials for construction, for brick, tile and cement manufacture are abundant.

Appalachian and Acadian Regions.—The Appalachian and Acadian regions are composed of geological formations ranging from Precambrian through Palæozoic to Mesozoic. The Palæozoic sediments pass upward from dominantly marine formations into dominantly continental formations. A complete succession is not found and there are several breaks in sedimentation.

Sediments, probably of Precambrian age, occur in southeastern Quebec, southern New Brunswick, northern Cape Breton island and on the Atlantic coast of the mainland of Nova Scotia. The thick series of slates and quartzites, known as the Goldbearing series, forms a belt occupying a very considerable part of the mainland of Nova Scotia, faces the Atlantic coast and is probably of late Precambrian age.

During the Palæozoic period numerous disturbances took place in sedimentation; there were periods of uplift, of folding, and of erosion. Cambrian formations are found in southeastern Quebec, Ordovician formations are of extensive development in the Appalachian region from Vermont to Gaspé, Silurian and Devonian are well developed in Gaspé and the northwestern part of New Brunswick. Patches of Cambrian, Ordovician, Silurian and Devonian rocks are found in other parts of the Appalachian and Acadian regions.

The system of sediments most widely distributed in the Maritime Provinces is the Carboniferous. The formations are mainly of continental deposition although during Mississippian time a part of the area was submerged and received marine sediments. Towards the close of Devonian time there was a period of intense mountain building and igneous activity. Granite masses of large size were intruded in Nova Scotia and New Brunswick and of smaller size in Gaspé and southeastern Quebec. The upheaval was succeeded by intense erosion, and in early Carboniferous time granite masses were exposed by the removal of the overlying rocks.

The Carboniferous system occupies the triangular lowland forming much of the southeastern half of New Brunswick, the part of Nova Scotia north of Cobequid mountains, part of the lowland to the south of these mountains, southwestern and northeastern Cape Breton island and Prince Edward island. On Prince Edward island the Carboniferous may pass upward into the Permian. In the Carboniferous system are found the coal measures of Sydney and Glace bay, of Inverness, Pictou and Cumberland counties, Nova Scotia; and of the Minto coal field, New Brunswick. The extensive gypsum deposits and the salt beds of Nova Scotia and New Brunswick are found in a formation of Mississippian age, and the bituminous shales of New Brunswick and Nova Scotia are also of early Carboniferous age. The Carboniferous system has in places been subjected to folding and faulting, but considerable areas have suffered little disturbance since these sediments were laid down.

Sandstone and lava flows of Triassic age are exposed on the bay of Fundy, particulary on the south coast. North Mountain is composed of basic lava flows capping Triassic sandstone. During the Pleistocene period the whole of the Appalachian and Acadian regions, with the exception of the higher parts of Gaspé, was subjected to glaciation.

The most important economic minerals of the Appalachian and Acadian regions are coal, asbestos, and gypsum. Reference has already been made to the occurrence of coal and gypsum. Asbestos occurs in altered peridotite in southeastern Quebec. These are the most productive deposits of the world. Chromite also occurs in the

peridotite. Auriferous quartz veins, mainly of the interbedded type, are found on domes and pitching anticlines of the gold-bearing series of Nova Scotia. Zinc-lead deposits occur in the Devonian shales and limestones of Gaspé peninsula, zinc-lead copper sulphides in the southern part of Cape Breton island in a series of lava flows, and copper deposits in southern Quebec.

Interior Plains.—The Interior Plains are underlain by a series of nearly horizontal sedimentary rocks of Palæozoic, Mesozoic and Tertiary ages. Palæozoic rocks, consisting mainly of limestone, dolomite and shale of Ordovician, Silurian and Devonian ages, form a belt extending north through Manitoba and northwest through Saskatchewan and northeastern Alberta down the basin of the Mackenzie river. East of the Mackenzie, rocks of Cambrian age are exposed in an area of limited extent. The Palæozoic formations rest upon the gently-sloping shelf of the Canadian Shield and pass westward with a dip of a few feet a mile beneath the shales and sandstones of Cretaceous age. The formations occupy nearly the whole of the plain from western Manitoba to the Rocky mountains and extend northward nearly to the Mackenzie river. There are also large parts of the Mackenzie basin, particularly of the lower half, in which the Devonian limestones are overlain by Cretaceous sediments. The Cretaceous sediments vary from shales predominantly of marine origin in the east to sandstones predominantly of continental origin in the west. Between the two are alternations of shales of marine origin with sandstones of brackish-water or fresh-water origin.

The Cretaceous beds are overlain in places by sediments of Tertiary age. The most extensive Tertiary formations are found in the hills of southern Saskatchewan and in a belt running north through central Alberta, where they lie in a broad syncline. Glacial till is widespread and clays were deposited in large lakes formed on the retreat of the ice-sheet. A large part of southern Manitoba formed the bed of glacial lake Agassiz.

The Interior Plains region is the great wheat-producing area of Canada. The mining of coal is one of the important industries; bituminous coal and lignite are produced in large quantities in Alberta and lignite in smaller quantities in Saskatchewan. The Cretaceous sediments are the reservoirs of great quantities of natural gas, and these and underlying formations are the source of the oil of the Turner Valley and other oil fields of Alberta. Oil has also been struck in the Devonian rocks north of Norman on the Mackenzie river. Gypsum is obtained from the Palæozoic rocks of Manitoba and also occurs in northern Alberta.

Western Cordillera.—In the western Cordillera is a very thick complete succession of sediments of Precambian, Palæozoic, Mesozoic and Tertiary ages.

The Rocky mountains consist of a series of great fault blocks in which an enormous thickness of Palæozoic and Mesozoic sediments is exposed. Many thrusts of great extent have resulted in an over-riding of the Mesozoic sediments by the Palæozoic, and the erosion of the softer strata of the former has produced longitudinal valleys between the harder Palæozoic blocks. The Palæozoic formations consist mainly of limestones with less amounts of sandstone and shale. A succession with few breaks from the Cambrian through the Ordovician, Silurian, Devonian and Carboniferous is found, and probably extends with certain deviations throughout the length of the Rocky mountains and Mackenzie mountains. Between the Cambrian and Precambrian beds there is apparently little angular unconformity, but the variation horizontally in the Precambrian strata, on which the Cambrian formations rest, and a similar variation in the ages of the over-lying Cambrian strata

furnish evidence of a long period of erosion. The Mesozoic strata consist of soft shales and sandstones some of which are coal-bearing. Strata of Triassic, Jurassic, and Cretaceous ages are represented.

The mountains to the west of the Rocky Mountain trench in southern British Columbia are composed of a series of late Precambrian quartzites, slates and magnesian limestones of great thickness. There are wide areas in the vicinity of granitic intrusives in which intensive alteration of these sediments has taken place. The Precambrian rocks extend west as far as Upper Arrow and Shuswap lakes and north from the International Boundary probably half the length of the province. Quartzites, mica schists and crystalline limestones with interbands and broad areas of schists of various kinds, and intrusive granite gneiss are found over a wide stretch of the Yukon plateau and are probably of Precambrian age. Slates, quartzites and conglomerates, also probably of the same age, occur along the northern part of the Alaska-Yukon boundary, in the Ogilvie range and in the Kluane district.

On the interior plateau of British Columbia, limestones, quartzites and argillites of Carboniferous age and known as the Cache Creek group are of wide distribution. These are succeeded upward by argillites and limestones and a great mass of volcanic intrusives and effusives of Triassic age, and these are succeeded by sediments and volcanics of Jurassic age. The Triassic and Jurassic formations are widely distributed, are found on the islands to the west, and some at least extend into the Yukon.

Formations of Cretaceous age are found on Vancouver and Queen Charlotte islands and in a belt extending up the Fraser and along the eastern edge of the Coast range into the Skeena valley. They are mainly formations of continental origin and carry coal seams, but also include sediments of marine origin and volcanics.

Very early Tertiary times were characterized by widespread orogenic disturbances in the Cordillera. The Rocky mountains were formed and there was much folding and faulting in places in the interior, followed by intense erosion. Tertiary sediments, partly of continental deposition with seams of lignite and partly of marine deposition, occur at many points throughout the interior of the Cordillera and on Vancouver island. Lava flows capping some of these sediments cover broad stretches of the interior plateau.

In Pleistocene time, nearly the whole of the Cordillera with the exception of a large area in the Yukon was subjected to glaciation, and glaciation still persists in the mountainous regions. Volcanics of recent age are found in areas of limited extent.

An episode of great economic importance in the geological history of the West was the intrusion of the granitic rocks of the Coast Range batholith and of acid rocks at different points in the interior, particularly in the southern part of British Columbia in Mesozoic times. Many of the more important mineral deposits of British Columbia, such as the copper deposits of Hidden Creek, Britannia and Allenby mountain, the gold-silver deposits of Salmon River district and the silver-lead deposits of the Slocan, had their origin in solutions given off by the magmas of these acid intrusives.

The lead-zinc deposit of the Sullivan mine lies in sedimentary rocks of Precambrian age. The Cretaceous and Tertiary formations carry seams of coal and lignite of great importance. There are economic deposits of other minerals in great variety throughout the Cordillera, and British Columbia is one of the leading mineral-producing provinces of Canada. The gold of the once famous Klondike region was found in placers of an unglaciated area and the gold of the Cariboo district occurs mainly in Tertiary placers that were unaffected or little affected by glaciation.

Section 2.—Economic Geology of Canada, 1931.*

The purpose of this paper is to call attention to the most important reports and articles treating of the economic geology of Canada and published during 1931. The particular articles referred to, although recently published, do not necessarily contain the best and most complete information on the subjects treated. For further information it is advisable to consult the Dominion and Provincial Departments of Mines. The reference numbers appearing through the text indicate the publishers as listed at the end of this paper.

Antimony.—A description is given by W. J. Wright of the Lake George antimony deposits of York county, New Brunswick.⁵ Palæozoic interbedded shales and quartzites are intruded by granite and basic dykes. Quartz veins, carrying stibnite and minor amounts of pyrite, arsenopyrite, and dolomite, cut both the sediments and dykes.

Chromite.—A report is made by A. R. Graham upon the Obonga Lake chromite area, Thunder Bay district, Ontario. Precambrian volcanic and sedimentary schists, serpentine, talc-carbonate schist, granite and associated rocks, and diabase sills and dykes occupy the area. The chromite occurs in the serpentine as disseminated grains and as segregated deposits in form of irregular and vein-like bodies. All chromite observed is below commercial grade at the present time.

Clay.—Howells Frechette and J. F. MacMahon describe the clay and shale deposits of Prince Edward Island.² The prevailing rocks of the province are soft red sandstones and arenaceous shale probably of Permian or upper Carboniferous age. The sandstones generally contain a considerable percentage of clay matter and in some horizons may be regarded as sandy shales which are gritty. All shales, even those containing sandy matter, develop good plasticity. Marine clay, boulder clay, and clay resulting from the weathering of shales do not offer such good promise as do some of the shales.

Coal.—The stratigraphy and structure of the Corbin coal field, British Columbia,⁵ is described by B. R. MacKay. This field, of Cretaceous age, is one of the smallest and at the same time one of the principal producing bituminous coal areas in southeastern British Columbia. It is unique on account of the great thickness of one of its coal seams and the remarkable concentration of coal in a small area that has occurred through intense folding and faulting of the measures. The coal is of bituminous rank and with a low sulphur content.

The results of further investigations of the Onakawana lignite deposit, Moose River basin, Ontario,³ is published by W. S. Dyer. Numerous drill holes indicate a series of nearly flat-lying seams with a total thickness varying from 10 to 64 feet. Analysis of the lignite together with logs of bore holes are incorporated.

Copper.—Forrest A. Kerr presents a paper outlining the mineralization of northern British Columbia.⁵ Highly altered Palæozoic sediments capped by a thick series of Permo-Carboniferous limestone and Mesozoic volcanics are intruded by the coast range multiple batholith. Upper Cretaceous sediments in considerable thickness, and masses of Tertiary and recent lava flows, occur locally. The

^{*}Contributed by P. J. Moran, B. Sc., Geological Survey, Ottaws.

earlier "grey granite" is known to have extensive associated mineralization and the "brown granite" is believed to have little. Mineralization is found in the granite, in "roof pendants" in the granite, and in the sediments and volcanics adjacent to the contact.

Prospecting attention is lately focused upon the Great Bear Lake and Coppermine River areas, Northwest Territories, where interesting finds of silver, pitch-blende and copper have been made. J. P. Norrie, Gordon G. Duncan 54 and G. Gilbert, submit reports upon these areas. Granite, sandstone containing thin layers of carbonaceous shale, dolomitic limestone, basalt interbedded with sandstone shale, and limestone exist in the Coppermine River area. Disseminated native copper is found in the basalt, amydaloidal copper occurs in the tops of some of the flows along joint cracks and slips, sheets of native copper are common, high grade chalcocite and bornite occur in fissure veins and replacement deposits and chalcopyrite is found in cracks and disseminations in minor amounts. (See radium).

John Drybrough describes a nickel-copper deposit on the north shore of Rankin inlet, Hudson bay. ^{5 6} Precambrian volcanics, sediments, and intrusive granite and associated rocks occupy the area. The deposit is associated with a sill of pyroxenite, intrusive between the sediments and upper volcanics, which can be traced for three quarters of a mile. Mineralization consists of pyrrhotite and traces of pyrite. The nickel probably exists as pentlandite finely divided in the pyrrhotite.

An article upon prospecting in northwestern Manitoba⁵ is written by J. F. Wright. The bed rocks of the area consist of Precambrian volcanics, sediments, sedimentary gneisses, granite gneiss, and intrusive granite and allied rocks. The known mineral deposits of importance are in the lavas, sedimentary gneisses, bodies of quartz gabbro, and granodiorite phases of the granite intrusives. The main type of deposits is sulphide replacement bodies containing copper and zinc. Goldbearing quartz veins are also found. No reason is known why the mineralization at some localities will not continue in depth below the levels explored at present.

Robert S. Moehlman presents a paper upon the geology of the Opemiska district, Quebec, in the *Pan American Geologist*. The rocks of the region are Precambrian. Between two large masses of granite on the north and south, lies a thick body of volcanic flows with some interbedded sediments extending east and west. These flows and sediments are intruded by numerous basic dykes, sills, and stocks, and by a few acid dykes. Mineralization consists of chalcopyrite, magnetite, pyrite, pyrrhotite, and in places quartz.

Rodgers Peale describes the geology of the Waite-Ackerman-Montgomery ore deposit, in the townships of Duprat and Dufresnoy, Quebec.⁵ Precambrian volcanics are intruded by Keeweenawan diabases and quartz porphyry. Mineralization consisting of pyrite, pyrrhotite, sphalerite, and chalcopyrite occurs as replacement deposits in crushed zones in andesite.

During the past nine years, various members of the Geological Survey of Canada have made geological studies of portions of that area in Quebec extending from the Ontario-Quebec provincial boundary line east to Bell river and south of the National Transcontinental railway to latitude 48 degrees. The results of these investigations are incorporated in a report entitled "Geology and ore deposits of Rouyn-Harricanaw region, Quebec", by H. C. Cooke, W. F. James and J. B. Mawdsley. Keewatin volcanics, pre-Huronian sediments and intrusives, Huronian sediments and later diabase dykes form the bed rocks of the area. Copper-zinc deposits are found in rocks of the Keewatin series; considerable quantities of silver

and gold are found in some of the copper-zinc deposits, as well as in vein deposits of the ordinary type; gold deposits are known both in the Keewatin and Timiskaming formations. Both gold and copper-zinc deposits appear to have been localized by structural factors. Molybdenite deposits are found only in two small areas in the eastern part of the region. They are formed apparently with the silicious end-product of the differentiation of biotite granite.

The sedimentary deposits of New Brunswick and Nova Scotia are described by W. J. Wright⁵ and E. B. Papenfus.⁷ Pyrite and chalcocite and their oxidation products occur as nodules and concretions or replacements of the cementing material of sandstone and conglomerates of Carboniferous age. The minerals are also found associated with and sometimes replacing plant remains that have turned to coal.

Gold.—Ira B. Joralemon, in the Engineering and Mining World, described the geology and recent developments at the Pioneer mine, Bridge River district, British Columbia. Augite diorite is intrusive at the contact of the Pennsylvania Bridge River series and upper Triassic Cadwallader series. Narrow but persistent gold quartz veins are found in the diorite and albitite. The development of the mine during the past few years has been very encouraging.

The gold, copper-nickel, and tin deposits of southeast Manitoba¹ are reported upon by J. F. Wright. In the Beresford-Rice Lake area, Frecambrian sediments, volcanics, gabbro, diorite, granodiorite, granite, granite gneiss, pegmatite and diabase are found. Gold-bearing quartz veins, lenses and stringers occur along shear zones, irregularly scattered throughout the schistose and jointed volcanics. The Maskwa and Oiseau copper-nickel deposits lie in shear zones in vertical dipping andesite, pillow lava, and associated quartzose tuffs, close to the contacts of bodies of peridotite-gabbro and granite. The country rocks in the vicinity of Shatford and Bernic lakes, Oiseau area, consist of volcanics, peridotite, gabbro, granite, granodiorite and pegmatite. The known tin deposits are in the pegmatites characterized by abundant albite feldspar. Cassiterite occurs in small grains and crystals. No cassiterite-quartz veins have yet been located. Lithium-bearing pegmatites also occur in the area.

The geology of the San Antonio gold mine, Rice Lake area, Manitoba, is outlined by J. A. Reid. Consequent on the granite intrusion, stresses fractured the greenstone, and schistified other rocks. The fracturing was accompanied or followed by mineralization solutions, emanating from the granite, which deposited quartz, gold, pyrite, rarely chalcopyrite and other minerals in the fissures.

The results of studies of a few areas in the vicinity of lake of the Woods and immediately north are presented by D. R. Derry³, G. G. Suffel,³ L. Greer,⁵ J. G. Cross,⁴ and E. M. Burwash.³

Derry describes the geology of the area from Minaki to Sydney lake as composed of Precambrian volcanics, sediments, and intrusions of granite and associated rocks. Veins of the replacement type consisting of pyrrhotite with a small amount of pyrite and molybdenite occur in the sedimentary gneiss along the granite contact; veins of the replacement type consisting of pyrite with chalcopyrite occur in the volcanic and quartzite sediments. The latter type is thought to be more favourable for the occurrence of economic deposits.

Precambrian volcanics, schists and intrusive rocks of various types including granite and diabase are described by G. G. Suffel as occurring in the Bigstone Bay area, Lake of the Woods. Narrow, lenticular quartz veins lie at or near the contact

between the granite and the basic schists. Many showings are in the schist but some are in the granite itself. Visible gold and silver, pyrite, arsenopyrite, chalcopyrite, sphalerite, galena and tellurides have been reported.

The geology of Shoal Lake (west) area, Lake of the Woods, is indicated by L. Greer as consisting of Precambrian volcanics, sediments and granite and related intrusives. Gold occurs in rather narrow quartz veins in greenstones. Some sulphide-bearing fracture zones also carry gold.

A description of the geology of Kakagi Lake area, Lake of the Woods, is given by E. M. Burwash. Precambrian volcanics, sediments, gneisses, intrusive granite and associated dykes, and diabase occur in the area. Gold-quartz veins are found in schistified areas close to the granite and also in the granite.

J. G. Cross describes in detail the geology of the Sultana mine, Lake of the Woods, as consisting of Precambrian greenstones and basic Keewatin rocks intruded by an almost circular boss of granite with a central core of porphyry. The contact between the granite and porphyry is very decided and abrupt although it is apparent that both have a common origin. Along the westerly contact, in shear zones in the porphyry, gold-quartz veins containing pyrite, galena and zinc blende are found.

Preliminary reports are made upon Pipestone Bay section³ and MacKenzie Island area,³ Red Lake, Kenora district (Patricia portion), Ontario, by H. G. Young and E. L. Bruce. Gold-quartz veins carrying variable amounts of pyrite and occasional streaks and needles of tourmaline are found by Young in the Pipestone Bay area. In the MacKenzie Island area, E. L. Bruce reports gold-quartz veins as being found in sheared and altered granodiorite which is considered a marginal phase of the Howey granite boss.

North of the Albany River the Shonia La'te area, 5, 2 the Pickle Lake-Crow River area, 8 and the Fort Hope gold area 3 are described by H. C. Laird, M. E. Hurst, and L. F. Kindle. The rocks of the Shonia Lake area are found by Laird to consist of Precambrian volcanics, sediments and intrusives. Native gold occurs in a stockwork of quartz veins in altered granite. Hurst's study of the Pickle Lake-Crow River area reveals Precambrian volcanics, sediments, iron formation, and various intrusives including granite and allied rocks, and also diabase. Mineralization is associated with openings formed as a consequence of the folding and buckling of Keewatin rocks. Deposits so far discovered consist of gold-bearing quartz veins or silicified zones carrying auriferous sulphides. According to L. F. Kindle, the bed rocks of the Fort Hope gold area comprise Precambrian volcanics, sediments, quartz biotite, garnetiferous schist, and two ages of granite. Mineralization, consisting of pyrite, pyrrhotite, chalcopyrite, sphalerite and galena, is found in sheared greenstones usually where there is crystalline limestone.

Precambrian greenstones and sediments bordered on the north and south by extensive areas of granite and gneiss are found in the Sioux Lookout-Hudson area, Kenora district, Ontario, by M. E. Hurst. Quartz veins carrying sphalerite, pyrite, and in some cases arsenopyrite and yielding interesting values in gold and silver were observed.

The results of an examination of the geology of the Sturgeon Lake gold area, Kenora and Thunder Bay districts, Ontario³, are presented by A. R. Graham. Precambrian volcanics, sediments and intrusives occupy the area. Gold-quartz veins occur along lines of weakness in greenstones near the contact with and also in the granite.

A paper by Ellis Thompson upon tellurides at the Moss mine, Thunder Bay district, Ontario, appears in the University of Toronto Studies. The rocks in the immediate vicinity of the mine consist of basic and acid volcanics of Keewatin age intruded by feldspar lamprophyre and diabase. A mile to the east is the westerly end of a large boss of syenite with which the porphyry dykes are presumably genetically connected. The gold-quartz veins occur in shear zones striking northeast in the basic volcanics, in intimate association with narrow feldspar porphyry dykes. The gold is accompanied by petzite.

The geology of the Heron Bay area, Thunder Bay district, Ontario,³ is described by J. E. Thomson. Precambrian volcanics are intruded by a number of rock types, including granite and diabase. Gold associated with sulphides in quartz veins occurring in schist has been reported to occur in the area.

A. R. Graham reports upon the Groundhog-Kamiskotia area, Cochrane district, Ontario.³ Precambrian volcanics and various intrusives of different ages occupy the area. Gold-bearing quartz veins are found in Algoman porphyry dykes or in greenstone and gabbro adjacent to them. Pyrrhotite lenses containing chalcopyrite and nickel are found in the gabbro masses.

An account of the geology of Germain-Currie area, Cochrane district, Ontario,³ is presented by H. C. Laird. Precambrian volcanics, sediments and intrusive dykes of different ages are found in the area. Gold-quartz veins mineralized with zinc blende, galena, chalcopyrite, bornite and garnet are found in shear zones in volcanics and in dykes of albite, syenite porphyry and quartz and feldspar porphyries. The gold mineralization appears to be connected with some phase of the Algoman intrusive. Nickeliferous pyrrhotite occurs along the contact between serpentine and andesite.

In the Engineering and Mining World, R. D. Hoffman outlines geological indications at Kirkland Lake, Ontario. Hoffman states that the "main break" of the area is a pivotal fault hinged at great depth to the west and dying out and coming to the surface at the Tough Oakes mine. This accounts for the rich ore at the surface at Tough Oakes mine, with subsequent impoverishment at depth and lack of real ore at the Teck Hughes until below the 500 foot level. The same idea of pitching of Kirkland Lake ore to the west in depth was advanced by J. B. Tyrrell.

Following a discovery of gold in Swayze township, Sudbury district, Ontario, examination of the locality and vicinity is made by H. C. Rickaby³ and G. D. Furse.³ In the area are found Precambrian volcanics, iron formation, sediments, granite diorite, porphyry and diabase. Deformation and faulting have taken place in part of the area rendering it more favourable prospecting ground. Gold-quartz veins have been found along fractures in the greenstones.

H. A. Laird describes the geology and economic possibilities of Chester and adjoining townships, Sudbury district, Ontario.³ A strong belt of Keewatin sediments is flanked on either side by Keewatin volcanics. The continuity of this assemblage is interrupted by later intrusives of economic importance. Gold-quartz veins are found in fracture zones in quartz-porphyry. A noticeable feature of the veins carrying gold is the presence on the hanging wall or the foot wall of a mica lamprophyre.

A preliminary report on the gold deposits of Tyrrell and Knight townships, Sudbury district, Ontario,³ is made by A. R. Graham. Keewatin volcanics, Huronian conglomerate, greywacke and quartzite, Nipissing diabase sills, and Algoman intrusives occupy the area. Gold-quartz veins are found in shear zones adjacent to lamprophyre and quartz-porphyry dykes.

A description of the Moose Mountain-Wanapitei gold area³ is given by L. F. Kindle. Precambrian volcanics, sediments, granite and basic intrusives are found in the area. Gold-quartz veins occur in quartzites and impregnated greywacke-quartzite near diabase intrusions.

A preliminary report is presented by E. L. Bruce upon the geology of Janes, McNeish, Pardo and Dana townships, Ontario.³ Precambrian sedimentary schist, gneisses, quartzite, conglomerate, diorite, granite, quartz-porphyry and diabase are found in the area. Gold-quartz veins occur in the diabase and quartzite.

In the Annual Report of the Quebec Bureau of Mines, J. A. Retty describes the geology of the Gaboury-Blondeau Townships map-area, Timiskaming county, Quebec, as consisting of Keewatin volcanics, pre-Timiskamian intrusives, altered Timiskamian sediments, Algoman granite and associated rocks and Keeweenawan intrusives. Those parts of the area that are occupied by Keewatin volcanics offer possibilities for the occurrence of gold, copper and asbestos.

L. V. Bell, in the Annual Report of the Quebec Bureau of Mines, provides a few reports upon certain portions of the eastern part of the Rouyn-Harricanaw area, Quebec, where interest in gold prospects prevails.

The geology of the Clericy-Joannes map-area is described by Bell as consisting of Keewatin volcanics, Timiskaming sediments, and post-Cobalt intrusives. The gold deposits are of two types: quartz veins and lenses parallelling the schistosity of the enclosing rocks, and networks of quartz stringers in carbonated rocks.

The rocks of the Central-Cadillac map-area, described by L. V. Bell, consist essentially of Timiskamian sediments and volcanics together with granite and allied intrusives. Gold deposits occur chiefly in narrow quartz veins which correspond in strike and dip with the schistosity of the enclosing rocks, which are intensely sheared volcanics lying within the sediments and intruded by dykes of aplite.

The vicinity of the Venus gold mine, Barraute township, is also described by Bell as being underlain by Keewatin volcanics. Gold-bearing quartz veins in which tourmaline, pyrite and chalcopyrite are present are found in shear zones in the greenstones.

- Gold Placer.—J. D. Galloway and others, in a special bulletin of the British Columbia Bureau of Mines, summarize the placer-mining possibilities of the province. The section by R. W. Brock upon an appraisal of the placer resources of the Pacific Great Eastern Railway lands is of especial interest.
- Iron.—C. K. Leith presents a paper upon secondary concentration of Lake Superior iron ores.⁷ This paper is a critical examination of an article by J. W. Gruner in which the contention is advanced that the Lake Superior iron ores owe their secondary concentration to hydrothermal solutions emanating in the main

from Keeweenawan basic intrusives. In concluding Leith states that the general hypothesis of concentration of iron ores by downward moving waters from the surface still seems to be adequate to cover the main body of the facts yet known.

Lead-Zinc.—J. MacIntosh Bell summarizes the genesis of the lead-zinc deposits at Pine Point, Great Bear lake, Northwest Territories. The rocks in the vicinity are middle Devonian, comprising Slave Point shaly limestone, Presqu'ile dolomite and dolomitic limestone, and Pine Point limestone. The ore appears to occupy zones of intense jointing along anticlinal crests or domes in the Presqu'ile formation.

Ralph Tuck describes a lead-zinc deposit at Geneva Lake, in the northern part of Hess township, Sudbury district, Ontario. Keewatin volcanics, Algoman granite, Bruce and Cobalt sedimentary series, and Keeweenawan granite and basic intrusives occupy the area. The ore body consists of an irregular tabular vein within greywackes and quartzites that contain injections of granite and alaskite.

Limestone.—A preliminary report on the limestones of British Columbia² is made by M. F. Goudge, giving descriptions of limestones at properties now being worked. Owing to the action of igneous intrusions and of mountain building agencies most of the limestones are highly metamorphosed. Along the coast and throughout the interior of the province are many deposits of limestone, some of which are of great size and many of which are very pure.

Oil and Gas.—A paper upon the Alberta syncline is presented by Theodore A. Link in the Bulletin of the American Association of Petroleum Geologists. Failure to encounter productive horizons in the Palæozoic limestones of the plains may be caused by the progressively lower bevelling of the older rocks to the east before the deposition of the Jurassic beds. The Turner Valley productive horizon has evidently been eroded away in the plains area prior to deposition of the Mesozoic beds.

Overthrust faulting and oil prospects of the eastern foothills of Alberta between the Bow and Highwood rivers, Alberta, is the title of a paper written by G. S. Hume. The foothills are characterized by numerous nearly parallel reverse faults often of great length and mostly of unusual steepness. The faults dip 65 degrees to 75 degrees or more at the surface. Wells drilled in certain areas indicate two faults which although steep at the surface become low angle faults at depth with westerly dips of not more than 20 degrees. One of these faults underlies Turner Valley and has been penetrated by a few wells which after passing through a considerable thickness of Palæozoic limestope cut the fault and the Cretaceous strata beneath.

Phosphate.—Some problems of the Rocky Mountain phosphate field, Canada and the United States,⁷ are indicated by G. R. Mansfield. At Banff, Alberta, and in the various British Columbian occurrences the beds corresponding with the phosphoria formation are part of a group included in the so-called Rocky Mountain quartzite.

Radium.—H. S. Spence gives a description of the occurrences of pitchblende and silver ores at Great Bear Lake, Northwest Territories.² Pitchblende is found in persistent vein systems within or along the contacts of highly sheared and brecciated greenstone bands which vary from ten to fifty feet in width. The mineral has

been observed at points two miles apart on the veins. Beyond question these deposits constitute a valuable source of radium. Native silver in wire, leaf and dendritic forms occurs in quartz gangue and in calcite fillings in the sheared greenstone bands.

The Wilberforce radium occurrence, Ontario,² is described by H. S. Spence and R. K. Carnochan. The rocks in the area consist of crystalline limestone, sedimentary gneiss, amphibolite, gabbro, diorite, gneissic granite, and nepheline syenite and associated alkali-syenite. Uraninite is found in miarolitic cavities in coarse-grained feldspar pegmatite enclosed in gneiss.

Silver.—C. E. Cairnes describes the geology of Lightning Peak camp, Monaskee mountains, at the headwaters of the Granby river, Osoyoos district, British Columbia, as consisting of crystalline limestone and altered volcanics intruded by granite batholiths and soaked with granite material from the batholith. Deposits of galena, sphalerite, pyrite, chalcopyrite, ruby silver, argentite, and native silver in a quartz calcite gangue are developed along shear zones, in the limestone and volcanics, striking east and west. Numerous quartz veins striking north and south and following along narrow dykes of quartz-porphyry carry pyrite, galena, sphalerite, chalcopyrite, grey copper and other high grade silver minerals, and low values in gold.

A comprehensive report is made by T. L. Tanton upon the Fort William-Port Arthur and Thunder Bay area, Thunder Bay district, Ontario. Precambrian schists, sediments, granite, granite gneiss and diabase occupy the area. Silver is the chief economic feature. The known deposits of this metal are exhausted but many veins of silver-bearing type have not been thoroughly explored and it is possible silver concentrations occur in them. Numerous deposits of lead and zinc and some deposits of barite, molybdenum, iron and copper occur in the area.

Geological structure disclosed in the Keeley mine, Ontario, is the subject of a paper by C. H. Boydell. The geological setting of the property consists of Keewatin basaltic and possibly andesitic flows showing pillow structure in places, intruded by lamprophyre dykes and a diabase sill. These rocks are intersected by faults which became the *loci* of silver-bearing copper-nickel veins with their attendant suite of essentially arsenide minerals and native silver. The author suggests further exploratory work in search of ore at the upper and lower contacts of the diabase. (See radium).

Sodium Sulphate.—A description of the sodium sulphate deposits of Saskatchewan is afforded by J. P. deWet.⁴ Deposits of the salt are quite common throughout the province. A demand for a large tonnage of this mineral comes from the International Nickel Co., Sudbury, Ontario. Here nitre cake is used as a flux in separating copper and nickel.

Tin-Silver.—A tin-silver vein at the Snowflake mine, British Columbia, is described by H. C. Gunning.⁷ Contorted, sheared and altered Precambrian quartzitic argillites and impure calcareous beds are cut by granite and granite gneiss of Mesozoic age. Following the bedding of carbonaceous argillites are a number of quartz veins. In one of these veins, irregularly distributed shoots, bunches, lenses or disseminations of pyrite, sphalerite, galena, stannite, chalcopyrite, tetrahedrite, ruby silver, scheelite and wolframite are found.

Zinc.—W. A. Parks in the Bulletin of the Geological Society of America describes the geology of Gaspé peninsula, Quebec. Cambrian to Carboniferous strata are excessively folded and much affected by igneous activity. Sulphides of zinc and lead occur in a zone of brecciated lower-Devonian strata near Brandy brook. Chalcopyrite occurs in Mount Serpentine region on Dartmouth river. Serpentized peridotite of Mount Serpentine and Mount Albert shows in places small grains of chromite and stringers of asbestos. Oil has been found in the Gaspé sandstones but no wells at present are producing.

Miscellaneous.—A comprehensive monograph upon chrysolite asbestos in Canada² is presented by J. G. Ross.

V. L. Eardley-Wilmot presents papers upon diatomite^{2, 4, 5} describing its structure, types, composition, uses, Canadian consumption and future requirements, and world's occurrences and production.

Feldspar, its occurrence and uses in modern practice, is the subject of an article written by Oliver Bowles and C. V. Lee.

The Amaranth gypsum deposit, northeast of Winnipeg, Manitoba,⁵ which within the past year has been opened up and brought into production, is described by A. M. Brownell. At the present time, the gypsum appears to be giving a satisfactory product and gypsum plasters from the Winnipeg mill are being regularly supplied to the Western building trade.

J. P. Messervey in the Nova Scotia Report on Mines described manganese in Nova Scotia. The minerals of manganese are found as thin beds and irregular masses in superficial clay deposits and as metalliferous veins in granite and sediments.

A study of raw materials for the manufacture of "rock wool", in the Niagara peninsula of Ontario, is made by M. F. Goudge.

Sources of Reports and Articles Referred to in the Text.

¹ Geological Survey, Department of Mines, Ottawa, Ont.; ² Mines Branch, Department of Mines, Ottawa, Ont.; ³ Department of Mines, Toronto, Ont.; ⁴ Canadian Mining Journal, Gardenvale, Que.; ⁵ Canadian Institute of Mining and Metallurgy, Drummond Building, Montreal, Que.; ⁵ Engineering and Mining Journal, New York; ⁷ Economic Geology, New Haven, Conn., U.S.A.

PART III.—SEISMOLOGY IN CANADA.

An article on Seismology in Canada, by Ernest A. Hodgson, M.A., appeared at p. 37 of the Canada Year Book, 1931.

PART IV.—THE FLORA OF CANADA.

Under the above heading the Canada Year Book, 1922-23, contained an article prepared by the late J. M. Macoun, C.M.G., F.L.S., and M. O. Malte, Ph.D., and revised by the latter. See p. 25 of the 1922-23 edition or p. 73 of the 1921 edition.

PART V.—FAUNAS OF CANADA.

The Canada Year Book, 1922-23, contained an article under the above heading by P. A. Taverner of the Department of Mines, Ottawa. See p. 32 of the 1922-23 edition or p. S2 of the 1921 edition.

PART VI.—THE NATURAL RESOURCES OF CANADA.

The economic life of new countries must at first depend entirely, and later mainly, upon their natural resources. Older countries, after exhausting their most easily obtained resources, turn for a livelihood to manufacturing and similar pursuits, conserving their remaining resources and utilizing those of less developed areas as far as practicable.

Canada is distinctly a new country and her resources are for the most part in the early stages of development. The fur, fishery and forest resources have, it is true, been the basis of trade for two or three hundred years but exploitation on the present commercial scale is of relatively recent growth. A notable feature, especially in so young a country, has been the effort directed to conservation and, in the cases of those resources which admit of such methods, the actual replenishment or augmentation of the sources of supply by the practice of reforestation, sylviculture, fur-farming or the establishment of fish hatcheries.

In recent years numerous surveys and investigations of the extent and value of the resources have been made. A short summary of important details regarding them follows. Fuller information will be found in the introductions to later chapters—Agriculture, Furs, Fisheries, Forestry, Minerals, Water Powers—of this volume.

Agricultural Lands.—Of the total land area of the nine provinces (1,276,109,-440 acres), it is estimated that approximately 352,157,190 acres are potential agricultural lands, including grazing lands associated with farm lands. The estimate is based on the best information available which, for the more northerly parts, is uncertain; the total is made up by adding to the area now occupied by agriculturists all lands considered to be possible of devotion to similar purposes. The area at present under cultivation is but a fraction of this total, the extent under field crops in 1932 being 59,633,500 acres, while the total area under pasture in the same year was 8,264,700 acres. Statistics of farm lands at the census of 1931 place the area then occupied at 163,254,959 acres; the area of what may be considered as agricultural land still available for occupation was, therefore, 188,902,231 acres. Details are given by provinces in Table 7.

7.—Area of Occupied and Estimated	Potential Agricultural Lands in the Nine
Provinces of Canada, 1931,	with Estimated Land Area, 1933.

Province.	Area Occupied, ¹	Area Available for Occupation.	Total Potential Agricultural Land. ²	Total Land Area, 1933.
Prince Edward Island. Nova Seotia New Brunswick. Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia.	4,302,031 4,151,596 17,445,689 22,840,898 15,131,685	86, 988 3, 789, 969 6, 566, 404 26, 299, 971 42, 996, 102 17, 248, 315 24, 400, 540 45, 472, 543 19, 061, 459	1,258,190 8,092,000 10,718,000 43,745,000 65,837,000 80,674,000 87,450,000 87,450,000	232,500,480 140,622,720 152,804,000 159,232,000
Totals	163,254,959	188,902,231	352,157,190	1,276,109,440

¹ These figures are from the 1931 census and are subject to revision.

² These estimates have been made by the Topographical Survey, Department of the Interior.

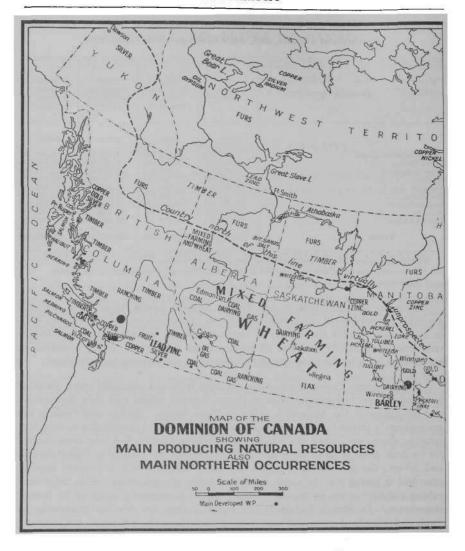
³ Subject to revision.

Thus, in all the provinces but Prince Edward Island, large areas are still available for settlement, and while the nature of the soil and of the climate may in some cases restrict the variety of crops, in general the grain, root and fodder crops can be profitably grown in all the provinces, while stock raising is carried on successfully both in the more densely settled areas and beyond their frontiers.

The Maritime Provinces are noted for their fruit and vegetable crops, particularly for the oat and potato crops of Prince Edward Island and New Brunswick, and the apples of the Annapolis valley in Nova Scotia. Quebec and Ontario are pre-eminently mixed-farming communities, various districts specializing in dairying, tobacco, sheep, etc., while the Niagara peninsula in Ontario has long been famous for its fruit crops of both large and small varieties. In Manitoba, Saskatchewan and Alberta the production of grains, especially wheat, is still of primary importance but is giving way to more diversified types of agriculture, while the stockraising industry, once so typical of the prairies, is regaining much of its former importance. In British Columbia the fertile valleys are devoted principally to apple and other fruit crops, and numerous districts along the coast and on Vancouver island are given over to general farming and market gardening.

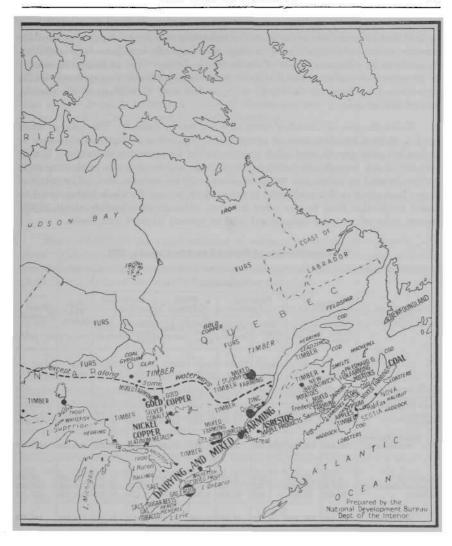
Of the larger areas of land still available for settlement, the clay belt of northern Ontario and Quebec, which is suited to the growing of splendid crops, is to a large extent undeveloped, and even larger areas in northern Saskatchewan and Alberta await cultivation.

Forests.—The forests of Canada rank second only to agriculture in their contribution to the national income. It is estimated that forest products make up about 20 p.c. of all the freight hauled on Canadian railways, and the heavy excess of exports over imports which the wood and paper group provides, amounting to \$143,732,101 for the fiscal year ended March, 1932, constitutes an important factor in Canada's balance of international trade.



Canada's forest area may be roughly divided into three main parts: (1) the great coniferous forest of the Pacific slope, (2) the northern forest, principally coniferous, which stretches from the east slopes of the Rockies, north of the prairies and of the Great Lakes to Labrador, and (3) the mixed softwood and hardwood forests extending from lake Superior through southern Ontario and Quebec to the Maritime Provinces.

Canada's forest area is estimated at 1,153,000 square miles, or 32.8 p.c. of the land area. Some of this is agricultural land, but it is considered that about 1,100,000 square miles is essentially forest land which can best be utilized in the production of wood. Not all of this area can be considered as capable of producing



timber at the present time, only some 791,670 square miles being regarded as accessible and productive, of which 412,725 is young growth, leaving 378,945 square miles of land carrying timber of merchantable size. With regard to quantity of timber, the accessible stand has been estimated at 165,846 million cubic feet, or 290,230 million feet board measure of saw timber and 920,335,000 cords of pulpwood, cordwood, etc. The stands in Eastern Canada make up 64·3 p.c. of the total, those in British Columbia account for 24·2 p.c., leaving 11·5 p.c. of the accessible timber in the Prairie Provinces. During recent years the annual cut (estimated at 4,102,000,000 cubic feet in 1932) has generally exceeded the new growth, and enormous losses have been caused by fire and other destructive

agencies. In spite of the vast extent of the uncut and unburned forests it cannot be said that the measures so far taken by legislation and the application of scientific forestry to preserve them and encourage their reproduction have been sufficient to assure us an adequate supply of timber for the future. Yet an annual increment of 10 cubic feet per acre, which is quite possible under forest management, would provide in perpetuity for the needs of a population of 17 millions at the present annual rate of use.

A classification of Canada's forest area is given in Table 8. The total of forest land is divided into the areas at present carrying timber of merchantable sizes or valuable young growth, and other areas unsuited for present exploitation. It may be pointed out, however, that many of these latter will develop into productive areas as the demand increases and transportation facilities are extended. The totals of forest land given in this table refer to areas which are on the whole better suited to forest production than to any other purpose, although they include about 26,652 square miles of occupied agricultural land at present covered with forest.

8.—Classification of Forest Land in Canada, 1932.

ĺ				Product	ive.					
Province or Region.	Tot	al.	Softv Ty			ixed ype.		lwood ype.	Non Pro-	Total Forested.
negon.	Mer- chant- able.	Young Growth.	Mer- chant- able.	Young Growth.	Mer- chant- able.	Young Growth.	Mer- chant- able.	Young Growth.	ductive.	rorested.
	sq. miles.	sq. miles.	sq. miles.	sq. miles.	eq. miles.	eq. miles.	sq. miles.	eq. miles.	miles.	eq. miles.
P. E. Island Nova Scotia New Brunswick Quebec Ontario	485 7,470 18,340 213,500 52,050	240 4,480 6,205 90,000 75,500	485 5,000 7,880 164,400 26,300			480 4,610 23,400 50,000	6,400	1,000 230 12,600 10,000	70,000	725 12,000 24,695 373,500 187,550
Totals, Eastern Provinces	291,845	176,425	204,065	74,105	75, 270	78,490	12,510	23,830	130,200	598,470
Manitoba Saskatchewan Alberta	4,615 7,305 20,680	34,855	1,835 1,745 7,695	7,155	2,045	7,350	3,515	11,650 20,350 16,885	40,000	82, 160
Totals, Prairle Provinces	52 , 600	133,139	11,275	40,345	12,510	43,500	8,815	48,885	136,200	301,930
British Columbia .	53,500	94, 170	53,500	94,000		170			44,935	192,605
Totals, All Provinces,	377,94 5	403,725	268,840	208,450	87,780	122,540	21,325	78,715	311,335	1,093,005
Yukon and N.W. Territories	1,000	9,000	500	4,000	250	3,000	250	2,000	50,000	60,000
Totals, Canada	378,915	412,725	269,340	212, 450	88 ,03 0	125,560	21,575	74, 715	361,335	1,153,005

Forest products have always formed a large part of the raw material used in all kinds of industrial activity. At the present time products of forest origin form a quarter of our total exports, being exceeded only by the products of the farm.

Because of our climate, coniferous trees form over 80 p.c. of our forest resources and over 95 p.c. of our forest products as at present exploited. Because of their universal use in industry, the softwoods are in greatest demand, not only in Canada but in the markets of the world. Canada enjoys the reputation of holding the Empire's reserve of softwood timber, being rivalled in her coniferous forests only by Asiatic Russia and the United States. The Canadian species of both hardwoods and softwoods yield lumber and timber of dimensions and quality that are equal or superior to those produced by forests elsewhere.

Statistics of forest production (operations in the woods) in 1930 place its total value at \$206,853,494, with a corresponding equivalent in standing timber of 3,056,930,373 cubic feet. The most important items are logs for sawing, valued at \$75,563,041, and pulpwood for use and export, valued at \$67,529,612. The total value of sawmill products in 1930 was \$121,142,985 and that of pulp and papermill products \$215,674,246.

Furs.—Although the rapid advance of settlement has greatly restricted the reservoir of fur-bearing animal life cradled in the vast expanses of northern Canada, yet Canada, after three and a half centuries of exploitation, still holds a foremost place in the ranks of the world's fur-producing countries.

Raw furs are at present the only economic return from hundreds of thousands of square miles of the area of the Dominion and are an important product in all the provinces and territories.

The large uninhabited areas of northern Quebec, Ontario, Manitoba and the Northwest Territories furnish subsistence for many of the most highly prized furbearing animals, among the most important of which are the beaver, fisher, various varieties of fox, marten and others. The animals are usually caught in traps during the winter months, when the country is more accessible than during the summer and the pelts are in the best condition. The successful breeding of the fox on fur farms came with the period of rising prices after 1890, and has since developed into an important industry. Prince Edward Island has always been the centre of the industry, but farms are now found in all provinces of the Dominion. On Dec. 31, 1930, 5,070 fox farms were in operation with a total of 114,066 foxes, principally of the "silver" variety.

Although the fox has proved the most suited to domestication, other kinds of fur-bearing wild animals are being raised in captivity—mink, raccoon, skunk, lynx, coyote, rabbit, marten and fisher. Karakul sheep, from which are obtained the furs known as "Persian lamb", "astrachan" and "broadtail" are also being raised successfully in Canada. In 1930 the number of farms engaged in the raising of furbearing animals other than foxes was 1,454. Mink farms are the most numerous of the miscellaneous class, muskrat farms coming second and raccoon third. Over 425 of the fox farms also raise miscellaneous fur-bearing animals in addition to the foxes.

The total value of the raw fur production of Canada for the season 1930-31 was \$11,681,221. This total comprises the value of pelts of fur-bearing animals taken by trappers and of those raised on fur farms. Pelts sold from fur farms in the calendar year 1930 were valued at \$3,096,270 and animals sold at \$1,828,545.

Fisheries.—The first of Canada's resources to be exploited by Europeans was the fishing banks of the Atlantic coast. It is believed that, for many years before the actual discovery and settlement of North America, the cod banks south of Newfoundland and east of Nova Scotia had attracted French fishermen by their abundance of fish. These fishing grounds alone extend along a coast line of more than 5,000 miles, comprising an area of not less than 200,000 square miles, and are in the course of the cold Arctic current, a fact which tends greatly to improve the quality of the fish. The most important fishes of the off-shore fisheries are the cod, halibut, haddock, herring and mackerel, while the inshore and inland fisheries number the lobster, oyster, salmon, gaspereau, smelt, trout and maskinonge among their catches. Other fishing grounds include the inshore expanses of the St. Lawrence river; the Great Lakes, where whitefish and herring form perhaps the most valued catches, and innumerable other inland water areas abounding with trout, pike, bass and other game fish; and the Pacific coast. The fisheries of British Columbia, with its coast line of 7,000 miles, have in recent years shown a rapid development, and the products of the estuarian salmon fisheries of the Fraser. Skeena and other rivers now make up two-fifths of the value of fish products of the Dominion, while in addition large catches of halibut, herring and whales are made off the western coast. The total value of the fisheries in the calendar year 1931 was \$30,517,306.

The above statistics give a general survey of the commercial aspects of the fisheries but do not indicate the advantages which Canada has to offer to those who fish for sport. This too has its economic features in a country of such famous game fish as the salmon of the Restigouche, the black bass of the Quebec and Ontario highlands and the trout of the Nipigon. A considerable public revenue is derived from the leasing of waters in sparsely settled districts to clubs and individuals for sporting purposes.

Minerals.—The numerous and varied mineral deposits of the Dominion form another of her most important resources. Mining is an old industry, coal having been produced in Nova Scotia and iron ore in Quebec early in the eighteenth century. The main development in the industry has taken place, however, in the twentieth century, during which there has been a great increase in the total and per capita production of minerals and mineral products.

There is a great variety of mineral products, metallic and non-metallic. Coal was for long the leading mineral, but in 1931 coal was exceeded in value by gold and in 1932 the preliminary figures for gold (\$63,061,103) again exceeded those of coal (\$37,045,272). Coal will probably remain in second place for some time although Canada's reserves of this fuel are known to be very great. The other leading non-metallic minerals were natural gas, asbestos, petroleum, salt and gypsum. Others that were produced to the annual value of over \$100,000 each in 1932 were quartz, magnesite, sulphur, sodium sulphate, and talc and soapstone. In quantity of asbestos produced Canada leads the world, all of the production being from Quebec. Natural gas is produced in Alberta and Ontario and to a less extent in New Brunswick. The production of petroleum comes principally from Alberta, although there is also a small output in Ontario and New Brunswick.

The value of the metallic minerals was in 1932 nearly double that of the non-metallic minerals. Those amounting to more than \$1,000,000 in the year were: gold, copper, nickel, silver, lead, zinc, and platinum and similar precious metals. Canada has now definitely taken second place among gold-producing countries.

Lead and zinc mining has made rapid progress in recent years although production is much curtailed at present owing to the low prices of these metals. Ontario meets about 90 p.c. of the world's requirements in nickel, and has reserves to last for centuries. Platinum and palladium are recovered in the process of refining the copper-nickel ores. Ontario, British Columbia, Quebec and Manitoba are the main copper-producing provinces; in the latter province large bodies of copper-zinc-sulphides are under development. The total mineral production for 1929 reached a record value of \$310,850,000, while preliminary figures of the 1932 production were \$182,320,150, prices having fallen seriously in the past two years.

Water Powers.—Canada's fresh water area of 226,979 square miles, distributed as it is throughout all parts of the country, provides a large amount of potential electric energy. It is estimated that 20,347,400 h.p. are available at a minimum yearly flow, 33,617,200 at ordinary six-months flow and that a turbine installation of 43,000,000 h.p. is possible. The installation at Jan. 1st, 1933, was 7,045,260 h.p., which represents only about 16.4 p.c. of the possible installation. Perhaps the greatest use to which these resources have yet been put has been in the pulp and paper industry, and to a lesser degree in the mining, the electro-chemical, the electro-metallurgical and the flour-milling industries. The water power utilized in the pulp and paper industry alone amounted on Jan. 1, 1933, to 1,608,000 h.p. Over 94 p.c. of the power available is in Quebec, Ontario, Manitoba and British Columbia; Quebec with 8,459,000 h.p. available at ordinary minimum flow, has the largest resources in the Dominion.

Game and Scenery.—Canada's resources as a country for the sportsman and tourist are both unique and varied. Owing to the growth of tourist travel and its demands, great areas of uninhabited land have become accessible, and hitherto almost unknown parts may now be reached and traversed with ease. The valleys of Nova Scotia and New Brunswick, the broken lake country of northern Ontario and Quebec, as well as the mountain districts of British Columbia, offer to the tourist, the hunter and the fisherman new scenic effects and innumerable game preserves, and have won for the Dominion a reputation as a paradise for sportsmen and campers. And not only is this possible for those who travel by land; the series of lakes and rivers which form a network over the eastern part of the country particularly, has made water travel in smaller craft both feasible and attractive. Further, facilities for winter sports, the unusual attractions of winter scenery and the bracing though rigorous winter climate, have done much to add to the reputations of resorts formerly noted for their advantages in the summer season.

The Dominion Government maintains, as the medium through which some of the most outstanding natural beauties of the country may be preserved and popularized, the National Parks Branch of the Department of the Interior, administering the scenic parks set aside for this purpose. Under the supervision of this same body are numerous animal reserves and historic sites which have been preserved throughout the country. Several of the provinces also maintain parks for similar purposes; among these the Algonquin park (2,741 square miles) in Ontario and the Laurentides park (3,565 square miles) in Quebec are the most important. In both Dominion and provincial parks, the hunting of game is forbidden, and the wild-life resources preserved. Elsewhere, however, there is available for the hunter and angler, at proper seasons, a wealth of game species. The deer and moose of Eastern Canada, the bear and mountain sheep of the Rockies, game animals, birds and fishes in unusual variety, have given the Dominion exceptional advantages for this means of recreation.

A list of the Dominion national parks and reserves is given in Table 9.

9.—Canadian National Parks and Reserves, 1933.

. Park.	Location.	Date of Establish- ment.	Агеа.
Scenie Parks.			sq. miles.
Banff National Park	Alberta, east slope of Rockies	1885	2,585
Yoho Park	British Columbia, west slope of Rockies.	1886	507
Glacier Park	British Columbia, summit of Selkirks	1886	521
Revelstoke Park	British Columbia	1914	100
Kootenay Park	British Columbia	1920	587
Jasper Park	Northern Alberta	1907	4,200
Waterton Lakes Park	Southern Alberta, adjoining U.S. Glacier Park	1895	220
St. Lawrence Islands	Ontario	1904	(180·8 acres)
Pt. Pelee Park	Ontario, on lake Erie	1918	6
Georgian Bay Islands Park	Ontario	1929	4.6
Riding Mountain Park	Manitoba,,,	1929	1,148
Prince Albert Park	Saskatchewan	1927 •	1,869
Tar Sand Reserve 1 2	Alberta	1926	(2,068 · 2 acres)
Animal Parks and Reserves.			
Buffalo Park	Near Wainwright, Alberta	1908	197-5
Elk Island Park	Near Lamont, Alberta	1911	51
Nemiskam (Antelope)	Alberta	1922	8.5
Wawaskesy (Antelope)	Alberta	1922	54
Wood Buffalo Park ³	Alberta (13,675 sq. miles) Northwest Territories (3,625 sq. miles)	} 1922	17,300
Historic Parks.			
Fort Anne	Annapolis Royal, Nova Scotia	1917	(31 acres)
Fort Beauséjour	New Brunswick	1926	(59 acres)

¹ Reserved by order in council and became a Dominion reserve by agreement with the province of Alberta in 1931. ²Administered by the Dominion Lands Administration of the Department of the Interior.

PART VII.—CLIMATE AND METEOROLOGY.

Section 1.—The Climate of Canada.

An article on this subject by Sir Frederic Stupart, Director of the Dominion Meteorological Service, Toronto, appeared in the 1929 edition of the Year Book at pp. 42-51.

Section 2.—The Factors which Control Canadian Weather.

Under the above heading, Sir Frederic Stupart, Director of the Dominion Meteorological Service, Toronto, contributed an article which appeared at pp. 26-31 of the 1924 edition of the Year Book, also at pp. 36-40 of the 1925 edition.

Section 3.—The Distribution of Precipitation in Canada.

An article on "The Distribution of Precipitation in Canada", contributed by A. J. Connor, Climatologist, Dominion Meteorological Office, Toronto, appeared at pp. 42-46 of the 1926 edition of the Year Book.

Section 4.—The Temperature and Precipitation of Northern Canada.

An article on the climate of northern Canada, accompanied by meteorological tables showing the normal temperature and precipitation at selected northern stations, was contributed by A. J. Connor, of the Meteorological Service of the Department of Marine, Toronto, to the 1930 edition of the Year Book, where it will be found at pp. 41-56.

Section 5.—The Meteorological Service of Canada.

Under the above heading Sir Frederic Stupart contributed a short article descriptive of the growth and present activities of the Meteorological Service, to the 1922-23 edition of the Year Book (pp. 43-47); to it the interested reader is referred.

Section 6.—Meteorological Tables.

Tables showing the normal temperature and precipitation at selected Canadian stations in each of the provinces, together with the recorded extremes, also the averages of sunshine, wind and weather at such stations, will be found at pp. 51-63 inclusive of the 1927-28 edition of the Year Book. The 1931 edition of the Year Book contains at pp. 48-76 additional and more comprehensive tables, contributed by A. J. Connor, of monthly average temperatures and precipitation throughout Canada, as well as of normal snowfall and duration of bright sunshine.

Section 7.—Droughts in Western Canada.1

The scarcity of rainfall in Western Canada in recent years has been the reason for frequent requests that the Meteorological Service should supply the figures of annual rainfall and snowfall for a long period of years. Some of our correspondents have suggested that there was some law of periodicity governing the precipitation

Contributed by A. J. Connor, Climatologist, Meteorological Service of Canada.

of Western Canada. Several of our correspondents have also objected to annual figures which are the totals of the twelve calendar months of each year. To meet the needs of those who wish to inquire into possible periodicities, there are supplied on the following pages tables of the annual precipitation, arranged to cover the crop year from Aug. 1 to the 31st of the following July. These are to be found in Table 9 under the heading "P12" In a parallel column is given the average temperature of the months of May, June and July of the corresponding year. Since the mean temperature of the actual growing period (which is nearly that of May, June and July) gives a fairly reliable indication of the temperature of the soil, it was thought that these would be the most useful temperature data. Dividing the figures in the first column by those in the second column and multiplying by a constant, we obtain a quotient listed under the heading "Q". The soil moisture varies directly as the precipitation and inversely as the temperature of the soil. The figures listed under "Q" should, therefore, give some indication of the average soil moisture during the growing season of each year. Since there are no actual observations of soil moisture available (except those made at a few scattered points several years ago under the supervision of Dr. F. T. Shutt, Dominion Chemist), we can assign no absolute meaning to these quotients. All we can say is that they afford some reasonable basis for the inter-comparison of the individual years. In the diagrams the yields of wheat for a few recent years have been plotted alongside the values of "Q" for the nearest representative station.

It has also been urged by our correspondents that the success of western crops was not totally dependent upon the weather of the current year but also upon the weather of the immediately preceding years. Although several suggestions of this nature have been propounded, they may be briefly summarized by saying that two dry years in succession have a more detrimental effect upon the crop of the second year than a single contemporary dry season and that a good third year does not compensate for two previous dry years. For the benefit of those who would like the data arranged to suit this viewpoint, a second table has been included in which the quotients are arranged by progressive means and described as "weighted quotients" (Qw). These means were obtained by the following formula:—

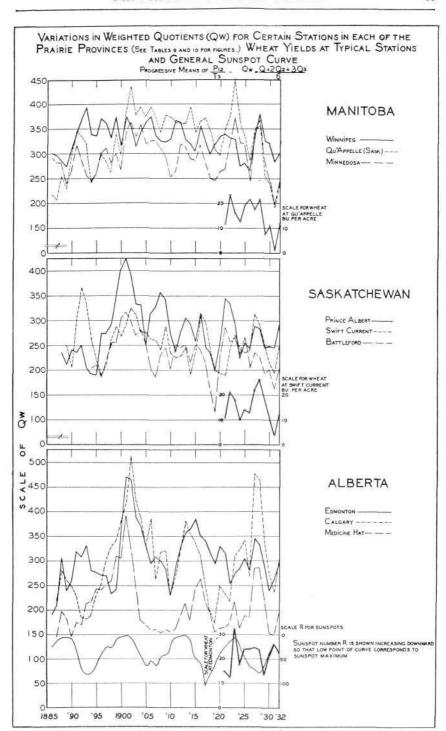
$$\frac{a+2b+3c}{6}$$

The mean so obtained is credited to the year c. For the year d the figure is obtained from the formula:—

$$\frac{b+2c+3d}{6}$$

and so on up to the year 1932. In the accompanying diagrams these progressive quotients have been arranged to show the graphic history of western weather from this standpoint.

During the last fifty years there have been many meteorological stations established on the prairies but few of them have lasted very long. To obtain reliable district values for each year, using a shifting station network, we must submit the crude figures to considerable statistical transformations. It was, therefore, considered better for the present purpose to give the actual figures for a representative station of long continued record in each section of the west. The stations



chosen, Edmonton, Calgary, Medicine Hat, Swift Current, Battleford, Prince Albert, Qu'Appelle, Minnedosa and Winnipeg, are each in the approximate centre of a district of fairly distinct rainfall and temperature characteristics. In the diagram they have been arranged in related groups of threes. In the first diagram for the Alberta group the weighted "Q" informs us strikingly that:—

- (1) At Edmonton the variation throughout the period has remained within narrower amplitudes than at Calgary or Medicine Hat.
- (2) The Calgary climate can be, agriculturally, much better or much worse than the Edmonton climate.
- (3) Medicine Hat, although subject to violent variations, is always at a lower level than the other two districts.
- (4) Despite all these peculiarities there have been major pulsations which are recognizably prominent in all three. From the late '80's the general average of soil moisture (if this interpretation of Qw is sound) gradually improved to reach a peak shortly after 1900; in 1901 at Edmonton and Medicine Hat and in 1902 at Calgary.
- (5) From 1902 the general average slips downward, steadily at Medicine Hat but with occasional slight recoveries at Edmonton and Calgary. The bottom was reached in 1910 at Edmonton and Calgary but Medicine Hat had already bottomed in 1905 and stayed down till Edmonton and Calgary reached the lowest point.
- (6) Thereafter some force seems to have rapidly pulled values upwards to a peak, in three years at Calgary, five at Edmonto: and six at Medicine Hat. Thence the trend is downwards to 1919. After irregular fluctuations there is a peak in 1927 followed by a plunge downward to the very poor annual values of recent date. The curve in 1932, although upward, may indicate only that we are starting a period of irregular fluctuations. The assumption that the values will be gradually mounting on the average is by no means certain but would appear probable.

If there are uniformly recurring periodicities in western weather, the smooth values given by the progressive method which produced Qw should make these periodicities very evident. We have seen that there have been long period pulsations affecting Alberta. Pulsations are periodic if they recur at regular intervals. If the intervals are irregular, there is no periodicity. This does not, however, preclude the possibility that the pulsations are due to the beats or interactions caused by simultaneous forces whose periods are mutually incommensurable. This latter possibility is, of course, beyond inquiry at the present time. All that our correspondents had in mind was simply a period such as the sun-spot period. Examining the curve we may take the intervals between peaks and between valleys.

The peak at Edmonton in 1893 appears anomalous but there is a common peak in 1888, one in 1901 or 1902, one in 1913, 1915 or 1916 and another in 1927 or 1928. Intervals are 13 or 14 years, then 11 or 14 or 15 according to the station considered, while the last interval is 11, 12 or 14. The average for the three stations is slightly more than thirteen years. The valleys are not certain at the beginning of the record but we recognize major ones in 1910, 1919 and 1930 or 1931. These give intervals of 9 and 11 or 12 years. If we consider the early one as having occurred in 1889 or 1890, we have another interval of 10 or 11 years. Medicine Hat and Edmonton, however, started with a valley in 1885 or 1886 so that the first interval is doubtful. All these intervals are so sufficiently close to the sun-spot intervals that one may say that a force going through approximately the same cycle as the sun-spot frequency affects prairie weather. This, however, becomes apparent only when the weather values are thoroughly smooth. Reference to Table 9 shows

that the individual annual values are subject to very large fluctuations of much shorter intervals than the sun-spot period. These shorter fluctuations are of such violence that they have a very large immediate effect upon the crops of the corresponding year.

Turning now to the group of three stations in Saskatchewan, we find minima in 1890, 1895, 1905, 1914, 1919 and 1931. These give intervals of 5, 10, 9, 5 and 12 years. It must be admitted, however, that major minima are more difficult to recognize than in Alberta. From 1895 to 1919 is approximately twice the sun-spot period and that from 1919 to 1931 is very close to a sun-spot interval. Looking at the maxima we find them in 1892, 1901, 1916, 1921 and 1927. All three stations do not come to a major maximum in the same year, so that the actual intervals between peaks are somewhat doubtful. On the whole the case for solar influence in Saskatchewan is rather weak.

The last group of three consists of Qu'Appelle in southeastern Saskatchewan and two stations in Manitoba. At these three stations the smooth curves on the whole do not show such large fluctuations. The maxima are in about 1891, 1901, 1923, with somewhat doubtful peaks about 1912 and 1927. It is possible to pick the peaks so as to get intervals approximating those of the sun-spot intervals but the result is not very satisfactory. There are minima about 1889, 1900, 1910, 1920 and 1930, so that if we neglect the fairly well marked minima about 1894 and 1926 we have a rather better case for solar influence.

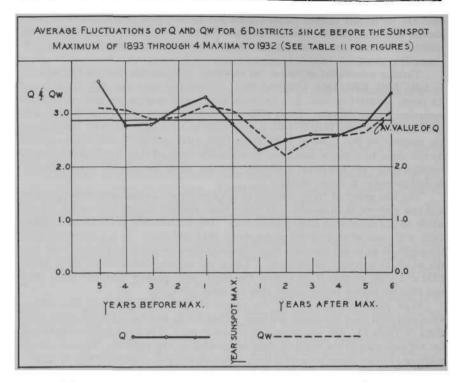
Since visual examination of the curves is rather unsatisfactory the figures were subjected to a statistical analysis. That for Q and the sun-spot numbers is given in Table 11. Qw was treated in the same way. The averages of both Q and Qw for each year of the sun-spot cycle are plotted on the diagram. The period was taken as 12 years (since the actual time, although variable, is greater than 11 years). The height of the curve at both ends (corresponding to sun-spot minima) is therefore not identical.

Four sun-spot maxima have occurred during the time for which we have data. The data, thus analyzed, indicate that the weather in the Canadian West from the farmers' standpoint may be expected to reach a peak of beneficence about sun-spot minimum; to fall sharply in the two succeeding years; then rise to a secondary peak one year before the sun-spot maximum; fall steeply at maximum sun spots and the following year; thereafter to rise slowly to a peak at the next sun-spot minimum.

A few figures of district yields of wheat are plotted on the diagrams. Enough evidence to show that weighting the weather data of one year by those of the two preceding years is not generally good practice is seen by the comparative failure of the wheat yields at Edmonton and Qu'Appelle to parallel the weighted weather figures. The parallelism for Swift Current is, however, surprisingly good. In fact, although there is a very good positive correlation in the West between annual rainfall and wheat yields and a good negative one between summer temperature and yields, yet the annual figures got by combining temperature and rainfall are far from exactly paralleling the yield figures. Undoubtedly the distribution of heat and moisture throughout the period of growth is a very important factor, of which we have taken no account in our tables or curves.

The relation of sun-spot numbers to wheat weather and to wheat yields is therefore of no value for predicting the yield of any particular year, but does appear to indicate an irregularly cycloidal march of these variables through the years.

Since we have given the annual values of both precipitation and summer temperature, there are sufficient data for those who wish to consider this matter further.



9.—Precipitation in Crop Years and Temperature in the Growing Period at Certain Western Points, together with Quotients when Precipitation is Divided by Temperature, 1883-4-1932.

Note.—Quotients have in all cases been multiplied by 10.

EDMONTON.

				-			
Year.	P ₁₂	T ₃	Q	Year.	P12	T_3	Q
1883-84	12.53	55-8	2.24	1909	15.15	57.1	2.66
85	16.06	55.8	2.44	10	10.82	57.1	1.90
86	8.30	57-2	1.45	11	20.90	56.8	3.68
87	13.00	53.9	2.42	12	20-18	57.9	3-48
88	21.84	54.4	4.02	13	20.25	56.4	3.60
89	7.37	57.6	1.28	14	21-47	57.4	3-74
90	16.97	56.5	3.01	15	21.95	54.9	4.00
91	22.40	56-9	3.94	16	17.19	55.0	3.12
92	13.76	54-8	2.51	17	19.34	56-4	3-43
93	19.94	56.2	3.55	18	16.52	55.0	3.00
94	14.33	58.7	2.44	19	15.66	57.0	2.75
95	15.50	56.7	2.73	20	21.01	56.2	3.74
96	16.06	57.4	2-80	21	16.62	57-4	2.90
97	15.15	58-6	2.58	22	10.88	57.8	1.90
98	11.97	59.0	2.03	23	18-86	57.5	3.28
99	14 44	55 - 1	2.62	24	16.43	57.4	2.87
1900	27.87	58 - 1	4.81	25	17-96	57.8	3.11
01	29.81	56.2	5.32	26	14-83	57.2	2.60
02	23 - 14	55 - 5	4.16	27	22 - 63	55.0	4.13
03	18-10	56-2	3.22	28	17.66	58-1	3.04
04	21.98	56.4	3.89	29	13.56	56.9	2.38
05	16-85	57.1	2.97	30	12.57	56.6	2.22
06	15.33	57.9	2.62	31	17-15	56.9	3.01
07	18-48	53 . 7	3-44	32	18 - 63	58-3	3.19
08	16.65	57.9	2.88		13405564	2000000	T - 10

Precipitation in Crop Years and Temperature in the Growing Period at Certain Western Points, together with Quotients when Precipitation is Divided by Temperature, 1883-4-1932—continued.

Nove,-Quotients have in all cases been multiplied by 10.

CALGARY.

		<u>`</u>						
Year.	Piz	Т3	Q	Year.	P _{f2}	Тз	Q	
1884-85	14-65	53 - 7	2.74	1909	16-67	54.9	3⋅04	
86	11.58	56-8	2.04	10	7.81	56.7	1-38	
87	11.52	54 - 6	2.12	11	19.39	58-9	3-59	
88	19-17	54.2	3 - 53	12	20.54	55-4	3.70	
89	12-15	55-5	2.18	13	16 - 66	56-4	2.96	
90	13 · 27	55-9	2⋅37]i	14	16.81	58.3	2.90	
91	12.76	56-0	2 - 27	15	20.85	54.2	3.86	
92	7-54	54-6	1-41	16	15.11	55.0	2.75	
93	10.55	54-5	1.93	17	10.96	56-1	1.95	
94	11-47	57-0	2-01	18	9-91	57.2	1.73	
95	14-47	54.4	2.66	19	9-93	58.7	1.68	
96	14.64	56.8	2.60	20	18-45	56.3	3.28	
97	19-85	58-0	3 - 43	21	11.93	58-1	2.06	
98,	19-08	56-1	3.39	22	11-03	58-2	1.90	
99	18-07	52-6	3-45	23	24.28	57-2	4 - 26	
1900	22.39	53.8	4.15	24	17.27	57.2	3.02	
01,,,,,	23-86	54.0	4-41	25	19-48	57.5	3.39	
02	31.03	52-2	5-94	26	17-87	57.5	3 - 12	
03	21.90	53-6	4 - 10	27	33-91	53 • 6	6.33	
04,,,,,,,	16-95	54.4	3 ⋅ 11 🖞	28	25.01	57.3	4 . 02	
05	17-07	53 - 8	3 ⋅ 18	29	11.79	56-5	2.08	
06	14-26	55-5	2.57	30	15 · 02	55.2	2.78	
07	13 - 33	53 - 1	2.51	31	12.64	56.2	2 . 25	
03,	21-53	56-4	3.82	32	20-30	55-7	3 - 64	

MEDICINE HAT.

				 			
1884-85	13 - 64	61-1	2.23	1909	10.42	61-9	1-68
86	6.49	64.8	1.00	10	5.43	64-8	0.84
87	8.97	59.6	1.50	11	13.08	62+3	2-10
88	15-17	60·0	2.53	12	13.07	62.9	2.08
89	8.84	61.3	1.44	18	14 - 13	64.2	2-20
90	6.81	62.2	i.09	14	9.44	65 - 6	1.44
91	13.87	60.9	2.28	15,	19.19	60-5	3.17
92	9.18	59.5	1.54	16	16.34	60.9	2.68
93	15.87	6ĭ · 6	2.50	17	9.89	64.5	1.53
94	13.93	64.2	2.17	18	12.94	63.6	2.03
95	15.48	60.2	2.57	19	8.36	67.0	1.25
96	14.86	62.4	2.38	20	11.14	63-7	1.75
97	16.41	63-1	2.60	21	11-36	65.6	1.73
98	16.35	62.0	2.64	22	11.88	65-0	1-83
99	20.90	59 4	3.52	23	16 72	65-5	2.55
1900	18.64	64.8	2.88	24	6.35	64.0	0.99
01	28.52	60.2	4.74	25	14.67	64.3	2.28
62	14.29	59.0	2.42	26	12.18	65.1	1.87
no	10.19	60.6	1-68	27	22.39	60.3	3.71
03	10.15	62.4	1.63	90	16.68	63-0	2.65
04				28	8.87	63.1	1.41
05	10.23	59.9	1.71	29		63.2	1.24
06	9.36	61-5	1.52	30	7.86	62-3	1.72
07	9.71	59-0	1-65	31	10.71		
08	9.33	63 - 7 (1.46	32	14+69 l	62-4	2 · 35

BATTLEFORD.

		1		ï		1	
1891-92	8-33	55 - 5	1.53	1902	15.08	56⋅1	2.68
93	12-17	58-8	2.07	03	14.63	57-4	2.56
94	13.33	61.8	2 · 16	04	17.24	57·5 ì	3.00
95	12.06	37-8	2.09	05	12.48	57 0	2-19
96	13.63	59.4	2.30	06	9 · 15	59-1	1.55
97	13.26	60.2	2-20	07	8.83	55.0	1.60
98.,,	17 - 13	59.5	2.58	08	17.76	59-2	3.00
99	13.91	57-1	2.44	09	13.87	59.2	2.34
1900,	20.81	60.2	3.46	10	8.59	58-8	1.46
01	18-77	59-1 l	3-23	11	18.75	57.4	3.27

Precipitation in Crop Years and Temperature in the Growing Period at Certain Western Points, together with Quotients when Precipitation is Divided by Temperature, 1883-4-1932-continued.

Note.—Quotients have in all cases been multiplied by 10.

BATTLEFORD—concluded.

22	21	20	19	18	17	16	15	14	13	1912	Year.
11:-51	19.65	19.24	6.49	10.94	11.40	12.76	17.07	12.04	13.99	18.53	Pla
61.2	61.6	\$0 \$0	62.3	57.5	£	57.1	58.0	61.7	57.9	8	B
1.88	3.19	3-28	1-04	1-90	1.88	53 53	2.94	1.95	2.42	2.26	۵
	32	31	30	29	28	27	26	25	24	1928	Year.
										17-97	Pis
	59·6	59.5	58.6	58.3 3	59.5	57-4	59·0	59:7	88 -	0.10	T ₃
	2:47	1.23	25.52	- 8:	2-19	2-50	<u>ب</u>	: \$	1.07	2.94	٥

PRINCE ALBERT.

99	08	07	06	05	04	03	02	01	1900	99	98	97	96	95	2	93	927	92	90	89	000	87	1885-86
20-02	20.59	17.50	22	25	19.94	15.78	19.62	25.54	24.62	23:19	17:36	13.92	20.75	11.19	11:40	9.33	13.81	12.07	15.55	9.53	12.32	16.29	8-49
57.3	57-4	53:1	57:5	8	26.2	8	55.4	50.5	55	8	57.6	57.4	57.8	56.4	59.2	57:3	14.4	54.9	53.3	54.6	65.9	54.6	\$6.0 0
3.44.0	3.59	3.30	4.04	1.64	3-55	85	3.54	4-37	23	4-18	3-01	2.42	3.59	1.98	1.83	į	2.56	2.20	2.92	1.74	2.20	2:98	1.52
	32	31.	30	28	20	27	26.	25	24	83	13	21	20	19	18	17	16	15	14	13	12	11	1910
_	20.70	14.40	15.58	11.78	12.94	18.20	13-16	17.90	10.04	15.37	17:03	25-34	18:56	11.10	12.76	12.02	17.99	12.65	15.84	17.94	19.41	12.81	11.19
	8:4	59-0	58.3	57.2	59.3	66-5	58-6	58.8	56.3	59.4	69.7	60-60	56 6	62.1	56.5	58.8	56-8	2.	59.4	57·5	57·7	56.4	57.4
	5.45 63	2-44	2-67	2:08	2.18	3.25 25	2.25	3· ₽	1.78	2.59	2.85	4.18	3·17	1.79	2:30	2. 2	3.17	2.32	2.67	3:10	3.36	2.27	1.96

SWIFT CURRENT.

9	86	07	26	05	04	03	02	01	1800	96	96	97	96	95	94	93	92	91	90	89	000	1886-87
19-75	13:68 -	13.91	15-05	16-62	14-74	16.34	20.01	19.82	15-16	16.56	17-84	15.53	98.	12.82	13.57	15-47	22.65	23.96	10.22	13.56	13.82	16.48
58-6	60-1	£	59.2	57-0	59.0	57.9	57.6	60.8	63.3	57-1	59-4	61.7	61-0	57.9	ස <u>:</u>	59.4	8.99	57.7	59.5	57.4	56.3	57.7
3.37	2.28	2.57	2.48	2.90	2.50	2.82	3.48	3.26	2.40	2·90	3 90	2.52	1-62	2.13	2.15	2.60	3.95	4-15	1.72	2.30	2-46	2.00
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14.	13	12	11	1910
19-15	11.22	12:30	12.24	17-58	21.74	15-21	16.38	11.21	16-98	18:03	11:54	11.91	12:20	11.66	14.29	21.30	17-18	8.25	14.63	15.02	13.18	15 55
0.19	62.8	8.69	59-3	61.0	57.9	61.2	0.30	57.5	61-3	59-8	82·1	8.5	64.0	60·0	59.7	57.0	56.0	61.8	59-0	58.7	86	59· 8
3.14	1.79	22:	2-07	2:48	3-76	2.49	2.48	1.95	2-77	3.01	-8	1-97	1.90	1.94	2.30	3.74	3-96	1.34	2.48	2.51	2-25	1.88

Precipitation in Crop Years and Temperature in the Growing Period at Certain Western Points, together with Quotients when Precipitation is Divided by Temperature, 1883-4-1932—continued.

Nors.-Quotients have in all cases been multiplied by 10.

QU'APPELLE.

Year.	P12	T3	Q	Year.	P ₁₂	T ₃	Q
1883-84	12.35	58.2	9.12	1909	23.96	56-6	4 · 23
85	14-30	56.0	2·12 2·55	1909 10 11 12 13 14 15 16 17 18 19	20.58	57.0	3.61
86	11.87	61.4	1.93		19.19	55.8	3,44
87	11.60	58-4	1.99	10			3-74
01,	17.62	55.8	3.16	19	21-12 20-32	56.4	3-74
88 89	10.60	57.9	1.83	13	20.88	56.6	
00	20.45		3.54	14		49.6	4.21
90 91		57.7		15	15-38	84.2	2-84
91	22 - 14	55.8	3.97	10	22.88	56.7	4.03
92 93	15.58	54.4	2.86	14	22-03	58.0	3.80
93	18.34	58.3	3 15	18	17-15	56.9	3-01
94	10.75	61.9	1.74	19	18-00 [62-5	2.88
95	16.87	56.6	2.98	20	17-55	59.0	2-97
96	20.02	58.7	3.41	2t	24-50	61-0	4-02
97	14 32	59-0	2.43	22	23 - 27	59-5	3.91
98	14 · 45	58-0	2.49	23	30-79	60.5	5-08
99	24 · 16	55 - 7	4.34	24	13-95	54.9	2.54
1900	13 - 79	61-5	2-24	25.,	19-51	58.0	3.36
01	28 33	60-4	4-69	26	15-24	57.8	2.64
02	27.37	56.4	4.85	27	22-80	55-5	4.11
03	15.60	56.8	2.75	28	22-13	58.9	3.76
04	25 - 41	57.3	4-43	29	7-00	56-1	1.25
05	23-15	55.4	3.64	30	15.54	57.1	2.72
06	22.74	58.2		31	9.60		1.60
		50.7	3.9[60.1	1.00
07	19.38	53·3 57·9	8.64	82	16.51	60-2	2.74
08	18-28	91.9 1	3-16 Ⅱ	<u>'</u>	<u>'</u>	<u>.</u> '.	
			MINNE	EDOSA.			
883-84	17.48	56-1	3-11	1909	16-95	58.9	2.88
	21.51	53.8	4.00	10	12-66	59∙1	2·14 2·88
86	12.55	58.2	2.16	11	16.62	57-8	2.88
89	16.71	57.9	2.89	10	21.58	58.1	3.73
00	16.33	54 - 1	3.02	12	16.56	57.8	3·73 2·86
80	10.39	57.9	1.79	14	16.20	60-8	2.66
00	17.61	56.7	3.11	47 *** * * * * * * * * * * * * * * * * *	16.49	55.0	3.00
90,,,,,,,,,,,,			3.11	10	19.94	57.5	3.47
81	20·01 11·93	54.5		10		57.8	2.36
92		54.2	2-20 [1(13-64		
93	14 - 45	59.4	2-43	18	12.77	56.1	2.28
94	15.76	61-4	2-57	19	16-41	62 · 3	2.63
	15 · 26	87.0	2-68		13 99	59.2	2.36
96	20.26	59.7	3.39	21	17-88	61.5	2-91
97	18-12	59.2	3-06	22	22-17	59.9	3.70
98	14.33	58.2	2-46	23	24.38	60-5	4.03
99	19-20	57-2	3.36	24	14-08	55 - 2	2.55
1900	13 - 82	61-0	2-27	25	19-06	56.6	3.37
01	25.75	60·7	4.24	26	10-46	58-6	1.78
02	21.22	57-4	3.70	27	25-93	55-4	4.68
03	15 98	58.0	2.81	28	20.03	58.4	3.43
04	23-43	57.8	4.05	29	9.96	56.3	1.77
95	15.57	56.8	2.74	30	14-94	58.5	2.55
00		\$0.5			9.85		1.66
06	19-57	58.7	3.33	31		59.4	
07	17.86	52.9	3.38	32	18-42	60⋅8	3.03
08	16-54	57.8	2-86		<u>ı</u>		
			WINN	PEG.			
872-73	24 · 64	61.7	3.99	1883	18.79	56-3	3.34
74	17.09	62.9	2.72	84	21.80	80.1	3.63
75,	18.22	60.1	3.03	85	25.36	57.8	4.39
76		60.4		86	11.66	61.8	1.89
76 77	23-67		3.92	80		62.0	
70	30.42	60-6	5.02	87	19.92		3.21
18	28.31	60.6	4-87	88	16.75	57.5	2.91
			4.68	89	14.66	59.8	2.45
78 79	28-38	60.7		00			
80	22.36	60.7	3 · 68	90	20.83	59.3	3.51
79 80 81				90			

Precipitation in Crop Years and Temperature in the Growing Period at Certain Western Points, together with Quotients when Precipitation is Divided by Temperature, 1883-4-1932—concluded.

Nore.-Quotients have in all cases been multiplied by 10.

WINNIPEG-concluded.

Year.	Ptz	T3	Q	Year,	P12	T ₂	Q
1893	25 · 23	61-0	4-14	1913	17-19	59.8	2.8
94	17 - 45	63 - 1	2.77	14	20.97	63.5	8.8
95.,	20-42	58.7	3-48	15	16.74	57.5	2.9
96	25 - 41	61.3	4 - 15	16	24 - 87	60.0	4.0
97	19.71	60-1	3.28	17	16.68	59.9	2.
98	18-20	59.7	3.05	18	15.97	58.0	2.1
99	25.91	59.8	4 33	19	23.38	64.9	3-4
1900	15.09	62.8	2.40	20	20.81	61.4	3.
01	27.78	62.6	4.44	21	21.17	64 - 1	ğ.:
02	19-98	60.0	3.33	22	21 - 13	63 - 6	3.
03	15-63	60.4	2.59	23	20-95	64.5	3.
04	24.00	59-3	4.05	24	12.39	56.4	2.
05	21.84	58.0	3.68	25	18·11	59.4	3.
08	21.90 l	59-8	3.67	26	15.73	61.5	2.
07	17.17	56.2	3.05	27	23.30	58.5	3.
08	19-59	60·4	3·24	28	24-83	60.9	4.
09	20-11	61.1	3.29	29	14-59	59.4	2.
10	20.53	62.0	8.31	30	21.19	61.7	ã.
11	24.71	61.5	4.02	31	15 73	61.4	2.
12	21 42	61.1	3.51	32	19.93	63.3	3.

10.—Weighted Quotients where Precipitation in Crop Year is Divided by Temperature in Growing Period, Expressed as a Percentage of Averages, 1886-1832.

Note.—For method of weighting see page 48. Qw has in all cases been multiplied by 100.

							
	EDMO	NTON.	CALC	ARY.	medicine hat.		
	Q _w	Per cent of Average.	Q.	Per cent of Average.	Q,	Per cent of Average.	
11							
1886	191	62	-	t -	-	i	
1887	210	69	219	72	145	70	
1888	306	l 100 f	282	93	193	93	
1889	238	78	262	87	181	87	
1890	260	85	250	83	145	1 70	
1891	318	104	229	76	174	84	
1860	307	100	186	62	l îżî	l š2	
1892	332	108	183	61	214	103	
1893					217	l 105	
1894	282	92	188	62		1117	
1895	277	91	231	76	243		
1896	272	89	252	38	241	116	
1897	268	88	302	100	252	122	
1898	234	76	328	109	258	125	
1899	242	79	342	113	807	148	
1900	362	118	379	125	305	147	
1901	470	153	415	137	392	189	
1902.	466	152	513	170	327	l 158	
	388	127 }	426	141	244	l iĭš	
1903					178	86	
1904	371	121	392	130		81	
1905	332	108	332	110	168		
1906	295	96	386	128	160	77	
1907	309	101	264	87	162	78	
1908	302	98 (318	105	153	74	
1909	286	93 [321	106	160	77	
1910.	232	76	234	77	156	75	
1911	292	1 95	273	96	161	78	
	328	107	326	108	188	91	
1912	346 357	117	382	126	214	108	
1913:			308	101	180	87	
19(4	365	119		112	248	117	
1915	385	126	339		240		
1916	352	115	314	104	204	128	
1917	342	112	253	84	220	106	

10.—Weighted Quotients where Precipitation in Crop Year is Divided by Temperature in Growing Period, Expressed as a Percentage of Averages, 1886-1932—continued.

Note.—For method of weighting see page 48. Qw has in all cases been multiplied by 100.

		NTON cluded.		ARY cluded.		NE HAT
Year.	Q.	Per cent of Average.	Q#	Per cent of Average.	Q _w	Per cent of Average.
1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931	316 295 329 315 254 276 284 306 281 345 383 289 241 264 297	103 96 107 103 83 90 93 100 92 112 109 94 79 96 97	197 174 249 240 218 310 324 341 319 476 464 343 273 238 302	65 58 82 79 72 103 107 118 106 158 153 113 90 79	197 156 163 166 178 217 164 189 286 287 221 153 151	95 75 79 80 86 105 79 91 89 138 139 107 74 73
	BATTL	EFORD.	PRI ALBI	NCE ERT.	CURI	IFT RENT.
1888 1889 1890 1890 1890 1891 1891 1992 1593 1894 1895 1897 1896 1897 1898 1899 1900 1901 1901 1902 1904 1905 1906 1907 1908 1909 1911 1911 1912 1912 1911 1911 1911	203 211 186 222 256 255 302 271 280 282 229 244 201 251 216 251 217 163 218 218 229 242 217 218 229 248 251 218 218 218 229 248 251 218 218 218 218 218 218 218 218 218 21	-99 92 97 112 132 138 130 118 132 110 107 88 109 107 88 109 107 109 94 109 108 95 71 111 115 80 94 87 99 98 44 87 71	234 210 241 250 250 250 250 274 274 274 274 274 275 276 277 277 277 277 276 286 293 293 293 293 293 293 294 294 294 294 294 294 294 294 294 294	84 75 86 84 89 72 69 68 98 98 104 125 143 140 119 118 88 13 117 127 124 99 109 104 84 71 122 120 120 104 80 80 88 88 88	248 206 304 364 331 260 222 188 216 261 287 227 277 275 262 259 262 228 228 228 228 231 227 234 225 228 228 228 229 199 199 199 245 241 225 225 226 227 227 240 241 241 242 242 243 244 245 247 247 247 247 248 249 249 249 249 249 249 249 249 249 249	

16.—Weighted Quotients where Precipitation in Crop Year is Divided by Temperature in Growing Period, Expressed as a Percentage of Averages, 1886-1932—concluded.

Note.—For method of weighting see page 48. Qw has in all cases been multiplied by 100.

	QU'Al	PPELLE.	. MINN	EDOSA.	WINNIPEG.		
Y еаг.	Q.	Per cent of Average.	Q.	Per cent of Average.	Q#	Per cent of Average.	
886	217	67	293	100	301	9	
887	206	63	283	97	297	9	
888	256	79	283	97	284	8	
889	230	71	238	81	273] 8	
890	291	89	265	90	306	9	
891	347	106	317	108	343	10	
892	334	102	284	97	370	11	
893	319	98	256	87	394	111	
894	240	74	246	85	339	10	
895	259	79	260	89	335	10	
896	297	16	302	103	370	11	
897	285	87	311	106	360	10	
898	262	80	281	96	331	10	
899	840	104	30t	103	373	11	
900	298	91	266	91	315		
106	381	117	844	117	374	1	
002	436	134	864	124	354	1	
903	877	116	385	114	314		
904	894	121	358	122	344	1 1	
905	375	115	319	109	362	1	
906	391	120	325	111	374 336	1 1	
907	373	114	326	111 106	325	"	
908	844	106	311	100	323		
220	377 374	116 115	296 251	85	329	1	
11	368	1111	263	90	366	í	
112	362	111	203 318	109	365	i	
13	361	111	315	107	327	1 7	
114	393	121	290	99	319		
15	842	105	286	98	303		
316	366	112	318	109	855	1	
17	372	114	283	97	823] -	
18	344	106	250	85	298		
19.	308	94	247	84	318	ł	
20	295	90	264	90	335	1	
21	348	107	268	91	338	1	
122	379	116	321	110	332	1	
923	451	138	373	127	328	! !	
924	361	111	323	110	274		
925	337	103	321	110	280	1 1	
926	286	88	244	83	266	1	
927	349	107	349	119	385	10	
928.,	369	113	357	122	379	1:	
929	256	79	281	96	325	'	
930.,	240	74	. 244	83	321	'	
931	191	59	197	67	283	1	
932	236	72	249	85	300	1	

11.—Values of Quotients where Precipitation is Divided by Temperature in Growing Period, Related to Sun-spot Maxima.

Year of Maximum.		Year	rs Be	fore.		Sun-spot Max.	Years After.				Place.		
Tear of Maximum,	5	4	3	2	1	Blax.	1	2	3	4	5	6	Time.
Maximum of 1893	25 25 40 35 32 30	24 14 13 22 18 18	_	42 23 39 23 40 37	40 15 25 14 29 22	26 25 36 19 32 24	22 22 24 20 17 26	21 26 27 27 30 27	16 24 28 26 34 34	25 26 26 34 24 31	30 26 20 34 25 25	29 35 26 35 43 34	Medicine Hat. Edmonton. Calgary. Qu'Appelle. Minnedosa.
Maximum of 1906		35				25			34				
Maximum of 1906,.	33 47 53 44 47 42	33 24 42 59 48 37	32 41 28	25 16 39 31 44 41	29 17 30 32 36 27	15	26 17: 34: 25: 36: 34:	23 15 29 38 32 29	34 17 27 30 42 29	17 8 19 14 36 21	23 21 37 36 34 29	25 21 35 37 37 37	Swift Current, Medicine Hat, Edmonton, Calgary, Qu'Appelle, Minnedosa,
Totals	266	245	174	196	171	164	172	166	179	115	189	192	
Maximum of 1917	25 21 35 37 37	25 22 36 30 36 29	13 14 37 29 42 27	31 82 40 39 28 80	37 27 31 27 40 35	24 15 34 20 38 24	19 20 30 17 30 23	19 13 28 17 29 26	20 18 37 33 30 24	19 17 29 21 40 29	30 18 19 19 39	28 26 33 43 51 40	Qu'Appelle,
Totals	192	178	162	200	197	155	139	132	162	155	162	221	
Maximum of 1928	28 26 33 48 51 40	20 10 29 80 25 26	25 23 31 34 34 34	25 19 26 81 26 18	38 37 41 63 41 47	25 27 30 40 38 34	21 14 24 21 13 18	21 12 22 27 27 26	18 17 30 23 16 17	31 24 32 36 27 30	11111	11111	Swift Current. Medicine Hat, Edmonton. Calgary. Qu'Appelle. Minnedosa.
Totals	221	140	181	145	267	194	111	135	121	180		-	
Mean Totals1	216	169	166	187	195	169	138	148	158	154	167	205	
General Means ¹ ,	36	28	28	31	33	28	23	25	26	26	28	34	

¹ These figures are plotted in the diagram shown on p. 52 and indicate that on the average we may expect poorer weather from the agricultural viewpoint in the years immediately following that of maximum sun spots. There is then a sharp rise to be expected at the time of minimum sun spots. This is followed by a drop and then a rise just before sun-spot maximum. The individual figures indicate, however, that this cycle is followed only in a very halting manner. The cyclic averages can not be used to predict the character of an individual year.

CHAPTER II. HISTORY AND CHRONOLOGY.

PART I.—HISTORY.

In the 1922-23 edition of the Canada Year Book, pp. 60-80, will be found an outline of the history of Canada, not reprinted here for lack of space.

A select bibliography of historical works relating to Canada was contributed by the late Adam Shortt, C.M.G., LL.D., F.R.S.C., Chairman of the Historical Documents Publication Board, Ottawa, to the 1925 edition of the Canada Year Book, where it appears on pp. 53-55.

PART II.—CHRONOLOGY, 1497 to 1932.

- 1497. June 24, Eastern coast of North America discovered by John Cabot.
- 1498. Cabot discovers Hudson strait.
- 1501. Gaspar Corte Real visits Newfoundland and Labrador.
- 1524. Verrazano explores the coast of Nova Scotia
- 1534. June 21, Landing of Jacques Cartier at Esquimaux bay.
- 1535. Cartier's second voyage. He ascends the St. Lawrence to Stadacona (Quebee), (Sept. 14) and Hochelaga (Montreal), (Oct. 2). 1541. Cartier's third voyage.
- 1542-3. De Roberval and his party winter at cape Rouge, and are rescued by Cartier on his fourth voyage.
- 1557. Sept. 1, Death of Cartier at St. Malo,
- France.
 1592. Straits of Juan de Fuca discovered by de Fuca
- 1603. June 22, Champlain's first landing in Canada, at Quebec.
- 1605. Founding of Port Royal (Annapolis, N.S.)
- 1608. Champlain's second visit. July 3, Founding of Quebec.
- 1609. July, Champlain discovers lake Champlain.
- 1610-11. Hudson explores Hudson bay and
- James bay. 1611. Brûlé ascends the Ottawa river.
- 1612. Oct. 15, Champlain made Lieutenant-General of New France.
- 1613. June, Champlain ascends the Ottawa river.
- 1615. Champlain explores lakes Nipissing, Huron and Ontario (discovered by Brûlé and Le Caron).
- 1616. First schools opened at Three Rivers and Tadoussac.
- 1620. Population of Quebec, 60 persons. 1621. Code of laws issued and register of births, deaths and marriages opened in Quebec. Nova Scotia granted to Sir William Alexander by King James I.
- 1622. Lake Superior discovered by Brûlé.
 1623. First British settlement of Nova
- Scotia. 1627. New France and Acadia granted to the Company of 100 Associates.

- 1628. Port Royal taken by Sir David Kirke. 1629. April 24, Treaty of Susa between
 France and England. July 20, Quebec taken by Sir David Kirke.
- 1632. Mar. 29, Canada and Acadia restored to France by the Treaty of St. Germain-en-Laye.
- 1633. May 23, Champlain made first Gover-nor of New France.
- 1634. July 4. Founding of Three Rivers.
- 1634-35. Exploration of the Great Lakes by Nicolet. 1635. Dec. 25, Death of Champlain at Que-
- bec. 1638. June 11, First recorded earthquake in
- Canada. 1640. Discovery of lake Erie by Chaumonot
- and Brébeuf. 1641. Resident population of New France.
- 240. 1642. May 17, Founding of Ville-Marie (Montreal).
- 1646. Exploration of the Saguenay by Dablon.
- 1647. Lake St. John discovered by de Quen. 1648. Mar. 5, Council of New France created. 1649. Mar. 16-17, Murder of Fathers Brébeuí
- and Lalemant by Indians.

 1654. Aug., Acadia taken by an expedition from New England.
- 1655. Nov. 3, Acadia restored to France by the Treaty of Westminster.
- 1659. June 16, François de Laval arrives in Canada as Vicar-Apostolic.
 1660. May 21, Dollard des Ormeaux and six-
- teen companions killed at the Long
- Sault, Ottawa river.

 1663. Company of 100 Associates dissolved.
 Feb. 5, Severe earthquake. April,
 Sovereign Council of New France
 established. Population in New
 France, 2,500, of whom 800 were in Quebec.
 - 1664. May, Company of the West Indies founded.
 - 1665. Mar. 23, Talon appointed Intendant. 1666, Feb.-Mar., First census. Population of New France, 3, 215.
- 1667. July 21, Acadia restored to France by the Treaty of Breda. Sept.-Oct., Sept.-Oct., Second census: white population of New France, 3,918.

- 1668. Mission at Sault Ste. Marie founded by Marquette.
- 1670. May 13, Charter of the Hudson's Bay
- Company granted.
 1671. Population of Acadia, 441.
 1672. Population of New France, 6,705.
 April 6, Comte de Frontense, Gov-ATBOT.
- 1673. June 13. Cataraqui (Kingston) founded.
- 1674. Oct. 1, Laval becomes first Bishop of Quebec.
- 1675. Population of New France, 7,832.
- 1678. Niagara Falls visited by Hennepin. 1679. Ship Le Griffon built on Niagara river above the falls by La Salle. Third census; population of New France, 9.400; of Acadia, 515.
- 1681. Fourth census; population of New France, 9,677.
- 1682. Frontenac recalled.
- 1683. Population of New France, 10,251.
- 1685. First issue of card money. Fifth census, population of New France, 12,263, including 1,538 settled Indians.
- 1686. Population of New France, 12,373; of Acadia, 885.
- 1687. Mar. 18, La Salle assassinated.
- 1688. Sixth census; population of New France, 11.562, including 1.259 settled Indians.
- 1689. June 7, Frontenac re-appointed Governor. Aug. 5, Massacre of whites by Indians at Lachine.
- 1690. May 21, Sir William Phips captures Port Royal, but is repulsed in an attack on Quebec (Oct. 16-21).
- 1692. Seventh census; population of New France, 12,431. Oct. 22. Defence of Verchères against Indians by Madeleine de Verchères.
- 1693. Population of Acadia, 1.009.
- 1695. Eighth census; population of New France, 13,639, including 853 settled
- 1697. Sept. 20, By the Treaty of Ryswick, places taken during the war were mutually restored. D'Iberville de-feats the Hudson's Bay Co.'s ships on Hudson bay.
- 1698. Nov. 28. Death of Frontenac. Ninth census; population of New France, 15,355.
- 1701. La Motte Cadiliae builds a fort at Detroit.
- 1703. June 16, Sovereign Council of Canada becomes Superior Council and membership increased from 7 to 12.
- 1706. Tenth census; population of New France, 16,417.
- 1709. British invasion of Canada.
- 1710. Oct. 13, Port Royal taken by Nichol-
- 1711. Sept. 1. Part of Sir H. Walker's fleet. proceeding against Quebec, wrecked off the Seven Islands.

- 1713. April 11, Treaty of Utrecht; Hudson bay, Acadia and Newfoundland ceded to Great Britain. Aug., Louisbourg founded by the French.
 Population of New France, 18,119.
 1719. Census population of New France,
 - 22,530.
- 1720. Population of New France, 24,234; of Isle St. Jean (P.E.I.), about 100. April 25, Governor and Council of
- Nova Scotia appointed. 1721. June 19, Burning of about one-half of Montreal. Census population of New France, 24,951.
- 1727. Population of New France, 30,613.
- 1728. Population of Isle St. Jean (P.E.I.), 330.
- 1731. Population of the north of the peninsula of Acadia, 6,000.
- 1734. Road opened from Quebec to Montreal. Census population of New France, 37,716.
- 1737. Iron smelted on St. Maurice. French population of the north of the Acadia peninsula, 7,598.
- 1739. Census population of New France. 42,701
- 1743. De la Vérendrye discovers the Rocky mountains.
- June 17, Taking of Louisbourg by Pep-perell and Warren.
- 1748. Oct. 18, Treaty of Aix-la-Chapelle. Louisbourg restored to France in exchange for Madras.
- 1749. June 21, Founding of Halifax—British immigrants brought to Nova Scotia by Governor Cornwallis, 2,544 per-
- sons. Fort Rouillé (Toronto) built. 1750. St. Paul's church, Halifax (oldest
- Anglican church in Canada), built.

 1752. Mar. 25, Issue of the Halifax "Gazette", first paper in Canada. British and German population of Nova Scotia, 4,203.
- 1754. Census population of New France, 55,009.
- 1755. June 16, Surrender of Fort Beauséjour on the isthmus of Chignecto to the British. Sept. 10, Expulsion of the Acadians from Nova Scotia.
- 1756. Seven Years' War between Great Britain and France begins.
- 1758. July 26, Final capture of Louisbourg by the British. Oct. 7. First meeting of the Legislature of Nova Scotia.
- 1759. July 25, Taking of Fort Niagara by the British. July 26, Beginning of the siege of Quebec. July 31, French victory at Beauport Flats. Sept. 13, Defeat of the French on the Plains of Abraham. Death of Wolfe. Sept. 14, Death of Montealm. Sept. 18, Surrender of Quebec.
- 1760. April 28, Victory of the French under Lévis at Ste. Foy. Sept. 8, Surrender of Montreal. Military rule set up in Canada.
- 1762. British population of Nova Scotia, 8.104. First British settlement in New Brunswick.

1763. Feb. 10, Treaty of Paris, by which Canada and its dependencies are ceded to the British. May, Rising of Indians under Pontiac, who take a number of forts and defeat the British at Bloody Run (July 31). Oct. 7, Civil government pro-claimed. Cape Breton and Isle St. Jean annexed to Nova Scotia; Labrador, Anticosti and Magdalen islands to Newfoundland. Nov. 21, General James Murray appointed Governor in Chief. First Canadian post offices established at Montreal, Three Rivers and Quebec.

1764. June 21, First issue of the Quebec 'Gazette". Aug. 13, Civil govern-

ment established.

1765. Publication of the first book printed in Canada, "Catéchisme du Diocèse de Sens". May 18, Montreal nearly destroyed by fire. Population of Canada, 69,810.

1766. July 24, Peace made with Pontiac at

Ŏswego.

1768. Charlottetown, P.E.I., founded. April Great fire at Montreal. April 12. Sir Guy Carleton (Lord Dorchester) Governor in Chief.

1769. Isle St. Jean (Prince Edward Island) separated from Nova Scotia.

1770-72. Hearne's journey to the Coppermine and Slave rivers and Great Slave lake.

1773. Suppression of the order of Jesuits in Canada and escheat of their estates.

1774. June 22, The Quebec Act passed. 1775. May 1, The Quebec Act comes into force. Outbreak of the American Montgomery Revolution. and Arnold invade Canada. Nov. 12, Montgomery takes Montreal; Dec. 31, Is defeated and killed in an attack on Quebec.

1776. The Americans are defeated and driven from Canada by Carleton. 1777. Sept. 18, General Frederick Haldi-mand Governor in Chief.

1778. Captain Jas. Cook explores Nootka sound and claims the northwest coast of America for Great Britain. June 3, First issue of the Montreal "Gazette"

1783. Sept. 3, Treaty of Versailles, recognizing the independence of the United States. Organization of the Northwest Company at Montreal. Kingston, Ont., and Saint John, N.B., founded by the United Empire Loyalists.

1784. Population of Canada, 113,012. Aug. 16, New Brunswick and (Aug. 26) Cape Breton separated from Nova

Scotia.

1785. May 18, Incorporation of Parrtown

(Saint John, N.B.).

1786. April 22, Lord Dorchester again Governor in Chief. Oct. 23, Government of New Brunswick moved from Saint John to Fredericton. 1787. C. Inglis appointed Anglican Bishop of Nova Scotia—the first colonial bishopric in the British Empire.

1788. King's College, Windsor, N.S., opened. Sailing packet service established between Great Britain and Halifax.

1789. Quebec and Halifax Agricultural

Societies established.

1790. Spain surrenders her exclusive rights on the Pacific coast. Population of Canada, 161,311. (This census does not include what becomes in the next year Upper Canada).

1791. The Constitutional Act divides the province of Quebec into Upper and Lower Canada, each with a lieutenant-governor and legislature. The Act goes into force Dec. 26. Sept. 12, Colonel J. G. Simcoe, first Lieutenant-Governor of Upper Canada.

1792. Sept. 17, First Legislature of Upper Canada opened at Newark (Niagara). Dec. 17, First Legislature of Lower Canada opened at Quebec. Vancouver island circum-

navigated by Vancouver.
1793. April 18, First issue of the "Upper Canada Gazette". June 28, Jacob Mountain appointed first Anglican Bishop of Quebec. July 9, Importation of slaves into Upper Canada forbidden. Rocky mountains forbidden. crossed by (Sir) Alexander Mac-kenzie, who reaches the Pacific ocean. York (Toronto) founded by Simcoe.

1794. Nov. 19, Jay's Treaty between Great Britain and the United States.

1795. Pacific coast of Canada finally given up by the Spaniards.

1796. Government of Upper Canada moved from Niagara to York (Toronto).

from Niagara to 1012 (2017) 1798. St. John's island (Isle St. Jean, popu-Edward island.

1300. Founding of New Brunswick College, Fredericton (now University of N.B.). The Rocky mountains N.B.). crossed by David Thompson.

1803, Settlers sent by Lord Selkirk to Prince Edward island. 1806. Nov. 22, Issue of "Le Canadien" first wholly French newspaper. Population—Upper Canada, 70,718; Lower Canada, 250,000; New Brunswick, 35,000; P.E.I., 9,676. 1807. Simon Fraser explores the Fraser

Estimated population of river.

Nova Scotia, 65,000.

1809. Nov. 4, First Canadian steamer runs

from Montreal to Quebec.

1811. Lord Selkirk's Red River settlement founded on land granted by Hudson's Bay Company.

1812. June 18, Declaration of war by the United States. July 12, Americans under Hull cross the Detroit river. Aug. 16, Detroit surrendered by Hull to Brock. Oct. 13, Defeat of the Americans at Queenston Heights and death of Gen. Brock.

1813. Jan. 22, British victory at French-town. April 27, York (Toronto) taken and burned by the Americans. June 5, British victory at Stoney Creek. June 24, British, warned by Laura Secord, capture an American force at Beaver Dams. Sept. 10, Commodore Perry destroys the British flotilla on lake Erie. Oct. 5, Americans under Harrison defeat the British at Mora-viantown. Tecumseh killed. Oct. 26, Victory of French-Canadian troops under de Salaberry at Chateauguay. Nov. 11, Defeat of the Americans at Crysler's Farm. British storm Fort Niagara and burn Buffalo.

1814. Mar. 30, Americans repulsed at La Colle. May 6, Capture of Oswego by the British. July 5, American victory at Chippawa. July 25, British victory at Lundy's Lane. July, British from Nova Scotia invade and occupy northern Maine. Sept. 11, British defeat at Platts-burg on lake Champlain. Dec. 24, Treaty of Ghent ends the war. Population—Upper Canada, 95,000;

Lower Canada, 335,000.
1815. July 3, Treaty of London regulates trade with the United States. The Red River settlement destroyed by the Northwest Company but restored by Governor Semple.

1816. June 19, Governor Semple killed. The Red River settlement again des-

troyed.
1817. July 18, First treaty with the Northwest Indians. Lord Setkirk restores the Red River settlement. Opening of the Bank of Montreal; first note issued Oct. 1. Population of Nova Scotia, 81,351. Rush-Bagot Convention with the United States, limiting naval armament on the Great Lakes, is signed.

1818. Oct. 20, Convention at London regulating North American fisheries. Dalhousie College, Halifax, founded. Bank of Quebee founded. 1819-22. Franklin's overland Arctic expedi-

tion.

1820. Oct. 16, Cape Breton re-annexed to Nova Scotia.
1821. Mar. 26, The Northwest Company absorbed by the Hudson's Bay Company. Charter given to Mc-Gill College.

1822. Population of Lower Canada, 427,465. 1824. Population of Upper Canada, 150,066;

of New Brunswick, 74,176.
1825. Oct. 6, Great fire in the Miramichi district, N.B. Opening of the Lachine canal. Population of Lower Canada, 479,288.

1826. Founding of Bytown (Ottawa).

1827. Sept. 29. Convention of London relating to the territory west of the Rocky mountains. Population of Nova Scotia, including Cape Breton, 123,630.

1828. The Methodist Church of Upper Canada separated from that of the

United States.

1829. Nov. 27, First Welland canal opened.
McGill University opened. Upper

Canada College founded.

1831. June 1, The North Magnetic Pole discovered by (Sir) James Ross.

Population—Upper Canada, 236,702; Lower Canada, 553,131; Assiniboia. 2.390.

1832. Outbreak of cholera in Canada. Incorporation of Quebec and Montreal. Bank of Nova Scotia founded. May 30, Opening of the Rideau canal.

1833. Aug. 18, The steamer Royal William, built at Quebec, crosses the Atlantic

from Pictou to England. 1834. Feb. 21, The Ninety-two Resolutions on public grievances passed by the Assembly of Lower Canada. Mar. 6, Incorporation of Toronto. Population of Upper Canada, 321,145; of New Brunswick, 119,457; of Assini-

boia, 3,356. 1836. July 21, Opening of the first railway in Canada from Laprairie to St. John's, Que. Victoria University opened at Cobourg (afterwards moved to Toronto).

1837. Report of the Canada Commissioners. Rebellion in Lower Canada (Papineau) and Upper Canada (W. L. Mackenzie). Nov. 23, Gas lighting

first used in Montreal.

1838. Feb. 10, Constitution of Lower Canada suspended and Special Council created. Mar. 30, The Earl of Durham Governor in Chief. April 27, Martial law revoked. June 28, Amnesty to political prisoners pro-claimed. Nov. 1, Lord Durham, censured by British Parliament, Population-Upper Canresigns. ada, 339,442; Assiniboia, 3,966; Nova Scotia, 202,575. 1839. Feb. 11, Lord Durham's report sub-

Parliament. mitted to Strachan ordained first Anglican Bishop of Toronto.

1840. July 23, Passing of the Act of Union, First ship of the Cunard line arrives at Halifax. July 28, Death of Lord Durham.

1841. Feb. 10, Union of the two provinces as the province of Canada, with Kingston as capital. Feb. 13, Draper-Ogden administration. April 10, Halifax incorporated. June 13, Meeting of the first United Parliament. Sept. 19, Death of Lord Sydenham. Population of Upper Canada, 455,668; of P.E.I., 47,042.

1842. Mar. 10, Opening of Queen's University, Kingston. Aug. 9, The Ash-burton Treaty. Sept. 16, Baldwin-Lafontaine administration.

1843. June 4, Victoria, B.C., founded. Dec. 12, Draper-Viger administration. King's (now University) College, Toronto, opened.

1844. May 10, Capital moved from Kingston to Montreal. Knox College, Toronto, founded. Population of Lower Canada, 697,084. 1845. May 28 and June 28, Great fires at

Quebec. Franklin starts on his last

Arctic expedition. 1846. May 18, Kingston incorporated. June 15, Oregon Boundary Treaty. June 18, Draper-Papineau administration. First telegraph line, operated by the Toronto, Hamilton, Niagara and St. Catharines Telegraph Co., opened.

1847. May 29, Sherwood-Papineau administration. Nov. 25, Montreal-Lachine

Railway opened.

1848. Mar. 11, Latontaine-Baldwin administration. May 30, Fredericton in-corporated. Responsible govern-ment granted to Nova Scotia and New Brunswick.

1849. April 25, Signing of the Rebellion Losses Act; rioting in Montreal and burning of the Parliament buildings. Nov. 14, Toronto made the capital. Vancouver island granted to the Hudson's Bay Com-pany. Population of Assiniboia, 5,391.

1851. April 6, Transfer of the postal system from the British to the Provincial Government; uniform rate of postage introduced. April 23, Postage stamps issued. Aug. 2, Incorpor-ation of Trinity College, Toronto. Sept. 22, Quebec becomes the capital. Oct. 28, Hincks-Morin administration. Responsible government granted to Prince Edward Island. Population—Upper Canada, 952,004; Lower Canada, 890,261; New Brunswick, 193,800; Nova Scotia, 276,854.

1852. July 8, Great fire at Montreal. Dec. 8, Laval University, Quebec, opened. The Grand Trunk Railway char-

tered.

1854. June 5, Reciprocity Treaty with the United States. Sept. 11, MacNab-Morin Ministry. Seigneurial tenure in Lower Canada abolished. Secularization of the clergy reserves.

1855. Jan. 1, Incorporation of Ottawa. Jan. 27, MacNab-Taché administration. Mar. 9, Opening of the Niagara Railway suspension bridge. April 17, Incorporation of Charlottetown. Oct. 20, Government moved to Toronto.

1856. The Legislative Council of Canada is made elective. First meeting of the Legislature of Vancouver island. May 24, Taché-J. A. Macdonald administration. Oct. 27, Opening of the Grand Trunk Railway from Montreal to Toronto. Population of Assiniboia, 6,691.

1857. Nov. 26, J. A. Macdonald-Cartier administration. Dec. 31, Ottawa chosen by Queen Victoria as future capital of Canada.

1858. Feb., Discovery of gold in Fraser River valley. July 1, Introduction of Canadian decimal currency. Aug. 2, Brown-Dorion administra-tion. Aug. 5, Completion of the Atlantic cable; first message sent. Aug. 6, Cartier-J. A. Macdonald administration. Aug. 20, Colony of British Columbia established. Control of Vancouver island surrendered by the Hudson's Bay Company.

1859. Jan., Canadian silver coinage issued. Sept. 24, Government moved to

Quebec.

1860. Aug. 8, The Prince of Wales (King Edward VII) arrives at Quebec. Sept. 1, Laying of the corner stone of the Parliament buildings at Ottawa by the Prince of Wales. Prince of Wales College, Charlottetown, founded.

1861. Aug. 14, Great flood at Montreal. Sept. 10, Meeting of the first Anglican provincial synod. Population-Upper Canada, I.396,091; Lower Canada, 1,111,566; New Brunswick, 252,047; Nova Scotia, 330,857; Prince Edward Island, 80,857. 1862. May 24, Sandfield Macdonald-Sicotte

administration. Aug. 2, Victoria,

B.C., incorporated.

1863. May 16, Sandfield Macdonald-Dorion administration.

1864. Mar. 30, Taché-J. A. Macdonald administration. Conferences on con-federation of British North America; Sept. 1, at Charlottetown; Oct. 10-29, at Quebec. Oct. 19, Raid of American Confederates from Canada on St. Albans, Vermont.

1865. Feb. 3, The Canadian Legislature resolves on an address to the Queen praying for union of the provinces of British North America. Aug. 7, Belleau-J.A. Macdonald administration. Oct. 20, Proclamation fixing the seat of government at Ottawa.

1866. Mar. 17, Termination of the Reciprocity Treaty by the United States.
May 31, Raid of Fenians from the
United States into Canada; they are defeated at Ridgeway (June 2) and retreat across the border (June June 8, First meeting at Ottawa of the Canadian Legislature. Nov. 17, Proclamation of the union of Vancouver island with British Columbia.

1867. Mar. 29, Royal assent given to the British North America Act. July 1, The Act comes into force; Union of the provinces of Canada, Nova Scotia and New Brunswick as the Dominion of Canada; Upper and Lower Canada made separate provinces as Ontario and Quebec; Viscount Monck first Governor General, Sir John A. Macdonald, Premier. Nov. 6, Meeting of the first Dominion Parliament.

1868. April 7, Murder of D'Arcy McGee at July 31, The Rupert's Ottawa. Land Act authorizes the acquisition by the Dominion of the Northwest Territories.

1869. June 22, Act providing for the government of the Northwest Territories. Nov. 19, Deed of surrender to the Crown of the Hudson's Bay Com-pany's territorial rights in the Northwest. Outbreak of the Red River Rebellion under Riel.

1870. May 12, Act to establish the province of Manitoba. July 15, Northwest Territories transferred to the Dominion and Manitoba admitted into Confederation. Sept. 24, Wolseley's expedition reaches Fort Garry (Win-

nipeg); end of the rebellion. 1871. April 2, First Dominion census (populations at this and succeeding enumerations given on p. 102). April 14, Act establishing uniform currency in the Dominion. May 8, Treaty of Washington, dealing with questions outstanding between the United Kingdom and the United States. July 20, British Columbia enters Confederation.

1873. Mar. 5, Opening of the second Dominion Parliament. May 23, Act estab-lishing the Northwest Mounted Police. July 1, Prince Edward Island enters Confederation. Nov. 7, Alexander Mackenzie becomes Prime Minister. Nov. 8, Incorporation of Winnipeg.

1874. Mar. 26, Opening of the third Dominion Parliament. May, Ontario Ag-

ricultural College, Guelph, opened. 1875. April 8, The Northwest Territories Act establishes a Lieutenant-Governor and Council of the Northwest Territories. April-May, Letting of first contract and commencement of work upon the Canadian Pacific Railway as a Government line. Work commenced at Fort William. June 15, Formation of the Presby-terian Church of Canada.

1876. June 1, Opening of the Royal Military College, Kingston. June 5, First sitting of the Supreme Court of Canada. July 3, Opening of the Intercolonial Railway from Quebec

to Halifar.

1877. June 20, Great fire at Saint John, N.B. Oct., First exportation of wheat from Manitoba to the United Kingdom. Founding of the University of Manitoba.

1878. July 1, Canada joins the International Postal Union. Oct. 17, Sir John A. Macdonald becomes Prime Minister.

1879. Feb. 13, Opening of the fourth Domin-ion Parliament. May 15. Adoption of a protective tariff ("The National Policy").

1880. Royal Canadian Academy of Arts founded; first meeting and exhi-bition, Mar. 6. May 11, Sir A. T.

Galt appointed first Canadian High Commissioner in London. Sept. 1. All British possessions in North America and adjacent islands. except Newfoundland and its dependencies, annexed to Canada by Imperial Order in Council of July 31. Oct. 21, Signing of the contract with the present Canadian Pacific Railway Co. for the completion of the Canadian Pacific Railway.

1881. April 4, Second Dominion census.

May 2, First sod of the Canadian Pacific Railway as a company line

turned.

1882. May 8, Provisional districts of Assiniboia, Saskatchewan, Athabaska and Alberta formed. May 25, First meeting of the Royal Society of Canada. Aug. 23, Regina established as seat of government of Northwest Territories.

1883. Feb. 1, Opening of the fifth Dominion Parliament. Sept. 5, Formation of the Methodist Church in Canada;

united conference.

1884. May 24, Sir Charles Tupper High Commissioner in London. Aug. 11, Order in Council settling the boundary of Ontario and Manitoba.

1885. Mar. 26, Outbreak of Riel's second rebellion in the Northwest. April 24, Engagement at Fish Creek. May 2, Engagement at Cut Knife. May 12, Taking of Batoche. May 16, Surrender of Riel. Aug. 24, First census of the Northwest Territories. Nov. 16, Execution of Riel.

1886. April 6, Incorporation of Vancouver. June 7, Archbishop Taschereau of Quebec made first Canadian Cardinal. June 13, Vancouver de-stroyed by fire. June 28, First through train of the Canadian Pacific Railway from Montreal to Vancouver. July 31, First quin-quennial census of Manitoba.

1887. Interprovincial Conference at Quebec. April 4, First Colonial Conference in London. April 13, Opening of the sixth Dominion Parliament.

1988. Feb. 15, Signing of Fishery Treaty United Kingdom between between United Linguistan Aug., United States at Washington. Aug., Paication of Fishery Treaty by and Rejection of Fishery United States' Senate.

1890. Mar. 31, The Manitoba School Act abolishes separate schools.

1891, April 5, Third Dominion census.

April 29, Opening of the seventh
Dominion Parliament. June 6,
Death of Sir John A. Macdonald. June 15, Sir John Abbott becomes Prime Minister.

1892. Feb. 29, Washington Treaty, providing for arbitration of the Behring Sea Seal Fisheries question. July 22, Boundary convention between Canada and United States. Nov. 25, Sir John Thompson becomes Prime Minister.

- 1893. April 4, First sitting of the Behring Sea Arbitration Court. Dec. 18, Archbishop Machray, of Rupert's Land, elected first Anglican Primate of all Canada.
- 1894. June 28, Second Colonial Conference at Ottawa. Dec. 12, Death of Sir John Thompson at Windsor Castle. Dec. 21, (Sir) Mackenzie Bowell becomes Prime Minister.
- 1895. Sept. 10, Opening of new Sault Ste. Marie canal. Oct. 2, Proclamation naming the Ungava, Franklin, Mackenzie and Yukon districts of Northwest Territories.
- I896. April 24, Sir Donald Smith (Lord Stratheona) High Commissioner in London. April 27, Sir Charies Tupper becomes Prime Minister. July 11 (Sir) Wilfrid Laurier becomes Prime Minister. Aug., Gold discovered in the Klondyke. Aug.

 19, Opening of the eighth Dominion Parliament.
- 1897. July, Third Colonial Conference in London. Dec. 17, Award of the Behring Sea Arbitration Court.
- 1898. June 13, The Yukon district established as a separate territory. Aug. 1, The British Preferential Tariff goes into force. Aug. 23, Meeting at Quebec of the Joint High Commission between Canada and the United States. Dec. 25, British Imperial penny (2 cent) postage introduced.
- 1899. Oct. 1, Mgr. Diomède Falconio arrived at Quebec as first permanent Apostolic Delegate to Canada. Oct. 11, Beginning of the South African War. Oct. 29, First Canadian contingent leaves Quebec for South Africa.
- 1900. Feb. 27, Battle of Paardeberg. April 26, Great fire at Ottawa and Hull.
- 1901. Jan. 22, Death of Queen Victoria and accession of King Edward VII.
 Feb. 6, Opening of the ninth Dominion Parliament. April 1. Fourth Dominion census. Sept. 16-Oct. 21, Visit to Canada of the Duke and Duchess of Cornwall and York (King George V and Queen Mary).
- 1902. May 31, End of South African War; peace signed at Vereeniging. June 30, Meeting of fourth Colonial Conference in London.
- 1903. Jan. 24, Signing of the Alaskan Boundary Convention. June 19, Incorporation of Regina. Oct. 20, Award of the Alaskan Boundary Commission.
- 1904. Feb. 1, Dominion Railway Commission established. April 19, Great fire in Toronto. Oct. 8, Incorporation of Edmonton.
- 1905. Jan. 11. Opening of the tenth Dominion Parliament. Sept. 1, Creation of the provinces of Alberta and Saskatchewan.

- 1906. University of Alberta founded. Oct. 8, Interprovincial Conference at Ottawa.
- 1907. April 15-May 14, Fifth Colonial Conference in London. New customs tariff, including introduction of intermediate tariff. Sept. 19, New commercial convention with France signed at Paris. Oct. 17, First message by wireless telegraphy between Canada and the United Kingdom. University of Saskatchewan founded.
- 1908. Jan. 2, Establishment of Ottawa branch of Royal Mint. June 21-23, Bicentenary of Bishop Laval celebrated at Quebec. July 20-31, Quebec tercentenary celebrations; visit of Prince of Wales to Quebec. Aug. 2, Great fire in Kootenay Valley, B.C. University of British Columbia founded.
- 1909. Jan. 11, Signing of International Boundary Waters Convention between Canada and United States. Jan. 20, Opening of 11th Dominion Parliament. July 28, Conference on Imperial defence in London.
- 1910. May 6, Death of King Edward VII and accession of King George V. June 7, Death of Goldwin Smith. Sept. 7, North Atlantic Coast Fisheries Arbitration Award of the Hague Tribunal. New trade agreements made with Germany, Belgium, Holland and Italy.
- 1911. May 23-June 20, Imperial Conference in London. June 1, Fifth Dominion census. July 11, Disastrous fires in Porcupine district. Sept. 21, General election. Oct. 10, (Sir) R. L. Borden, Prime Minister. Oct. 11, Inauguration at Kitchener of Outario hydro-electric power transmission system. Nov. 15, Opening of twelfth Dominion Parliament.
- 1912. April 15, Loss of the steamship Titanic: Appointment of Dominions Royal Commission. May 15, Extension of the boundaries of Quebec, Ontario and Manitoba.
- 1913. April 10, Japanese Treaty Act assented to. June 2, Trade agreement with West Indies came into force.
- 1914. May 20, Loss of the steamship Empress of Ireland. Aug. 4, War with Germany; Aug. 12, with Austria-Hungary; Nov. 5, with Turkey. Aug. 18-22, Special war session of Canadian Parliament. Oct. 16, First Canadian contingent of over 33,000 troops lands at Plymouth, Eng.
- 1915. Feb., First Canadian contingent lands in France and proceeds to Flanders. April 22, Second Battle of Ypres. April 24, Battle of St. Julien. May 20-26, Battle of Festubert. June 15, Battle of Givenchy.

- 1916. Jan. 12, Order in Council authorizing increase in number of Canadian troops to 500,000. Feb. 3, Destruction of the Houses of Parliament at Ottawa by fire. April 3-20, Battle of St. Eloi. June 1, Census of Prairie Provinces. June 1-3, Battle of Sanctuary Wood. July 1, Commencement of the Battle of the Somme. Sept. 1, Cornerstone of new Houses of Parliament laid by Duke of Connaught.
- 1917. Feb. 12-May 15, Imperial Conference. Mar. 20-May 2, Meetings in London of Imperial War Cabinet. Mar. 21-April 27, Imperial War Conference. April 6, United States declares war against Germany. April 9, Capture of Vimy Ridge. June 21, Appointment of Food Controller. Aug. 15, Battle of Loos, capture of Hill 70. Aug. 29, Passing of Military Service Act. Sept. 20, Completion of Quebec bridge; Parliamentary franchise extended to women. Oct. 26-Nov. 10, Battle of Passchendaele. Dec. 6, Disastrous explosion at Halifax, N.S. Dec. 17, General election and Union Government sustained.
- 1918. Mar. 18, Opening of first session of thirteenth Parliament. Mar. 31, Germans launch critical offensive on West Front. March-April, Second Battle of the Somme. April 17, Secret session of Parliament. June-July, Prime Minister and colleagues attend Imperial War Conference in London. July 18, Allies assume successful offensive on West Front. Aug. 12, Battle of Amiens. Aug. 26-28, Capture of Monchy le Preux. Sept. 2-4, Breaking of Drocourt-Quéant line. Sept. 16, Austrian peace note. Sept. 27-29, Capture of Bourlon Wood. Sept. 30, Bulgaria surrenders and signs armistice. Oct., Serious influenza epidemic. Oct. 1-9, Capture of Cambrai. Oct. 6, First German peace note. Oct. 20, Capture of Denain. Oct. 25-Nov. 2, Capture of Valenciennes. Oct. 31, Turkey surrenders and signs armistice. Nov. 4, Austria-Hungary surrenders and signs armistice. Nov. 11, Capture of Mons. Germany surrenders and signs armistice.
- 1919. Feb. 17, Death of Sir Wilfrid Laurier. Feb. 20-July 7, Second session of thirteenth Parliament. May 1-June 15, General strike at Winnipeg and other western cities. June 28, Signing at Versailles of Peace Treaty and Protocol. Aug. 15, Arrival of the Prince of Wales for official tour in Canada. Aug. 22, Formal opening of Quebec bridge by the Prince of Wales. Sept. 1, The Prince of Wales lays foundation stone of tower of new Parliament Buildings at Ottawa.

- Sept. I-Nov. 10, Third or special peace session, thirteenth Parliament of Canada. Dec. 20, Organization of "Canadian National Railways" by Order in Council.
- 1920. Jan. 10, Ratifications of the Treaty of Versailles. Feb. 19, Shareholders ratify agreement for sale of the Grand Trunk Railway to the Dominion Government. Feb. 26-July 1, Fourth session of the thirteenth Parliament of Canada. May 31-June 18, Trade Conference at Ottawa between Dominion and West Indian Governments. July 10, Sir Robert Borden is succeeded by Rt. Hon. Arthur Meighen as Prime Minister. July 16, Ratifications of the Treaty of St. Germain-en-Laye. Aug. 9, Ratifications of the Treaty of Neuilly-sur-Seine. Nov. 15, First meeting of League of Nations Assembly begins at Geneva, Switzerland.
- 1921. Feb. 14-June 4, Fifth session of thirteenth Parliament of Canada. May 10, Preferential tariff arrangement with British West Indies becomes effective. June 1, Sixth Dominion census. June 20-Aug. 5, Imperial Conference. Sept. 5-Oct. 5, Second meeting of Assembly of League of Nations at Geneva. Nov. 11, Opening of conference on limitation of armament at Washington. Dec. 6, Dominion general election. Dec. 29, New Ministry (Liberal), with Right Hon. W. L. Mackenzie King as Prime Minister, is sworn in.
- 1922. Feb. I, Arms Conference at Washington approves 5-power treaty, limiting capital fighting ships and disapproving unrestricted submarino warfare and use of poison gas.

 Mar. 8-June 28, First session of fourteenth Parliament of Canada. April 10, General Economic Conference opened at Genoa. July 13, Conference between Canada and the United States re perpetuating the Rush-Bagot treaty regarding armament on the Great Lakes. Aug. 7, Allies' Conference on war debts and reparations opened at London. Sopt. 4, Third Assembly of League of Nations opened at Geneva. Oct. 10, Mudania Armistice signed by Britain, France and Turkey. Oct. 14, Fourth International Labour Conference at Geneva. Nov. 20, Turkish Peace Conference opened at Lausanne. Dec. 9, Reparations Conference opened at London. Dec. 15, Signing of trade agreement between Canada and France.
- 1923. Jan. 4, Signing of trade agreement between Canada and Italy. Jan. 31-June 30, Second session of fourteenth Parliament of Canada. April 1,

Removal of British embargo on Canadian cattle effective. Sept. 3, Fourth session of League of Nations at Geneva. Oct. 1, Imperial Conference and Economic Conference at London.

at London.

1924. Feb. 28-July 19. Third session of the fourteenth Parliament of Canada. April 23, British Empire Exhibition opened by King George at Wembley, England, with the Prince of Wales as President. July 3, Trade agreement between Canada and Belgium signed at Ottawa. Aug. 6-16, Meeting of the British Association for the Advancement of Science at Toronto. Aug. 11-16, Meeting of International Mathematical Congress at Toronto. Sept. 1, Opening of fifth session of League of Nations at Geneva. Switzerland.

at Geneva, Switzerland.

1925. Feb. 5-June 27, Fourth session of fourteenth Parliament of Canada. June 2, Provincial general election in Saskatchewan. Liberal party under Hon. C. A. Dunning returned to office. June 10, Inauguration of the United Church of Canada. June 25, Provincial general election in Nova Scotia; Conservative party under Hon. E. N. Rhodes returned to office. July 6, Signing at Ottawa of trade agreement between Canada and the British West Indies. Aug. 10, Provincial general election in New Brunswick; Conservative party under Hon. J. B. M. Baxter returned to office. Sept. 5, Fourteenth Parliament dissolved. Oct. 29, Dominion general elections. Nov.

Death of Queen Alexandra. 1926. Jan. 7-July 1, First session of fifteenth Parliament of Canada. April 15, Budget speech; reductions of income and other taxes announced. June 28, Resignation of Rt. Hon. W. L. Mackenzie King, Prime Minister, and his Cabinet. Provincial general elections in Alberta; United Farmers under Premier Brownlee retain office. June 29, Rt. Hon. Arthur Meighen becomes Prime Minister. July 1, Two-cent domestic rates of pestear restored. July 2 tic rate of postage restored. July 2, Fifteenth Parliament dissolved. July 13, Composition of Mr. Meighen's Cabinet announced (see p. 77 of the 1927-28 Year Book). Sept. 14. Dominion general elections. Sept. 25, Rt. Hon. W. L. Mackenzie King becomes Prime Minister (for composition of Cabinet see p. 69 of Cannda, Year Book, 1930). Oct. 19-Nov. 23, Imperial Conference in London. Nov. 26, Hon. C. Vincent Massey is appointed Envoy Extraordinary and Minister Plenipotentiary to the United States. Dec. 1, General election in Ontario; Ferguson Government retains office. Dec. 9, Opening of first session of sixteenth Parliament.

1927. Feb. 8-April 14, Continution of first session of the sixteenth Parliament of Canada. Feb. 17, Budget speech; reductions of income tax, sales tax and stamp tax on cheques announced. May 16, General elections in Quebec; the Liberal Government of Hon. L. A. Taschereau sustained. June 1, Hon. Wm. Phillips, first U.S. Minister to Canada, reaches Ottawa. June 25, General election in Prince Edward Island; the Conservative Government of Hon. J. D. Stewart defeated. June 28, General election in Manitoba; the Govern-ment of Hon. John Bracken sus-tained. July 1-3, Diamond Jubilee of Confederation celebrated throughout the Dominion. July 30, The Prince of Wales, Prince George, the Rt. Hon. Stanley Baldwin and party, arrive at Quebec on a visit to Canada. Sept., Canada elected as a non-permanent member of the Council of the League of Nations at Geneva. Nov., Dominion-Provincial Conference on the relations between the Dominion and the provinces.

1928. Jan. 26-June 11, Second session of the sixteenth Parliament of Canada. Jan. 30, President Cosgrove of the Irish Free State visits Ottawa. Feb. 16, Budget speech announces reduction in taxation. April 25, Sir Wm. H. Clark appointed first British High Commissioner to Canada. May 31, Legislative Council of Nova Scotia ceases to exist, leaving Quebec as the only province with a bi-cameral Legislature. July 18, General elections in British Columbia; Conservatives successful. Aug. 24-Oct. 5, Empire Parliamentary Association visits Canada. Oct. 1, General elections in Nova Scotia; Conservatives retain power.

1929. Feb. 7-June 14, Third session of the sixteenth Parliament of Canada. Mar. 29, Death of Sir Lomer Gouin. June 5, General election in Saskatchewan. Sept. 9, Dr. J. T. M. Anderson becomes Premier of Saskatchewan. Oct. 15-25, The Rt. Hon. J. Ramsay Macdonald, Prime Minister of Great Britain, visits Canada. Oct. 30, General elections in Ontario; Conservatives retain power. Nov. 11, Death of Hon. Jas. A. Robb, Minister of Finance. Dec. 14, Transfer of natural resources to Manitoba and Alberta.

1930. Jan. 21, Five power naval arms conference opens at London: Canada represented by Hon. J. L. Ralston. Feb. 3, Death of Hon. P. C. Larkin. Feb. 20, Fourth session of the sixteenth Parliament of Canada commences. Transfer of natural resources to British Columbia. Mar.

20, Transfer of natural resources to Saskatchewan. May 30 Dissolution of sixteenth Parliament of Canada. June 19, General elections in Alberta: United Farmers retain power. June 20, General election in New Brunswick: Conservatives retain power. July 28, Dominion general election. Liberal Government of Rt. Hon. W. L. Mackenzie King defeated. Aug. 1, H.M. Airship R-100 arrives at Montreal, being the first transcripation in the fir the first transatlantic lighter-thanair craft to reach Canada. Aug. 7. Conservative Government of Hon. R. B. Bennett takes office as the fifteenth Ministry since Confederation (for the names of the Ministers see p. 73). Sept. 8-22, First (special) session of the seventeenth Parliament of Canada. Oct. 1, Imperial Conference in London. Dec. 20, Viscount Willingdon, Governor General of Canada, is appointed Viceroy of India by the King.

1931. Feb. 9, The Earl of Bessborough is appointed Governor General of Canada. Mar. 12-Aug. 3, Second session of the seventeenth Parliament of Canada. June 11, Remembrance Day (Nov. 11) proclaimed a general holiday by Act of Parliament. June 22, The U.S. Government grants a one-year moratorium on war debts owing by foreign governments on condition that similar treatment is accorded to Germany in regard to reparation payments. June 30, The Statute of Westminster exempting the Dominion and the provinces from the operation of the Colonial Laws Validity Act and the Merchant Shipping Act is approved by the House of Commons. Aug. 6 Pro-

vincial election in Prince Edward Island results in defeat of the Liberal Administration of Hon. D. M. Lea by the Conservatives under Hon. J. D. Stewart. Aug. 24, Hon. L. A. Taschereau's Liberal Administration is sustained in a general election in Quebec. Sept. 21, Great Britain suspends specie payments, following which Canada restricts the export of gold. Nov. 21, Abnormal Importations Act, extending preference to Empire products, assented to in the United Kingdom. Dec. 1, Ottawa Branch of the Royal Mint transferred to the Dominion. Dec. 12, Statute of Westminster establishing complete legislative equality of the Parliament of Canada with that of the United Kingdom becomes effective.

1932. Feb. 4-May 26, Third session of the seventeenth Parliament of Canada. June 16, General election in Manitoba; the Bracken Government retains power. July 18, Treaty between Canada and the United States, providing for the construction of the St. Lawrence seaway, signed at Washington. July 21-Aug. 20, Imperial Economic Conference at Ottawa. Aug. 6, Official opening of the Welland Ship Canal. Oct. 6, Fourth session of the seventeenth Parliament of Canada begins. Dec. 15, The one-year moratorium on war debts granted by the United States in 1931, not having been extended, debt payments were conditionally resumed by the United Kingdom following a diplomatic exchange of notes. (For further details regarding principal events of 1932 see Chapter XXX.)

CHAPTER III.—CONSTITUTION AND GOVERNMENT.

The Dominion of Canada is the largest in area and the most populous of the great self-governing Dominions of the British Empire, which also include the Irish Free State (Saorstat Eireann), the Commonwealth of Australia, the Union of South Africa, the Dominion of New Zealand, the island colony of Newfoundland (with the Labrador coast), and the colony of Southern Rhodesia. These Dominions enjoy responsible government of the British type, administered by Executive Councils (or Cabinets), acting as advisors to the representatives of the Sovereign, the Executive Councils being themselves responsible to, and possessing the confidence of. the representatives elected to Parliament by the people, and giving place to other persons more acceptable to Parliament whenever that confidence is shown to have ceased to exist. The Imperial Conference of 1926 defined the group of self-governing communities consisting of Great Britain and the Dominions as "autonomous Communities within the British Empire, equal in status, in no way subordinate one to another in any aspect of their domestic or foreign affairs, though united by a common allegiance to the Crown, and freely associated as members of the British Commonwealth of Nations" The Conference further laid down that, as a consequence of this equality of status, the Governor General of a Dominion "is the representative of the Crown, holding in all essential respects the same position in relation to the administration of public affairs in the Dominion as is held by His Majesty the King in Great Britain", and that "it is the right of the Government of each Dominion to advise the Crown in all matters relating to its own affairs". also recognized certain treaty-making rights as appertaining to the Dominion. At the Imperial Conference of 1930 the constitutional status of the Dominions was further strengthened by the decisions to repeal the Colonial Laws Validity Act and to establish a voluntary Empire judicial tribunal. It was also definitely laid down that the King appoints his Governors General through the Dominion Governments. An Address of the Parliament of Canada to His Majesty was adopted by the House of Commons on June 30, and by the Senate on July 6, 1931, praying for the enactment by the Parliament of the United Kingdom of the Statute of Westminster removing the remaining legal limitations under the Colonial Laws Validity Act of 1895, the Merchant Shipping Act of 1894 and the Colonial Courts of Admiralty Act of 1890 on the legislative autonomy of the Dominions. In compliance with this Address and similar Addresses from the Parliaments of other Dominions, the Parliament of the United Kingdom having enacted legislation to this effect, the Royal Assent was given thereto on Dec. 12, 1931.

Of the Dominions, Canada, Australia and South Africa extend over enormous areas of territory, each of the first two approximating in area to Europe, and including great provinces or states larger than most of its great Powers. Each province or state has its own problems and its own point of view, so that local Parliaments for each section, as well as the central Parliament for the whole country, are required. These local Parliaments, established when transportation and communication were more difficult and expensive than at present, were chronologically prior to the central body, to which on its formation they either resigned certain powers, as in the case of Australia, or surrendered all their powers with certain specified exceptions, as in Canada and South Africa. Of such local Parliaments, Canada at the present time has nine. Australia six, and South Africa four.

Besides the Dominions above enumerated, the great Empire of India has internationally been accepted as a member of the League of Nations, and in its internal administration has been placed on the road, formerly traversed by the Dominions which are now fully self-governing, towards responsible government. India proved her loyalty to the Empire in the Great War and, as the result of the work of Royal Commissions and conferences, a constitution is now being worked out for India along Dominion lines. Although the steps so far taken do not meet the demands of the more radical elements, the result will probably mark as great an advance as the country is now prepared to make. The whole evolution of the Empire, throughout all its parts which are more than mere fortresses like Gibraltan or trading stations like Hong Kong, is in the direction of responsible government. to be attained in the dependencies as it has been in what used to be called the colonies, by the gradual extension of self-government in proportion to the growing capacities of their respective populations. It is the recognized aim of British administrators, by the extension of educational facilities and by just administration to develop these capacities to the utmost, so that in the dependencies, as well as in the Dominions and in the Mother Country, the constitutional history of the future may be a record of "freedom slowly broadening down from precedent to precedent"

A conference on the operation of Dominion legislation and merchant shipping legislation, arising out of the report of the Imperial Conference of 1926, was held in London from Oct. 8 to Dec. 4, 1929. This conference dealt with the power of disallowing or reserving Dominion legislation, the extra-territorial operation of Dominion legislation and merchant shipping legislation, on all which subjects its report was generally in the nature of giving effect to the definition of the equal status of the Dominions as made by the Imperial Conference of 1926.

PART I.—CONSTITUTION AND GENERAL GOVERNMENT.

Under the above heading a brief historical and descriptive account of the evolution of the general government of Canada was given on pp. 89-100 of the Canada Year Book, 1922-23.

PART II.—PROVINCIAL AND LOCAL GOVERNMENT.

Under the heading "Provincial and Local Government in Canada", a brief account of the government of each of the provinces of Canada and of its municipal institutions and judicial organization was published on pp. 101-115 of the 1922-23 edition of the Year Book.

PART III.—LEGISLATIVE AND EXECUTIVE AUTHORITIES. Section 1.—Dominion Parliament and Ministry.

The Dominion Parliament is composed of the King, represented by the Governor General, the Senate and the House of Commons. The Governor General is appointed by the King on the advice of the Government of Canada. Members of the Senate are appointed for life by the Governor General in Council and members of the House of Commons are elected by the people. As a result of the working out of the democratic principle, the part played by the King's Representative and the Upper Chamber of Parliament in the country's legislation has been, in Canada as in the Mother Country, a steadily decreasing one, the chief responsibilities involved in legislation being assumed by the House of Commons.

Subsection 1.-The Governor General of Canada.

The Governor General is appointed by the King as his representative in Canada, usually for a term of five years, with a salary fixed at £10,000 sterling per annum and forming a charge against the consolidated revenue of the country. The Governor General is bound by the terms of his commission and can exercise only such authority as is expressly entrusted to him. He acts under the advice of his Ministry, which is responsible to Parliament, and, as the acting head of the Executive, summons, prorogues, and dissolves Parliament and assents to or reserves bills. In the discharge of these and other executive duties, he acts entirely by and with the advice of his Ministry (the Governor General in Council). The royal prerogative of mercy in capital cases, formerly exercised on the Governor General's own judgment and responsibility, is now exercised pursuant to the advice of the Ministry. The practice whereby the Governor General served as the medium of communication between the Canadian and the British Governments has been given up; since July 1, 1927, direct communication between His Majesty's Government in Canada and His Majesty's Government in Great Britain has been instituted.

A list of the Governors General from the time of Confederation, with the dates of their appointment and assumption of office, is given in Table 1.

1.—Governors General of Canada, 1867-1932.

Name.	Date of Appointment,	Date of Assumption of Office.		
Viscount Monck, G.C.M.G. Lord Lisgar, G.C.M.G. The Earl of Dufferin, K.P., K.C.B., G.C.M.G. The Marquis of Lorne, K.T., G.C.M.G. The Marquis of Lansdowne, G.C.M.G. Lord Stanley of Preston, G.C.B. The Earl of Aberdeen, K.T., G.C.M.G. The Earl of Minto, K.C.M.G. Earl Grey, G.C.M.G. Field Marshal H.R.H. the Duke of Connaught, K.G. The Duke of Devonshire, K.G., G.C.M.G., G.C.V.O. General the Lord Byng of Vimy, G.C.B., G.C.M.G., M.V.O. Viscount Willingdom of Ratton, G.C.S.I., G.C.I.E., G.B.E. The Earl of Bessborough, G.C.M.G.	Dec. 29, 1868 May 22, 1872 Oct. 5, 1878 Aug. 18, 1883 May 1, 1888 May 22, 1893 July 30, 1898 Sept. 26, 1904 Mar. 21, 1911 Aug. 19, 1916	June 25, 1872 Nov. 25, 1878 Oct. 23, 1883 June 11, 1888 Sept. 18, 1898 Nov. 12, 1898 Dec. 10, 1904 Oct. 13, 1911		

Subsection 2.—The Ministry.

A system of government based upon the British, by which a Cabinet or Ministry (composed of members of the House of Commons or the Senate), responsible to Parliament, holds office while it enjoys the confidence of the people's representatives, is found in Canada. The Cabinet is actually a committee of the King's Privy Council for Canada. Without enlarging upon the features of the system, it may be sufficient to note that the Cabinet is responsible to the House of Commons, and, following established precedent, resigns office when it becomes evident that it no longer holds the confidence of the people's representatives. Members of the Cabinet are chosen by the Prime Minister; each of them generally assumes charge of one of the various Departments of the Government, although one Minister may hold two portfolios at the same time, while other Ministers may be without portfolio.

The Prime Ministers since Confederation and the dates of their tenures of office, together with the members of the fifteenth Ministry are given in Table 2. The complete list of the members of the King's Privy Council for Canada, as at Dec. 31, 1932, is added as Table 3.

Ministries since Confederation and Members of the Fifteenth Ministry.

Norg.—A complete list of the members of Dominion Ministries from Confederation to 1913 appeared in the Year Book of 1912, pp. 422-439. A list of the members of Dominion Ministries from 1911 to 1921 appeared in the Year Book of 1920, pp. 651-653. A list of the members of the twelfth and thirteenth Ministries appeared on pp.76-77 of the 1927-28 Year Book. Members of the fourteenth Ministry are listed at p. 65 of the 1929 Year Book and p. 69 of the 1939 Year Book.

- 1. Rt. Hon. Sir John A. Macdonald, Prime Minister. From July 1, 1867, to Nov. 6, 1873.
- 2. Hon. Alexander Mackenzie, Prime Minister. From Nov. 7, 1873, to Oct. 16, 1878.
- 3. Rt. Hon. Sir John A. Macdonald, Prime Minister. From Oct. 17, 1878, to June 6, 1891.
- 4. Hon. Sir John J. C. Abbott, Prime Minister. From June 16, 1891, to Dec. 5, 1892.
- Hon, Sir John S. D. Thompson, Prime Minister. From Dec. 5, 1892, to Dec. 12, 1894.
 Hon, Sir Mackenzie Bowell, Prime Minister. From Dec. 21, 1894, to April 27, 1896.
- 7. Hon. Sir Charles Tupper, Prime Minister. From May 1, 1896, to July 8, 1896. 8. Rt. Hon. Sir Wilfrid Laurier, Prime Minister. From July 11, 1896, to Oct. 6, 1911.
- Rt. Hon. Sir Robert L. Borden, Prime Minister. (Conservative Administration). From Oct. 10, 1911, to Oct. 12, 1917.
- Rt. Hon. Sir Robert L. Borden, Prime Minister. (Unionist Administration). From Oct. 12, 1917.
- to July 10, 1920. Rt. Hon. Arthur Meighen, Prime Minister. (Unionist—"National Liberal and Conservative Party.")
 From July 10, 1920 to Dec. 29, 1921.
- 12. Rt. Hon. William Lyon Mackenzie King, Prime Minister. From Dec. 29, 1921, to June 28, 1926.
- 13. Rt. Hon. Arthur Meighen, Prime Minister. From June 29, 1926, to Sept. 25, 1926.
- 14. Rt. Hon. William Lyon Mackenzie King, Prime Minister. From Sept. 25, 1926, to Aug. 6, 1930.
- 15. Rt. Hon. R. B. Bennett, Prime Minister. From Aug. 7, 1930.

FIFTEENTH DOMINION MINISTRY.

(According to precedence of the Ministers as at the formation of the Cabinet.)

(1.000 mil 1.000		<u> </u>
Office.	Occupant.	Date of Appointment.
Prime Minister, President of the Privy Council, Secretary		
of State for External Affairs. Minister of Finance.	Right Hon. R. B. Bennett, K.C. Right Hon. R. B. Bennett, K.C.	Aug. 7, 1930 Aug. 7, 1930
Minister without Portfolio	Hon. E. N. Rhodes, K.C Rt. Hon. Sir Geo. H. Perley.	Feb. 3, 1932
Minister without Portfolio	G.C.M.G	Aug. 7, 1930
Minister of Labour	(Senator) Hon. Gideon D. Robertson (Sen-	Feb. 3, 1932
	ator)	Aug. 7, 1930 Feb. 3, 1932
Minister of Justice and Attorney-General	Hon. Hugh Guthrie, K.C Hon. E. N. Rhodes, K.C	Aug. 7, 1930 Aug. 7, 1930
	Hon, Alfred Duranleau, K.C. (Acting)	Feb. 3, 1932
	Hon, R. J. Manion, M.C., M.D.	Aug. 7, 1930 Aug. 7, 1930
Minister of National Revenue	Hon. J. A. Macdonald	Aug. 7, 1930 Aug. 7, 1930
	Hon. Arthur Sauvé	Aug. 7, 1930
	C.A.M.C., C.M.G., M.D., C.M., M.R.C.S.	Aug. 7, 1930
Minister of Public Works.	Hon, C. H. Cahan, K.C	Aug. 7, 1930 Aug. 7, 1930
Minister of National Defence	Lt. Col. the Hon. D. M. Suther- land, M.B., D.S.O.	Aug. 7, 1930
Minister of Marine Minister of Interior and Superintendent-General of Indian	Hon. Affred Duranteau, K.C	Aug. 7, 1930
Affairs. Solicitor-General. Acting Minister of Immigration and Colonization and	Hon, Thomas G. Murphy Hon, Maurice Dupré, K.C	Aug. 7, 1930 Aug. 7, 1930
Minister of Mines.	Hon. W. A. Gordon, K.C Major the Hon. Robert Weir	Aug. 7, 1930
MANIENCE DE L'ARTICULEMENT	stajos cue izon. Robert Well	Aug. 1, 1000

Members of the King's Privy Council for the Dominion of Canada, according to Seniority Therein, as at Dec. 31, 1932.

Norn.—In this list the prefix Rt. Hon. indicates membership in the British Privy Council. Besides those mentioned in this list, the Rt. Hon. F. A. Anglin, Chief Justice of the Supreme Court, and the Rt. Hon. L. P. Duff, Justice of the Supreme Court, are Canadian members of the British Privy Council.

Name.		e w.		Name.		e wi orn l	
The Rt. Hon. Sir William Mulock.,	July	13,	1896	The Hon. James Murdock	Dec.	29,	1923
The Rt. Hon. Sir Charles Fitz-	r.L	14	1000	The Hon. John Ewan Sinclair	Dec.		
patricks	Feb. April		$\frac{1902}{1905}$	The Hon, James H. King,	Feb.	3,	1922
The Hon. Sir A. B. Aylesworth	Oct.		1905	donald	April	12.	192
he Hon. Rodolphe Lemieux	June	4,	1998	The Hon. Edward James McMurray	Nov.	14,	192
he Rt. Hon. George P. Graham	Aug.	30.	1907	The Hon. Pierre Joseph Arthur			100
he Hon. Chas. Murphy	Oct. Jan.		1908 1909	Cardin The Hon. Fréderic Liguori Béique	Jan. May	30, 20,	192
he Rt. Hon. W. L. Mackenzie	2000			The Hon. George Newcombe Gor-	MI.O.	шо,	
King4	June		1909	li don	Sept.		192
he Hon. Henri S. Béland	Aug.	19,	1911	The Hon. Herbert Marler The Hon. Charles Vincent Massey	Sept.	9,	192
he Rt. Hon. Sir Robert Laird Borden	Oct.	10.	1911	The Hon. Walter Edward Foster	Sept. Sept.	26.	192
he Rt. Hon, Sir George Halsey	_			The Hon, Philippe Roys	Feb.	9,	192 192 192
Perley ²	Oct.	10,	1911	The Hon. Charles A. Dunning The Hon. John C. Elliott	Mar.	j,	192
he Hon. Robert Rogers he Rt. Hon. Sir Thomas White	Oct.	10,	1911 1911	The Hon. John C. Elliott	Mar. June	-8,	192
he Hon. Sir John Douglas Hazen.	Oct.		1911	The Hon, James D. Chaplin	July	13.	192
he Hon. William James Roche	Oct.	10,	1911	The Hon. George Burpee Jones	July	13,	192
he Hon. Wilfrid Bruno Nantel	Oct.		1911	The Hon. Edmond Baird Ryck-	т1	19	160
The Hon. Martin Burrell The Hon. Charles Marcil	Oct. Feb.		1911 1912	man ²	July July	13, 13,	
he Hon. Louis Coderre	Oct.	29,	1312	The Hon. Raymond Ducharme	•	-0,	
he Hon. Pierre Edouard Blondin.	Oct.	20,	1914	Morand	July	13,	192
he Rt. Hon, Arthur Meighen ²	Oct.	2,	1915	The Hon. John Alexander Macdon-	T?	10	100
The Hon. Esioff Léon Patenaude The Rt. Hon. William Morris	Oct.	u,	1915	ald ² The Hon. John Leo Chabot	July July	19.	$\frac{192}{192}$
Hughes	Feb.	18,	1916	The Hon. Eugéne Paquet	Aug.	19, 23,	192
The Hon. Albert Sévigny	Jan.	8,	1917	The Hon. Guillaume André Fauteux	Aug.	23,	192
The Hon. Charles Colquboun	Oct.	3	1917	The Hon. Lucien Cannon The Hon. Peter John Veniot	Sept. Sept.	20,	192
Ballantyne The Hon. James Alexander Calder	Oct.		1917	The Hon. William D. Euler,	Sept.	25.	192
The Hon. Newton Wesley Rowell	Oct.	12,	1917	The Hon. Fernand Rinfret	Sept.	. 25,	192
The Hon. Sydney Chilton Mew-	ا ممد	19	1917	The Hon, James Malcolm	Sept.		192 192
burn. The Hon. Thomas Alexander Crerar	Oct.	12, 12,	1917	The Hon. Robert Forke The Hon. Peter Heenan	Sept. Sept.	25.	193
The Hon. Alexander K. Maclean	Oct.	23	1917	The Hon. James Layton Raiston	Oct.	8.	192
The Hou. Gideon D. Robertson	Oct.	23.	1917	H.R.H. Edward Albert Christian			
The Hon, Sir Hormisdas Laporte.	July	. 10, 5.	1917 1919	George Andrew Patrick David, Prince of Wales	Aug.	,	192
The Hon. Hugh Guthrie ²		٠,	1310	The Rt. Hon. Stanley Baldwin	Aug.	2.	192
ton	Aug.	2,	1919	The Hon, Thomas Ahearn	Jan.	16,	192
The Hon. Simon Fraser Tolmie	Aug.	12,	1919	The Rt. Hon. James Ramsay Mac-	Ont	10	192
The Hon. Fleming Blanchard	July	12	1920	Donald	Oct. June	18. 17.	193
McCurdy	July		1920	The Hon. Cyrus Macmillan	June	17,	198
The Hon. Edgar N. Rhodes			1921	The Hon, Ian Alistair Mackenzie	June	27,	193
The Hon. John Babington			4022	The Hon. Arthur C. Hardy The Hon. Arthur Sauvé	July Aug.	31. 7,	193 193
Macaulay Baxter			1921	The Hon, Murray MacLarens	Aug.	7,	198
The Hon. Henry Herbert Stevens2			1921	The Hon, Hugh Alexander Stewart?	Aug.	7,	193
The Hon. Robert James Manions			1921	The Hon. Charles Hazlitt Cahan2	Aug.	7,	19
he Hon. James Robert Wilson	Sept.	26,	1921	The Hon. Donald Matheson Suther- lands	Aug.	7.	193
the Rt. Hon. Richard Bedford	Oct.	À	1921	The Hon, Alfred Duranleau ²	Aug.	7.	193
Bennett ³			1921	The Hon, Thomas Gerow Murphy ²	Aug.	7,	193
The Hon. Ernest Lapointe			1921	The Hon. Maurice Dupres	Aug.	7,	193 193
The Hon. Charles Stewart			1921	The Hon. Wesley Ashton Gordon ² The Hon. Robert Weir ²	Aug.	7,	193
The Hon. William Richard Mother-	.l			The Hon, G. Howard Fergusons	Jan.	14,	197
well	Dec.	29.	1921	The Hon. W. D. Herridges	June	17,	

¹ As in the case of Privy Councillors of the United Kingdom, members of His Majesty's Privy Council for Canada take rank inter se according to the dates of their being sworn in. ² Ranks as a Member of the Cabinet. ³ Ranks as the Prime Minister of Canada. ⁴ Ranks as the Leader of the Opposition. ³ Ranks as Retired Chief Justice of Canada. ⁴ Canadian Ministers abroad. ⁷ Rt. Hon. F. A. Anglin died Mar. 2, 1933.

In Table 4 are given the dates of the opening and prorogation of the sessions of the various Dominion Parliaments from 1867 to 1932.

4.—Duration and Sessions of Dominion Parliaments, 1867-1932.

Number of Parliament.	Session.	Date of Opening.	Date of Prorogation.	Days of Session	Elections, Writs Returnable, Dissolutions and Length of Parliaments. ⁷
1st Parliament	1st 2nd 3rd 4th 5th	Nov. 1, 1867 April 15, 1869 Feb. 15, 1870 Feb. 15, 1871 April 11, 1872	May 22, 1868 June 22, 1869 May 12, 1870 April 14, 1871 June 14, 1872	118 ¹ 69 87 69 65	Aug., Sept., 1867,3 Sept. 24, 1867,4 July 8, 1872,5 4 y., 9 m., 15 de.
2nd Parliament	1	Mar. 5, 1873 Oct. 23, 1873	Aug. 13, 1873 Nov. 7, 1878	8t ² 16	July, Aug., Sept., 1872. ³ Sept. 3, 1872. ⁴ Jan. 2, 1874. ⁵
3rd Parliament	5th	Mar. 26, 1874 Feb. 4, 1875 Feb. 10, 1876 Feb. 8, 1877 Feb. 7, 1878	May 26, 1874 April 8, 1875 April 12, 1876 April 28, 1877 May 10, 1878	62 64 63 80 93	1 y., 4 m., 9 d.6 Jan. 22, 1874.3 Feb. 21, 1874.4 Aug. 17, 1878.5 4 y., 5 m., 25 d.5
4th Parliament	1st 2nd 3rd 4th	Feb. 13, 1879 Feb. 12, 1880 Dec. 9, 1880 Feb. 9, 1882 Feb. 8, 1883	May 15, 1879 May 7, 1880 Mar. 21, 1881 May 17, 1882	92 86 103 98	Sept. 17, 1878.3 Nov. 21, 1878.4 May 18, 1882.5 3 y., 5 m., 28 d.6 June 20, 1882.3
5th Parliament	lst	Feb. 8, 1883 Jan. 17, 1884 Jan. 29, 1885 Feb. 25, 1886	May 17, 1882 May 25, 1883 April 19, 1884 July 20, 1885	107 94 173 98	Aug. 7, 1882.* Jan. 15, 1887.5
6th Parliament.,	1st	April 13, 1887 Feb. 23, 1888 Jan. 31, 1889 Jan. 16, 1890 April 29, 1891	June 2, 1886 June 23, 1887 May 22, 1888 May 2, 1889 May 16, 1890	72 90 92 121	14 y., 5 m., 10 d.* Feb. 22, 1887.* April 7, 1887.* Feb. 3, 1891.* 3 y., 9 m., 27 d.*
7th Parliament	1st 2nd	FeD. 20, 1592	Sept. 30, 1891 July 9, 1892 April 1, 1893 July 23, 1894 July 22, 1895 April 23, 1896	155 136 66 131 96 111	Mar. 5, 1891.4 April 25, 1891.4 (April 24, 1896.5 5 y., 0 m., 0 d.
8th Parliament	lst 2nd 3rd 4th	Mar. 15, 1894 Mar. 15, 1894 April 18, 1895 Jan. 2, 1896 Aug. 19, 1896 Mar. 25, 1897 Feb. 3, 1898 Mar. 16, 1899 Feb. I, 1900	Oct. 5, 1896 June 29, 1897 June 13, 1898 Aug. 11, 1899	48 97 131 149 168	June 23, 1896.4 July 13, 1896.4 Oct. 9, 1900.6
9th Parliament	5th 1st 2nd 3rd 4th	Feb. 6, 1901 Feb. 13, 1902 Mar. 12, 1903 Mar. 10, 1904	July 18, 1900 May 23, 1901 May 15, 1902 Oct. 24, 1903 Aug. 10, 1904	107 90 227 154	4 y., 2 m., 26 d.6 Nov. 7, 1900.3 Dec. 5, 1909.4 Sept. 29, 1904.5 3 y., 9 m., 26 d.6 Nov. 3, 1904.3
10th Parliament	Ist 2nd 3rd 4th	Jan. 11, 1905 Mar. 8, 1906 Nov. 22, 1906 Nov. 28, 1907	July 20, 1905 July 13, 1906 April 27, 1907 July 20, 1908	191 128 157 236	Nov. 3, 1904.3 Dec. 15, 1904.4 Sept. 17, 1908.5 8 y., 9 m., 4 d.6
11th Parliament	Ist 2nd 3rd	Jan. 20, 1909 Nov. 11, 1909 Nov. 17, 1910 Nov. 15, 1911	May 19, 1909 May 4, 1910 July 29, 1911	120 175 1968	Oct. 26, 1908.3 Dec. 3, 1908.4 (July 29, 1911.5 [2 y., 7 m., 28 d.5
12th Parliament	1st 2nd 3rd 4th 5th 6th 7th	Nov. 15, 1911 Nov. 21, 1912 Jan. 15, 1914 Aug. 18, 1914 Feb. 4, 1915 Jan. 12, 1916 Jan. 18, 1917 Mar. 18, 1918 Feb. 20, 1919	April 1, 1912 June 6, 1913 June 12, 1914 Aug. 22, 1914 April 15, 1915 May 18, 1916 Sept. 20, 1917	189 1739 148 5 71 127 20719	Sept. 21, 1911.3 Oct. 7, 1911.4 Oct. 6, 1917.6 6 y., 0 m., 0 d.9
13th Parliament	1st 2nd 3rd 4th 5th	Feb. 20, 1919 Sept. 1, 1919 Feb. 26, 1920 Feb. 14, 1921	May 24, 1918 July 7, 1919 Nov. 10, 1919 July 1, 1920 June 4, 1921	68 138 71 127 111	Dec. 17, 1917. ³ Feb. 27, 1918. ⁴ Oct. 4, 1921. ⁶ 3 y., 7 m., 6 d. ⁶

¹ Adjourned from Dec. 21, 1867 to Mar. 12, 1868, to allow the local Legislatures to meet. ² Adjourned May 23 till Aug. 13. ³ Period of general elections. ⁴ Writs returnable. ³ Dissolution of Parliament. ⁵ Duration of Parliament in years, months and days. The life of a Parliament is counted from the date of return of election writs to the date of dissolution, both days inclusive. ³ The ordinary legal limit of duration for each Parliament is five years. ⁸ Not including days (59) of adjournment from May 19 to July 18. ⁸ Not including days (25) of adjournment from Dec. 19, 1912 to Jan. 14, 1913. ¹⁰ Not including days (39) of adjournment from Feb. 7 to Mar. 19, 1917.

4.—Duratio	n and Se	ssions o	t nominion	ParHaments,	, 1867–1932-	-concluded.

Number of Parliament.	Session.	Date of Opening.			Elections, Writs Returnable, Dissolutions and Length of Parliaments. ⁷
14th Parliament	1st 2nd 3rd 4th	Mar. 8, 1922 Jan. 31, 1923 Feb. 28, 1924 Feb. 5, 1925	June 28, 1922 June 30, 1923 July 19, 1924 June 27, 1925	113 151 143 143	Dec. 6, 1921.3 Jan. 14, 1922.4 (Sept. 5, 1925.6 3 y., 7 m., 26 d.5) Oct. 29, 1925.3
15th Parliament	1st	Jan. 7, 1926	July 2, 1926	1771	Dec. 7, 1925.* July 2, 1926.* 208 d. *
16th Parliament	1st 2nd 3rd 4th	Dec. 9, 1926 Jan. 26, 1928 Feb. 7, 1929 Feb. 20, 1930	April 14, 1927 June 11, 1928 June 14, 1929 May 30, 1930	73 ² 138 128 100	Sept. 14, 1926.3 Nov. 2, 1926.4 May 30, 1930.5 3 y., 7 m., 0 d.6
17th Parliament	1st 2nd 3rd 4th	Sept. 8, 1930 Mar. 12, 1931 Feb. 4, 1932 Oct. 6, 1932	Sept. 22, 1930 Aug. 3, 1931 May 26, 1932	15 145 113	July 28, 1930.3 Aug. 18, 1930.4

¹ Including days (18) of adjournment from Mar. 3 to Mar. 15. ² Not including days (54) of adjournment from Dec. 15 to Feb. 8. ³ Period of general elections. ⁴ Writs returnable. ⁵ Dissolution of Parliament. ⁵ Duration of Parliament in years, months and days. The life of a Parliament is counted from the date of return of election writs to the date of dissolution, both days inclusive. ⁵ The ordinary legal limit of duration for each Parliament is five years.

A brief résumé of the history of parliamentary representation follows. Attention may be drawn to the growth in the number of members of both the Senate and the House of Commons since Confederation and to the greatly increased unit of representation in the Lower House.

Subsection 3.--The Senate.

The British North America Act, 1867, provides in sections 21 and 22 that "the Senate shall consist of seventy-two members, who shall be styled Senators. In relation to the constitution of the Senate, Canada shall be deemed to consist of three divisions—(1) Ontario; (2) Quebec; (3) The Maritime Provinces, Nova Scotia and New Brunswick: which three divisions shall be equally represented in the Senate as follows: Ontario by twenty-four senators; Quebec by twenty-four senators; and the Maritime Provinces by twenty-four senators, twelve thereof representing New Brunswick and twelve thereof representing Nova Scotia. In the case of Quebec, each of the twenty-four senators representing the province shall be appointed for one of the electoral divisions of Lower Canada specified in schedule A to Chapter I of the Consolidated Statutes of Canada". Further, under section 147 of the same Act, it is provided that "in case of the admission to Confederation of Newfoundland or Prince Edward Island. each shall be entitled to a representation in the Senate of four members" "Prince Edward Island when admitted shall be deemed to be comprised in the third of the three divisions into which Canada is divided by this Act" and on its admission "the representation of Nova Scotia and New Brunswick shall, as vacancies occur, be reduced from twelve to ten members respectively" In case of the admission of Newfoundland, the normal membership of the Senate of 72 members was to be increased to 76, while the maximum number of 78 (sec. 28) was to be 82, sec. 26 containing a provision for the appointment of three or six additional members in certain cases, to represent equally the three divisions of Canada.

By 33 Vict., c. 3, an Act to establish and provide for the government of the province of Manitoba, passed in 1870, the newly formed province was given representation of two members in the Senate, provision being made at the same time for increases in representation to three and four on increases of population, according to the decennial census, to 50,000 and 75,000 respectively. In the following year, British Columbia, on being admitted to the Union by an Imperial Order in Council of May 16, 1871, was given representation by three senators. Two years later, when Prince Edward Island was admitted to Confederation by an Imperial Order in Council of June 26, 1873, it was granted representation in the Senate of four members under the terms of the British North America Act, as cited above. Thus, in 1873, the seven provinces of Ontario, Quebec, Nova Scotia, New Brunswick, Manitoba, British Columbia and Prince Edward Island were represented by a total of 77 members in the Senate, their individual representation at the time being 24, 24, 10, 10, 2, 3 and 4 members respectively.

In 1882, following the 1881 census and an increase of population in Manitoba to 62,260 persons, the representation of this province was increased to three members under authority of the Manitoba Act, 1870. Later, by 50-51 Vict., c. 38, an Act of 1887, the representation of the Northwest Territories in the Senate was fixed at two members. A subsequent increase resulted from the growth of population in Manitoba to 152,506, as shown by the census of 1891, the province being granted a fourth senator under the terms of the Manitoba Act of 1870. An Act passed in the session of 1903, 3 Edw. VII, c. 42, provided for an increase in the representation of the Northwest Territories from two to four members, bringing the total representation at this date to 83 members.

On the establishment of the provinces of Alberta and Saskatchewan out of the former Northwest Territories in 1905, under 4-5 Edw. VII, cc. 3 and 42, provision was made for their representation in the Senate by 4 members each, which might be increased by Parliament to 6 on the completion of the next decennial census. This change in representation brought the membership of the Upper Chamber to a total of 87.

In 1915, by an amendment to the British North America Act (5-6 Geo. V, c. 45), an important change was made with regard to the constitution of the Senate. The number of divisions provided for by section 22 of the original Act was increased from three to four, the fourth comprising the four western provinces of Manitoba, Saskatchewan, Alberta and British Columbia. Each of these provinces was to be represented by 6 members under the Act, the division being thus represented by 24 members and placed on an equality with the others with respect to membership. A corresponding change was made in the number of additional senators provided for by the original British North America Act, by substituting increases of four or eight members for the three or six cited in section 26 of the Act of 1867 Normal representation, therefore, is at present fixed at 96, which number may be increased if necessary to 100 or to a maximum of 104.

The entry of Newfoundland to the Union is still provided for by the above Act, subsection 6 of sec. 1 of which sets out its representation as six members instead of the four granted by the Act of 1867. If Newfoundland were admitted to the Dominion, the normal number of senators would be 102 with a maximum of 110.

In Table 5 the growth of membership in the Senate is shown by divisions and provinces from 1867 to 1915, since when no change has taken place. The names and addresses of the senators from each province are given as at Mar. 1, 1933, in Table 6.

5.—Growth of Representation in the Senate, 1867-1933.

Province.	1867.	1870.	1871.	1878.	1882.	1887.	1892.	1903.	1905.	1915- 1933.
(1) Ontario. (2) Quebec. (3) Maritime Provinces. Nova Scotia. New Brunswick. Prince Edward Island. (4) Western Provinces. Manitoba. British Columbia. Saskatchewan. Alberta.	-	24 24 24 12 12 - 2 2	24 24 24 12 12 12 3	24 24 24 10 10 4 5	24 24 24 10 10 4 6 3 3	24 24 24 10 10 4 8 3 3	24 24 24 10 10 4 9 4 3	24 24 24 10 10 4 11 4 3	24 24 24 10 10 4 15 4 8 8	24 24 24 10 10 4 24 6 6
Totals	23	74	77	77	78		81	83	87	96

6.-Representation in the Senate of Canada, by Provinces, as at Mar. 1, 1933.

	1		
Name of Senator.	Post Office Address.	Name of Senator.	Post Office Address.
Prince Edward Island—		Quebec-concluded.	
(4 senators).		Blondin, P. E., P.C	Montreal.
McLean, John	Souris.	Chapais, Thomas	Quebec.
Hughes, James J	Souris.	Webster, L. C Béland, H. S., P.C	Montreal.
MacArthur, Creelman	. Summerside.	Béland, H. S., P.C	St. Joseph de Beauce
Sinclair, John E., P.C	Emerald.	Raymond, Donat	Montreal.
	1	Paradis, Philippe J	Quebec.
Nova Scotia—(10 senators—one	e'	Lemieuz, R., P.C	Ottawa.
vacancy).	1	Lemieux, R., P.C. Tobin, E. W. Parent, G	Bromptonville.
McLennan, John S	Sydney.	Parent, G	Quebec.
Tanner, C. E	Pictou.	Prevost, J. E.	St. Jerome.
Stanfield, John McCormick, John Martin, Peter Hatfield, Paul L	Truro.	Wilson, L. A Ballantyne, C. C	Coteau du Lac.
McCormick, John	Sydney Mines.	Rainville, J. H	Montreal.
Martin, Peter	Talliax.	Brown, A. J.	
Ascueld, Faul L	Parmelana	Drown, A. J.	Montreat.
Despie W H	Helifer	Ontario—(24 senators—two	Ī
Logan, H. J. Dennis, W. H. MacDonald, J. A.	St Potore		1
MERCEDONALD, V. M	Ot. Tetels.	Gordon, Geo Smith, E. D	North Bay
New Brunswick—(10 senators	a l	Smith E. D.	Winona.
—two monopoles)		Donnelly, J. J	Pinkerton.
Poirier, Pascal	Shediac.	Lynch-Staunton, G	Hamilton.
Bourgue, T. J.	Richibucto.	Robertson, G. D., P.C	Welland.
McDonald, J. A	Shediac.	Fisher, J. H	l Paris.
Black, Frank B	Sackville.	White G. V.	l Pembroke.
Turgeon, Onésiphore	Bathurst.	Macdonell, A. H., C.M.G	Toronto.
Turgeon, Onésiphore Robinson, C. W	Moneton.	Horder A C	I Rrockwille
Copp, A. P., P.C Foster, W. E., P.C	Sackville.	Aylesworth, Sir A. B., P.C.	Toronto.
Foster, W. E., P.C	Saint John.	Murnhy, Chas., P.C.	lOttawa.
		Lewis, John Rankin, Jas. P. Graham, Rt. Hon. George P.,	Toronto.
Quebec—(24 senators—one	1	Rankin, Jas. P.	Stratiord.
vacancy).	1.	Graham, Rt. Hon. George P.,	Th 1
Dandurand, R., P.C.	. Montreal.	P.C. McGuire, William H	Frockville.
Casgrain, J. P. B	. Montreal.	McGuire, William H	Toronto.
Beique, F. L., F.C	Oustreal,	Spence, Jas. H.	Landon
Casgrain, J. P. B. Beique, F. L., P.C. Tessier, Jules Wilson, J. M.	Montree!	Little, Edgar S Lacasse, Gustave Horsey, H. H Wilson, Cairine R	Torumseh
Pone Rufus H	Cookehira	Horsey H H	Cressy.
Pope, Rufus H. Beaubien, C. P.	Montreal.	Wilson Cairine R	Ottawa.
L'Espérance, D. O	Quebec.	Murdock, J., P.C. Meighen, Rt. Hon. A., P.C.	Ottawa.
	157	1 35 1 D/ TE 1 D/C	Terente

6.—Representation in the Senate of Canada, by Provinces as at Mar. 1. 1933—concluded.

Name of Senator.	Post Office Address.	Name of Senator,	Post Office Address.
Manitoba—(6 senators). Sharpe, W. H. McMeans, L. Pénard, Aimé. Schaffner, F. L. Molloy, J. P. Forke, Robert, P.C.	Winnipeg. Winnipeg. Winnipeg.	Alberta—(6 senators). Michener, Edward Harmer, Wm. J. Griesbach, W. A., C.B., C.M.G. Buchánan, W. A. Riley, Daniel E. Burns, P.	Edmonton. Edmonton. Lethbridge. High River.
Saskatchewan — (6 senators—two vacancies). Laird, H. W	Regina.	British Columbia— (6 senators) Planta, A. E. Barnard, G. H. Taylor, J. D. Green, R. F. King, J. H., P.C. McRae, A. D.	New Westminster. Victoria. Vancouver.

Subsection 4.—The House of Commons.

In section 37 of the original British North America Act of 1867 (30 Vict., c. 3), it was provided that "The House of Commons shall consist of one hundred and eighty-one members, of whom eighty-two shall be elected for Ontario, sixty-five for Quebec, nineteen for Nova Scotia, and fifteen for New Brunswick" Further, under section 51, it was enacted that after the completion of the census of 1871 and of each subsequent decennial census, the representation of the four provinces should be readjusted by such authority, in such manner, and from such time, as the Parliament of Canada provided, subject to and according to the following rules:—

- "(1) Quebec shall have the fixed Number of Sixty-five Members;
- "(2) There shall be assigned to each of the other Provinces such a Number of Members as will bear the same Proportion to the Number of its Population (ascertained at such Census) as the Number Sixty-five bears to the Number of the Population of Quebec (so ascertained);
- "(3) In the Computation of the Number of Members for a Province a fractional Part not exceeding One Half of the whole Number requisite for entitling the Province to a Member shall be disregarded; but a fractional Part exceeding One Half of that Number shall be equivalent to the whole Number;
- "(4) On any such Re-adjustment the Number of Members for a Province shall not be reduced unless the Proportion which the Number of the Population of the Province bore to the Number of the aggregate Population of Canada at the then last preceding Re-adjustment of the Number of Members for the Province is ascertained at the then latest Census to be diminished by One Twentieth Part or upwards;
- "(5) Such Re-adjustment shall not take effect until the Termination of the then existing Parliament"

Again, in section 52, it was enacted that "the number of members of the House of Commons may be from time to time increased by the Parliament of Canada, provided the proportionate representation of the Provinces prescribed by this Act is not thereby disturbed".

Later on, by the British North America Act of 1886 (49-50 Vict., c. 35), provision was made in section 1 that "the Parliament of Canada may from time to time make provision for the representation in the Senate and House of Commons of Canada, or in either of them, of any territories which for the time being form part of the Dominion of Canada, but are not included in any province thereof"

Again in 1915, an amendment to the British North America Act (5-6 Geo. V, e. 45) was passed by the Imperial Parliament, providing that "notwithstanding anything in the said Act, a province shall always be entitled to a number of members in the House of Commons not less than the number of senators representing such province"

Readjustments in Representation.—As set out in the above-mentioned provisions of the British North America Act, the first Dominion Parliament of 1867 consisted at its commencement of 181 members, 82 for Ontario, 65 for Quebec, 19 for Nova Scotia and 15 for New Brunswick. To this number were added, under the Manitoba Act of 1870 (33 Vict., c. 3), 4 members to represent the newly created province of Manitoba; also, according to the agreement under which British Columbia entered Confederation, ratified by Imperial Order in Council of May 16, 1871, 6 members were added to represent the new province, making a total of 191 members at the end of the first Parliament of Canada.

Arising out of the first census of the Dominion in 1871, a readjustment of representation took place in 1872 (c. 15 of 1872), increasing the representation of Ontario from 82 to 88, of Nova Scotia from 19 to 21 and of New Brunswick from 15 to 16 members, the 9 additional members bringing the total number of representatives up to 200. To these were added in 1874, as a result of the agreement under which Prince Edward Island entered Confederation (ratified by Imperial Order in Council of June 26, 1873), 6 members representing that province—bringing the membership of the House of Commons to 206.

Results of the second census, that of 1881, necessitated the passage of a new Representation Act (45 Vict., c. 3), increasing the representation of Ontario from 88 to 92 and that of Manitoba from 4 to 5, thus bringing the membership of the House of Commons to 211 members. To these were added, under the provisions of 49 Vict., c. 24, passed in 1886, 4 members for the Northwest Territories (2 for the then provisional district of Assiniboia and 1 each for the then provisional districts of Alberta and Saskatchewan), bringing the total membership to 215.

The third census, of 1891, was followed by another readjustment of representation, reducing the representation of Nova Scotia from 21 to 20, of New Brunswick from 16 to 14, of Prince Edward Island from 6 to 5, and increasing the representation of Manitoba from 5 to 7, the representation of the other provinces remaining as before. The net result was a reduction in the number of members of the House from 215 to 213.

The fourth census, of 1901, resulted in a readjustment in 1903, reducing the representation of Ontario from 92 to 86, of Nova Scotia from 20 to 18, of New Brunswick from 14 to 13, of Prince Edward Island from 5 to 4. On the other hand, the representation of Manitoba was increased from 7 to 10, of British Columbia from 6 to 7, of the Northwest Territories from 4 to 10. By chapter 37 of the Statutes of 1902, a member had been added for Yukon Territory, so that the net effect of the changes was to keep the membership at 214 in the early years of the present century. The extremely rapid growth of the Northwest Territories, however, led to their division and the admission to Confederation in 1905 of the provinces of Alberta and Saskatchewan. In the Acts admitting them—the Alberta Act (4-5 Edw. VII,

c. 3) and the Saskatchewan Act (4-5 Edw. VII, c. 42)—it was provided that their representation should be readjusted on the basis of the results of the quinquennial census of 1906. The Representation Act of 1907, implementing this pledge, increased the representation of Saskatchewan from 6 to 10 and of Alberta from 4 to 7 members, thus raising the total membership of the House of Commons to 221.

The census of 1911, with its very large but very unevenly distributed increase of population, led to considerable changes in representation, enacted by the Representation Act of 1914. The representation of Ontario was reduced from 86 to 82, of Nova Scotia from 18 to 16, of New Brunswick from 13 to 11, of Prince Edward Island from 4 to 3. On the other hand, the representation of Manitoba was raised from 10 to 15, of Saskatchewan from 10 to 16, of Alberta from 7 to 12 and of British Columbia from 7 to 13. The net result was an increase of 13 members in the total membership of the House of Commons, bringing the figure to 234. However, in the following session the amendment to the British North America Act, already referred to, resulted in the retention by Prince Edward Island of her fourth member (since she had 4 senators). (See also 5 Geo. V, c. 19). The total membership, therefore, of the House of Commons in the thirteenth and fourteenth Parliaments (elected in 1917 and 1921 respectively) was 235.

As a result of the smaller increase of population shown by the census of 1921. the changes in representation were less far-reaching. Nova Scotia lost 2 members and the West gained 12, 2 of these being added to Manitoba, 5 to Saskatchewan, 4 to Alberta and 1 to British Columbia. The representation of the remaining four provinces was unchanged. Prince Edward Island retained its 4 members because of the provisions of the British North America Act of 1915, to the effect that the members of the House of Commons returned by a province shall never be fewer than its senators. Ontario, again, retained its 82 members because under subsection 4 of section 51 of the British North America Act (quoted p. 79), the proportion which its population bore to the aggregate population of the Dominion had not declined by one-twentieth. Further, by the Quebec Boundaries Extension Act of 1912, it had been stipulated that the population of the added area (Ungava) should not be included for the purpose of determining the unit of representation, so that the 1921 population of Quebec, within its 1911 boundaries, viz., 2,358,412, divided by the fixed number of 65 seats for that province, became the new unit of representation, 36,283.

The number of representatives of each province elected at each of the seventeen general elections since Confederation is given in Table 7.

 Representation in the House of Commons as at Dominion General Elections, 1867-1930.

1867.	1872.	1874.	1878.	1882	1887.	1891 .	1896.	1900.	1904.	1908.	1911.	1917.	1921	1925.1
82	88	88	98	92	92	92	92	92	86	86	86	82	82	82
19	21	21	21	21	21	21	20	20	18	18	18	16	16	65 14
-	6	6	4 6	5	5 6	5 6	7 6	7 6	10 7	10 7	iŏ 7	15 13	15 18	17 14
Ξ	=	E	6 -	- -	6 4	€ 4	5 4	5 4	10	107	107	16 12	16 12	21 16
-	-	-	-	-		-		<u> </u>	1	<u>` i</u>	<u>i</u>	1	1	245
	82 65 19 15 	82 88 65 65 19 21 15 16 - 4 	82 88 88 65 65 65 65 19 21 21 15 16 16 - 4 4 6 6 8	82 88 88 98 65 65 65 65 19 21 21 21 15 16 16 16 - 4 4 4 - 6 6 6 6 6 	82 88 88 92 92 65 65 65 65 65 65 19 21 21 21 21 21 15 16 16 16 16 16 16 16 16 16 16 16 16 16	82 88 88 98 92 92 65 65 65 65 65 65 65 19 21 21 21 21 21 21 15 16 16 16 16 16 - 4 4 4 5 5 - 6 6 6 6 6 6 6 6 6 7	82	82 88 88 88 92 92 92 92 92 65 65 65 65 65 65 65 65 65 65 65 65 65	82 88 88 98 92 92 92 92 92 92 92 92 92 92 92 92 92	82 88 88 88 92 92 92 92 92 92 86 65 65 65 65 65 65 65 65 65 65 65 19 21 21 21 21 21 21 21 20 20 18 15 16 16 16 16 16 16 14 14 13 - 4 4 4 5 5 5 5 7 7 10 - 6 6 6 6 6 6 6 6 6 6 7 6 6 6 6 6 6 6 5 5 4 1	82 88 88 88 92 92 92 92 92 96 86 65 65 65 65 65 65 65 65 65 65 65 65 65	82	82 88 88 88 92 92 92 92 92 92 86 86 86 86 82 65 65 65 65 65 65 65 65 65 65 65 65 65	82 88 88 98 92 92 92 92 92 96 86 86 86 82 82 65 65 65 65 65 65 65 65 65 65 65 65 65

¹ The representation at the general elections of 1926 and 1930 was the same as in 1925.

The Unit of Representation.—While the number of members of the House of Commons has been growing fairly steadily since Confederation, the unit of representation—one-sixty-fifth of the population of Quebec within its 1911 boundaries—has also been increased after each census in consequence of the growth of the population of Quebec. The units of representation, as determined by the decennial censuses taken since Confederation, are as follows: 1871, 18,331 persons; 1881, 20,908; 1891, 22,901; 1901, 25,368; 1911, 30,819; 1921, 36,283; 1931, 44,186, being one-sixty-fifth of the population of Quebec exclusive of Ungava.

The 1931 Redistribution Problem.—The population of Quebec in 1931, exclusive of the population (2,177) of the territory added to Quebec by the Boundaries Extension Act of 1912, was 2,872,078, which, divided by 65, gives a unit of representation of 44,186. The quotient obtained by dividing the population of each province as shown at the date of the census by 44,186 indicates (except where subsection 4 of section 51 of the British North America Act and the Amending Act of 1915 apply) the number of members to which each province is entitled. These numbers as determined by the census of 1931 and the two preceding censuses are shown in Table 8.

8.—Representation of the Provinces and Territories of Canada in the House of Commons, as Determined by the Censuses of 1931, 1921 and 1911.

	c	ensus 1931.		С.	ensus 1921.		Census 1911.			
Province.	Popula- tion.	Quotient based on Unit. (44,186)	Rapresentation.	Popula- tion.	Quotient based on Unit. (36,283)	Representa-	Popula- tion.	Quotient based on Unit, (30,819)	Representa-	
P. E. I	88,038 512,846 408,219 3,431,683 700,189 921,785 731,605 694,263	1 · 99 11 · 61 9 · 24 77 · 66 15 · 85 20 · 86 16 · 56 15 · 71	12 10 82 17 21 17	2,933,662 610,118 757,510 588,454	2-44 14-44 10-69 80-86 16-82 20-88 16-22 14-46	14 11 82 17 21 16	93,728 492,338 351,889 2,527,292 461,394 492,432 374,295 392,480	3-04 15-98 11-42 82-00 14-97 15-98 12-41	4 16 11 82 15 16 12 13	
out New Quebec)	2,872,078	65-00	65	2,358,4[2	65.00	65	2,003,232	65-00	65	
Totals	10,360,656		214	8,773,666	-	244	7,189,030		234	
Quebec (New Quebec) Yukon N.W.T R.C. Navy	2,177 ¹ 4,230 9,723		- 1 -	2,253 4,157 7,988 485	i -	-	2,544 ¹ 8,512 6,597	: 1	[1	
Canada	10,376,786		245	8,787,949	_	245	7,206,613	-	235	

¹ Represents the population in the area added to Quebec by the Quebec Boundaries Extension Act, 1912, the population of which by sec. 2. ss. "A" of said Act, is to be excluded from the population of the province in ascertaining the unit of representation.

The application of the provisions of subsection 4 of section 51 of the British North America Act (quoted on p. 79) to Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba (the provinces in which a decrease in the rate of growth of population as compared with the rate of Canada as a whole, has taken place), is shown in the following statement:—

Province.	Province	n of each Bears to Population	Decrease in Proportion from 1921-1931.	Ratio of Decrease in Proportion from 1921 to 1931	Decrease greater than, equal to or less than One- Twentieth of Proportion
Prince Edward Island	-01008426 -05961197	1931. -00848412 -04942243	-00160014 -01018954	Proportion in 1921. -1587 -1709	in 1931,
New Brunswick. Ontario. Manitoba.	·04413965 ·33384627 ·06943053	+03933963 +33070769 +06747166	-00480002 -00313858 -00195887	-1087 -0094 -0282	greater less less

The above table shows that no reduction should take place in the representation of Ontario or Manitoba, since the proportion which the number of the population of these provinces bore to the number of the aggregate population of Canada at the readjustment of the number of members for the province based on the census of 1921 is ascertained at the census of 1931 to be diminished by less than one-twentieth part.

Nova Scotia.—The proportion for Nova Scotia having diminished by more than one-twentieth part, the provisions of subsection 4 of section 51 do not apply and the representation of Nova Scotia should be reduced, in accordance with the provisions of section 51, subsections 2 and 3 of the Act, by two members.

Prince Edward Island.—Prince Edward Island would only have two members on the strict basis of population but its representation remains unchanged at 4 under the B.N.A. Act of 1915 referred to above.

New Brunswick.—The representation of New Brunswick if fixed by the unit of representation (44,186) would be reduced from 11 to 9; but as the B.N.A. Act of 1915 provided that "a province shall always be entitled to a number of members in the House of Commons, not less than the number of senators representing such province", the representation of New Brunswick will be 10 instead of 9, corresponding with the number of senators from that province.

Yukon.—The representation of Yukon is not determined by the B. N. A. Act, but is within the competence of Parliament to decide. In the following statement it is presumed it will continue to be represented.

The representation, therefore, to which each province is entitled as a result of redistribution based upon the 1931 census will be as follows: Prince Edward Island 4; Nova Scotia 12; New Brunswick 10; Quebec 65; Ontario 82; Manitoba 17; Saskatchewan 21; Alberta 17; British Columbia 16; Yukon 1; total 245.

Constituencies and Representatives in the Seventeenth Parliament.—A complete list of the constituencies, with their 1931 populations, the voters on the list and votes polled at the general election of July 28, 1930, together 52230—64

with the names and addresses of those then elected to the House of Commons of the seventeenth Parliament of Canada, will be found in Table 9. Changes occurring at subsequent by-elections to Mar. 1, 1933, are indicated in the footnotes.

9.—Population of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election.

Province and	Popula-	Voters	Votes		
Flectoral District,	tion, 1931.	on List.	Polled.	Name of Member.	P.O. Address.
Prince Edward Island—					
(4 members)	88,038	46,935	59,519	L	l
Kings	19,147	10,253	9,159	Macdonald, Hon.J.A.	Cardigan, P.E.I.
Prince	31,500	16,350	14,584	Maclean, A. E.	Summerside, P.E.I.
Queens	37,391	20,382	35,7761	Myers, J. H	Cardigan, P.E.I. Summerside, P.E.I. Charlottetown, P.E.I. Hampton, P.E.I.
Nova Scotia					
(14 members)	512,846	275,762	268,727		l
Antigonish-Guysborough	25,516	14,877	12,215	Duff, W	Lunenburg, N.S.
Cape Breton North-					
_ Victoria	29,116	14,646	12,315 25,265	tobnstone, L. W	Sydney Mines, N.S.
Calaborton South	66,999	30,961	25,265	MacDonald, F	Sydney Mines, N.S. Sydney, N.S. Truro, N.S.
Colchester	25,051 36,366	13,656	11,918	Smith R K	Amharet N.S.
Cumberland	34,650	19,738 19,934	16,328 16,729	Short, H. B.	Dighy, N.S.
•				Black, W. A.	Halifax, N.S.
Halifax City and County	100,204	53, 154	81,662	Quinn, F. P	Halifar, N.S.
Hants-Kings	43,750	24,171	21,125	Smith, R. K. Short, H. B. [Black, W. A. [Quinn, F. P. [Isley, J. L. MacDougall, I. D.	Kentville, N.S. Port Hood, N.S. New Glasgow, N.S. Bridgewater, N.S. St. Peters, N.S.
Inverness	21,055	10,847	9,656	MacDougall, I. D.	Port Hood, N.S.
Pictou	89,018	21,783	18,933	Cantley, T Ernst, W. G MacDonald, J. A. ²	New Glasgow, N.S.
Queens-Lunenburg Richmond-West Cp.Breton	42,236	24,713	19,969	Ernst, W. G	Dridgewater, N.S.
Shelburne-Yarmouth	15,411 33,424	9,608 17,674	7,542 15,070	Raiston, Hon. J. L.	Yarmouth, N.S.
Spetodino-Latinodin	39,727	11,014	10,000	100,000, 110,000	1 at 110 at 12, 11,102
New Brunswick—		l		!	
(11 members)	408,219	207,006	186,277	1	i
Charlotte	408,219 21,337	12,627	186,277 9,757	Ganong, A. D Veniot, Hon, P. J	St. Stephen, N.B.
Gloucester	41,914	18,204	15,276	Veniot, Hon, P. J	Bathurst, N.B.
Kent	23,478	11,019	9,439	Arsenault, T	Richibucto, N.B.
Northumberland Restigouche-Madawaska	34,124	16,056	13,804 19,771	McDade, G. M Cormier, M. D.4	Chatham, N.B. Edmundston, N.B.
Royal	54,386 31,026	23,932 17,469	14,550	Jones, Hon. G. B.3	Anobequi, N.B.
	, .			l (MacLaren, Hon, M.	Saint John, N.B.
Saint John-Albert	69,292	37,067	50,121	Bell, TSmith, B. F	Saint John, N.B.
Victoria-Carleton	35,703	18,635	14,480	Smith, B. F	Saint John, N.B. East Florenceville, N.B.
Westmorland	57,506	29,668	24,286	Price, O. B Hanson, R. B	Moncton, N.B.
York-Sunbury	39,453	22,329	14,793	Hanson, R. B	Fredericton, N.B.
Quebec-			1		
(65 members)	2.874.255	1,351,585	1,029,480	1	1
Argenteuil	78,976	9,649	8,703	Perley, Rt. Hon. Sin	•
		· ·		Geo H	Ottawa, Ont.
Bagot Beauce	16,914	7,917	7,174	Dumaine, C Lacroix, E	Upton, Que.
Beauce	87,544	23,745	18,784	Lacroix, E	St-George-de-Beauce,
Beauharnois	25,163	11,238	9,797	Raymond, M	Que. Outremont, Que.
Bellechasse	21,296	9,308	7,617	Boulanger, O. L	Quebec, Que.
Bellechasse Berthier-Maskinongé	35.545	17,546	14, 132	Boulanger, O. L Barrette, J. A	Quebec, Que. StBarthélémi, Que.
Bonaventure	32,432	14,051	11,822	Marcil, Hop. C	Ottawa, Ont.
Brome-Missisquoi	32,069	16,916	14,732	Pickel, F. H	Sweetsburg, Que.
Chambly-Verchères	39,404 50,176	20,267	17,014	Duranleau, Hon, A. Baribeau, J. L	Montreal, Que.
Champlain	50,176	22,460	19,199	Baribeau, J. L	Ste-Geneviève-de- Bastican Que.
Charlevoix-Saguenay	54,999	23,028	19,063	Casgrain, P. F	Bastican, Que. Westmount, Que.
Charlevoix-Saguenay Chateauguay-Huntingdon	25,470	13,212	11,446	Casgrain, P. F Moore, J. C Dubuc, J. E. A	Huntingdon, Que.
Chicoutimi	55,724	23.622	20,539	Dubuc, J. E. A	Chicoutimi, Que.
Compton	31.858	15,263	13,153	Gobeil, S Gagnon, O Girouard, W	La Patrie, Que.
Dorchester Drummond-Arthabaska	31,693	13,270	11,266	Gagnon, O	Quebec, Que.
Drummond-Arthabaska	53,388	23,166	19,123	Girouard, W	Arthabaska, Que.
Gaspé	45,617	19,456	16,327	Brasset, M	irerce, Que.
		37.3	43F- Y	4 MacDonald barris	or connected an office o

Each voter could vote for two candidates. ² Mr. J. A. MacDonald having accepted an office of emolument under the Crown, Hon. E. N. Rhodes was elected by acclamation Sept. 2, 1930. ³ Hon. G. B. Jones resigned his seat, April 12, 1932, and was re-elected; June 27, 1932. ⁴ Mr. Cormier died Jan. 14, 1933.

9.—Population of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—continued.

	Popula-	T/otoma	1	1	
Province and	tion,	Voters on	Votes	Name of Member.	P.O. Address.
Electoral District.	1931.	List.	Polled.	Traine of Intelliber.	1.0. Address.
			·	<u> </u>	
Quebec-concluded.				<u>.</u>	l
Holl	49,196	22,790 12,721	18,586	Fournier, A Ferland, C. E	Hull, Que,
Joliette	27,585 24,085	10,790	10,964 8,713	Bouchard, G	Johntte, Que.
178HOM SASSA	49,000	10,790	0,110	Douchard, G	Pocatière, Que.
Labelle	36,953	1	1	Bourassa, H Duguay, J. L	Outrement, Que.
Labelle Lake St. John	50,253	19,181	16,694	Duguay, J. L	St-Joseph-d'Alma,
	ļ				Que,
Laprairie-Napierville	21,091	9,152	8,845 11,299 12,345 14,074 6,804	Dupuis, V	Laprairie, Que.
L'Assomption-Montcalm Laval-Two Mountains	29, 188 30, 434	14,061 13,733	11,299	Segum, P. A	L'Assomption, Que.
Lévis	35,656	16 677	14 074	Fortin E	Lévie One
L'Islet	19,404	16,677 8,535 10,381	6,804	Fafard, J. F	L'Islet, Que.
Lotbinière	23,034	10,381	8,989 14,805	Verville, J. A	St. Flavien, Que.
Matane	45,272	18,249	14,805	LaRue, J. E. H	Amqui, Que.
Mégantic	85,492	15,889	13,461	Roberge, E	Laurierville, Que.
Montmagny	20,239 28,673	9,405 13,680	7,550 11,487	Dubois I	Quebec, Que.
Pontiac	64.155	29,732	21,918	Belec. C	Fort Coulogge Oue
Portneuf	39.522	18.418	15, 175	Desrochers, J.	St-Joseph-d Alma, Que. Que. Laprairie, Que. L'Assomption, Que. Saint-Eustache, Que. Lévis, Que. L'Islet, Que. St. Flavien, Que. Amqui, Que. Laurierville, Que. Gentilly, Que. Gentilly, Que. Cort Coulonge, Que. St-Raymond, Que. Courville, Que. Ottawa, Ont. Quebec, Que. Quebec, Que. Quebec, Que.
Onebec-Montmoreness	1 20 552	16.673	15,175 14,592	Dorion, C. N	Courville, Que.
Quebec East Quebec South Quebec West	55,596	27,049	21,611 14,881	Lapointe, Hon, E	Ottawa, Ont.
Quebec South	36,235	19,820	14,885	Power, C. G	Quebec, Que.
Richelieu	52,309 21,483	23,891 10,608	20,10L 8,938	Cordin Hon. M	Quebec, Que.
Incheneu	21,405	I '	0,850	P.I.4	Soral One
Richmond-Wolfe	41,867	19,391	16,998	Laflèche, J. F.	Windsor Mills, One.
Rimouski St-Hyacinthe-Rouville	41,867 33,151	19,391 13,564 20,492 14,346 14,0[3	11,043	Fiset, Sir E	Rimouski, Que.
St-Hyacinthe-Rouville	39,630	20,492	16,187	Fontaine, J. T. A	St-Hyacinthe, Que.
St. Johns-Iberville	27,051 28,262	14,346	12,099	Rhéaume, M	St. Johns, Que.
Shefford Sherbrooke	37,386	19,865	16, 187 12, 099 12, 648 16, 700	Howard C B	Sharbrooks Oue
Stanstead	25,118	12,998	11,351	Hackett J. T	Stanstead, One.
Témiscouata	50, 163	20,706	17,584	Pouliot. J. F.	Quebec, Que. Sorel, Que. Windsor Mills, Que. Rimouski, Que. StHyacinthe, Que. StHyacinthe, Que. Stranby, Que. Sherbrooke, Que. Stanstead, Que. Rivière-du-Loup, Que. Sto-Agathe-des- Monts, Que.
Terrebonne	38,611	18,392	15,517	Parent, L. E	Ste-Agathe-des-
Th. Di	20 005	40.054		Parent, L. E	Monts, Que
Three Rivers-St-Maurice Vandreuil-Soulanges	69,095 21,114	32,978 10,429	26,110 8,500	Bettez, A.z.	Three Rivers, Que.
Wright	27, 107	12,927	11,020	Parras F W	Gracefield Que.
Yamaska	16,820	7,926	7,068	Boucher, A.4	Pierreville, Que.
Montreal Island-		1		Í	, -
Montreal Island— (13 members). Cartier. Hochelaga Jacques Cartier. Laurier-Outremont	1,003,868	508,062	325,495 12,262 28,652		
Cartier	48,004 97 006	25,442 43,728	12,262	Jacobs, S. W	Montreal, Que.
Hochelaga Jacques Cartier Laurier-Outremont	130.776	61,453	44.801	Laurin, J. G. P.	Montreal, Que.
Laurier-Outremont	88,579	61,453 45.968	27,310	Mercier, J. A	Montreal, Que.
Mrmisonneuve	110,011	50,593 48,515	34,196	Robitaille, C2	Montreal, Que.
Mount Royal	93,035	48.515	44,801 27,310 34,196 26,590 22,770	White, R. S	Montreal, Que.
St. AnnSt. Antoine	60,696 36, 0 33	31,256 19,956	12,639	Ball L. C	Montresi, Que.
St. Denis	140,940	69,249	45,396	Denis, J. A.	Montreal, Que.
St. Henri	44,019	23 718	17,722 19,721	Mercier, P	Montreal, Que.
St. James St. Lawrence-St. George	54,903	32,776	19,721	Rinfret, Hon. F.	Montreal, Que.
St. Lawrence-St. George	37.861	1 19.546	10,479	Jacobs, S. W. StPère, E. C. Laurin, J. G. P. Mercier, J. A. Robitaille, C ² . White, R. S. Sollivan, J. A. Bell, L. G. Denis, J. A. Mercier, P. Rinfret, Hon. F. Cahan, Hon. C. H. Deslauriers, H.	Montreal, Que.
St. Mary	65,555	35,762	22,957	Deslauriers, H	montreal, Que.
Ontario					
(82 members)	3,431,683	1,894,624	1,364,963 14,251 13,702		
Algoma East	37, 455	17,879 17,898	14,251	Nicholson, G. B	Chapleau, Ont.
Automa west	38,425 21,202	17,898	13,702	Simpson, T. E	Sault Ste. Marie, Ont.
Brantford City	32,274	11,538 19,018	9,497 15,309	Ryarson R E	raris, Ont. Brontford Ont
Bruce North	20.466	12,554	11, 185	Malcolm, Hon. J.	Kincardine. Ont.
Bruce South	21.820	13,339	10,602	Hall, W. A	Walkerton, Ont.
Carleton	38,619 32,763	20,4 9 3	16,793	Garland, W. F	Ottawa, Ont.
Dufferin-Simcoe	32,763	20,372	13,790	Rowe, W. E	Chapleau, Ont. Sault Ste. Marie, Ont. Paris, Ont. Brantford, Ont. Kincardine, Ont. Walkerton, Ont. Ottawa, Ont. Newton Robinson, Ont.
Durham	25,782	16,338	12,068	Bowen F W	Ont. Newcostle Ont
DurhamElgin West	34,0€8	1 21.896	18,680	Bowen, F. W Hepburn, M. F	St. Thomas, Ont.
Essex East Essex South	42,976	21,097	16,453	Morand, Hon. R. D. Gott, E. J.	Windsor, Ont.
Essex South	35,044	17,996	14,609	Gott, E. J	Amberstburg, Ont

¹ Acclamation. ² Mr. Bettez died Jan. 4, 1931, and Mr. Charles Bourgeois was elected Aug. 10, 1931, ² Mr. Robitaille died Jan. 16, 1932, and Mr. Joseph Jean was elected June 27, 1932. ⁴ Election declared void by the Supreme Court of Canada, Dec. 23, 1932. Seat still vacant (March, 1933).

9.—Population of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—continued.

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Province and	Popula-	Voters	Votes	None of March	BO 413
Electoral District.	tion, 1931.	on List,	Polled.	Name of Member.	P.O. Address.
	1801.			<u> </u>	
Ontarlo—continued.				j	
Esser West	83,808	43,231	27,993 10,861	Robinson, S. C Manion, Hon. R. J.	Walkerville, Ont.
Fort William Frontenac-Addington	36,040	14,412	10,861	Manion, Hon. R. J.,	Fort William, Ont.
Frontenac-Addington	29,434	17,058 10,615	11,537	Spankie, W McGillis, A	Wolfe Island, Ont.
GlengarryGrenville-Dundas	18,000	9D 846 :	8,948 14,612	Cassalman A.C.	Williamstown, Ont.
Grey North	18,666 32,425 30,288	18, 899	15,068	Porteous, V. C	Owen Sound, Ont.
Grey Southeast	27,411	18, 899 16, 912 12, 835 16, 035 36, 829 30, 928	12 090	Macphail, Agnes C.	Cevlon, Ont.
Tradit-cond	01 499	12,835	11,064 12,826 21,475 17,335 10,034	Senn, M. C	Caledonia, Ont.
Halton	26,558 66,771	16,035	12,826	Anderson, R. K	Milton, Ont.
Hamilton East	66,771	36,829	21,475	Rennie, G. S. ²	Hamilton, Ont.
Harting Peterbases	56,305 27,160	30,928 14 904	17,550	Embury A T	Ramuton, Ont.
Halton Hamilton East Hamilton West Hastings-Peterborough Hastings South Huron North	39,327	14,804 22,563	18,548	MGGillis, A. C. Casselman, A. C. Porteous, V. C. Macphail, Agnes C. Senn, M. C. Anderson, B. K. Rennie, G. S.*. Bell, C. W. Embury, A. T. Tummon, W. E. Spotton, Geo. McMillan, T.*	Catedonia, Ont. Milton, Ont. Hamilton, Ont. Hamilton, Ont. Bancroft, Ont. Tweed, Ont. Wingham, Ont. Seaforth, Ont. Kenora, Ont
Huron North	22,662	14,488	12,116	Spotton, Geo	Wingham, Ont.
Huron South Kenora-Rainy River Kent	44,010	14,146	12,035	McMillan, T.3	Seaforth, Ont.
Kenora-Rainy River	83,925	15,661	12,178	Heenan, Hon. P	Kenora, Ont.
Kent	54,715	29,006	23,051	McMillan, T.3 Heenan, Hon. P Rutherford, J. W	Chatham, Ont.
Kingston City Lambton East Lambton West	26,180 26,736	14,569 16,891	11,164 12,622	Ross, A. E Sproule, J. T Gray, R. W Thompson, T. A Stewart, Hon. H. A	Kingston, Ont. Oil Springs, Ont.
Lambton West	34,040	18,957	15, 236	Grav. R. W	Sarnia, Ont.
Lanark	82,856	20,816	16,815	Thompson, T. A	Almonte, Ont.
Leeds	85,157	20,987 30,802	15.699	Stewart, Hon. H. A.	Brockville, Ont.
Lincoln	54,199	30,802	21,076 23,810	Chaplin, Hon. J. D. White, J. F. Boyes, F.	jot. Catharines, Ont.
London	59,821	87,465	23,810	White, J. F	London, Ont
Middlesex East	34,788	19,170	14,188	Doyes, r	Dorchester Station, Ont.
Middlesex West	23 632	14,138	11.204	Elliott, Hon. J. C.	Strathrov. Out.
Muskoks-Ontario	23,632 35,513	20.447	14.740	McGibbon, P	Bracebridge, Ont.
Nipissing	70,204	32, 193 23, 134	11,204 14,740 23,683	Hurtubise, J. R	Sudbury, Ont.
Nipissing Norfolk-Elgin Northumberland	70,204 40,727 30,727	23,134	18,902	Taylor, W. H	Strathroy, Ont. Bracebridge, Ont. Sudbury, Ont. Scotland, Ont.
Northumberland	30,727	18,290	16, 175	Fraser, W. A	Trenton, Ont.
Ontario	45,139	24,952	19,843	Charrier E R E	Dunbarton, Ont.
Ottawa	106,077	61,535	97,3691	Elliott, Hon. J. C. McGibbon, P. Hurtubise, J. R. Taylor, W. H. Fraser, W. A. Moore, W. H. / Chevrier, E. R. E. Ahearn, T. F. Sutherland, Hon.	Ottawa, Ont. Ottawa, Ont.
Oxford North	25,244	15,405	13,428	Sutherland, Hon.	1
	ì		l '	D. M Cayley, T. M Spence, D	Woodstock, Ont.
Oxford South	22,581	13,660	11,388	Cayley, T. M	Norwich, Ont.
Parkdale Parry Sound	59,246	37,242	17,566	Arthura I	Toronto, Ont. Parry Sound, Ont.
Paul Sound	25,900 28,156	13,169 17,077 20,249	9,918 13,995	Charters S	Toronto, Unt. Parry Sound, Ont. Brampton, Ont. Stratford, Ont. St. Marys Ont. Peterborough, Ont. L'Orignal, Ont. L'Orignal, Ont. Rellaville Ont.
Peel Perth North	33,822	20,249	1 12 81N	Wright, D. M	Stratford, Ont.
Perth South	17,570	11.099	9,428	Sanderson, F. G	St. Marys Ont.
Perth South Peterborough West	17,570 37,042	21,575 14,364	17,608	Peck, E. A	Peterborough, Ont.
Port Arthur-Thunder Bay.	1 25 865	14,364	10,859	Cowan, D. J	Port Arthur, Unt.
Prescott	24,590	12,498 15,786	19 414	Weese I A	Ballavilla Ont
Prescott Prince Edward-Lennox Renfrew North	24,596 25,718 27,280	13,786	9,428 17,608 10,859 8,927 72,414 11,086	Weese, J. A	Pembroke, Ont.
Rentrew South	1 26.986	14,534	13,090	Maloney, M. J	Eganville, Ont.
Russell Simcoe, East Simcoe North	43,831	21,807	17.591	Goulet. A	Bourget, Ont.
Simcoe, East	36.572	19,442	15.669	Thompson, A. B	Penetanguishene, Ont. Barrie, Ont. Aultsville, Ont.
Simcoe North	29,224	16,125 17,694	13,791 15.318	Sharer F T	Darrie, Ont.
Stormont Timiskaming North Timiskaming South	32,524 58,284	24,879	16,773	Bradette, J. A.	Aultsville, Ont. Cochrane, Ont.
Timiskaming South	43,948	21,892	16,024	Bradette, J. A. Gordon, Hon. W. A.	Haileybury, Ont.
Toronto East	68,987	40,630	16,024 19,835	Ryckman, Hon.	,
	1			E. B	Toronto, Ont.
Toronto East Centre	66,341	37,971	16,514	Matthews, R. C	Toronto, Unt.
Toronto High Park	64,088	63 636	27 749	Boker R L	Toronto, Ont. Toronto, Ont. Toronto, Ont. Toronto, Ont.
Toronto Northeast Toronto Northwest	70 720	42 875	19,902	MacNicol, J. R	Toronto, Ont.
Terente Scarberongh	106,123 70,729 87,656	37,971 36,245 63,636 42,875 50,372	16,514 17,661 27,742 19,902 23,821	Harris, J. H	Toronto, Ont.
Toronto Scarborough Toronto South Toronto West Centre	46,065	1 15,000	1 (.981	Geary, G. R	Toronto, Ont.
Toronto West Centre	61,972	31,136	17, 261	Factor, S	Toronto, Ont.
Victoria Waterloo North	31,841	19,725	15,842 22,580	E. B. Matthews, R. C. Anderson, A. J. Baker, R. L. MaeNicol, J. R. Harris, J. H. Geary, G. R. Factor, S. Stinson, T. H. Euler, Hoo, W. D. Edwards, A. Mc-Kav.	Lindsay, Ont. Kitchener, Ont.
Waterloo North	53,777 36,075	28,694 20,922	13,984	Edwards A Me-	Kiwhener, Onv.
Waterloo South	90,045	20,922	10,504	Kay	Galt, Ont.
Welland	82,731	41,568	28,831	Kay Pettit, G. H Blair, J. K	Welland, Ont.
Welland	19,035		9,365	Blair, J. K	Arthur, Ont.

¹ Each voter could vote for two candidates. ² Mr. G. S. Rennis died Oct. 13, 1930, and Humphrey Mitchell was elected Aug. 10, 1931. ² Mr. T. McMillen died June 7, 1932, and William H. Golding was elected Oct. 3, 1932.

9.—Population of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—continued.

Province and Electoral District.	Popula- tion, 1931.	Voters on List.	Votes Polled.	Name of Member,	P.O. Address.
Ontario—concluded.					
Wellington South	39,129	22,515	16,818	Guthrie, Hon. H	Guelph, Ont.
Wentworth	66,943 38,607	34,655 28,801	24,782 20,583	Lernor T H	Dundas, Oat.
York North York South	62,258	31,010	17, 296	McGregor, B. H	Toronto, Ont.
York West	124,883	62,645	17,296 32,300	Guthrie, Hon. H Wilson, G. C Lennox, T. H McGregor, R. H Lawson, J. E	Toronto, Ont.
Manitoba—	!		ĺ		
(17 members)	700,139	328,089	235,192		ł
Brandon	30,483	20,438	16,451	Beaubier, D. W Bowman, J. L	Brandon, Man.
Dauphin	37,703	16,842	13,621	Bowman, J. L	Dauphin, Man.
Lisgar Macdonald	31,891 32,090	15,217	10,200 11,784 14,742 10,855	Wais W G	Pilot Mound, Man.
Marquette	37.468	18.051	14.742	Mulling, H. A	Rosebank, Man. Winnipeg, Man.
Neepawa	27,429	13,249	10.855	Murphy, Hon. T. G.	Neepawa, Man.
Nelson	32,238	11,050	8,873 12,641	Stitt, B. M	The Pas, Man.
Marquette Neepawa Nelson Portage la Prairie	37,468 27,429 32,238 33,979	16,842 13,217 15,152 18,051 13,249 11,050 15,738	12,641	Brown, J. L. Brown, J. L. Weir, W. G. Mullins, H. A. Murphy, Hon. T. G. Stitt, B. M. Burns, W. H.	Portage la Prairie, Man.
Provencher	32,613	11,879	7,905	Beaubien, A. L., Stitt, J. H. Willis, E. F. Hay, T., Howden, J. P.	St. Jean Bantiste Man.
Selkirk	44,506	19,287	14,454 12,103	Stitt, J. H	Winnipeg, Man. Boissevain, Man.
Souris	26,726 42,350	14,296	12,103	Willis, E. F	Boissevain, Man.
SpringfieldSt. Boniface	42,350 43,389	16,614 20,775	11,082 13,738	Howden I P	Gonor, Man. St. Boniface, Man.
Winninger North	63,917	24,781	14 213	Heans A A	Winnipeg, Man.
Winning North Centre	45.350	22.649	10 055	Heaps, A. A Woodsworth, J. S	Winnipeg, Man.
Winnipeg South	51,518	27,959	20.275	Rogers, Hon. R	Winnipeg, Man.
Winnipeg North	77,489	46,112	31,201	Rogers, Hon. R Kennedy, W. W	Winnipeg, Man.
Saskafthewan—					
(21 members)	921,785	410.400	331,652 15,723 14,079		
Assiniboia	41 144	18,867 18,069	15,723	McKenzie, R. Totzke, A. F. Carmichael, A. M Butcher, H. Cowan, W. D. Campbell, M. N ³	Stoughton, Sask.
Humboldt	44,146	18,059	14,079	Corrected A. F	Vonda, Sask.
KindersleyLast Mountain	93,280 36 507	16,465 15,215	12,040	Rutcher H	Punnichar Saak
Long Lake	44,146 35,290 36,507 31,266	14.640	12,570 12,946 12,514 13,592	Cowan, W. D.	Kindersley, Sask. Punnichy, Sask. Regina, Sask. Pelly, Sask.
Mackenzie Maple Creek	44,869	14,640 17,652 20,799 22,914	13,592	Campbell, M. N ³	Pelly, Sask.
Maple Creek	43,903	20,799	17,449	Swanston, J. B Weir, Hon, Robt	одациалоп, павк.
Melfort	52,668	22,914	17,587	Weir, Hon, Robt	Weldon, Sask.
Melville	39,338	16,677	14,273	Motherwell, Hon.	Abernethy, Sask.
Moose Jaw	42,334	21,825	17,704	Beynon, W. A.	Moose Jaw. Sask.
Moose Jaw North Battleford	53,708	20,811	15,566	W. R. Beynon, W. A McIntosh, C. R	North Battleford,
Prince Albert	50,896	20,676	17,464	Mackenzie King, Rt. Hon. W. L. Perley, E. D. Turnbull, F. W. Loucks, W. J. MacMillan, F. R. Vallance, J. Bothwell, C. E. Young, E. J. Donnelly, T. F. McPhee, G. W.	Sask.
	A		0	Rt. Hon. W. L	Ottawa, Ont.
Qu'Appelle	85,988	17,397 30,707 15,286 28,850 20,026 17,775 17,523 22,638	14,851 25,430	Feriey, E. D	Wolseley, Sask. Regina, Sask. Delisle, Sask.
Regina Rosetown	60,858 32,526	30,707 15 288	12 448	Loucks, W. I	Delisle, Sask.
Rosetown Saskatoon South Battleford	60.636	28,850	12,448 21,566 16,223	MacMillan, F. R.	Saskatoon, Sask.
South Battleford	45,199 41,717	20,026	16,223	Vallance, J	Onward, Saak.
Swift Current	41,717	17,775	14,010	Bothwell, C. E	Swift Current, Sask.
WeyburnWillow Bunch	41,684	17,523	14,474 18,799	Donnally TF	Dummer, Sask.
Yorkton	48,466 38,692	15,388	12,384	McPhee, G. W	Yorkton, Sask.
Alberta—			'		i I
(16 members)	731,605	304,475	201,635		
(16 members) Acadia	34,896	1	1	Gardiner, R	Excel, Alta.
Athabaska	55,298	19,617	11,989	Buckley, J. F.2	St. Paul, Alta.
Athabaska Battle River	43,441 35,901	19.054	11,989 10,900	Spencer, H. E	Edgerton, Alta.
Colmony Foot	35,901	14,483	10,523	Gariana, E. D	Calcary Alta.
Bow River Calgary East Calgary West	51,640 50,898	14,483 25,355 27,669	10,523 17,442 19,879	Gardiner, R	Oaigary, Alta.
			,	R. B. Lucas, W. T. Bury, A. U. G. Stewart, Hon. C. S.	Calgary, Alta.
Camrose Edmonton East	39,806	17,462	10,970	Lucas, W. T	Lougneed, Alta.
Edmonton West	48,865 51,584	22,466 25,365	15,007 18,275	Stewart, Hon C. S.	Edmonton, Alta.
Lathbridge	47,871	25,365 17,555	12,579	Stewart, J. S.	Lethbridge, Alta.
Macleod. Medicine Hat Peace River.	40,336	18.844	13,093	Stewart, J.S Coote, G.G Gershaw, F.W Kennedy, D. McB	Nanton, Alta.
Medicine Hat	40,336 32,709	14,071	9,205	Gershaw, F. W	Medicine Hat, Alta.
Peace River	76,778	31,741	18,732	Kennedy, D. McB	waterhole, Alta.

¹ Acclamation. ² Mr. J. F. Buckley was killed Nov. 27, 1931, and Mr. P. G. Davies was elected Mar. 31, 1932. ³ Mr. Campbell resigned Feb. 6, 1933.

 Population of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—concluded.

Province and Electoral District.	Popula- tion, 1931.	Voters on List.	Votes Polled.	Name of Member.	P.O. Address,
Alberta—concluded. Red Deer. Vegreville. Wetaskiwin.	39,385 37,442 44,755	18,182 15,001 17,610	10,901 10,137 12,003	Speakman, A. Luchkovich, M. Irvine, W	Vegreville, Alta.
British Columbia— (14 members)	694,263	333,326	243,631	P I A	Outside I P. C
Cariboo Comox-Alberni Fraser Valley	38,507	22,197 10,751 15,802	8,963 13,385	Fraser, J. A Neill, A. W Barber, H. J	Alberni, B.C. Chilliwack, B.C.
Kootenay East Kootenay West Nanaimo	22,566 39,943 55,524	10,834 17,911 28,593	9,212 34,150 20,598	McLean, M. D Esling, W. K. Dickie, C. H.	Rossland, B.C.
New Westminster Skeena	69,294 30,358	32,647 11.770	23,970	Reid, T	Newton (Surrey Municipality), B.C.
Vancouver-Burrard Vancouver Centre	82,519 75,234 32,972	45,220 33,483 16,737	31,878 22,244	Hanbury, W	Vancouver, B.C. Vancouver, B.C.
Vancouver North Vancouver South Victoria	89,556 39,082	47,226 22,151	31,728 14,740	Munn, A. E MacInnis, A Plunkett, D'A. B	Vancouver, B.C. Victoria, B.C.
Yukon	40,637	18,004	13,480	Stirling, G	Kelowna, B.C.
(1 member). Yukon	4,230	1,719	1,408	Black, G	Dawson, Yukon

¹ Mr. M. D. McLean having accepted an office of emolument under the Crown, Hon. H. H. Stevens was elected by acclamation, Aug. 25, 1930.

Subsection 5.—The Dominion Franchise.1

It was provided by the B.N.A. Act, 1867, that, until otherwise directed by Parliament, elections to the House of Commons should be governed by the electoral laws of the several provinces. The qualifications of electors throughout the Dominion consequently remained the same for both Dominion and provincial elections until, in 1885, Parliament legislated on the subject by passing the Electoral Franchise Act (1885, c. 40). That Act defined a uniform qualification for voters throughout Canada for Dominion purposes, the basis of this new franchise being the ownership or occupation of land of a specified value, although the sons of owners, and particularly farmers' sons, were given the right to vote on special conditions; each province, of course, continued separately to define the qualifications of voters at provincial elections. This Dominion franchise remained in force for thirteen years, but between 1898 and 1920, under the Franchise Act of the former year (1898, c. 14), the provincial franchises were again made applicable at Dominion elections, except that on the constitution of the provinces of Alberta and Saskatchewan it was provided that manhood suffrage, which had already been adopted for the Northwest Territories under an Act to amend the N.W.T. Act (1895, c. 16), should continue in force for Dominion purposes independently of any action that might be taken by the newly elected Legislatures of these two provinces (R.S.C. 1906, c. 6, ss. 31-65). In the other provinces the rules as to the qualifications of voters varied from time to time. In Manitoba manhood suffrage had been adopted in 1888 (1888, c. 2), and the franchise was extended to women on the same terms as to men in 1916 (1916, c. 36). Alberta and Saskatchewan, on their establishment as provinces, continued the previously existing manhood suffrage and both extended the franchise to women on the same terms as to men in 1916 (Alta. 1916, c. 5; Sask. 1916, c. 37). British Columbia adopted manhood suffrage in 1904 (1903-1904, e. 7), Ontario in 1907 (7 Edw. VII, c. 5), and New Brunswick in 1916 (6 Geo. V, c. 16); in British Columbia (1917, c. 23) and in Ontario (7 Geo. V, c. 5), the franchise Contributed by Oliver Mowat Biggar, K.C., formerly Chief Electoral Officer.

was extended equally to women in 1917, and in New Brunswick this was done in 1919 (9 Geo. V, c. 63). In Quebec and Prince Edward Island the provincial franchises throughout the period in question were not so wide; in neither were women admitted to vote and certain property or other special qualifications were required in each. A property qualification was also required in Nova Scotia until 1920 (10-11 Geo. V, c. 49), but between 1918 and 1920 men and women had voted on equal terms (9 Geo. V, c. 3). The adoption of the provincial franchise laws for Dominion purposes was temporarily modified by the War Times Elections Act. (1917, c. 39), which admitted certain near female relatives of serving soldiers and sailors to vote at Dominion elections, and three years later, on the adoption of a New Dominion Elections Act (1920, c. 46), the provincial franchises were again wholly abandoned and a new electoral qualification was established for Dominion elections throughout Canada. Subject to a modification of the usual rules as to changes of nationality, which was amended in 1921 (1921, c. 29, s. 3) and repealed in 1922 (1922, c. 20, s. 1), the right to vote was conferred by the new Act upon all British subjects, male and female, of 21 years and upwards, who had resided in Canada for a year, and for two months in the electoral district in which they desired to vote, this last restriction having been removed two years later (1922, c. 20), so far it as applied to general elections. The only adult British subjects who now are denied the right to vote are prisoners undergoing punishment, lunatics in institutions, Indians within the meaning of the Indian Act and not having served in the Great War, judges appointed by the Dominion Government, persons paid for work on behalf of a candidate in relation to the election, persons expressly disfranchised for corrupt or illegal practices and certain persons who by reason of their race are not permitted, under the law of the province in which they live, to vote at a provincial election in that province. The effect of this last exception is to exclude from the franchise only such Chinese, Japanese and East Indians as reside in British Columbia and did not serve in the Canadian forces during the Great War, and such Chinese as reside in the province of Saskatchewan and did not so serve. (See also R.S.C. 1927, c. 53, The Dominion Elections Act, as amended by c. 40 of 1929 and c. 16 of 1930.)

The Use of the Franchise.—The number of voters on the lists and the number of votes polled at the general elections of 1921, 1925, 1926 and 1930, are given in Table 10.

19.—Number of Voters and Votes Polled in the General Elections of 1921, 1925, 1926 and 1939.

Province.	Number of Voters on the List.			Number of Votes Polled.				
r rovince,	1921.	1925.	1926.	1930.	1921.	1925.	1926.	1930.
P. E. Island	204,575 1,056,792 1,738,020 255,143 333,613 273,706	45,454 277,073 211,190 1,124,998 1,821,906 250,505 346,791 283,529 244,352 1,621	46, 208 273, 712 210, 028 1, 133, 633 1, 847, 512 257, 244* 353, 463 262, 262 1, 848	46,985 275,762 207,006 1,351,585 1,894,624 328,089 410,400 304,475 333,326 1,719	52,5561 260,8602 156,2633 779,951 1,139,6354 173,944 225,236 173,824 156,012 1,388	222,8832	229,8462 162,7773 809,295	268,7272 186,2773 1,029,480 1,364,9604
Totals	4,435,310	4,607,419	4,065,3815	5,153,971	3,119,386	3, 168, 412	3,273,0625	3,922,4814

¹ Each voter in the double member constituency of Queens County, P.E.I., had two votes; in 1930, 20,382 voters on the list cast 35,776 votes.
² Each voter in the double member constituency of Halifax, N.S., had two votes; in 1930, 53,154 voters on the list cast 81,682 votes.
³ Each voter in the double member constituency of Saint John-Albert, N.B., had two votes; in 1930, 37,087 voters on the list cast 50,121 votes.
⁴ Each voter in the double member constituency of Ottawa, Ont., had two voters in 1930, 61,535 voters on the list cast 50,120 votes.
⁴ Not including two electoral districts in which the return was by acclamation.
⁵ Not including two electoral districts in which the returns were by acclamation.

Section 2.—Provincial Governments.

Table 11 gives the names and areas, as in 1933, of the several provinces, territories and provisional districts of the Dominion, together with the dates of their creation or admission into the Confederation and the legislative process by which this was effected.

11.—Provinces and Territories of Canada, with Present Areas, Dates of Admission to Confederation and Legislative Process by which Admission was Effected.

Province,	Date of		of		Present A	rea (squ	are miles).
Territory or District.	Ad: or C	miss reat		Legislative Process.	Land.	Fresh Water.	Total,
Ontario Quebec Nova Scotia New Brunswick Manitoba	July " "	1, 1, 1,	1867 1867 1867 1867 1867	Act of Imperial Parliament — The British North America Act, 1867; (30-31 Vict., c. 3), and Imperial Order in Council of May 22, 1867. Manitoba Act, 1870 (33 Vict., c. 3) and Imperial Order in Council, June 28.		49,300 71,000 ² 325 275	412,5821 594,534 21,068 27,985
British Columbia P. E. Island Saskatchewan	" Sept.	1,	1871 1873 1905	1870. Imperial Order in Council, May 16, 1871 Imperial Order in Council, June 26, 1873 Saskatchewan Act, 1905 (4-5 Edw. VII,	219,723 349,970 2,184	26,789 5,885	246,5123 355,855 2,184
Alberta Yukon	June	13,	1905 1898	c. 42). Alberta Act, 1905 (4-5 Edw. VII, c. 3). Yukon Territory Act, 1898 (61 Vict., c. 6).	205,346	13,725 6,485 1,730	251,700* 255,285* 207,076
Mackenzie Keewatin Franklin	Jan.	1,	1920 1920 1920	Order in Council, Mar. 16, 1918	493, 225 218, 460 546, 532	84,265 9,700 7,500	527,490* 228,160* 554,032*
Totals	- + + -				3,457,484	226,979	3,634,463

The area of Ontario was extended by the Ontario Boundaries Extension Act, 1912 (2 Geo. V. c. 40). ¹ The area of Ontario was extended by the Ontario Boundaries Extension Act, 1912 (2 Geo. V. c. 40).

² Extended by Quebec Boundaries Extension Act, 1912 (2 Geo. V. c. 45), and diminished in consequence of the award of the Judicial Committee of the British Privy Council (Mar. 1, 1927), whereby some 112,400 square miles of territory, formerly considered as part of Quebec, were assigned to Newfoundland.

³ Extended by Extension of Boundaries of Manitoba Act, 1881, and Manitoba Boundaries Extension Act, 1912 (2 Geo. V. c. 32).

⁴ Alberta and Saskatchewan now cover approximately the area formerly comprised in the districts.

⁴ Alberta and Saskatchewan now cover approximately the area formerly comprised in the districts of Assiniboia, Athabaska, Alberta and Saskatchewan, established May 17, 1882, by minute of Canadian P.C., concurred in by Dominion Parliament and Order in Council of Oct. 2, 1895.

⁸ By an Order in Council of June 23, 1870, Rupert's Land, acquired under the Rupert's Land Acts of 1867 and 1888, and the undefined Northern Territories were admitted in the Confederation. The original Northwest Territories, mentioned in the Manitoba Act, 1870, were established by the Northwest Territories Act, 1880 (43 Vict., c. 25), the district of Keewatin having been previously defined by an Act of the Dominion Parliament (39 Vict., c. 21). The provisional districts of Yukon, Mackenzie, Franklin and Ungava were defined in an Order in Council of Oct. 2, 1895, their boundaries being changed by Order in Council of Dec. 18, 1897. By Order in Council of July 24, 1905, the area of Keewatin, not included in the Northwest Territories, was annexed to the latter from Sept. 1, 1905. By the Extension of Boundaries Act, 1912, Ungava was made a part of the Province of Quebec, and the remaining area of the Northwest Act, 1912, Ungava was made a part of the province of Quebec, and the remaining area of the Northwest Territories south of 60° N. latitude was divided between Manitoba and Ontario.

In each of the provinces the King is represented by a Lieutenant-Governor appointed by the Governor General in Council, and governing with the advice and assistance of his Ministry or Executive Council, which is responsible to the Legislature and resigns office when it ceases to enjoy the confidence of that body. The Legislatures of all the provinces with the exception of Quebec are now unicameral, consisting of a Legislative Assembly elected by the people. In Quebec there is a Legislative Council as well as a Legislative Assembly. For detailed description of the Provincial Governments, the reader is referred to pp. 101-115 of the 1922-23 edition of the Year Book.

The Lieutenant-Governors of the provinces, together with the names of the Ministers of the present administrations, are given in Table 12. Details regarding Provincial Legislatures and Ministries from Confederation to 1924 were given on pp. 75-84 of the 1924 Year Book.

The Legislative Council of Nova Scotia ceased to exist in 1928.

12 .- Lieutenant-Governors of Provinces, 1867-1932, and Present Ministries.

Note.—The Lieutenant-Governor of a province is styled "His Honour" and is also styled "Honourable" throughout his life.

PRINCE EDWARD ISLAND.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
Thomas H. Haviland Andrew Archibald Macdonald Jedediah S. Carvell	July 14, 1879 Aug. 1, 1884 Sept. 21, 1889 Feb. 21, 1894	D. A. McKinnon Benjamin Rogers A. C. Macdonald Murdock McKinnon Frank R. Heartz Charles Dalton	June 2, 1915 Sept. 3, 1919 Sept. 8, 1924

SEVENTEENTH MINISTRY.

Office.	Nаme.	Date of Appointment.
Premier, Attorney and Advocate General and Provincial Secretary-Treasurer Minister of Public Works and Highways. Minister of Education and Public Health. Minister of Agriculture. Minister without Portfolio.	Hon. James D. Stewart, K.C. Hon. G. Shelton Sharp. Hon. William J. P. MacMillan, M.D. Hon. Thomas McNutt Hon. H. Francis McPhee, B.A. Hon. Adrian F. Arsenault, B.A. Hon. Harry D. MacLean. Hon. Walter G. McKenzie.	Aug. 29, 1931 Nov. 28, 1932 Aug. 29, 1931 Aug. 29, 1931 Aug. 29, 1931 Aug. 29, 1931

NOVA SCOTIA,

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
Major-Gen. Sir C. Hastings Doyle	Oct. 18, 1867	Alfred G. Jones. Duncan C. Fraser. James D. MacGregor David MacKeen McCallum Grant McCallum Grant J. Robson Douglas James C. Tory Frank Stanfield Walter H. Covert.	Mar. 27, 1906
Lieut-Gen. Sir C. Hastings Doyle.	Jan. 31, 1868?		Oct. 18, 1910
Sir E. Kenny (acting).	May 31, 1870		Oct. 19, 1915
Joseph Howe.	May 1, 1873		Nov. 29, 1916
Sir A. G. Archibald.	July 4, 1873		Mar. 21, 1922
Matthew Henry Richey	July 4, 1883		Ian. 23, 1925
A. W. Mollelan.	July 9, 1888		Sept. 24, 1925
Sir Malachy Bowes Daly.	July 11, 1890		Dec. 2, 1930

²Second term.

ELEVENTH MINISTRY,

Office.	Nатре.	Date of Appointment.
Premier and President of Council. Minister of Public Works and Mines. Attorney-General. Provincial Secretary Minister of Agriculture Minister of Highways. Minister of Public Health Minister without Portfolio. Minister without Portfolio.	Hon. John Doull Hon. J. F. Fraser. Hon. O. P. Goucher Hon. P. C. Elack Hon. Geo. H. Murphy, M.D., C.M. Hon. Albert Parsons	Aug. 11, 1930 Oct. 9, 1931 Oct. 9, 1931 Aug. 11, 1930 Aug. 11, 1930 Aug. 11, 1930 Aug. 11, 1930

12.—Lieutenant-Governors of Provinces, 1867-1932, and Present Ministries—continued.

NEW BRUNSWICK.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
Col. F. P. Harding. L. A. Wilmot. Samuel Leonard Tilley. E. Baron Chandler. Robert Duncan Wilmot. Sir Samuel Leonard Tilley.	Oct. 18, 1867 July 14, 1868 Nov. 5, 1873 July 16, 1878 Feb. 11, 1880 Oct. 31, 1885 Sept. 21, 1893	A. R. McClelan Jabez B. Snowball L. J. Tweedie Josiah Wood G. W. Ganong William Pugsley. William F. Todd. Major-Gen, Hugh H. McLean.	Feb. 5, 1902 Mar. 2, 1907 Mar. 6, 1912 June 29, 1916 Nov. 6, 1917 Feb. 24, 1923

SEVENTRENTH MINISTRY.

Office.	Name.	Date of Appointment.
Premier and Attorney-General President of Council. Minister of Public Works Provincial Secretary-Treasurer Minister of Lands and Mines Minister of Agriculture. Minister of Health Minister without Portfolio.	Hon. W. H. Harrison. Hon. D. A. Stewart Hon. A. J. Leger Hon. L. P. D. Tilley Hon. Lewis Smith Hon. H. I. Taylor	May 20, 1931 Sept. 14, 1925 Sept. 14, 1925 May 20, 1931 Sept. 14, 1925 Sept. 14, 1925

QUEBEC.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
Sir N. F. Belleau. Sir N. F. Belleau. Réné Edouard Caron. Luc Letellier de St-Just. Theodore Robitaille. L. F. R. Masson. A. R. Angers. Sir J. A. Chapleau. L. A. Jetté.	Jan. 31, 1868 ¹ Feb. 11, 1873 Dec. 15, 1876 July 26, 1879 Nov. 7, 1884 Oct. 24, 1887 Dec. 5, 1892	Sir François Langelier Sir Pierre Evariste Leblanc Right Hon. Sir Charles Fitz- patrick L. P. Brodeur N. Perodeau	May 5, 1911 Feb. 9, 1915 Oct. 21, 1918 Oct. 31, 1923 Jan. 8, 1924 Jan. 10, 1929

¹ Second term.

EIGHTEENTH MINISTRY.

		
Office.	Name.	Date of Appointment.
Premier, Attorney-General, Minister of Municipal Affairs and Treasurer. Minister of Agriculture. Minister of Lands and Forests. Minister of Culonization, Game and Fisheries. Provincial Secretary and Registrar. Minister of Roads and Mines. Minister of Labour. Minister without Portfolio.	Hon. J. Ed. Perrault	Nov. 27, 1930 July 9, 1920 June 15, 1930 April 24, 1929 July 9, 1920 April 24, 1929 Oct. 28, 1931 Sept. 27, 1921

12.—Lieutenant-Governors of Provinces, 1867-1932, and Present Ministries—continued.

ONTARIO.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
Major-General H. W. Stisted	July 14, 1868 Nov. 5, 1873 May 18, 1875 June 30, 1880 Feb. 8, 1887	Sir John M. Gibson. LtCol. Sir John S. Hendrie. Lionel H. Clarke Col. Henry Cockshutt.	April 20, 1903 Sept. 22, 1908 Sept. 26, 1914 Nov. 27, 1910 Sept. 10, 1921 Dec. 30, 1926

TENTH MINISTRY.

Office.	Name.	Date of Appointment.
Prime Minister and Minister of Education Minister of Highways. Attorney-General. Provincial Secretary and Registrar Provincial Treasurer Minister of Mines. Minister of Public Works and Labour. Minister of Lands and Forests. Minister of Public Health Minister of Agriculture Minister of Of Agriculture Minister of Public Welfare. Minister without Portfolio. Minister without Portfolio. Minister without Portfolio.	Hon. William H. Price. Hon. George H. Challies. Hon. Edward A. Dunlop. Hon. Charles McCrea Hon. J. D. Monteith. Hon. Wm. Finlayson. Hon. John M. Robb. Hon. Thomas L. Kennedy.	July 31, 1931 Dec. 16, 1930 July 31, 1931 Dec. 16, 1930 Dec. 16, 1930 Dec. 16, 1931 Dec. 16, 1931 Dec. 16, 1930 Dec. 16, 1930 Dec. 16, 1930 Dec. 23, 1930

MANITOBA.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
Alexander Morris Joseph Ed. Cauchen James C. Aikins J. C. Schultz	April 9, 1872 Dec. 2, 1872 Dec. 2, 1877 Sept. 22, 1882 July 1, 1888	Sir D. H. McMillan. Sir D. H. McMillan. Sir D. C. Cameron. Sir James A. M. Aikins. Sir James A. M. Aikins. Theodore A. Burrows. J. D. McGregor.	May 11, 1906 ¹ Aug. 1, 1911 Aug. 3, 1916 Aug. 7, 1921 ¹ Oct. 9, 1926

Second term.

TWELFTH MINISTRY.

Office,	Name.	Date of Appointment.
Premier President of the Council		Aug. 8, 1922 Jan. 12, 1925
Attorney-General and Minister of Telephones and Telegraphs. Minister of Public Works and Labour Municipal Commissioner, Provincial Secretary and	Hon, W. J. Major, K.C Hon, W. R. Clubb	April 29, 1927 Aug. 8, 1922
Railway Commissioner Minister of Agriculture and Immigration Minister of Education	Hon. D. L. McLeod	May 27, 1932
Acting Minister of Health and Public Welfare Minister of Mines and Natural Resources Provincial Treasurer	Hon. R. A. Hoey Hon. J. S. McDiarmid	Oct. 14, 1982 May 27, 1932

12.-Lieutenant-Governors of Provinces, 1867-1832, and Present Ministries-continued.

SASKATCHEWAN.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
A. E. Forget	Sept. 1, 1905	H. W. Newlands	Feb. 17, 1921
	Oct. 5, 1910	H. W. Newlands	Feb. 22, 1926 ¹
	Oct. 6, 1915	LieutCol. H. E. Monroe, O.B.E.	Mar. 31, 1931

⁴Second term.

FIFTH MINISTRY.

Office.	Name.		te of ntment.
Premier, President of Council, Minister of Educa- tion and Minister of Natural Resources	Hon. J. T. M. Anderson, M.A., LL.B., D. Pæd		9, 1929
Minister of Municipal Affairs and Minister in Charge of the King's Printer's Office and Bureau of			
Publications, Loan and Trust Companies Act Attorney-General	Hon. Howard McConnell, B.A., LL.B., K.C	Sept.	9, 1929
Provincial Treasurer. Minister of Public Works, Minister of Telephones and Telegraphs, Minister in charge of Fire Pre- vention Act, Prairie and Forest Fires Act, Insur-	LL.B., K.C	Nov.	2, 1931
ance Act	Hon. J. F. Bryant, M.A., LL.B., K.C.	Sent	9, 1929
Minister of Public Health and Minister in charge of the Child Welfare Act			9, 1929
Provincial Secretary, Minister of Railways, Labour and Industries.	Hon. J. A. Merkley	Sept.	
Minister of Agriculture	Hon. W. C. Buckle	Sept.	9, 1929
Minister of Highways Minister without Portfolio. Minister without Portfolio.	Hon, Reginald Stipe, M.D	Sept. Sept.	9, 1929 9, 1929 9, 1929

ALBERTA.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment
George H. V. Bulyea	Sept. 1, 1905 Oct. 5, 1910 1 Oct. 6, 1915	Robert George Brett	Oct. 20, 1920 ¹ Oct. 20, 1925 April 24, 1931

¹Second term.

FIFTH MINISTRY.

Office.	Name.	Date of Appointment.
Premier Provincial Secretary Attorney-General Provincial Treasurer Minister of Lands and Mines Minister of Municipal Affairs Minister of Agriculture Minister of Public Health Minister of Public Health Minister of Public Works Minister of Deducation Minister of Deducation Minister of Education Minister without Portfolio.	Hon. J. F. Lymburn Hon. R. G. Reid Hon. Geo. Hoadley Hon. Geo. Hoadley (Acting) Hon. O. L. McPherson Hon. Perrin Baker	June 5, 1926 Nov. 23, 1925 1 Oct. 1, 1930 Nov. 23, 1925 Nov. 23, 1925 2 Nov. 23, 1925 2 Dec. 31, 1926 Nov. 23, 1925 2

¹ First appointed in the Hon. H. Greenfield's Ministry on Nov. 3, 1923. ² First appointed in the Hon. H. Greenfield's Ministry on Aug. 13, 1921. ⁴ Replaced Hon. V. W. Smith, deceased, July 19, 1932.

12.-Lieutenant-Governors of Provinces, 1867-1932, and Present Ministries-concluded.

BRITISH COLUMBIA.

LIBUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.
Albert Norton Richards	July 20, 1876 July 20, 1881 Feb. 8, 1887 Nov. 1, 1892 Nov. 18, 1897	James Dunsmuir T. W. Paterson Sir Frank S. Barnard Col. Edward G. Prior Walter C. Nichol. R. Randolph Bruce J. W. Fordham Johnson	Dec. 3, 1909 Dec. 5, 1914 Dec. 9, 1919 Dec. 24, 1920 Jan. 21, 1926

TWENTY-FIRST MINISTRY.

Office.	Name.	Date of Appointment,
Premier and Minister of Railways. Provincial Secretary and Commissioner of Fisheries	Hon. R. H. Pooley, K.C. Hon. N. S. Lougheed Hon. J. W. Jones Hon. William Atkinson Hon. W. A. McKenzie Hon. R. W. Pruhn Hon. J. Hinchliffe Hon. V. Shelly	Aug. 21, 1928 Aug. 21, 1928 Oct. 29, 1930 Oct. 29, 1930 Aug. 21, 1928 Aug. 21, 1928 Oct. 29, 1930 Aug. 21, 1928 Oct. 29, 1930

THE TERRITORIES.

Norn.—In 1888 the districts of Alberta, Assiniboia, Athabaska and Saskatchewan, then called the Northwest Territories, with their capital at Regina, were given local responsible government, and the old Northwest Council was replaced by the Northwest Legislature, which existed until Aug. 31, 1905. When the area included in these districts was formed into the provinces of Alberta and Saskatchewan, on Sept. 1, 1935, these provinces were given systems of government similar to the other provinces of the Dominion. The remaining areas (Yukon and the provisional districts of Franklin, Keewatin and Mackenzie) are now administered by the North West Territories and Yukon Division, Dominion Lands Administration, Department of the Interior. The Deputy Minister of the Department is, ex officio, the Commissioner of the Northwest Territories which comprises the three provisional districts.

LIEUTENANT-GOVERNORS.

Name.	Date of Appointment.	Name.	Date of Appointment.		
A. G. Archibald	May 10, 1870 April 9, 1872 Dec. 2, 1872 Oct. 7, 1876 Dec. 3, 1881	Joseph Royal C. H. Mackintosh M. C. Cameron A. E. Forget A. E. Forget	July 1, 1888 Oct. 31, 1893 May 30, 1898 Oct. 11, 1898 Mar. 30, 1904		

PART IV.—REPRESENTATIVES IN OTHER COUNTRIES.

Section 1.—Representatives within the Empire.

The policy of the early North American colonies, of maintaining in London accredited representatives for business and diplomatic purposes, was recognized in the eighteenth century as being a more satisfactory means of communication with the British Government than that provided by occasional official visits or by correspondence. Edmund Burke, the noted British statesman, held the position of agent for the colony of New York for some years following 1771. Of the Canadian colonies, Nova Scotia was the first to adopt this plan, its Legislature having appointed an agent in London in 1761. New Brunswick was similarly represented in 1786, Upper Canada as early as 1794, Lower Canada in 1812 and British Columbia in 1857. For some years after 1845, several of the colonies were represented in London by Crown agents, appointed by the Secretary of State, and paid by the colonies themselves. This system, however, was of but short duration.

The older provinces of Quebec, Ontario and British Columbia still adhere to the practice of former days and are represented in London by Agents-General, as is also the province of Alberta. These officials are appointed by the Legislatures of the provinces under general authority given in the British North America Act and act for their Governments in capacities very similar to that of the High Commissioner, with the exception, perhaps, that their duties have tended to become of a business rather than a diplomatic nature.

The High Commissioner for Canada.—With the federation of the provinces of British North America in 1867, a new political entity which could not avail itself of the services of the provincial agents was brought into existence. To supplement the ordinary method of communication between the Canadian and British Governments (which at that time was by correspondence between the Governor General and the Secretary of State for the Colonies, and is now between the Secretary of State for External Affairs of Canada and the Secretary of State for Dominion Affairs in London), the position of High Commissioner for Canada was created in 1880 (see R.S.C. 1927, c. 92). The duties of the office are defined in the Act as follows:—

"The High Commissioner shall-

"(a) act as representative and resident agent of Canada in Great Britain and in that capacity, execute such powers and perform such duties as are, from time to time, conferred upon and assigned to him by the Governor in Council;

"(b) take the charge, supervision and control of the immigration offices and agencies in Great Britain, under the Minister of Immigration and Coloniza-

tion

"(c) carry out such instructions as he, from time to time, receives from the Governor in Council respecting the commercial, financial and general interests of Canada in Great Britain and elsewhere"

Sir Alexander Galt was the first Canadian High Commissioner, holding office from May 11, 1880, until May, 1883; in 1884 he was succeeded by Sir Charles Tupper. Lord Strathcona and Mount Royal was appointed in 1896. Sir George H. Perley took charge of the High Commissioner's Office in 1914 but was appointed High Commissioner only on Oct. 12, 1917. The Hon. P. C. Larkin was appointed in February, 1922, and after his decease (Feb. 3, 1930) the Hon. G. Howard Ferguson was appointed on Nov. 28, 1930. The office of the High Commissioner for Canada is in the Canadian Building, Trafalgar Square, London, S.W. 1.

His Majesty's Government in Great Britain appointed in April, 1928, a High Commissioner for Great Britain in Canada, Sir William H. Clark, who resides in Ottawa, and whose position corresponds to that of the High Commissioner for Canada in Great Britain. This appointment was made in consequence of discussions at the Imperial Conference of 1926. The relevant passage in the report of the Inter-Imperial Relations Committee runs as follows:—

"A special aspect of the question of consultation which we considered was that concerning the representation of Great Britain in the Dominions. By reason of his constitutional position, as explained in section IV (b) of this report, the Governor General is no longer the representative of His Majesty's Government in Great Britain. There is no one therefore in the Dominion capitals in a position to represent with authority the views of His Majesty's Government in Great Britain.

"We summed up our conclusions in the following resolution which is submitted for the consideration of the Conference:—

"'The Governments represented at the Imperial Conference are impressed with the desirability of developing a system of personal contact, both in London and in the Dominion capitals, to supplement the present system of intercommunication and the reciprocal supply of information on affairs requiring joint consideration. The manner in which any new system is to be worked out is a matter for consideration and settlement between His Majesty's Governments in Great Britain and the Dominions, with due regard to the circumstances of each particular part of the Empire, it being understood that any new arrangements should be supplementary to, and not in replacement of, the system of direct communication from Government to Government and the special arrangements which have been in force since 1918 for communications between Prime Ministers."

Section 2.—Representatives outside the Empire.

The Canadian Minister to the United States.— For many years the diplomatic business between Canada and the United States has been steadily increasing, as the natural result of the proximity of the two countries and the closeness of the business relationships between their citizens. Before the Great War a former British Ambassador at Washington, Lord Bryce, said that between two-thirds and three-quarters of the work of the British Embassy in the United States was occasioned by Canadian affairs.

In January, 1918, a temporary Canadian War Mission was established at Washington under the chairmanship of Mr. Lloyd Harris, and was maintained for some years after the close of the War. Though not a formal diplomatic mission, its duties extended to questions usually dealt with through diplomatic channels. After the retirement of this mission Canada was represented in Washington by Mr. M. Mahoney, who acted as agent of the Department of External Affairs, and, through the courtesy of the British Government, occupied an office at the British Embassy.

In 1920, following discussions between the British and Canadian Governments, it was announced that agreement had been reached upon the appointment of a Canadian Minister at Washington, who would act for the British Ambassador in the latter's absence. No appointment was made until Nov. 26, 1926, when, after decision to omit the arrangement that the Canadian Minister should substitute

for the British Ambassador, Hon. Charles Vincent Massey was appointed as His Majesty's Envoy Extraordinary and Minister Plenipotentiary in the United States of America to represent the interests of the Dominion of Canada (P.C. 1780 of Nov. 10, 1926). Mr. Massey took up his duties in February, 1927 and held office until July 23, 1930. Major W. D. Herridge, K.C., D.S.O., M.C., was appointed Minister to the United States on Mar. 7, 1931. The Canadian Legation in Washington is situated at 1746 Massachusetts Ave.

The United States Government reciprocated in 1927 by appointing Hon. William Phillips its first Minister to Canada; his successor, Lt.-Col. the Hon. Hanford MacNider, was appointed in August, 1930, and resigned in September, 1932. The office has since been vacant, pending an appointment by the Roosevelt Administration.

The Canadian Minister to France.—For many years the Canadian Government maintained an agency at Paris. The post was first occupied in 1882 by Hon. Hector Fabre, who also represented for a time the Government of Quebec. After his death Hon. Philippe Roy was appointed in May, 1911, with the title of Commissioner-General of Canada in France. In 1928 an exchange of Ministers was agreed upon between Canada and France, and in September of that year Hon. Philippe Roy was appointed as His Majesty's Envoy Extraordinary and Minister Plenipotentiary in France to represent the interests of the Dominion of Canada. The Canadian Legation in Paris is situated at No. 1, rue François premier.

The French Government appointed M. Georges Jean Knight as its first Minister in Canada in 1928. On July 1, 1930, he was reappointed to the French Foreign Office, and on Mar. 12, 1931, M. Charles Arsène Henry was appointed his successor.

The Canadian Minister to Japan.—In 1928 an exchange of Ministers was agreed upon between the Governments of Canada and Japan, and Hon. H. M. Marler was appointed in 1929 as His Majesty's Envoy Extraordinary and Minister Plenipotentiary in Japan to represent the interests of the Dominion of Canada.

The Japanese Government appointed Mr. Iyemasa Tokugawa as its first Minister in Canada in 1929.

Canadian Advisory Officer, League of Nations.—The precedent of appointing permanent representatives at Geneva accredited to the League of Nations was set, it is understood, by Japan, and has found favour especially among those nations which are situated at a distance from Geneva. It was found that, while countries adjacent to the seat of the League were able without difficulty to include in the personnel of their delegations to the Assembly and Council various advisors and assistants at a minimum of expense, distant countries were at a disadvantage in this respect. Canada's duties as a member of the Assembly and of the International Labour Conference, and as one of the eight countries represented on the Governing Body of the International Labour Office, made this disadvantage especially felt. Accordingly, the position of Dominion of Canada Advisory Officer, League of Nations, was created by Order in Council P.C. 2174 of Dec. 17, 1924, and Dr. W. A. Riddell was appointed to the post on Jan. 1, 1925.

The duties of the Canadian Advisory Officer are "to establish and maintain as close relations as possible with the Secretariats of the League of Nations and the International Labour Office", to "communicate with the Government of Canada as to all matters arising and requiring its attention", and to "act in all such matters

in an advisory capacity to the Government of Canada and to delegates from the Government of Canada to conferences arising out of the organizations beforenamed" The office of the Canadian Advisory Officer is situated at 41. Quai-Wilson, Geneva.

PART V.—CANADA AND THE LEAGUE OF NATIONS.1

The League of Nations is an association of States which have pledged themselves, in accepting the Covenant (i.e., the constitution of the League), not to go to war before submitting their disputes with each other or States not Members of the League to arbitration or inquiry and a delay of from three to nine months. Furthermore, any State violating this pledge is automatically in a state of outlawry with the other States, which are bound to sever all economic and political relations with the defaulting member. The States Members of the League have pledged themselves to co-operate over a wide range of economic, social, humanitarian and labour questions.

The League of Nations came formally into existence on Jan. 10, 1920, through the coming into force of the Treaty of Versailles. The two official languages of the League are English and French. The seat of the League is Geneva, Switzerland. Canada, as a signatory of the Treaty of Versailles, has been a Member of the League from the beginning.

The Organs of the League.—The primary organs of the League are: (1) The Council; (2) The Assembly; (3) The Secretariat; (4) The International Labour Organization (see Chap. XIX); (5) The Permanent Court of International Justice.

The Council.—The Council now consists of five permanent Members (the British Empire. France, Italy, Japan² and Germany), together with nine nonpermanent Members elected for three years (three retiring each year) from among the fifty-four States which are Members of the League. The non-permanent Members of the Council are at present as follows: Guatemala, Irish Free State and Norway, terms expiring 1933; Panama, China and Spain, terms expiring 1934; Czechoslovakia, the United States of Mexico and Poland, terms expiring 1935. Canada was a Member of the Council of the League from 1927 to 1930.

The Assembly.—Every State Member of the League is entitled to be represented by a delegation to the Assembly of not more than three delegates, but has only one vote. The Assembly normally meets at the seat of the League (Geneva) on the first Monday in September. In 1930, the Canadian delegation was headed by Rt. Hon. Sir R. L. Borden; in 1931, by the Hon. Hugh Guthrie and in 1932, by the Hon. C. H. Cahan. At the extraordinary Assembly in March, 1932, Rt. Hon. Sir G. H. Perley was the senior delegate.

The Secretariat.—The Secretariat is a permanent organ composed of the Secretary-General and a number of officials selected from among citizens of all Member

A fuller article on Canada and the League of Nations, contributed by N. A. Robertson of the Department of External Affairs to the 1931 Year Book, gave the names of the States Members of the League, information regarding the budget of the League, mandates, minorities, the economic and financial organization, the organization for communications and transit, the health organization and social and humanitarian work of the League, in addition to fuller treatments of the subjects here dealt with. This article appeared at pp. 115-22 of the 1931 Year Book. The text of the Covenant of the League of Nations, and the General Act for the Pacific Settlement of International Disputes, may be obtained from the Kine's Printer Ottage price Scentz. King's Printer, Ottawa, price 25 cents.

2 Japan gave formal notice of intention to withdraw from the League on March 27, 1933.

States and from the United States of America. The Secretary-General appointed by the Peace Conference was the Hon. Sir James Eric Drummond, K.C.M.G., C.B., who has submitted his resignation; his successor, M. Joseph A. Avenol, has been appointed by the Council with the approval of the majority of the Assembly. The other officials are appointed by the Secretary-General with the approval of the Council.

Permanent Court of International Justice.—The Permanent Court of International Justice was established by the Protocol of Dec. 16, 1920, in accordance with Article 14 of the Covenant of the League of Nations. It is composed of a body of fifteen judges elected by the Assembly and Council of the League of Nations for a term of nine years, and sits at the Hague. The Court is competent to hear and determine any dispute of an international character which the parties thereto submit to it; it may also give an advisory opinion upon any dispute or question referred to it by the Council or the Assembly. Article 36 of the Statute of the Court provides that any State may recognize as compulsory the jurisdiction of the Court in all or any classes of legal dispute concerning:—

- (a) The interpretation of a Treaty.
- (b) Any question of international law.
- (c) The existence of any fact which, if established, would constitute a breach of an international obligation, and the nature and extent of the reparations to be made for the breach of the international obligation.

Canada has been a Member of the Court from its establishment, and in 1929 accepted, subject to certain reservations, the compulsory jurisdiction of the Court in the cases contemplated in Article 36.

CHAPTER IV .-- POPULATION.1

The Population chapter of the Year Book is a précis of the results of investigations into the number and the constitution of the population made in the seven censuses of Canada since Confederation, summarizing the growth and distribution of population between 1871 and 1931, as shown by the successive decennial censuses, in regard to the chief matters investigated at the censuses.

The modern census, now established in all civilized countries as the chief method of measuring periodically the population and its social and economic condition, has been described by a modern United States writer as the greatest single peace-time activity in which a government engages, both in respect of the physical extent of its organization and the important part which its results play in the general administration of public affairs.

Under the Canadian constitution, the legal raison d'être of the census is to determine representation in the House of Commons; after each decennial census a redistribution of seats in the House, following the course of the movement of population, is made in the manner described on pp. 80-83 of this volume. But the census, especially since the introduction of methods of mechanical tabulation, has become far more than a mere counting of heads. It is a great periodical stocktaking of the people and their affairs, designed to show as fully as possible the stage which has been reached in the progress of the nation. Thus the numbers, local distribution, age, sex, racial origin, nationality, language, religion, education, housing and occupations of the people, severally constitute investigations of enormous importance, to which all the continuous and routine statistics collected in the ordinary course of administration must be related if their importance is to be realized. The census, in fine, rounds out and completes the scheme of information upon which the Government relies in conducting the business of the country.

On account of the requirements as to parliamentary representation and the payment of provincial subsidies, which are based on population, the Canadian census is taken on the de jure principle; i.e., each person is counted as belonging to the locality in which he is regularly domiciled, irrespective of where he may be at the date of the enumeration. Under the de facto method, adopted in the United Kingdom, each individual is counted as belonging to the locality where he is found on the census date. The de facto method is undoubtedly simpler, but the de jure plan better portrays the permanent condition of the population. The chief difficulty in the application of the latter method is found in connection with holiday resorts, in the segregation of "visitors" and the tracing of "absentees". A date prior to the opening of the holiday season is accordingly chosen for the date of the census. In the Canadian census, students and inmates of hospitals are assigned to their home localities, while inmates of prisons, jails, lunatic asylums, etc., are counted where found.

Section 1.—Census Statistics of General Population.

Since the creation of the Dominion of Canada, in 1867, decennial consuses have been taken on the *de jure* plan as of the dates April 2, 1871, April 4, 1881, April 5, 1891, April 1, 1901, June 1, 1911, 1921, and 1931. The population of Canada and its percentage distribution as on each date, together with the absolute and percentage increases from decade to decade, are given in Tables I to 4 immediately following.

^{&#}x27;This chapter has been revised by E. S. Macphail, Chief, Demography Branch, Dominion Bureau of Statistics. A list of the publications of this branch will be found in Chapter XXIX, Section I, under "Population"

1.—Population of Canada, by Provinces and Territories, in the Census Years 1871 to 1931.

Province or Territory.	1871.	1881.	1891.	1901.	1911.	1921.	1931.
	No.	No.	No.	No.	No.	No.	No.
Prince Edward Island	94,021	108,891	109,078			88,615	88,038
Nova Scotia		440,572	450,396			523,837	512,840
New Brunswick	285,594	321 233	321,263	331,120		387,876	408,219
Quebec	1,191,516	1,359,027	1,488,535	1,648,898	2,005,776%	2,360,6665	2,874,254
Ontario	1,620,851	1,926,922	2, 114, 321		2,527,2922		3,431,68
Manitoba	25,228	62,260	152,506			610,118	700, 13
Saskatchewan	- 1	-	-	91,279		757,510	921.78
Alberta	- 1		~	73,022	374, 295	588,454	731,60
British Columbia	36,247	49,459	98,173	178,657	392,480	524.582	694, 26
Yukon			- 1	27,219	8,512	4.157	4.23
Northwest Territories	48,000	56,446	98,967	20,129	6.5072	7,988	9.72
Royal Canadian Navy	-	· -	-	-	-	485	6
Totals	3,689,257	4,324,810	4,833,239	5,371,315	7,205,643	8,787.9495	10,376,78

2.—Percentage Distribution of Canadian Population, by Provinces and Territories, 1871 to 1931.

Province or Territory.	1871.	1881.	1891.	1901.	1911.	1921.	1931.
	p.a.	p.c.	p.c.	p.c.	p.c.	p.e.	p.c.
Prince Edward Island	2.55	2 52	2.25	1.92	1-30	1.01	0.85
Nova Scotia	10.51	10 19	9.32	8.56	6 83	5 96	4.94
New Brunswick	7.74	7.43	6.65	6-16	4 88	4.41	3 - 93
Quebec,	32.30	31.42	30.80	30.70	27 83	26-87	27 - 70
Ontario	43-94	44.56	43.74	40.64	35.07	33.38	33.07
Manitoba	0.68	1.44	3.16	4-75	6.40	6.94	6.73
askatohewan	~	-		1.70	6.84	8-62	8.89
Albertai	- 1	- 1	-	1.36	5·19 i	6.70	7.0
British Columbia	0.98	1.14	2.03	3.33	5.45	5.97	6-69
Yukon			- 1	0-51	0.12	0-05	0.04
Northwest Territories	1.30	1.30	2.05	0.37	0.09	0.09	0.09
Totals	100.0	100 0	100-0	100.0	100.0	100-0	100-6

3.—Population of Canada, by Provinces and Territories, in 1871 and 1931, Numerical Increase in each Decade from 1871 to 1931 and Total Increase.

Decrines on	Popula-	I	norease i	Popula- tion	Increwe, 1871				
Province or tion in 1871.	1871 to 1881.	1881 to 1891.	1891 to 1901.	1901 to 1911.	1911 to 1921.	1921 to 1931.	in 1931.	to 1931.	
P.E. Island. N.S. N.B. Que Ont Man Sask. Alta. B.C. Yukon. N.W.T. Royal Cdn. Navy	387,800 285,594 1,191,516 1,620,851 25,228 - - 36,247	No 14,870 52,772 35,639 167,511 306,071 37,032 - 13,212 8,446	30 129,508 187,399 90,246 - 48,714	68,626 102,705 91,279 73,022	20,769 856,878 344,345 206,183 401,153 301,273 213,823 -18,707	354, 889 4 406, 370 148, 724 265, 078 214, 159 132, 102 -4, 355	169,681 73 1,735	512,846 408,219 2,874,255 3,431,683 700,139 921,785 731,605 694,263 4,230	125, 046 122, 625 1, 682, 739 1, 810, 832 674, 911 921, 785 731, 605 658, 010 4, 230
•	3,689,257	¢ 35,553	503,429	538,076	1,835,328			10,376,786	6, 687, 529

The population of the Prairie Provinces in 1906, 1916 and 1926 is shown on pp. 127-128 of the 1930 Year Book. For intercensal estimated populations, see Table 37, p. 145. *Corrected as a result of the Extension of Boundaries Act, 1912. *Corrected by transfer of population of Fort Smith (368) to Northwest Territories. *The decreases shown in the population of the Northwest Territories since 1891 are due to the separation therefrom of vast areas to form Alberta, Saskatchewan and Yukon and to extend the boundaries of Quebec, Ontario and Manitoba. *Revised in accordance with the Labrador award of the Privy Council, Mar. 1, 1927. *Members of the Royal Canadian Navy were counted in their homes in the census of 1931.

4Population of Canada, b	by Provinces and Territories, in 1871, and Inc	rease Per
Cent.	by Decades, from 1871 to 1931.	

	Popula-	Încrea	Increase					
Province or Territory.	tion in 1871.	1871 to 1881.	1881 to 1891.	1891 to 1901.	1901 to 1911.	1911 to 1921.	1921 to 1931	per cent in 60 Years.
	No.	p.c.	p.c.	р¢.	p.c.	p.e.	p.c.	р.с.
Prince Edward Island Nova Scotia Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories!	94,021 387,800 285,594 1,191,516 1,620,857 25,228 - 36,247 - 48,000	12.48	0·17 2·23 0·01 9·53 9·73 144·95 - 98·49 - 75·33	-5·33 2·04 3·07 10·77 3·25 67·34 - 81·98 - -79·66	-9-23 7-13 6-27 21-64 15-77 80-79 439-48 412-58 119-68 -68-73 -67-67	-5 46 6 40 10 23 17 69 2 16 08 32 23 53 83 57 22 33 66 -51 16 22 76	-0.65 -2.10 5.24 21.76 16.98 14.75 21.69 24.33 32.35 1.76 21.72	-6.36 32.24 42.94 141.23 111.72 2,675.25 - 1,815.37 -79.74
Totals.	3,689,257	17.23	11 76	11.13	34-17	21.943	18-08	181 - 27

¹The decreases shown in the population of the Northwest Territories since 1891 are due to the separation therefrom of immense areas to form Yukon and the provinces of Alberta and Saskatchewan as well as to extend the boundaries of the older provinces of Quebec, Ontario and Manitoba.

²Revised in accordance with the Labrador award of the Privy Council, Mar. 1, 1927.

Early Censuses.—The credit of taking the first census of modern times belongs to Canada. The year was 1666, the census that of the colony of New France. Still earlier records of settlement at Port Royal (1605) and Quebec (1608) are extant; but the census of 1666 was a systematic "nominal" enumeration of the people, taken on the de jure principle on a fixed date, showing age, sex, occupation and conjugal and family condition. A second census in 1667 included the areas under cultivation and the numbers of sheep and cattle. When it is recalled that in Europe the first census dates only from the eighteenth century (those of France and England from the first year of the nineteenth) and that, in the United States, the census begins only with 1790, the achievement of the primitive St. Lawrence colony, in instituting what is to-day one of the principal instruments of government throughout the civilized world, may call for more than passing appreciation.

The census of 1666 (the results occupy 154 pages in manuscript, and are still to be seen in the Archives in Paris, or in a transcript at Ottawa) showed some 3,215 souls. It was repeated at intervals more or less regularly for a hundred years. By 1685 the total had risen to 12,263, including 1,538 Indians settled in villages and living a civilized life under the supervision of the missionaries. By the end of the century it had passed 15,000, and this was doubled in the next twenty-five years. Not to present further details, some of which will be found in the Chronology on pp. 60-69, it may be said that at the time of the cession (1763) the population of New France was nearly 70,000 (69,810 in 1765), whilst another 10,000 French (thinned to these proportions by the expulsion of the Acadians) were scattered through what are now Nova Scotia, New Brunswick and Prince Edward Island. The British population of Nova Scotia was 8,104 in 1762, thirteen years after the foundation of Halifax in 1749.

Our chief sources of statistics for half a century and more after the cession are the reports—more or less sporadic—of colonial governors though censuses of the different sections under British rule were taken at irregular intervals. British settlement on a substantial scale in the Gulf provinces and in Ontario dates only from the Loyalist movement which followed the American Revolution, at the end of which, i.e., about the year of the Constitutional Act (1791), the population of

Lower Canada was approximately 163,000, whilst the newly constituted province of Upper Canada, under Lieutenant-Governor Simcoe, numbered perhaps 15,000, and the addition of the maritime colonies brought the total to well over 200,000. A decade later Canada began the nineteenth century with a population of probably not less than 250,000 or 260,000. Subsequent censuses gave the populations of the different colonies as follows: Upper Canada (1824) 150,066, (1840) 432,159; Lower Canada (1822) 427,465, (1844) 697,084; New Brunswick (1824) 74,176, (1840) 156,162; Nova Scotia (1817) 81,351, (1838) 202,575; Prince Edward Island (1822) 24,600, (1841) 47,042.

The policy of desultory census-taking was ended in 1847 by an Act of the Canadian Legislature creating a "Board of Registration and Statistics" with instructions "to collect statistics and adopt measures for disseminating or publishing the same" and providing also for a decennial census. The first census thereunder was taken in 1851 and, as similar censuses were taken by New Brunswick and Nova Scotia in the same year, we have a regular measure of population growth in Canada over the past 80 years. The 'fifties saw a very rapid development, especially in Ontario, whilst the 'sixties showed only less substantial gains. In the years following Confederation there was a spurt, the increase between 1871 and 1881 (which included several lean years towards the end) being 635,553, or 17.23 p.c. In neither of the last two decades of the nineteenth century, however, was this record equalled either absolutely or relatively, the gains in each being under 550,000, or 12 p.c. With the end of the century the population of Canada had reached approximately five and a third millions, or twenty times that of 1800. It has increased by five millions in the past thirty years.

Expansion in the Twentieth Century.—It is within the present century that the most spectacular expansion of the population of Canada has taken place. The outstanding feature was, of course, the opening to settlement of the "last best West". The unorganized territories of British North America had been ceded to the Dominion soon after Confederation, and the West had been tapped and traversed by the Canadian Pacific Railway in the 'eighties and 'nineties. But though western population was doubled in each of these decades, it was only with the launching of a large-scale immigration movement after 1900 that western settlement and production became a first-rate economic factor. Simultaneously an almost equally striking development occurred in the industrial centres of Eastern Canada, forming the immediate basis for the move upon the West. At the back, of course, was the heavy inflow of British and other capital—a total of \$1,500,000,000 between 1900 and 1912—which went to finance the large constructive undertakings (chiefly railway, municipal and industrial) which characterized the movement and which represented at bottom the traditional policy of England in search of cheap and abundant food for her workshop population. The years 1901 to 1911, in brief, form the decas mirabilis of Canadian expansion. The immigration movement just mentioned, which had previously run well under 50,000 per annum, rose rapidly to over five times that volume, eventually passing 400,000 in a single year. In the ten years between 1901 and 1911 it exceeded 1,800,000 and, though at least a third of these were lost (partly in the return to Europe of labour temporarily attracted by the railway and other developments in progress, and partly in the never-ceasing and natural "drag" of the United States upon a virile and less wealthy people), it formed the chief factor in the gain of 34 p.c. which the total

¹A résumé of the results of all the censuses taken in Canada between 1666 and 1861 was published as Vol. IV of the census of 1871.

population of Canada registered in that decade, and which was larger than the relative growth of any other country during the same period. The movement was continued and even intensified in the first three years of the second decade of the century, after which a recession set in to which the outbreak of war gave a new and wholly unexpected turn. Nevertheless, the decade which closed with the census of 1921 showed over 1,700,000 immigrant arrivals in Canada, and, though the proportionate loss of these was very heavy (probably as much as two-thirds), Canada's relative gain for the decade was again among the largest in the world.

Results of the Census of 1931.—According to the final results of the 1931 census, the total population of the Dominion on June 1, 1931, was 10,376,786, as compared with 8,787,949 on June 1, 1921, an increase of 1,588,837 or 18.08 p.c. in the decade, as compared with 21.94 p.c. and 34.17 p.c. during the decades 1911 to 1921 and 1901 to 1911 respectively.

During the decade 1911-21 the countries which comprise the British Empire, and more especially the United States which was in the Great War for only nineteen months as against Canada's fifty-two, suffered less in actual loss of life from the War and its consequences than the continental countries of Europe. None of them declined in population during the period, as many continental European countries did. Their percentage increases, however, were in almost all cases lower than in the previous decade. Thus the population of England and Wales increased between 1911 and 1921 only from 36,070,492 to 37,885,242, or 5.0 p.c., as compared with an increase of 10.9 p.c. in the previous decade; Scotland, again, increased only from 4,760,904 to 4,882,497, or 2.6 p.c., as compared with 6.5 p.c. between 1901 and 1911. Nor has this situation been much improved in the post-war decade 1921-31, for the increase in England and Wales during these years was but $5 \cdot 4$ p.e. and Scotland actually showed a decrease of 0.8 p.c. Of the overseas Dominions, New Zealand, according to the latest official estimate (the census of 1931 was postponed), increased her population from 1,218,913 to 1,510,940 or by nearly 24 p.c. for the decade ended 1931, as compared with 20.9 p.c. and 30.5 p.c. respectively for the decades ended 1921 and 1911. In the case of the white population of South Africa, much the same condition obtained. The Commonwealth of Australia, the only Dominion to grow more rapidly in the second decade of the twentieth century than in the first, increased from 4,455,005 in 1911 to 5,435,734 in 1921 or by 22-01 p.c. as compared with 18.05 p.c. for the previous decade and 19.4 p.c. for the most recent decade 1921-31 (based on the latest official population estimate of 6,488,707 for 19311). The population of the continental United States increased between 1920 and 1930 from 105,710,620 to 122,775,046, an increase of 16·1 p.c., as compared with 14.9 p.c. in the decade 1910-20 and 21 p.c. in the decade 1900-10.

Considering now the movement of population within the Dominion of Canada itself, it is evident from Table 1 that in this country, as formerly in the United States, there is a distinct movement of population from east to west. In the decade from 1911 to 1921 this was clearly apparent, for the four western provinces then increased their population by no less than 44 p.c. and for the decade 1921-31 the increase was from 2,480,664 to 3,047,792, or 22.86 p.c. From 1921 to 1931 the five eastern provinces increased from 6,294,655 to 7,315,041, an increase of 1,020,386 persons, which, though absolutely larger than the figure for the West, constitutes an increase of only 16.2 p.c. over the 1921 population. The same conclusion may be deduced from Table 2, which shows that while in 1871 only 2.96 p.c. and in

As in the case of New Zealand the census of 1931 was postponed

1881 only 3.88 p.c. of the population of the country dwelt west of the lake of the Woods, the percentage in 1891 was 7.24; in 1901, 12.02; in 1911, 24.09; in 1921, 28.37; and in 1931, 29.50.

On the other hand, the Maritime Provinces, which in 1871 contained 20.80 p.c. of the total population of the Dominion, had in 1881 20.14 p.c., in 1891 18.22 p.c., in 1901 16.64 p.c., in 1911 13.01 p.c., in 1921 11.38 p.c., and in 1931 only 9.72 p.c. of the population. Ontario and Quebec—the old pre-Confederation Province of Canada—still remain the chief centre of population. Their proportion of the total was 60.77 p.c. in 1931, as compared with 76.24 p.c. in 1871, 75.98 p.c. in 1881, 74.54 p.c. in 1891, 71.34 p.c. in 1901, 62.90 p.c. in 1911 and 60.25 p.c. in 1921. In other words, the net result of the sixty years has been that in 1931 three-fifths of the population of the Dominion lived in these provinces as compared with more than three-fourths in 1871.

In 1881 the "centre" of population east and west was in the county of Prescott, Ontario, not far from Caledonia village. In 1891 it had moved west to the vicinity of Ottawa, where it remained in 1901. In 1911 the county of Victoria, Ontario, contained the centre, and it was probably in the Parry Sound district of Ontario in 1921 and at the present time is somewhat west of this locality.

Density of Population.—The density of population in 1931 (i.e., the number of persons per square mile of the land area as in that year), as compared with 1921 and 1911, is shown by provinces and for the country as a whole in Table 5. Generally speaking the density of population decreases as one travels westward, but the enormous area of the province of Quebec unduly reduces the density of its population, which was 5.49 in 1931. As among the nine provinces, the density of population is greatest in Prince Edward Island and least in British Columbia.

5.—Density of Population in Canada, by Provinces and Territories, 1911, 1921 and 1931.

Province.	1911.	1921.	1931.	Province or Territory,	1911.	1921.	1931.
Prince Edward Island Nova Scotia New Brunswick	42-92 23-74 12-70	40 · 57 25 · 25 14 · 00	40-81 24-72 14-73	Saskatchewan Alberta British Columbia Canada, Exclusive	2·07 1·50 1·12	3·18 2·87 1·50	3·87 2·94 1·98
Quebec Ontario Manitoba	3·83 6·96 2·10	4·51 8·08 2·78	5·49 9·45 3·19	of the Territories Yukon Northwest Territories	3·61 0·04 0·005	4·40 0·02 0·006	5 · 20 0 · 02 0 · 007
				Canada	2.08	2.54	3-00

Notz.—Densities are for revised land arens as in 1933 (see p. 7).

Elements of Growth.—The former lack of comprehensive and comparable vital statistics for the whole of Canada, together with the lack of statistics of emigration, makes it difficult to determine how far the growth of population since the commencement of the twentieth century is due to natural increase and how far to immigration. The following estimate (Table 6) may, however, be of interest. During the decade 1911-21, in addition to 60,000 Canadians who died overseas and nearly 20,000 who took their discharge in the United Kingdom, there were also great numbers of residents of Canada—most of them recent immigrants—who left Canada to join the forces of the Mother Country and her allies in the Great War and did not return.

6.—Movement of Population, including Estimated Natural Increase, Recorded Immigration and Estimated Emigration, for the Inter-Censal Periods 1991-11, 1911-21 and 1921-31.

Decade and Item.	No.
Decade 1901–1911— Population, Census of April I, 1901 Natural increase (1901–1911), estimated. Immigration (April I, 1901, to May 31, 1911).	5,371,315 853,566 1,847,651
Total	8,072,532 7,206,643 865,889
Decade 1911-1921— Population, Census of June 1, 1911. Natural increase (1911-1921), estimated. Immigration (June 1, 1911, to May 31, 1921)	1, 150, 125
Total. Population, Census of June 1, 1921 Emigration (June 1, 1911, to May 31, 1921) estimated.	10,085,689 8,787,949 1,297,740 ²
Decade 1921-1931— Population, Census of June 1, 1921 Natural Increase (1921-1931), partly estimated for the years 1921-25 in the case of Quobec, Immigration (June 1, 1921, to May 31, 1931), including 288,874 returned Canadians	8,787,9491 1,325,256 1,509,136
Total	11.622,341 10.376,786 1,245,555
Net gain in population, 1901-1911. Net gain in population, 1901-1921 Net gain in population, 1921-1931.	1,581,306

¹Revised in accordance with the Labrador award of the Privy Council, Mar. 1, 1927.

²This figure includes also the 60,000 Canadian lives lost at the front and the soldiers (about 20,000) enlisting in the Canadian forces and receiving their discharge in the United Kingdom.

Subsection 1.—Population of Canada by Provinces and Electoral Districts.

The populations of the several provinces and electoral districts of Canada in 1931 as compared with 1921 are given in Table 7.

7.—Population of Canada, by Provinces and Electoral Districts, 1931, Compared with 1921.

Province and Electoral District,	Populat	ion.	Province and	Population.		
	1931.	1921.	Electoral District.	1931.	192t.	
Prince Edward Island	88,038	88 . ¢ 15	New Brunswick	406,219	287,876	
Kings	19, 147	20,445		21,337	21,435	
Prince	31,500	81.520	Gloucester	41,914	38,684	
Queens	37.391	36,650	Kent	23,478	23,916	
-			Northumberland	34,124	33,985	
Nova Scotia	\$12,846	523,837	Restigouche Madawaska	54,386	42,977	
Antigonish-Guysborough	25,516	27.098	Royal	31,026	32,078	
Cape Breton North	· 1		St. John-Albert	69,292	69,093	
Victoria	29,116	31,325	Victoria-Carleton	35,703	33,900	
Cape Breton South	66,999	58,716	Westmorland	57,506	53,387	
Colchester	25,051	25, 196	York-Sunbury	89,453	38.421	
Cumberland,	36,366	41, 191	, i			
Digby-Annapolis	34,650		Quebec	2,874,255	2,360,665	
Halifax City and Countyl	100, 204	97,228	Argenteuil	18,976	17,165	
Hants-Kings	43,750	43,462	Bagot	16,914	18.035	
Inverness	21,055.	23,808	Beauce,	57,544	52,701	
Pictou	39,018	40,851		25,163	19,888	
Queens-Laneaburg	42,286	43,686		21,296	21,190	
Richmond-West Cape			Rerthier-Maskinongé	35,545	36,762	
Breton	15,411	17,646		32,432	29,092	
Shelburne Yarmouth	33,424	35,865	Brome-Missisquoi	$32,069^{\circ}$	31,090	

7.—Population of Canada, by Provinces and Electoral Districts, 1931, Compared with 1921—continued.

Province and	Popula	tion.	Province and Electoral District.	Population.		
Electoral District.	1981.	1921.	Electrical District.	1931.	1921.	
Quebec—concluded.			Ontarlo-concluded.			
Chambly-Verchères	39,404	34,643 47,852	Essex East	42,976 35,044	25,28 29,37 49,41	
Champiain	50,176 54,999	47,852	Essex South	35,044	29,37	
Charlevoix-Saguenay Chateauguay-Hunting-	54,999	45,692	Essex West	83,808 36,040	49,41 27,96	
don	25, 470	26, 731	Frontenac-Addington	29,434	30,69	
don Chicoutimi Compton Dorchester	25,470 55,724 31,858 31,693	37,678 32,816 29,563	GlengaryGrenville-Dundas	29,434 18,666 32,425	20,51	
Compton	31,858	32,816	Grenville-Dundas	32,425	33,95	
Denominand Arthonolog	31,093 53,338	29,305 44 823	Grey North	30,288 27,411	30.66 28.38	
Drummond-Arthabaska Gaspé Hull	45,617	44,823 40,375	Haldimand	21.428	21.2	
Hull	49,196 27,585	39,180 25,913	Halton	26,558 66,771	24,89 54,2	
Joliette Kamouraska	27,585	25,913	Hamilton East	66,771	54,23	
Labella	24,085	22,014 35,927	Hamilton West	56,305 27,160	58, 28 27, 43	
Labelle Lake St. John	36,953 50,253	35 539	Hastings South	39,327	37.8	
Laprairie-Napierville L'Assomption-Montcalm	21.091	20,065 28,318 28,314	Huron North	22.662	37,85 23,54 23,54	
L'Assomption-Montcalm	29,188 30,434	28,318	Huron South	22,518	23,5	
Laval-Two Mountains Lévis	30,434 35,656	33 393	I Kant	83,925 54,715	26,3; 50,6	
L'Islet	19,404	17,859	Kingston City	26, 180 26, 736	24,1	
L'Islet Lotbinière Matane	23,034 45,272	17,859 21,837 36,303	Lambton East	26,736	28.2	
Matane	45,272	36,303 33,633	Lambton West Lanark	34,040 32,856	30,4 32,9	
Mégantie	35, 492 20, 239	21 997	Leeds	35,157	84,9	
Montmagny Nicolet Pontiac	28,673	29,695	Lincoln	54, 199 59, 821	48,6	
Pontiac	64,155	29,695 45,682 34,452	London	59,821	53,8	
PortneufQuebec-MontmorencyQuebec-East.	39,522	34,452	Middlesex East Middlesex West	34,788	27,99 25.0	
Quebec-Montmorency	39,552 55,596	31,000 40,722	Musicoko-Ontario	23,632 35,513	25.0 85,0	
	36, 2351	25, 875	Nipissing Norfolk-Elgin Northumberland	70,204	49,9	
Quebec-West	52,309 21,483	25,875 37,562 19,548	Norfolk-Elgin	70,204 40,727	35.9	
Quebec-West Richelieu Richmond-Wolfe	21,483	19,848	Northumberland	30,727	30.5	
Richmond-Wolfe	41,867	42,248 27,520	Ontario Ottawa	45, 139 106, 077	31,0 93,7	
Rimouski St. Hyacinthe-Rouville.	33,151 39,630	27,520 36,754 23,518 25,784	Oxford North	20.2441	24.5	
St. Johns-Iberville Shefford	39,630 27,051 28,262	23,518	Oxford North Oxford South	22,581	22,2	
Shefford	28.262	25,784	Parkdale Parry Sound Patricia ¹	59,246 25,900	59,5	
Sherbrooke	37,386	30,786 23,380	Parry Sound	3,973	26.8 2,4	
Stanstead Témiscouata	50, 1631	44.310	Peel	28,156	23,8	
Terrebonne	38,611	44,310 33,908	Peel Perth North	33.822	32,4	
Three Rivers-St. Maurice	25,118 50,163 88,611 69,095	50,845	Perth South	17,570 37,042	18,3 35,2	
Vaudreuil-Soulanges Wright	21, 1141	21,620 25,867	Port Arthur-Thunder	31,042	50,2	
Yamaska.	27,107 16,820	18,056	Dav	35,865	26,8	
Quebec Unorganized1	1,387	18,056 1,160	Prescott Prince Edward-Lennox.	24,596 25,718	26,4	
		201 002	Prince Edward-Lennox. Renfrew North	25,718	25,4	
Montreal Island	1,003,868 48,064	724,205 48 860	Renfrew South	27, 230 26, 986 43, 831	27.0 27.0	
Cartier	87.006	67.886	Russell	43,831	43,4	
Hochelaga Jacques-Cartier Laurier-Outremont	87,096 130,776	724,205 48,869 67,836 70,856	Russell	36.572	37.1	
Laurier-Outremont	88,579	67,682 65,646	Simcoe North	29,224	29,0 25,1	
Maisonneuve Mount Royal St. Ann St. Antoine St. Denis	116,311 93,085	99,949 30 487	Stormont	32,524 58,284	26.3	
St. Ann	83,000 60,696	39,487 54,834 33,338 75,475	Timiskaming North Timiskaming South	43,9481	25,1 26,3 31,7	
St. Antoine	60,696 36, 03 3	33,338	Toronto East	68,987	63,7 69,7	
St. Denis	140,940	75,475	Toronto East Centre	66,341	69,7 51,6	
56. Redfl.,,,,,,,,,,,,,,,,,	44,019 54 903	44,372 54,741 37,688 63,381	Toronto-High Park	64,088 106,123	58,3	
St. James. St. Lawrence-St. George.	54,903 37,861 65,555	37,688	Toronto Northwest	70,729	61.4	
St. Mary	65,555	63,381	Toronto-Scarborough	87,656	49,7 48,5	
			Toronto South Toronto West Centre	46,065	48,5 59,1	
Algeria Fast	3,431,683 37,455 38,425 21,202	2,933,662 37,012	Victoria	61,972 31,841	33,9	
Algorna West	38, 425	37,012 35,586 21,970	Victoria Waterloo North	53 7771	41 6	
Brant	21,202	21,970	Waterloo South	36,075 82,731 19,035	33,5 66,6 19,8	
Brantford City	32,274	31 407	Wellend	82,731	66,6	
Ontario Algoma East. Algoma West. Brant. Brantord City Bruce North. Bruce South Caplaton	20,466	20,872 23,413 32,678	Welland	19,035 39,129	34.3	
Carleton	21,820 38,819	32,678	Wentworth	66.943	46.0	
Carleton	32,763	33.289	York North	38,607 62,258	30,2	
Durham	20,782	24,629	York South	62,258 124,883	27,8 61,6	
Elgin West	84,068	35,413	York West	124,553	01,0	

Population of Canada, by Provinces and Electoral Districts, 1931, Compared with 1921—concluded.

Province and Electoral District.	Popula	tion.	Province and Electoral District.	Popula	tion.
Electoral District.	1931.	1921.	Electoral District.	1931.	1921.
Manitoba	700,139		Alberta	731,605	588,45
Brandon	40,483	38,500		34,896	39,97
Dauphin	37,703	38,607	Athabaska	55,298	37,21
Lisgar	31,891	30,604		43,441	36,73
Macdonald	32,090	31,877		35.901	34.32
Marquette	37,468	34,482		51,640	38.07
Noenawa	27,429	29,941		50, 898	40.12
Nelson	32,238	20.868	Camrose	39,806	38.27
Portage la Prairie	33.979	35,461	Edmonton East	48, 865	36, 26
Provencher	32.613	29,439		51,584	38.74
Selkirk	44.506	41.265		47.87t	38.07
Souris	26.726	24.439		40,336	33.82
Springfield	42.350	30,836		32,709	36.39
St. Boniface	43,389	35,429		76,778	39.72
Winnipeg North	62,917	52,473		39.385	35.31
Winnipeg North Centre.	45,350	39, 142		37.442	30.59
Winnipeg South	51.518	32,943		44.755	34.78
Winnipeg South Centre.	77,489	63,812		27,100	01,10
askatchewan	921,785	757_510	British Columbia	494.263	524.58
Assiniboía	41,144	34,789	Cariboo	52,702	39.83
Humboldt	44.146	37,128	Comox-Alberni	25,369	21.37
Kindersley	35, 290	28.997	Fraser Valley	38.507	28.81
Last Mountain	36,507	34,054	Kootenay East	22,566	19.13
Long Lake	31.266	32,308	Kootenay West	39,943	30.50
Mackenzie	44.869	34,669		55.524	48.01
Manle Creek	43,903	38, 586		69, 294	45.98
Melfort	52,668	30,716		30,358	28.93
Melville	39,338	36,842		82.519	56.38
Moose Jaw	42,334	42.243		75,234	60.87
North Battleford	53,708	34, 451		32,972	24.21
Prince Albert	50.896	39,126		89.556	46.13
Qu'Appelle	35,938	38,003		39.082	38.72
Regina	60.858	40, 625		40.637	35,69
Rosetown	82,526	29,341		10,001	35,05
	60,636	40.712			
SaskatoonSouth Battleford	45,199	95,712	Yukon	4,230	4,15
Swift Current	45,199	40,305		1,400	2,19
				•	
Weyburn	41,684	37.431	No 48	a NOG	W 80
Willow Bunch	48,466		Northwest Territories	9,723	7,988
Yorkton	38.692	37.857	. 1	II.	

Section 2.—Sex Distribution.

Throughout the older countries of the world there is usually found an excess of female over male population, more especially as in most of these countries the census is taken on a de facto instead of, as in Canada, on a de jure basis. The causes of this excess of female population are: (1) the normally higher rate of mortality among males; (2) the greater number of males who travel; (3) the effects of war; (4) the employment of males in the army, navy and merchant marine; and (5) the preponderance of males among emigrants. In the newer countries of the world, however, the preponderance of males among immigrants results in a general excess of male over female population. These phenomena are exemplified for both the older and the newer countries in Table 10.

In Canada there has been an excess of male population from the commencement of its history, the first census of 1666 showing 2,034 males to only 1,181 females. As the colony increased in numbers, the disproportion between the sexes became smaller, more especially since the French-Canadian population, after about 1680, was not reinforced by immigration from the old world. In 1784, when the English-speaking immigration to Canada for purposes of settlement was com-

mencing, there were 54,064 males and 50,759 females in the colony. At the middle of the nineteenth century, there were 449,967 males to 440,294 females in Lower Canada, and 499,067 males to 452,937 females in the more newly-settled Upper Canada, and since Confederation the same phenomenon of considerable excess of males has occurred throughout the growing Northwest. The great immigration of the first decade of the present century resulted in raising what is called the "masculinity" of the Canadian population (i.e., the excess of males over females per 100 of population) to the highest point in recent history, viz., 6.07 p.c. in 1911. The Great War, however, both checked immigration and took about 60,000 young Canadian male lives as its toll, with the result that at the census of 1921 the masculinity of our population was only 3 p.c.— 515 males to 485 females per 1,000 of population.

In 1931 there were 518 males to 482 females for Canada as a whole. It is interesting to note that the masculinity of the population has increased in the eastern provinces and decreased in the western ones, where it was formerly greatest. In Table 8 statistics are presented, showing the number of males and females in each of the provinces and territories at each census since 1871, while Table 9 shows the proportions of the sexes and excess of males per 1,000 of population. The statistics of Table 10 show the position of Canada among other countries of the world in regard to masculinity.

8.—Sex Distribution of the People of Canada, by Provinces, 1871-1931.

Province	187	1.	188	1.	1891.		
Frovince.	Male.	Female.	Male.	Female.	Male.	Female.	
Prince Edward Island	47, 121	46,900	54,729	54, 162	54,881	54, 197	
Nova Scotia New Brunswick	193,792 145,888 596,041	194,008 139,706 596,475	220,538 164,119 678,175	220,034 157,114 680,852	227,093 163,739 744,141	223,303 157,524 744,394	
Quebec	828, 590 12, 864	792,261 12,364	978, 554 35, 123	948,368 27,137	1,069,487 84,342	1,044,834 68,164	
Saskatchewan	-	-	30,125	21,101	07,012	00,10	
British ColumbiaYukon	20,694	15,553	29, 50 3	19,956	63,003	35,17 0	
Northwest Territories	24,274	23,726	28,113	28,333	53,785	45, 182	
Canada	1,869,264	1,819,993	2,188,854	2,135,956	2,460,471	2,372,768	

Donator	194	31.	191	u.	193	21.	19:	31,
Province.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
P.E. Island N.S. N.B. Que Ont. Man. Sask Aita B.C. Yukon. N.W.T.	51, 959 233, 642 168, 639 824, 454 1, 096, 640 138, 504 49, 431 41, 019 114, 160 23, 084 10, 176	225,932 162,481 824,444 1,086,307 116,707 41,848 32,008	47, 069 251, 019 271, 987 1,012, 815 1,301, 272 252, 954 291, 730 223, 792 251, 69 6,508 3,350	46,659 241,319 172,022; 992,961; 1,226,020 208,440 200,702 150,508 140,861 2,004 3,157	1,179,726 1,481,890 320,567	43,728 257,365 1,90,525 1,180,939 1,451,772 289,551 343,810 264,246 231,173 1,338 3,859	263, 104 208, 620 £, 447, 124 1, 748, 844 368, 065 499, 935 400, 199 385, 219	
Canada	2,751,708	2,613,607	3,821,995	3,384,648	4,529,6431	1,258,305	5,374,541	5,003,245

¹ Includes 485, Royal Canadian Navy.

5.—Proportion of Sexes per 1,000 of Population in Canada, by Provinces, 1871-1931.

			1871			1881	.		1891.	
Prov	ince.	Males.	Fe- males.	Excess of Males over Females.	Males.	Fe- males.	Excess of Males over Females.	Males.	Fe- males.	Excess of Males over Females.
Prince Edwa				2	503	497	6 2	503	497	9
Nova Scotia New Brunsw	ńek	500 511		22	501 511	499 489	22	504 510	496 490	20
Quebec			500	-	499	501	-2	500	500	-
Ontario				22	508		16	506	494	12
Manitoba		. 510		20	564	436	128	553	447	100
Saskatchews Alberta			_	_	-		. [-	-	_
British Colu	mbia	571		142		403	194	642	358	284
Yukon			-	-	I -	l -	-	-	-	_
Northwest ?	l'erritories	. 500	494	12	498	502	-4	548	457	86
Canada		500	493	14	506	494	12	509	491	18
	1	901.		1911.	<u></u>		1921.		193	1.
Province.	Males m	e- of M	ess ales Ma	les. Fe-	Excess I Males	Wales	Fe- of Ma nales. over	ss les Mal	Fe-	

		1901.)	1911.			1921.			1931.	
Province.	Males	males.	Excess of Males over Females	maies.	males.	Excess of Males over Females	maies.	males.	Excess of Males over Females	maies.	males.	Excess of Males over Females
P.E. Island.	503	497	6	502	498	4	507	493		516	484	
N.S	508	492		510	490	20	509	491	18	513	487	26
N.B	509		18	511	489	22		491	18		489	22
Que	500		-	505	495	10	500		-	503	497	6
Ont	502		4	515		30	505		[10]	510	490	
Man	543		86			96	525	475	50 92	526	474	52
Sask	542		84	592	408	184	546	454	92	542	458	
Alta	562			598	402	196	551	449	102	547	453	
B.C	639		278		359	282	559	441	118		445	
Yukon	848	152	896	765	235	530	678	322	356	668	332	336
N.W.T	506	494	12	515	485	30	517	483	34	536	464	72
Canada	512	488	24	530	470	60	515	485	30	518	482	36

10.-Masculinity of the Populations of Various Countries in Recent Years.

Note.—The minus sign (-) indicates a deficiency of males.

Country,	Year.	Excess of Males over Females in each 100 Population.	Country.	Year.	Excess of Males over Females in each 100 Population.
Argentina Canada India New Zealand Australia Union of South Africa Irish Free State United States Japan Bulgaria Netherlands Greece Belgium Chile Spain	1928 1931 1931 1931 1931 1931 1930 1929 1930 1926 1930 1930 1930	6-57 3-67 2-18 1-85 1-86 1-56 1-22 0-51 0-61 0-096 0-096 1-32	Sweden Denraark. Italy Norway. Finland. Germany Northern Irelard Poland Switzerland Scotland. France. England and Wales Austria. U.S.S.R. (in Europe) Portugal	1930 1930 1931 1930 1925 1925 1926 1931 1930 1931 1926 1931 1926 1930	-1.53 -2.20 -2.27 -2.67 -3.67 -3.26 -3.37 -3.65 -3.37 -4.00 -4.18 -4.23 -4.88 -6.81

¹ White population only.

Section 3.—Conjugal Condition.

In Table 11 are given, in summary form together with percentages, the statistics of the conjugal condition of the population, as single, married, widowed, divorced and legally separated, for 1871 and subsequent censuses. Especially notable is the larger percentage of married in the more recent years. This is mainly attributable to the larger percentage of adults to total population in our own time. Noteworthy also is the larger percentage of divorced and legally separated in recent years. The reader is referred to p. 166, Table 19, for details of divorces granted in the years 1901-32.

The conjugal condition of the 1931 population is shown by provinces in Table 12 and by age-groups in Table 13.

11.—Conjugal Condition of the Population, by Numbers and Percentages, as Shown by Censuses of 1871, 1881, 1891, 1901, 1911, 1921 and 1931.

	Censuses	01 1871, 180	31, 1891, 19	91, 1911, 1	921 20 0 1	731.	
Sex.	Single.	Married.	Widowed.	Divorced.	Legally Separ- ated,	Not Given.	Total.
1871— Male Female	No. 1,183,787 1,099,216	No. 543,637 542,339	No. 37,487 79,895	No.	No.	No.	No. 1,764,31 1,721,45
1881— Male Female	1,447,415 1,336,981	690,544 689,540	50,895 109,435			-	2,188,854 2,135,956
1891— Male Female	1,601,541 1,451,851	796, 153 791, 902	62,777 129,015			- -	2,460,471 2,372,768
1901— Male Female	1,748,582 1,564,011	928, 952 904, 091	78,837 151,181	337 324	- -	ı .	2,751,708 2,619,607
1911— Male, Female	2,369,766 1,941,886	1,331,853 1,251,468	89, 154 179, 656	839 691	1,286 1,584	29,097 9,368	3,821,995 3,384,648
1921— Male Female	2,698,564 2,378,728	1,698,297 1,631,663	119,695 236,504	3,670 3,731	1	9,417 7,680	4,529,643 4,258,306
1931— Male Female	3,179,444 2,771,968	2,033,240 1,937,950	148,954 288,641	4,049 3,392	1 1	8,854 294	5,374,541 5,002,245
1871— Male Female	p.c. 67·10 63·85	p.c. 30·78 31·51	p.c. 2·12 4·64	p.e	p.e.	p.c.	p.0. 100 100
1881— Male Female	66 · 12 62 · 59	31·55 32·28	2·33 5·13			-	100 100
1891— Male Female	65-09 61-19	32-36 33-37	2·55 5·44				100
1901— Male Female	63 · 55 59 · 71	33 · 76 34 · 51	2·68 5·77	10. 10.	-		130 100
19f1— Male Female	62 · 00 57 · 37	34 · 85 36 · 97	2-33 5-31	·02 ·02	·03 ·05	·76 ·28	100 100
1921— Male Female	59·58 55·86	37 - 49 38 - 32	2 · 64 5 · 55	-08 -09	1	·21 ·18	100 100
1931— Male Female	59-16 55-41	37·83 38·74	2·77 5·77	+08 +07	£ .	-16 -01	100 100

¹ Legally sevarated included with divorced.

12.—Conjugal Condition of the People of Canada Classified as Single, Married, Widowed. Divorced, and Not Given, by Provinces and Sex, 1931.

Province.	Males.									
Province.	Single.	Married.	Widowed.	Divorced.1	Not Given.	Total.				
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon	27, 820 160, 044 129, 407 910, 618 982, 790 221, 183 315, 196 242, 542 204, 961	15,886 94,181 72,577 494,136 731,191 137,568 173,610 147,549 163,730	1,667 8,638 6,453 41,538 52,223 8,671 10,024 8,807 10,615	15 170 146 345 1,07! 344 394 62! 922	4 71 37 487 1,569 299 711 680 4,992	45, 392 263, 104 208, 620 1, 447, 124 1, 748, 844 368, 065 499, 938 400, 198 385, 216 2, 825				
Northwest Territories	3,026	2,005 2,033,240	148,954	4,049	8,854	5,214 5,374,541				

Province.			Fem	ales.		
Province.	Single.	Married.	Widowed.	Divorced.	Not Given.	Total.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Tarritories	23,611 138,027 115,368 877,075 859,594 184,410 242,039 179,961 148,900 699 2,275	15,695 92,807; 71,699 478,694 703,232 131,078 164,779 137,810 139,655 65 1,883		13 138 109 405 1,015 309; 273 393 781; 33;	6 1 48 158 13 12 8 48	42,646 249,742 199,599 1,427,131 1,682,839 332,074 421,850 331,406 309,044 1,405 4,509
Canada	2,771,968	1,937,950	288,641	3,392	294	5,002,245

^{&#}x27;Includes "legally separated"

13.—Conjugal Condition of the People, 15 Years of Age and Over, 1931.

Age Period	Total	Single	a	Marrie	×d.	Widow	ed.	Divorced.1	Unknown
and Sex.	Popula- tion.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Number.
15-19									
Males	525,250						0.00		140
Females	514,341	488, 115	94.90	26,079	5.07	122	0.02	15	10
Males	463,722	396.576	85-53	66.031	14 - 24				
Females	447,463	282,469				1,229	0.27	199	14
Males	409.976	213.745	52 - 14	193,652	47.23	1.832	0.45	259	488
Females	376,305	121,749		250,870	66-67	3,235	0.86	437	14
Males	368. t35	106,923	29-04	256.567	69-69	3.487	0.95	424	734
Females 35-39—	340,701	63,619		270,083	79-26	6,497	1.91	533	19
Males	359,081	69,889	19-46	281,787	78-46	5,747	1.60		
Females.,, 40–44—	329,382	44,701	13.57	272,293	82-67	11.781	3-59	592	18
Males	347,763	54,136	15-57						
Fernales	298.336	33.776	11.32	246,927	82.77	17,081	5.73	584	18
Males	321,513	44,941	13.98	262, 973	81 - 79	11.858	3.69	628	1,118
Females	263,698	27, 107		214,712				386	
Males	267.332	35,352	13.22	216,276	80.90	14.244	5.33	508	952
Females	221,349							271	24

^{&#}x27;Includes "legally separated"

⁵²²³⁰⁻⁸

13.—Conjugal Condition of the People, 15 Years of Age and Over, 1931—concluded.

Age Period.	Total	Single	e	Marrie	sđ.	Widow	ed.	Divorced ¹	Unknown
	Popula- tion.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Number.
55-59									
Males Females	199,160 167,865	24,917 17,960	12·51 10·70	158,443 121,085		14,691 28,625		367 175	
Males Females	156,912 137,685	19,230 15,499		120,281 87,537	76 · 66 63 · 58		10·66 25·07		38 2
Males Females '0-74-	120,695 110,439	13,746 11,930		88-024 59,326		18-647 39,104			9: 1
Males Females	88,581 83,019	9,659 9,139	10+90 11+01	58,964 33,984		19,814 89,846			2
Males Females	50,017 48,612	4,649 5.198	9·29 10·69	29,456 14,147					1
Males	23.877 25.294	1,924 2,823	8·06 11·16						
Males Females	8,665 10,464	617 1,095	7·12 10·46		37·98 10·74				
Males Females	2,051 2,881	161 291	7·85 10·10	569 190	27 · 74 6 · 59				
Males Females	417 656	34 69	8·15 10·52	111 36					
Males	74 89		9·46 12·36		27 · 03 3 · 37				
Males	2.711 1,060	992 4 06							1,06 7
over—2 Males Females	3,713,221 8,378,579	1,519,844 1,148,977							
Potals, All Ages Males Fomales		3,179,444	59.16	2,033,240	37.83	148,954	2.77	4,049	

Includes "legally separated".

Section 4.—Age Distribution.

The same causes which have in the past rendered the sex distribution of population in Canada somewhat unusual have also affected its age distribution. In the first stages of the settlement of a new colony, men in the prime of life constitute the bulk of the population, and women and children are conspicuous by their absence, so that there will be a disproportionately large male population between the ages of 20 and 50, together with a low birth rate. Later on in the settlement of a new country where there is land and food for all and where the early disproportion of the sexes has been overcome, there is a very high rate of natural increase, and an extraordinarily large proportion of children among the population. Thus in 1871

^{*}Exclusive of ages not given.

(see Table 14), 286.91 out of every 1,000 of the population of Canada were children under 10 years of age and over half the total population (526.76 out of every 1,000) were under 20 years of age. But with the growing urbanization of population, the average age at marriage increased and children came to be regarded as a liability rather than an asset. Thus in 1911, out of every 1,000 of the population, only 231.83 were under 10 years of age and 423.42 under 20 years of age. In 1921, however, 239.67 per 1,000 of the population were under 10 years of age and 434.81 per 1,000 under 20 years. In 1931, the number of children under 10 years of age had dropped to 212.51 per 1,000 of the population, and of persons under 20 to 416.20 per 1,000.

Table 15 shows the varying age distribution of the population of the different provinces, while Table 16 gives details of the age distribution of the population of the Dominion, by sex, for the census years 1881 to 1931.

Proportion per 1,000 of the Population by Age Periods, 1871, 1881, 1891, 1901, 1911,
 1921 and 1931.

Age Period.	1871.	1881.	1891.	1901.	1911.	1921.	1931.
Under t year 1 — 4 years 5 — 9 " 10 — 19 " 20 — 29 " 30 — 39 " 40 — 49 " 50 — 50 " 60 and over Not given	30·567	28 · 019	24 · 923	24 · 497	25 · 734	23 · 858	19-531
	115·649	108 · 507	99 · 964	95 · 210	97 · 413	96 · 462	84-009
	140·691	128 · 251	121 · 242	114 · 664	108 · 685	119 · 338	109-162
	238·854	227 · 404	219 · 710	210 · 906	191 · 585	195 · 128	203-689
	171·436	175 · 957	178 · 080	173 · 549	189 · 335	159 · 041	163-583
	111·404	113 · 099	122 · 080	129 · 259	141 · 938	146 · 247	134-656
	79·995	83 · 817	88 · 441	98 · 494	100 · 071	109 · 481	118-660
	54·788	58 · 087	62 · 360	67 · 886	69 · 121	73 · 082	82-463
	55·128	63 · 270	70 · 142	76 · 897	71 · 027	74 · 917	88-882
	0·488	13 · 589	13 · 059	9 · 137	5 · 090	2 · 419	0-363

15.—Proportion per 1,000 of the Population by Age Periods, by Provinces, 1931, with Totals for 1921.

Province.	0-9	• 10-19	20-44	45-69	70 Years	Age Not
	Years.	Years.	Years.	Years.	and Over.	Given.
Prince Edward Island	212·47 215·36	207.97	308 · 15	206·52 198·39	64 · 81 50 · 93	0.08
Nova Scotia New Brunswick Quebec	289 · 88 245 · 89	214-17 219-68 214-20	320 · 93 317 · 25 352 · 95	181 · 18 157 · 69	41.95 29.05	0·13 0·23
Ontario	186-68	185 · 67	373·92	212 · 28	41 · 20	0 · 2 ·
	203-29	219 · 27	365·99	185 · 52	25 · 72	0 · 2 ·
	234-80	228 · 98	353·08	163 · 81	19 · 12	0 · 2
Alberta	217·98	210-00	374-07	178-47	19·32	0·10
British Columbia	160·07	175-97	377-16	254-66	29·97	2·13
Canada, 1931'	212 · 70	203 · 69	360 · 50	189 · 52	23 · 22	0·3:
	239 · 67	195 · 14	365 · 27	169 · 38	28 · 12	2·4:

¹ The statistics for Yukon and the Northwest Territories are included in the totals.

16.—Male and Female Population of Canada by Age Periods, 1881, 1881, 1981, 1911, 1921 and 1931.

5 to 9 years										
Male Female Total Male Total Male Female Total Total Total Male Female Total Total	A Devicel		1881.			1891.			1901.	
1 year.	Age Feriou.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
5 Years. 281,062 296,429 599,431 306,115 297,490 683,655 324,395 318,669 642,885 5 to 9 years 281,216 273,446 554,662 297,385 288,605 585,990 311,134 304,765 615,899 15 to 19 237,317 297,221 476,595 298,335 281,175 223,674 294,663 596,339 15 to 19 237,317 298,270 176,339 166,228 331,575 34,311,311,311,327,629 272,228 585,503 39 15 50 39 165,238 31,575 34,311,311,311,327,629 272,228 585,503 39 165,238 31,575 34,311,311,327,629 272,228 585,503 39 165,238 31,575 34,311,311,311,327,642 163,334 207,011,328,335 30 163,238 331,575 34,311,311,327,642 163,334 207,011,328,331 301,34 151,051 129,338 220,389 163,288 163,889 130,551 237,460 163,334 207,011,328,331 133,131,331,331,331,331,331,331,331	1 year	50,298 65,187 62,217	48,288 63,069 60,455	98,586 128,256	52.160	50.833	102,993 129,363 125,901	62,384 65,245 64,748	61,203 64,182 64,158	123,587 129,427 128,906
197 197 195 1537 198 194 118 195 119 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128 128	Totals, Under 5 Years	300,022	294,429	590,451	308,115	297,490	603,605	324,296	318,669	642, \$85
Lation 2, 188,854 2, 135,956 4, 324,840 2, 460,472 2, 372,768 4,833,239 2, 751,708 2, 619,607 5, 371,315	15 to 19 "	211, 634 165, 339 131, 051 115, 029 97, 807 86, 784 72, 046 57, 379 52, 006 36, 544 26, 158 16, 361 9, 251 3, 344 987	95,537 82,364 68,762 53,027 45,354 32,052 23,453 14,649 8,307 8,151 1,094	429, 405 331, 575 260, 589 228, 544 193, 344 169, 148 140, 808 110, 406 97, 360 68, 596 49, 611 31, 010 17, 558 6, 495 2, 081	237, 144 194, 531 163, 856 139, 899 118, 954 100, 827 87, 861 66, 887 62, 819 44, 717 32, 941 20, 047 1, 360 1, 360	235, 913 193, 115 155, 724 130, 551 112, 685 94, 992 83, 565 63, 089 57, 403 40, 172 29, 906 17, 864 10, 151 4, 390 1, 436	549, 176, 512, 737, 473, 057, 387, 646, 270, 450, 270, 450, 195, 819, 171, 426, 120, 222, 84, 889, 62, 847, 37, 911, 20, 949, 85, 848, 848, 848, 848, 848, 848, 848,	256,981 216,334 188,125 172,553 152,036 125,636 106,107 82,136 72,807 54,497 39,086 24,548 13,090 4,848 1,356	251,823 207,051 174,942 158,673 137,822 113,550 97,857 78,535 68,156 51,176 37,294 23,248 12,740 4,990 1,554	423,385 383,087 381,226 289,858 239,186 203,964 160,671 140,963 105,673 76,380 47,786 25,830 9,838 2,910
Male Female Total Male Female Total Male Female Total Male Female Total	Totals, Popu- lation	2, 188, 854	2, 135, 956	1,321,810	2, 460, 471	2,372,768	4,833,239	2,751,708	2,619,687	5,371,315
Male Female Total Total Male Female Total Total Total Male Female Total Male Female Total Tota	ton Dowland	İ İ	1911.		i	1924.			1931.	
1 year 87,399 86,002 173,101 104,562 103,209 207,771 102,479 101,489 204,805 221,573 3 years 90,697 88,943 177,418 108,415 106,203 214,618 113,901 109,668 221,573 3 years 89,685 87,730 177,418 108,415 106,203 214,618 113,021 111,110 224,131 4 years 488,922 84,643 171,565 108,671 106,878 215,549 112,432 109,241 221,673 Totals, Under 5 Years 448,219 439,264 887,483 533,396 524,1591,657,549 548,172 531,243 1,974,415 5 to 9 years 395,045 388,207 783,252 528,663 520,031 1.048,694 572,507 560,242 1,132,749 15 to 19 351,244 329,120 680,373 403,235 398,545 801,785 542,330 531,121 1,074,051 25 to 29 370,494 287,684 658,178 347,622 338,552 686,4	Age renou.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
5 to 9 years 395,045 388,207 783,252 528,663 520,031 1.048,694 572,507 560,242 1,132,749 10 to 14 "354,911 345,401 709,312 461,282 451,805 913,087 542,930 531,121 1,074,051 15 to 19 "351,244 329,129 680,373 403,235 398,545 801,780 525,250 154,341 1,039,515 25 to 29 "370,494 287,684 658,178 347,622 338,352 686,474 409,976 376,305 786,281 30 to 34 "310,339 244,777 555,116 343,237 309,608 652,845 368,135 360,707 708,862 35 to 39 "257,875 209,904 467,779 342,300 290,066 632,366 359,081 329,382 688,463 40 to 44 "213,018 176,677 389,995 286,451 240,651 527,102 347,763 288,336 688,463 45 to 49 "178,715 152,768 314,832 368,884	1 year	87,899 90,697 89,688	86,002 88,943 87,730	178,401 179,640 177,418	104.562 105,801 108,415	104,144 106,203	207,771 209,945 214,618	102,879 111,910 113,021	101,486 109,668 111,110	202,668 204,865 221,578 224,131 221,678
15 to 19	Totals, Under 5 Years	448,219	439,264	887,483	533,394	524,159	1,057,549	543,172	531,243	1,074,415
Totals, Popu- lation 3,821,395 3,384,648 7,286,643 4,529,643 4,258,306 8,787,949 5,374,541 5,002,245 10,376,786	10 to 14 " 15 to 19 " 20 to 24 " 25 to 29 " 30 to 34 " 35 to 39 " 40 to 44 "	354,911 351,244 385,855 370,494 310,339 257,875 213,018	345, 401 329, 129 320, 435 287, 684 244, 777 209, 904 176, 677	709,312 680,373 706,290 658,178 555,116 467,779 389,895	461,282 403,235 350,971 347,622 343,237 342,300 286,451 236,884	451,805 398,545 360,198 338,852 309,608 290,066	913,087 801,780 711,169 686,474 652,845 632,366 527,102	542,930 525,250 463,722 409,976 368,135 359,081 347,763	514,341 447,463 376,305 340,701 329,382 298,336	1,039,591 911,185 786,281 708,836 688,463 646,099 585,211 488,681
	\$5 to 54	112, 952 94, 318 67, 626 47, 807 30, 266 15, 550 6, 184 1, 693 417 62 26, 687	100.096 83,786 63,523 46,197 29,260 15,921 6.687 2,010 502 58 9,996	213,048 178,104 131,149 94,004 59,526 31,471 12,871 3,703 919 120 36,683	90,615 60,579 33,583 18,136 7,142 1,800 412 90 11,588	56, 846 35, 767 19, 465 8, 236 2, 380 565 93 9, 674	171,990 117,425 71,350 37,601 15,378 4,180 977 183	156, 912 120, 695 88, 581 50, 017 23, 877 8, 665 2, 051 417 74 2, 711	137, 685 110, 439 83, 012 25, 294 10, 464 2, 881 656 89 1,060	367,025 294,597 231,134 171,600 98,629 49,171 19,120 4,932 1,073 163 3,771

Section 5.—Racial Origins.

In six out of the seven censuses of Canada since Confederation the racial origin of each person has been secured, the exception being in 1891. The object of this information is to ascertain from what basic ethnic stocks the Canadian population. more particularly the recently immigrated population, is derived. The answer "Canadian" is not accepted under this heading, as the purpose of the question is to obtain, in so far as possible, a definition of "Canadian" in terms of racial deriv-Of this procedure of the census, criticism has been received on two main grounds; (a) that there are Canadians whose family is of several generations residence in the country who may not know their ultimate racial origin, or who may be of very mixed racial origin; and (b) that the practice tends to perpetuate racial distinctions which it is desirable to obliterate. As against these criticisms the following three points must be considered: (a) that the Canadian whose family is of three or more generations residence is enumerated and differentiated through the question on the birth place of parents above described; (b) that notwithstanding the desirability of racial assimilation, there are special features in connection with the process that require appraisement and study; for example, 271 children of Chinese fathers and 842 of Japanese fathers were born in Canada in 1931. the fact that the constitution of Canada is based on the presence of two dominant races points to the desirability of a measurement of these factors; only recently it has been widely pointed out that the original French colony, numbering 75,000 at the date of the Conquest, has expanded to over three millions to-day; measurements of this kind would be impossible if the answer "Canadian" instead of "French" were accepted under the heading of racial origin, yet undoubtedly if the descendants of the original French colonists are not "Canadians", no one is; (c) finally, racial origin is an important subject for study in a "new" country like Canada from a scientific standpoint, i.e., from the standpoint of the student of ethnology, criminology, and the social and "biometric" sciences in general.

To accept the answer "Canadian" to the question on racial origin would confuse the data and defeat the purpose for which the question is asked.

Racial Distribution.—The total increase in population over the decade 1921-31 was 1,588,837. The population of English origin increased by only 196,061 compared with 722,208 in the previous decade; that of Scottish origin by 172,725 compared with 175,745; and that of Irish origin by 123,005 compared with 57,419. The population of British origin, taken together, increased from 4,868,738 to 5,381,071, or by 512,333, between 1921 and 1931. This represented 32 p.c. of the total increase as compared with 61 p.c. of the total increase for the previous decade. On the other hand the population of French origin increased from 2,452,743 in 1921 to 2,927,990 in 1931, or by 475,247 (slightly under 30 p.c. of the total increase for the decade) and showed the greatest absolute increase for any decade since 1871. Figures for the minor racial groups which make up the nation (see Table 17) would indicate that the people of Scandinavian, German and Ukrainian origins increased between 1921 and 1931 by 36 p.c., 61 p.c. and 111 p.c., respectively. Owing to the new national and racial alignments in Central and Southeastern Europe following the Great War, comparison of the post-war numerical strength of certain ethnic stocks in Canada with pre-war returns cannot be made with any certainty. For example a number of people reported as of Ukrainian stock in the seventh census were described in the censuses of 1921 and 1911 as Galician, Bukovinian, Ruthenian or Russian.

A perspective of the actual relationship of the origin groups to the population as a whole is obtained by a study of Table 18 where the proportion which the people of each origin bear to total population is given for each census for which the figures are available. Here it is clearly seen that the relative position of the English group showed substantial improvement up to 1921 (when for the first time it superseded the French) but, for 1931, there was a decided check. The French group, on the other hand, which showed a gradual decline between 1871 and 1901 and a more pronounced one in 1911 and 1921, has improved its relative position considerably and in 1931 is once again the foremost single racial group.

Together the British and French groups now constitute 80 p.c. of the total population, compared with 83 p.c. in 1921 and 1911, 88 p.c. in 1901, 89 p.c. in 1881 and no less than 92 p.c. in 1871.

The pronounced decline after 1901 in the combined proportion of the two major racial groups, viz., British and French, with a corresponding increase in ethnic stocks of minor importance, has in the main been due to the immigration of continental Europeans to Canada during the past thirty years. Altogether, the percentage of the total population of European racial origin, other than British and French, increased from 8.50 p.c. of the total in 1901, to 12.82 p.c. in 1911, to 14.16 p.c. in 1921, and to 17.59 p.c. in 1931.

Oriental immigration to Canada in the past thirty years has been responsible for the relative increase of the Chinese and Japanese racial groups from 0.41 p.c. in 1901 to 0.67 p.c. in 1931. In the same period the population of Negro origin has declined from 0.32 p.c. to 0.19 p.c. of the total, and that of Indian and Eskimo origin from 2.38 p.c. to 1.24 p.c.

The racial origin of the population of Canada, by provinces and territories, is given in Table 19 for the census of 1931.

17.—Origins of the People according to the Censuses of 1871, 1881, 1901, 1911, 1921 and 1931.

Norg.—Origins were not taken in the ceneus of 1891. N.o.p. = Not otherwise provided for.

Origin.	1871.3	1881.	1901.	1911.	1921.	1931.
British	No.	No.	No.	No.	No.	No.
English	706.369	881.301	1.260.899	1,823,150	2,545,358	2,741,419
Iriah	846,414	957.403	988,721	1.050.384	1,107,803	1,230,808
Scottish	549,946	699,863	800,154	997.880	1.173.625	1,346,850
Other	7,773	9,947	13,421	25,571	41,952	62,494
Totals, British	2,110,502	2,548,514	3,063,195	3,896,985	4,868,738	5,381,071
French	1,082,940	1,298,929	1,649,371	2,054,890	2,452,743	2,927,990
Austrian, n.o.p	· · · -	· -	10.947	42,585	107,671	48,639
Belgian			2,994	9,598	20,234	27,585
Bulgarian and Roumanian		-	354	5,875	15,235	32,216
Chinese		4,383	17,312	27,774	39,587	46,519
Czech (Bohemian and Mora-						
vîan),	-		-		8,840	30,401
Dutch	29,662	30,412	33,845	54,986	117,505	148,962
Finnish	-	- :	2,502	15,497	21,494	43,885
German	202,991	254,319	310,501	393,320	294,635	473,544
Greek	-	- 1	291	3,594	5,740	9.444
Hebrew	125	667	16.131	75,681	126, 196	156,726
Hungarian		!	1.549	11,605	13,181	40,582
Indian and Eskimo	23,037	108,547	127,941	105,492	113,724	128,890
Italian	1,085	1,849	10.834	45,411	66,769	98,173
Japanese		<u> </u>	4,738	9,021	15,868	23,342
Negro	21,496	21,394	17.437	16,877	18,291	19,456
Polish			6,285	33,365	53,408	145,503
Russian	607	1,227	19,825	43.142	100,064	88,148 228,049
Scandinavian*	1,623	5,223	31.042	107,535	167,359	
Ukrainian	- 1	-	5,682	74,963	106,721 3,906	225,113 16,174
Yugoslavic		0.5.0	7 000	21 157	28,796	27,476
Various	4.182	8,540	7,000	31,157 147,345	25,796	8,898
Unspecified	7,561	40,806	31,539	141,043	21.248	
Grand Totals	3, 485, 761	4,324,810	5,371,315	7,208,643	8,787,949	10,376,786

For footnotes see end of Table 18, p. 119.

18.—Percentage which the People of Each Origin Formed of the Total Population, According to the Censuses of 1871, 1881, 1901, 1911, 1921 and 1931.

Norm.—Origins were not taken in the census of 1891. N.o.p. = Not otherwise provided for.

	Percentages of Total Population.							
Origin	1871.*	1881.	1901.	1911.	1921.	1931.		
British—	р.c.	p.c.	p.c.	p.c.	p.c.	p.e.		
English	20.26	20-38	23 · 47	25.80	28-96	26-42		
Irish	24 - 28	22 · 14	18-41	14.58	12-61	11 - 86		
Scottish	15.78	16-18	14.90	13-85	13.35	12.97		
Other	0 · 22	0.23	0.25	0.35	0-48	0.60		
Totals, British	_ 60-55	58-93	57-03	54-07	55 - 40	51.86		
French	31.07	30.03	30.71	28 - 51	27.91	28-22		
Austrian, n.o.p			0.20	0.59	1.23	0.47		
Belgian	ĺ	[0.06	0-13	0.23	0.27		
Bulgarian and Roumanian		į	0.01	0.08	0-17	0.31		
Chinese	}	0.10	0.32	0.39	0.45	0.45		
Czech (Bohemian and Mora- vian)	ļ				0 · 10	0.29		
Dutch	0.85	0.70	0-63	0.76	1-34	1.44		
Finnish	j		0.05	0.22	0.24	0.42		
German	5.82	5.88	5.78	5.46	3.35	4.56		
Greek			0.01	0.05	0.07	0-09		
Hebrew		0.02	0.30	1.05	1.44	1.51		
Hungarian		-	0.03	0.16	0-15	0-39		
Indian and Eskimo	0-66	2-51	2.38	1-46	1 · 29	I · 24		
Italian	0.03	0.04	0.20	0.63	0.76	0.98		
Japanese	ľ		0.09	0.18	0.18	0 - 22		
Negro	0.62	0.49	0-32	0.23	0.21	0.19		
Polish			0.12	0.46	0.61	1.40		
Russian	0.02	0.03	0.37	0.60	1-14	0-85		
Scandinavian2	0.05	0.12	0.58	1.49	1-90	2 - 20		
Ukrainian.,	-		0.11	1.04	1.21	2-17		
Yugoslavic		-	-	- 1	0.04	0 - 16		
Various	0 - 12	0.20	0-13	0.43	0.33	0.26		
Unspecified	0.22	0.94	0.59	2.04	0.24	0.09		
Grand Totals	100.0	100.0	103.0	100-0	100.0	100.0		

¹ Incomplete in 1871; includes "half-breeds" in 1991. ² Includes Danish, Icelandic, Norwegian and Swedish; in 1921 they numbered respectively 21,124, 15,876, 68,856 and 61,503; in 1931, 34,118, 19,382, 93,243 and 81,306. *The figures for 1871 cover the four original provinces of Canada only.

19 .- Racial Origins of the Population,

Origin.	P. E. Island.	Nova Scotia.	New Brunswick.	Quebec.	
Totals, Pepulation	No. 88,038	No. 512,846	No. 408,219	No. 2,874,255	
British Races	73,758	891,878	255.567	132.	
English	23.398	193,170	129,911	234.	
Irish	17.698	56,453	66.873	108,	
Scottish	82,489	139.992	56,561	87.	
Other	173	2.263	2.222	2.	
Other European Races	13,779	109,486	148,627	2,418.	
French	12.962	56,629	136,999	2,270.	
Austrian, n.o.p	8	342	87	2.	
Belgian	ă l	631	198	4.	
Bulgarian	- 1	106	1 ^47 I	-,	
Czech and Slovak	4	452	l íá l	4.	
Danish	124	771	1,499	í.	
Dutch	300	13.412	3,602	i.	
Finnish	ı i	99	135	2.	
German	282	27.098	2.659	10.	
Greek	701	294	78	2.	
Hebrew	20 1	2.046	1,262	60.	
Hungarian	- 47	580	53	4.	
Icelandic	11	J30	J	45,	
Italian	28	1.897	405	24.	
Lithuanian	20	187	1 1	2.	
Norwegian	17	501	l 60t l	1.	
	14	1,488	121	1, 9,	
	- 1	1,488	41	3.	
Roumanian					
Russian	20	575	148	3, 1.	
Swedish	20	576	525	4.	
Ukrainian		871	12		
Yugoslavic	1	253	11	1,	
Other European	. 3	484	129		
Asiatre Races	166	1.559	873	7,	
Chinese	31 [340	231	2,	
Japanese.,		4		_	
Other Asiatic	135	1,215	642	4,	
Eskimo	- 1	.	.	1.	
Indian	233 j	2,191	1,685	12,	
Negro	70	7,361	1,150	1.	
Various	-	20	5		
Unspecified	32	351	312	1.	

Section 6.—Religions.

At each of the censuses from 1871 to 1931 every inhabitant of Canada has been asked to state the religious body of which he is a member or an adherent. During the sixty-year period there have been various fluctuations in the proportions of the population belonging to the leading religious bodies, and these fluctuations are, in a new country like this, largely occasioned by the religious affiliations of immigrants.

From Table 21, it will be seen that throughout the sixty-year period something like two-fifths of the population of Canada has been of the Roman Catholic faith, the 1931 percentage, inclusive of Greek Catholics, being 41·30. Methodists were 16·27 p.c. of the population in 1871 but fell to 13·19 p.c. in 1921, while Presbyterians increased from 15·63 p.c. in 1871 to 16·04 p.c. in 1921, being reinforced by a considerable immigration from Scotland after the beginning of the century. The fusion of the Methodists and Congregationalists in 1925 with a large section of the Presbyterians, as the United Church of Canada, left that body the second largest religious body in the Dominion in 1931 with 19·44 p.c. of the population. The Presbyterians who did not adhere to the United Church of Canada numbered 8·39 p.c. of the population in 1931. The proportion of Anglicans in the population of Canada fell from 14·17 p.c. in 1871 to 12·69 p.c. in 1901 but thereafter the large immigration from the British Isles raised it to 16·02 p.c. in 1921, followed by a

by Provinces and Territories, Census of 1931.

Ontario.	Manitoba.	Saskat- chewan.	Alberta.	British Columbia.	Yukon.	Northwest Territories.	Canada.	No.
No. 3,431,683	No. 708, 139	No. 521,785	No. 731,695	No. 694,263	No. 4,230	No. 9,723	No. 10,376,786	
2,539,771	368,010	437,836	\$89,258	489,923	1,741	623	5,381,071	1
1,319,612	172,992	205,519	188,456	272,501	825	296	2,741,419	2
647,831	77,559	104,096	79,978	71,612	298	98	1,230,808	1 2 3 4 5 6 7 8
549,648	112,326	121,485	110,720	185,038	576	215	1,346,350	<u>#</u>
22,680	5,133	6,736	10,084	10,772	42	14	62,494	5
887,469	818,309	463,502	320,648	127,246	798	369	4,755,242] 6
299,732	47,039	50,700	38,377	15,028	250	215	2,927,990	1 3
9,607	8,858	17,061	6,737	3,891	14	2	48,639	1 5
7,310	6,323 36	4,458	2,726 146	1,597	16	3	27,585	
2,415	2,396	126 5,056	6,404	2,756	2 9	ا ا	3,160	10 11
8,871	3,235	6,630	11.403	2,750 3,945	34	4	30,401 34,118	#
$\frac{4,718}{60,241}$	24,957	24,695	13,665	6.234	34 26	19	148,962	13 13
27,137	1.013	2,313	3,318	6.858	20 34	4	43,885	14
174,006	38,078	129,232	74,450	16.986	98	39	473,544	15
4,195	295	534	601	977	3	98	9,444	16
62,383	19.341	5,116	3,722	2,743	4	2	156,726	17
13,786	1,955	13,363	5,502	1,313	8		40,582	18
326	13,450	3.841	870	858	·	ا ا	19.382	19
50,536	2.379	1.040	4,766	12,254	22	l il	98,173	20
1,521	370	529	678	245	ĩ	l il	5,876	21 21 23 23 24 26
5, 172	5,263	39,755	27.360	12,943	108	19	93.248	22
42,384	40.243	25,961	21, 157	4,599	12	4	145,503	23
8,267	2.087	9.530	4.712	1,162		l <u>-</u> '	29,056	24
10,050	11,573	35,421	16,381	10.898	14	14	88.148	26
10,544	9,449	22.458	19.828	16,108	112	28	81,306	20
24,426	73,606	63,400	55,872	2.583	2	l i	225,113	22
8,100	291	1.686	1,335	2,911	20	5	16,174	27 28 29
1.742	1.072	397	638	781	9	1 1	6,232	29
12,297	2,255	4,419	4,929	50.951	84	11	84.548	30
6.919	1,732	3.501	3,875	27,139	i		46,519	31
220	51	114	652	22,205	52	1	23,342	32
5,158	472	804	402	1,607]	10	14,687	32 33
-	62	-	3		85	4,670	5,979	34
30,368	15,417	15,268	15,249	24,599	1,543	4,046	122,911	35
6,886	465	410	924	533	. 8	-	19,456	36
287	43	27	45	96	-	4	681	37
4,605	578	523	569	915	1	i	8.898	1 38

slight falling off to 15.76 p.c. in 1931. The Baptists have shown a fairly steady decline from 6.87 p.c. in 1871 to 4.27 p.c. in 1931.

The immigration from non-English-speaking countries during the first three decades of the twentieth century has led to a great growth of the religious bodies whose members come from the continent of Europe. Thus the Lutherans, who were only 1.09 p.c. of the population in 1871 and 1.72 p.c. in 1901, have risen to 3.80 p.c. in 1931. The Jews again, who were only 0.03 p.c. in 1871 and 0.31 p.c. in 1901, were 1.50 p.c. in 1931. The adherents of the Greek Orthodox Church, who in earlier years were not distinguished from Greek Catholics (the two together being only 0.29 p.c. in 1901) were 0.99 p.c. in 1931.

Of the total population in 1931 (10,376,786), 16,042 or 0·15 p.c. did not state their religion while 54,164 or 0·52 p.c., persons belonging to small sects, were classed as "various" and 21,071 or 0·20 p.c. as of "no religion". Of the non-Christian sects, 155,614 or 1·50 p.c. were Jews, 24,087 or 0·23 p.c. were Confucians, 15,784 or 0·15 p.c. were Buddhists and 5,008 or 0·05 p.c. were pagans. The figures in the following tables are revised and final. In Table 20 the totals for each religion are brought together for all censuses since Confederation; Table 21 gives the same information as Table 20 in the form of percentages to total populations for the census years; Table 22 gives the 1931 census figures of the numbers of persons accredited to each of 31 specified religions, by provinces.

20.-Religions of the People at each Decenuial Census, 1871-1931.

Religion.	1871.6	1881.	1891.	1901.	1911.	1921.	1931.
	No.	No.	No.	No.	No.	No.	No.
Adventist,	6,179	7,211	6,354	8.058	10,406	14,179	16,020
Anglican	494,049		646,059	681,494	1,043,017	1,407,780	1,635.618
Baptist ¹	239,343	298,525	303,839	318,005	382,720	421,730	443,34
Brethren	2,305	188,8	11,637	8,014	9,278	11,580	13,47
Buddhist		-	-	10,407	10,012	11,281	15,78
Christian		-	-	7,484	17,421	17,142	11,52
Christian Science	-	-	-	2,619	5.073	13,826	18,430
Church of Christ, Disciples	-	20.193	12,763	17,164	14,554	13,107	15,81
Confucian	-	_	-	5,115	14,582	27,114	24,08
Congregationalist	21,829	26,900	28,157	28,293	34,054	30,730	694
Doukhobor	-	-	-	8,775	10,493	12,648	14,913
Evangelical Association	-	- :	-	10, 193	10 595	13,905	22,21
Friends (Quaker)	7,345	6,553	4,650	4,100	4,027	3,149	2,42
Greek Church	- 1		-	15,630	88,507	169,832	•
Greek Orthodox	_	-	-		-	_	102,389
Holiness Movement	-	_	-	2,775	3,856	3,245	4,43
International Bible Students.	-	-	-	99	925	6,678	13,55
Jewish	1,115	2,393	6,414	16,401	74,564	125, 197	155,61
Lutheran	37,935	46,350	63,982	93,524	229,864	286,458	394, 19
Mennonite (inc. Hutterite)	-	-		31,797	44,625	58,797	88,73
Methodist	567,091	742,981	817,765	916,886	1,079,993	1,159,246	2
Mormon		-	-	6,891	15,971	19,622	22,00
No religion	5,146	2,634	5	4,810	26,027	21,739	21,07
Pagan	1,886	4,478	6	15,107	11,840	6,778	5,00
Pentecostal		-	_		513	7,003	26,30
Plymouth Brethren			_	3,040	3,438	6,482	6,98
Presbyterian	544,998	676,165	755,326	842,531	1,116,071	1,409,406	870,728
Protestant	10, 146	6,519	12,253	11,612	30,265	30,753	23,29
Roman Catholic	1,492,029	1,791,982	1,992,017	2,229,600	2,833,041	3,389,626	4,285,388
Salvation Army	- :		13,949	10,308	18,834	24,733	30,71
Unitarian	2,275	2,126	1,777	1,934	3,224	4.926	4,44
United Church	-	-	_ i	_	_	8,7282	2,017,375
All other (various)	35,035	21,382	46,030	16,427	26,383	31,270	54,16
Not given	17,055	86,769	80, 267	43,222	32,490	19,259	16,04
Totals	3,485,761	4,321,810	4,833,239	5,371,314	7,206,643	8,787,949	10,376,78

Including Tunkers. Practically all Methodists and Congregationalists and a large number of Presbyterians united to form the United Church of Canada in 1925, although a relatively small number reported themselves as "United Church" in 1921, chiefly in Western Canada where the movement towards union began. In earlier censuses only small numbers were involved, and Greek Catholics and Greek Orthodox were included under the general term "Greek Church". A rapid increase of both Greek Catholics and Greek Orthodox has been shown for recent censuses and, since the former owe obedience to the Pope in matters of faith, they have been included with the Roman Catholics for 1931. Including 186,654 Greek Catholics, see footnote 3. Included with "All other" religious for 1891.

21.-Percentages of Specified Religions at each Decennial Census, 1871-1931.

Religion.	1871.4	1881.	1891.	1901.	1911.	1921.	1931.
	p.c.	р¢.	p.c.	p.c.	p.c.	p.e.	p.e.
Adventist	0.18	0-17	0.13	0 · 15	0.14	0.16	0-15
Anglican	14-17	13 - 29	13 - 37	12.69	14 - 47	16.02	15.76
Baptist	6-87	6.86	6-29	5.92	5.31	4.80	4.27
Brethren,	0-07	0.20	0.24	0 · 15	0.13	0.13	0.13
Buddhist	-	-	-	0 · 19	0.14	0.13	0-15
Christiao	-	-	-	0 · 14	. 0.24	0.20	0.11
Christian Science	-	-	-	0.05	0.07	0.13	0.18
Church of Christ, Disciples	-	0.47	0.26	0.32	0.20	0.15	0.15
Confucian	-	-	-	0.10	0.20	0.31	0.23
Congregationalist	0.63	0.62	0.58	0.53	0.47	0.35	0.01
Doukhobor	-	- }	-	0.16	0-15	0.14	0 · 14
Evangelical Association	-	_	-	0.19	0.15	0.16	0.21
Friends (Quaker)	0.21	0-15	0 · 10	0.08	0.06	0.04	0.02
Greek Church	-	-	-	0.29	1 - 23	1.93	,
Greek Orthodox	-	_	-	_ i	-	-	0.99
Holiness Movement	-	-	-	0.05	0.05	0.04	0.04
International Bible Students	-	-	-	-	0.01	0.08	0.13
Jewish	0.03	0.06	0 · 13	0.31	1.03	1-42	1.50
Lutheran	1.09	1.07	1.32	1.72	3.19	3.26	3.80
Mennonite (inc. Hutterite)	-	-	ı	0.59	0.62	0.67	0.86
Methodist	16.27	17-18	17-54	17.07	14-99	13 - 19	2
Mormon	-	-	-	0.13	0.22	0.22	0-21
No religion	0-15	0.06	6	0.09	0.86	0-25	0-20
Pagan	0.05	0.10	š	0.28	0.16	¢-08	0.05
Pentecostai	-	-	- '	i -	0.01	0.08	0.25
Plymouth Brethren	-	~	-	0.06	0.05	0.07	0.07
Presbyterian	15-63	15 - 63	15 - 63	15-69	15-49	16.04	8 · 39 :
Protestant	0.29	0.15	0.25	0-22	0.42	0.35	0.22
Roman Catholic	42.80	41-43	41.21	41.51	18.62	38-57	41.30
Salvation Army	-	_	0-29	0.19	0.26	0.28	0.30
Unitarian	0.07	0.05	0.04	0.04	0.04	0.06	0.04
United Church	-	-	_	_	-	0.10	19-44:
All other (various)	1.61	0-49	0-95	0.31	0.37	0.36	0.52
Not given	0.49	2.01	1-66	0.80	0.45	0.22	0.15
Totals	100-00	180-00	180-00	100-00	160 - 00	100.00	160 - 66

"Included with Baptists in 1891. See footnote 2, Table 2). See footnote 3, Table 20. See footnote 5, Table 20. See footnote 6, Table 20. Table 20.

22.—Religious of the People, by

No	Religion.	Prince Edward Island.	Nova Scotia.	New Brunswick.	Quebec.
	Tetals, Population	No. 88,038	No. 512,846	No. 408,219	No. 2,874,255
1	Adventist	13	1,144	1,064	1,174
2	Anglican	5,074	88,738	48,931	149,843
3	Baptist	5,066	82,098	83,853	10,970
4	Brethren		96	336	757
5	Buddhist		2	3	73
6	Christadelphian	9	8	30	29
7	Christian	794	722	704	162
8	Christian Science	2	188	128	816
9	Church of Christ, Disciples	596	1,119	1,341	49
10	Confucian	3	44	62	1,121
11	Doukhobor				
12	Evangelical Association	3	11	5	409
13	Friends	6	13	5	38
14	Greek Orthodox	6	315	75	8,992
15	Holiness Movement		1	10	276
16	International Bible Students	16	474	170	90
17	Jewish	19	1,935	1,257	59,786
18	Lutheran	76	7.949	969	8,261
19	Mennonite (inc. Hutterite)	2	1		8
20	Mormon		42	51	49
21	No Religion	80	342	128	1,621
22	Pagap.				38
23	Pentecostal	188	637	1,767	1,214
24	Plymouth Brethren.	2	83	43	509
	Presbyterian	14,813	48,960	16,260	59,532
26	Protestant	20	372	143	11,279
27	Roman Catholic	39,105	162,754	188,098	2,463,160
28	Salvation Army	162	2,665	946	1,135
25	Unitarian	17	72	28	792
30	United Brethren in Christ		2	12	8
31	United Church	21,979	110,548	61,176	88,253
32	All other (Various)	31	1,053	496	1,836
33	Not given	6	458	128	2,025

Provinces, Census of 1931.

						 		
No.	Canada.	Northwest Territories.	Yukon.	British Columbia.	Alberta.	Saskat- chewan.	Manitoba.	Ontario.
_ -	No. 19,376,786	No.	No. 4,230	No. 694,263	No. 731,605	No. 921,785	No. 700,139	No. 3,431,683
1	16,026		1	1,786	4,213	3,381	897	2,353
2	1,635,615	3,352	2,299	205,047	112,979	126,837	128,385	784,130
3	443,341	18	14	23,395	30,496	22,613	13,483	171,305
4	13,472			1,677	1,192	1,099	675	7,640
a	15,784		35	15,074	366	88	33	110
۱ (2,133	1		377	136	77	102	1,364
1	11,527	182	6	875	2,315	1,098	367	4,302
8	18,436	2	14	5,418	2,075	1,039	1,797	6.957
9	15,811	1		358	1,251	1,601	1,136	8,359
10	24,087			17,548	1,728	1,231	760	1,590
11	14,913			6,033	786	7,956	131	7
12	22,213	1		85	2,133	2,034	307	17,225
13	2,424	ı		281	200	212	-66	1,602
14	102,389	5	8	3,274	26,427	31,126	15,774	16,387
15	4,436	į		79	252	539	94	3,185
10	13,552			1,596	1,252	3,152	2,316	4,486
17	155,614	2	2	2,666	3,663	5,047	19,193	62,094
18	394, 194	64	239	36,635	82,411	118,676	46, 892	97,022
13	88,736			1,085	8,289	31,338	80,352	17,661
21	22,005	1	3	655	13,185	1,607	228	6, 184
21	21,071	311	45	7.855	2,188	2,504	2,629	3,418
22	5,008	1,207	33	69	496	1,150	390	1,625
2.3	26,301			2,277	3,655	4,970	3,441	8,152
24	6,983		1	1,608	528	482	591	3,186
25	870,728	141	432	84,183	72,069	67,954	55,720	450,664
20	23,296	361	38	2,653	1.931	1,734	1,479	3,286
27	4,285,388	3,932	667	90,852	168,408	233,970	189,693	744,740
25	30,716	1		2,801	2,024	2,015	2,266	16,701
25	4,445	ļ j		491	294	328	1,178	1,244
30	1,647			44	124	65	23	1,369
31	2,017,375	94	352	164,750	176,816	243,399	176,240	973,768
32	51,078	37	2	6,670	6,760	6,451	2,973	24,829
33	16,042	8	9	6,066	1,023	1,053	528	4,738

Section 7.—Birthplaces.

The birthplaces of the population of Canada, as at each of the seven censuses, are shown by Canadian born, British born, and foreign born, (United States born and other foreign born) in Table 23. The table shows that in 1871, 97.29 p.c. of the population was born under the British flag, while sixty years later the percentage had declined to 89.18. The proportion of Canadian born increased steadily until the opening of the century, but has declined as a result of the increase of immigration after 1900. The 1931 census shows declines in the proportions of British born and United States born as compared with 1921 but a substantial increase in the percentage of "other foreign born"

The proportion of Canadian born has remained practically unchanged.

Worthy of note is the fairly steady increase of the United States-born population from 1.85 p.c. in 1871 to 4.26 p.c. in 1921, and the subsequent decline to 3.32 p.c. in 1931. Other foreign born increased from 0.92 p.c. in 1871 to 6.23 p.c. in 1911, declined to 5.87 p.c. of the total population by 1921 but, as already noted, increased substantially to 7.50 p.c. by 1931.

The birthplaces of the 1931 population are indicated by sex in Table 24, for the various provinces and territories. In the Maritime Provinces, the population is shown by the census to be about 93 p.c. native born, and in Quebec about 91 p.c. In Ontario, however, the proportion sinks to about 77 p.c., in Manitoba to about 66 p.c., in Saskatchewan to about 65 p.c., in Alberta to about 58 p.c., and in British Columbia to about 54 p.c. The general tendency over the past decade has been for the proportion of the native-born population to remain stationary or show a slight decrease in Eastern Canada, but in Western Canada increases are everywhere shown; thus, the percentages in 1921 were: Maritime Provinces 93, Quebec 92, Ontario 78, Manitoba 64, Saskatchewan 60, Alberta 54 and British Columbia about 50. The proportion of foreign born has naturally decreased in the western provinces as a result of the limited immigration of recent years.

About 44 p.c. of the total British-born population is in Ontario, but the greatest proportion of British-born population in any one province is in British Columbia, viz., 27 p.c. which compares with 31 p.c. for 1921. The foreign-born element reaches its maximum percentage in the rapidly growing provinces of Saskatchewan and Alberta, where it constitutes about 24 p.c. and 27 p.c. of the respective populations as compared with 26 p.c. and 30 p.c. respectively for 1921.

23.—Birthplaces of the Population of Canada, according to the Censuses of 1871-1931.

			Foreign	Foreign Born.		Percentages of Total Population.				
	Canadian	British	Born	Вогп	Total		!	Foreign	Born.	
Year.	Born.	Born.	in United States.	in other Foreign Countries.	tion.	Canadian Born,	British Born.	United States Born.	Other Foreign. Born.	
	No.	No.	No.	No.	No.	p.e.	p.c.	p.c.	p.c.	
1871 1881 1891 1901 1911 1921 1931	4,189,368	478,615 490,573 421,051	77,753 80,915 127,899 303,680 374,022	150,580 449,052 516,255	4,324,810 4,833,239 5,371,315 7,206,643	86-06 86-68 86-98 77-98 77-75	14-31 11-07 10-15 7-84 11-58 12-12 11-42	1.85 1.80 1.67 2.38 4.21 4.26 3.32	0-87 1-08 1-50 2-80 6-23 5-87 7-50	

Includes some hundreds of persons born at sea.

24.—Population Classified by Sex and	Nativity, by Provinces and Territories,
1931, with Totals	for 1911 and 192!.

Province or		Totals.		Canadia	ın Born.	British	Born.	Foreign	Born.
Territory.	Male.	Female.	Both Sexes.	Male.	Female.	Male.	Fe- male.	Male.	Fe- male.
P.E. Island	45,392	42,646	88,038	43,907	41,344	615	545	870	757
Nova Scotia	263,104	249,742	512,846	240,695	230,354	14,003	13,068	8,406	6,323
New Brunswick	208,620	199,599	408,219	195,908	187,910	6,732	5,980	5,980	5,709
Quebec	1,447,124	1,427,131	2,874,255	1,311,893	1,310,619	56,248	54,578	78,983	61,934
Ontario	1,748,844	1,682,839	3,431,683	1,311,792	1,315,606	273,129	253,441	163,923	113,792
Manitoba	368,065	332,074	700, 139	235,960	227,590	58,434	47,717	73,671	56,767
Saskatchewan	499,935	421,850	921,785	314,266	288,974	58,118	42,883	127,551	89,993
Alberta	400,199	331,406	731,605	221,207	204,660	61,207	47,558	117,785	79,188
British Colum- bia	385,219	309,044	694,263	194,047	180,687	102,209	87,515	88,963	40,842
Yukon	2,825	1,405	4,230	1,567	1,091	509	108	749	206
N. W. Territories	5,214	4,509	9,723	4.759	4,425	207		248	55
Canada, 1931.	5,374,541	5,002,245	10,376,786	4,076,001	3,993,260	631,411	553, 419	667,129	455,566
" 1921.	4,529,643	4,258,306	5,787,949	3,443,109	3,389,115	567,968	498,380	519,466	370,811
" 1911	3,821, 99 5	3,383,648	7,206,643	2,849,442	2,770,240	591,626	332,643	470,927	281,805

Section 8.—Citizenship of the Foreign Born.

At the last four decennial censuses, those of 1901, 1911, 1921 and 1931, inquiry has been made into the citizenship of the foreign-born population. The relevant instructions to enumerators at the 1931 census were as follows:—

"The term 'Canadian' should be used as descriptive of every person whose home is in the country and who has rights of citizenship in Canada. Every person born in Canada should be entered as 'Canadian' unless he or subsequently become the citizen of another country. Similarly any person born in the United Kingdom or in any of the British Dominions or dependencies, who has not subsequently become the citizen of another country, and who is now permanently domiciled! in Canada, should be entered as 'Canadian'. Similarly also, any person born in the United States, France, Germany or any other foreign country, but whose home is now in Canada, and who has become a naturalized citizen of Canada, should be entered as 'Canadian'.

- "An alien person should be classed as of the nationality or citizenship of the country to which he or she professes to owe allegiance.
 - "A married woman is to be reported as of the same citizenship as her husband.
 - "A foreign-born child under 21 years of age is to be reported as of the same citizenship as the parents
- "The law of Canada relating to nationality is contained in the Immigration Act, (Chapter 93, Revised Statutes of Canada, 1927) under which a 'Canadian' by nationality is defined as—
 - "(f) A person born in Canada who has not become an alien;
 - "(11) A British subject who has Canadian domicile;1
- "(III) A person naturalized under the laws of Canada who has not subsequently become an alien or lost Canadian domicile.¹

¹Canadian domicile can only be acquired for the purposes of the Immigration Act by a person having his domicile for at least five years in Canada after having been landed therein.

"... Following the participation of Canada in the Treaty of Versailles and in membership of the League of Nations, Canadian nationality was defined by Act of Parliament ('An Act to define Canadian Nationalis and to provide for the Renunciation of Canadian Nationality', Chapter 21, Revised Statutes of Canada. 1927), as including:

"(a) any British subject who is a Canadian citizen within the meaning of the Immigration Act. Chapter 27 of the Statutes of 1910 as heretofore amended

"(b) the wife of any such person;

"(c) any person born out of Canada, whose father was a Canadian National at the time of that person's birth, or with regard to persons born before the passing of this Act, any person whose father at the time of such birth possessed all the qualifications of a Canadian National as defined in this Act.

"In connection with the last paragraph it should be noted that a child of Canadian parents domiciled in a foreign country retains Canadian nationality up to the age of 21 years, and should be become domiciled in Canada prior to that age does not require to be naturalized.

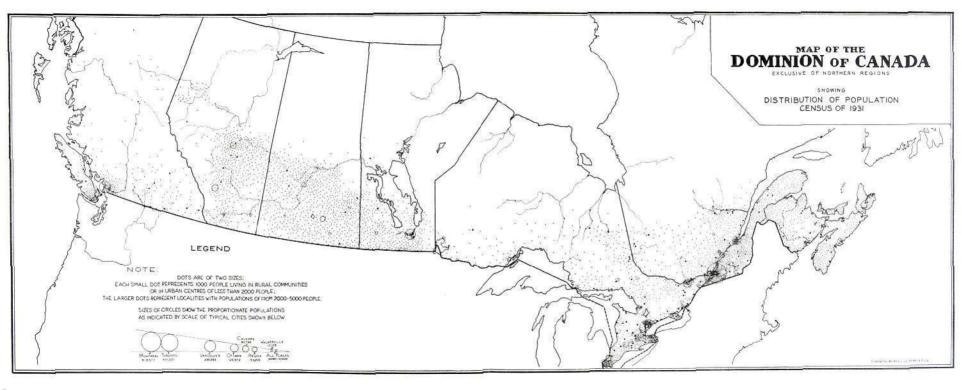
"It is proper to use the term 'Canadian' . . . when the information furnished by the individual conforms to the foregoing definitions and explanations."

The Progress of Naturalization. - The foreign-born residents of Canada numbered 1,122,695 in 1931 as compared with 890,277 in 1921, 752,732 in 1911 and 278,449 in 1901; among these the naturalized numbered 614,971 in 1931. 514,179 in 1921, 344,557 in 1911 and 153,908 in 1901, or 54.78 p.c., 57.75 p.c. 45.77 p.c. and 55.27 p.c. respectively. Alien residents in Canada showed an absolute decline between 1911 and 1921 of from 408,175 to 376,098, i.e., from 5.66 p.c. of the population to 4.28 p.c. Between 1921 and 1931, they increased to 507,724, or 4.89 p.c. of the 1931 population. Among the foreign-born residents of Canada the United States born exceed those born in any other country, although by continental groups the Europeans are more numerous. Between 1921 and 1931 the U.S. born declined from 374.022 to 344.574, but there was a substantial net increase in the total foreign born due to the large increase of Europeans. On the other hand, the percentage of the U.S. born who are naturalized to total U.S. born has increased from 63.63 in 1921 to 72.44 in 1931, whereas the percentage of Europeans who are naturalized has fallen from 57.88 in 1921 to 49.13 in 1931.

Table 25 gives details of the naturalized and alien persons among the foreignborn residents of Canada. The table is divided into pre-war and post-war sections and, while the general totals are comparable throughout the thirty years, the individual totals for those European countries whose boundaries underwent change following the War are not comparable as between the 1901-11 and 1921-31 periods.

25.—Naturalized and Alien Persons among the Foreign-Born Residents of Canada, by Countries of Birth, Numbers and Percentages, 1901, 1911, 1921 and 1931.

				PR	Œ-WA	R PERIO	D.		-		
		1	901.			i	1	911.			
Country of Birth.	Total Foreign Born. Naturalized.		Foreign Naturalized.		Alien.		Foreign Born.		lized.	Alie	n.
Austria-Hungary Belgium China Denmark France Germany Greece Holland Iceland Italy Japan Norway and Sweden Roumania and Bulgaria Russia. Turkey and Syria United States	No. 28, 407 2, 280 17, 043 2, 075 7, 944 27, 300 213 385 6, 057 6, 854 4, 674 10, 256 1, 066 31, 231 1, 579 127, 899	No. 9, 320 1, 296 668 1, 301 4, 975 20, 883 95 198 4, 013 1, 692 1, 062 6, 094 481 11, 394 481 87, 049	9.e. 32.81 56.84 56.262.70 76.49 44.60 51.43 56.25 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.42 59.	2,969 6,417 118 187 2,044 5,162 3,612 4,162 4,162 1,098 19,837 1,098 40,850	48 · 16 96 · 08 37 · 30 37 · 37 23 · 51 55 · 54 43 · 57 75 · 31 77 · 28 64 · 54 63 · 54 63 · 54 63 · 54 63 · 54 63 · 54	7,975 27,083 4,937 17,619 39,577 2,640 3,709 34,739 8,425 49,194 9,657 100,971 10,768 303,689	3,265 2,578 2,359 8,911 23,283 476 1,128 5,864 6,900 1,898 21,891 3,755 43,887 1,889 152,308	40.94 9.52 47.78 50.58 58.83 18.03 29.62 82.49 19.86 22.53 44.53 38.88 43.46 39.62 50.15	4,710 24,505 2,578 8,708 16,294 2,164 2,680 1,245 27,839 6,527 27,303 5,902 57,084 2,874 151,372	90 · 48 52 · 22 49 · 42 41 · 17 81 · 97 70 · 38 17 · 81 80 · 14 77 · 47 55 · 80 61 · 12 56 · 54 60 · 38 49 · 85	
Other Countries	3,186	3,009	94 - 44	177	5.56	<u> </u>		35-26		64 - 74	
Totals.	278,449	153,909	55-27	124,541	44.73	752,732	314,557	45 - 77	103,175	54 - 23	



25.—Naturalized and Alien Persons among the Foreign-Born Residents of Canada, by Countries of Birth, Numbers and Percentages, 1991, 1911, 1921 and 1931—concluded.

-	<u> </u>			POS	T-WA	R PERI	OD.			
		1	921.					1931,		
Country of Birth.	Total Foreign Born.	Natura	lized.	Alie	en.	Total Foreign Born.	Natura	lized.	Alien.	
•	No.	No.	p.c.	No.	p.c.	No.	No.	p.c.	No.	p.c.
Europe Austria Belgium Bulgaria Czechoslovakia Denmark Frinland France Germany Greece Holland Hungary Iceland Italy Norway Poland Roumania Russia Sweden Switzerland Yugoslavia Ukraine Other Asia China Japan	57, 535 13, 276 1,006 4,322 12, 156 19, 247 25, 266 3, 762 7, 493 65, 381 23, 127 65, 381 27, 770 3, 479 101, 055 11, 857 3, 636 11, 857 36, 624 11, 651 11, 651	265, 865 34, 171 5, 586 34, 171 5, 586 2, 408 2, 408 2, 408 1, 105 10, 615 10, 649 1, 105 7, 419 10, 739 10, 570 11, 876 63, 058 11, 876 62, 16 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 366 11, 36	59:089 42:255:71 55:71 55:71 55:71 55:71 56:72 56:72 56:72 56:72 56:72 56:72 56:72 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:73 56:7	8,617 2,664 3,007 924 24,792 26,843 8,994 37,997 1,603 1,291 5,1817 45,127 35,748	42 · 12 · 12 · 12 · 12 · 12 · 12 · 12 ·	37, 391 17, 063 1, 467 22, 835 17, 217 30, 354 16, 756 39, 163 5, 579 10, 736 28, 523 5, 731 42, 578 32, 679 171, 169	599 4.566 5.374 8.695 11,082 3.560 3.550 3.957 5.221 26,744 80,231 20,565 22,331 20,565 22,33 21,119 22,44 4,576	59-93 49-705 47-60-21 20-20-20-20-20-20-20-20-20-20-20-20-20-2	16,834 14,213 90,934 17,011 46,885 13,850 3,563 13,740 7,614 5,818 48,489 39,091 7,685	52-92 37-26 63-14 77-59 8-90 37-19 43-49 53-13 42-19 40-24 53-64 80-30 55-34 63-49 80-90 62-68
Syria Turkey Other United States	3,879 401 782 374,022	2,265 187 389 237,993	58-39 46-63 49-74 63-63	1,614 214 393 136,029	41.61 53.37 50.26 36.37		2,928 660 1,009 249,595	74 · 07 71 · 66 70 · 26 72 · 44	1,025 261 427 94,979	25.93 28.34 29.74 27.56
Other Countries	3,294	1,812	55-01	1,482	44.99	3,051	2.244	73 - 55	807	26.45
Totals	899,277	514,179	57 · 75	376, 6 98	42.25	1, 1 22 , 695	614,971	54 78	507,721	45-22

Section 9.—Rural and Urban Population.

In Table 26 are given statistics showing the growth of rural and urban population respectively, by provinces, since 1891. For the purposes of the census the population residing in cities, towns and incorporated villages has been defined as urban, and that outside of such localities as rural. Thus the distinction here made between 'rural' and 'urban' population is a distinction of provincial legal status rather than of size of aggregations of population within limited areas. Since the laws of the various provinces differ in regard to the population necessary before a municipality may be incorporated as urban (the laws of Saskatchewan, for example, making provision that 50 people actually resident on an area not greater than 640 acres may claim incorporation as a village, while the Ontario law now requires that villages asking for incorporation shall have a population of 750 on an area not exceeding 500 acres), the line of demarcation between rural and urban population is not at all uniformly drawn throughout the Dominion, as far as comparable aggregations of population are concerned. To a limited extent, however, Table 28 will permit the student of population statistics to make, at least for Canada as a whole, his own line of demarcation between rural and urban populations.1

In the United States, urban population prior to 1930 was classified by the Census Bureau as that residing in cities and other incorporated places having 2,500 inhabitants or more with certain minor qualifications, but in 1930 the definition was slightly modified to include townships and other political divisions, not incorporated as municipalities, having a total population of 10,000 or more, and a population density of 1,000 or more per square mile each. The direct result of this modification has been to slightly increase the proportion of urban population.

While a summary comparison between urbanization in Canada in 1931 and in the United States in 1930 would lead us to the conclusion that our country, though far less densely peopled than the United States, had an almost equally large percentage of its population in urban communities, viz., 53.70 p.c. in Canada as compared with 56.2 p.c in the United States, the fact that in the United States inhabitants of places having under 2,500 population are included with rural population must be taken into account. A fairer basis of comparison is secured if the same population limits are taken for both countries, as may be done by using Table 28. Thus, at the census of 1930, the United States had 29.5 p.c. of its population resident in cities of 100,000 and over, while Canada in 1931 had only 22.44 p.c. of its population in such places. The United States had an additional 18 p.c. of its population residing in cities of between 10,000 and 100,000 population, and 4.8 p.c. in cities and towns of 5,000 to 10,000, while Canada had in cities of these categories only 14.87 p.c., and 4.42 p.c. respectively of its population. Thus, taking all places of 5,000 and over—the lowest population for which comparative figures are readily available -52.3 p.c. of the population of the United States resided in such places as compared with 41.73 p.c. of the population of Canada, showing the much higher degree of urbanization which has been reached in the United States-a natural thing in an older settled and more densely peopled country.

On the basis of the census classification, it is apparent from Table 26 that in the last decade, as in the previous one, urban communities absorbed somewhat over two-thirds of the total increase in population, with the result that the urban population of Canada in 1931 exceeded the rural by 767,330. Out of every 1,000 persons in the country, 463 were resident, on June 1, 1931, in rural and 537 in urban communities, as compared with 505 in rural and 495 in urban communities on June 1, 1921; 546 in rural and 454 in urban communities in 1911; 625 in rural and 375 in urban communities in 1901; and 682 in rural and 318 in urban communities in 1891.

From Table 28, showing the distribution of urban population in Canada by size of cities and towns, it is seen that Canada possesses two cities of more than half a million population. These are Montreal and Toronto, with 818,577 and 631,207 inhabitants respectively. Two other cities, Vancouver and Winnipeg, have attained the 200,000 mark and Hamilton, Quebec and Ottawa each have populations of over 100,000. The two western cities of Calgary and Edmonton are now in the 75,000 to 100,000 class. In this respect London, which excelled Edmonton in 1921, now takes the next lower place with a population of 71,148. Details of the population of these and other smaller cities and towns of 5,000 and over, are given by censuses from 1871 to 1931 in Table 29, while the populations of urban communities having in 1931 a population of from 1,000 to 5,000 each, are given for 1901, 1911, 1921 and 1931 in Table 30.

All the larger cities have in their neighbourhoods growing "satellite" towns or other densely settled areas in close economic relationship with the central municipality. This phenomenon is to-day of increasing importance largely as a result of the greater ease and speed of transportation by motor vehicle. It has therefore been considered advisable to calculate the total populations resident in what the United States census authorities call the "metropolitan areas" dependent upon each of the cities with 100,000 population or over. On this basis the total populations of the larger cities at the census of 1931 were as follows: "Greater Montreal", 1,000,157; "Greater Toronto", 808,864; "Greater Vancouver", 308,340; "Greater Winnipeg", 280,202; "Greater Ottawa" (including Hull), 175,988; "Greater Quebec", 166,435; and "Greater Hamilton", 163,710.

26.—Rural and Urban Populations, by Provinces and Territories, 1891, 1911, 1921 and 1931.

_ :	<u> </u>				1			
Province or Territory.	18	91.	19	ю1.	19	11.		
riovince of Territory.	Rural.	Urban.	Rural.	Urban.	Rural.	Urhan.		
Prince Edward Island Nova Scotia Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukoa Northwest Territorios Royal Canadian Navy	94,823 373,403 272,362 988,820 1,295,323 111,498 1 60,945	14,255 76,993 48,901 499,715 818,998 41,008 - 37,228	14, 255		78, 758 306, 210 252, 342 1, 638, 934 61, 198, 803 261, 0294 361, 037 236, 633 188, 796 4, 647 6, 5078	14,970 186,128 99,547 966,842* 1,328,489 200,365- 131,395* 137,662* 203,684 3,865		
Canada	3,296,141	1,537,098	3,357,093	2,014,222	3,933,696	3,272,947		
Province or Territory.	19.	21.	19	31.	Numerical Increas in Decade 1921-31			
Province of Territory.	Rural.	Urban.	Rural.	Urban.	Reral.	Urban.		
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories Royal Canadian Navy	69, 522 296, 799 283, 432 1, 038, 096 348, 552 538, 552 346, 550 277, 020 2, 851 485	19,093 227,038 124,444 1,322,569 261,616 218,958 222,904 247,562 1,306	67,653 281,192 279,279 1,060,649 1,335,691 384,170 630,880 453,097 299,524 2,870 9,723	20,385 231,654 128,940 1,813,006 2,095,992 315,969 290,905 278,508 394,73919 1,360	-1,869 -15,007 15,847 22,553 108,661 35,668 92,328 87,547 22,504 19 1,735	1,292 4,616 4,496 491,037 389,360 54,353 71,947 55,604 147,177		
Canada	4,435,827	4,352,122	4,804,728	5,572,958	268,901	1,219,936		

The population (98,937) in territory now comprised in the provinces of Alberta, Saskatchewan and in Yukon and the Northwest Territories was classified as rural in the census of 1891. 2Vol. 1, Census 1911, places the urban population of Alberta for that year at 141,937. Included in this figure was the population (5,250) of twelve places which, according to the Report of the Municipal Commissioner for Alberta, were not then incorporated. The places so included were Aetna, Bankhead, Bellevue, Bickerdike, Canmore, Cardiff, Exshaw, Hillcrest, Passburg, Queenston and Elmpark. The correction resulting from this and from other small adjustments consequent upon more definite knowledge as to incorporated areas, places the urban population for 1911 at 137,662. Similar corrections have been made in the urban and rural figures for the census of 1901. As corrected in Census Report, Prairie Provinces, 1916. As changed by Extension of Boundaries Act, 1912. As changed by Extension of Boundaries Act, 1912. The urban population of 970,791, shown in Volume 1, Census 1911, is reduced to 966,842 by the transfer of the populations of Maniwaki, Martinville, Moisie, St. Bruno, St. Martin and St. Vincent de Paul from urban to rural by adjustments in area of the villages of Ste. Anne and Ste. Geneviève; and Extension of Boundaries Act, 1912. 'Urban and rural populations for 1911 and 1931 are as corrected in Census Report, Prairie Provinces, 1916. *As reduced by Extension of Boundaries Act, 1912. *Members of the Royal Canadian Navy were counted at their homes in the census of 1931. This includes South Vancouver and Point Grey, with 1921 populations of 32,267 and 13,736 respectively, which were then classified as 'rural'.

27.—Percentage Distribution of Rural and Urban Populations, by Provinces and Territories, 1891, 1901, 1921 and 1931.

Note.—In using this table, reference should be made to the notes appended to the preceding table showing rural and urban population by numbers.

Province or Territory.	189)].	190	11.	191	1.
Trovince or Territory.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories Royal Canadian Navy	86-93 82-91 84-78 66-43 61-26 73-11	13·07 17·09 15·22 33·57 38·74 26·89	85 · 52 71 · 85 76 · 66 60 · 33 57 · 12 72 · 40 84 · 37 74 · 62 49 · 52 66 · 41 100 · 00	14 · 48 28 · 15 23 · 34 39 · 67 42 · 88 27 · 60 15 · 63 25 · 38 50 · 48 33 · 59	84 · 03 62 · 20 71 · 71 51 · 80 47 · 43 56 · 57 73 · 32 63 · 22 48 · 10 54 · 59 100 · 00	15-97 37-82-29 48-20 52-57 43-43 26-68 36-78 51-90 45-41
Canada	68-29	31.80	62 - 50	37-50	54.58	45-42

The sales of the sales of	193	21.	199	31.
Province or Territory.	Rural.	Urban.	Rural.	Urban.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories Royal Canadian Navy	78 45 56 66 67 92 43 97 41 83 57 12 71 10 62 12 52 81 68 58 100 00	21·55 43·34 32·08 56·03 58·17 42·88 28·90 37·88 47·19 31·42	76 · 85 54 · 83 68 · 41 36 · 90 38 · 92 54 · 87 68 · 44 61 · 93 43 · 14 67 · 85 100 · 00	23 · 15 45 · 17 31 · 59 63 · 10 61 · 08 45 · 13 31 · 56 38 · 07 56 · 86 ² 32 · 15
Canada	50 - 48	49 - 52	46-30	53 - 70

The population in the territory now comprised in Alberta, Saskatchewan, Yukon and the Northwest Territories was classified as rural in the census of 1891.
 South Vancouver and Point Grey, with populations in 192t of 32,267 and 13,736 respectively, were then 'rural', but are 'urban' in 1931.

28.—Urban Populations of Canada, Divided by Size of Municipality Groups, 1911, 1921 and 1931.

		1911.			1921.			193 L.	
In Cities, Towns or Villages of—	Num- ber of Places.	Popula- tion.	Per cent of Total Pop.	Num- ber of Places.	Popula- tion.	Per cent of Total Pop.	Num- ber of Places.	Popula- tion.	Per cent of Total Pop.
Over 500,000	-	-	-	2	1,140,399	12.98	2	1,449,784	13 - 97
400,000 and 500,000		490,504			-	-	ļ - l	_	ļ
300,000 and 400,000	1	381,833	5.30	-	-	i -	,	465.378	4.48
200,000 and 300,000	- 2	236,436	3.28	· -,	518,298	5.90	1	413.013	
100,000 and 200,000 50,000 and 100,000		247,221			336.650			470,443	
25,000 and 50,000	7	272.071			239,096		10	339.521	
15,000 and 25,000	11	193.977			370,990		23	457, 292	
10,000 and 15,000	18	225,423	3 ⋅ 13	18	224,033	2.55	23	275,944	
5,000 and 10,000	44 59	313,100	4 · 34	54	382,762			458,784	
3,000 and 5,000	59	222.274		72	272,720		71	273.276	
1,000 and 3,000	250	428,250			492,116		324 322	557,466 231,375	
500 and 1,000	241	174,781			215.648 159.410		750	179.782	
Under 500	419	87.077	1.21	0/9	193,410	1.91		118,102	
Totals	1,956	3,272,947	45-42	1,443	4,352,122	49-52	1,605	5,572,658	53.70

Population is shown in Table 28 to be increasingly attracted to the larger cities. Thus not only have cities of over 500,000 population (Montreal and Toronto) increased their proportions to the total, but cities of from 100,000 to 500,000 have increased their aggregate population from 5.90 p.c. of the total to 8.46 p.c., and cities of between 5,000 and 100,000 from 17.68 p.c. to 19.29 p.c. in the decade 1921-31. The classes below 5,000 show slight proportional reductions.

29.—Populations of Cities and Towns having over 5,000 Inhabitants in 1931, Compared with 1871-81-91-1901-11-21.

NOTE.—The cities and towns in which a Board of Trade exists are indicated by an asterisk (*), and those in which there is a Chamber of Commerce by a dagger (†). In all cases the population for previous cansuses has been rearranged as far as possible to cover the same area as in 1931.

City or Town.	Province.			F	opulation	١.		
City or 10wn.	Province,	1871.	1881.	1891.	1901.	1911.	1921.	1931.
*†Montreal	Quebec		177,377	256,723	328,172	490, 504	618,506	818,577
*Toronto	Ontario	59,000	96,196	181,215		381,833	521,893	631,207
*Vancouver				13,709	29,432	120,847	163,220	246,593
*Winnipeg	Manitoba	241	7,985	25,639	42,340	136,085	179.087	218,785
†Hamilton *Quebec	Ontario	26,880 59,699	36,661 62,446	48,959 63,090	52,684 68,840	81,969 78,710	114, 151 95, 193	155,547 130,594
*Ottawa	Ontario	24,141	31.307	44,154	59.928	87.062	107,843	126.872
*Calgary	Alberta	24,121	31,307	3,876		43,704	63,305	83.761
*†Edmonton	Alberta		_	0,010	4.176	31.064	58,821	79.197
London	Ontario	18,000	27.867	31,977	37,976	46,300	60.959	71.148
†Windsor	Ontario	4,253	6,561	10,322	12, 153	17,829	38,591	63, 108
Verdun	Quebec	i - 1	278	296	1,898	11,629	25,001	60,745
*Halifax	Nova Scotia Saskatchewan	29,582	36, 100	38,437	40,832	46,619	58,372	59,275
*Regina	Saskatchewan	i:			2,249	30, 213	34,432	53,209
Saint John	New Brunswick	41,325	41,353	39,179	40,711	42,511	47, 166	47,514
*Saskatoon	Saskatchewan	2 220	F 40F	14 041	113	12,004	25,739 38,727	43,291
VictoriaThree Rivers	British Columbia.	3,270 7,570	5,925 8,670	16,841 8,334	20,919 9,981	31,660 13,691	22,367	39,082 35,450
*Kitchener	Ontario	2,743	4.054	7,425	9,747	15, 196	21.763	30,793
*Brantford	Ontario	8,107	9.616		16.619	23.132	29,440	30,107
†Hull	Quebec	3.800	6,890	11.264	13.993	18, 222	24, 117	29, 433
*Sherbrooke	Onebee	4.432	7.227	10.097	11.765	16,405	23,515	28,983
Outrement	Quebec	','-	387	795	1,148	4,820	13,249	28,641
*Fort William	Quebec. Ontario	-	690	2,176	3,633	16,499	20,541	26,277
St. Catharines	Ontario	7,864	9,631	9,170	9,946	12,484	19,881	24,753
Westmount	Cuebee	200	884	3,076	8,856	14,579	17,593	24,235
Kingston	Ontario	12,407	14,091	19,263	17,961	18,874	21,753	23,439
†Oshawa •Sydney	Ontario	3,185	3,992	4,066 2,427	4,394 9,909	7,436 17,723	11,940 22,545	23,439 23,089
Sault Ste. Marie	Ontario	1,700 879	2,180 780	2,414	7.169	14,920	21.092	23.082
Peterborough	Ontario.	4.611	6.812	9,717	12.886	18.360	20.994	22,327
*Moose Jaw	Saskatchewan	1,011	V, 012		1,558	13,823	19, 285	21,299
†Gueloh	Ontario	6,878	9.890	10.537	11.496	15, 175	18, 128	21,075
*Glace Bay	Nova Scotia			2,459	6,945	16 562	17,007	20,706
"Moneton	New Brunswick	600	5,032	8,762	9,026	11,345	17,488	20, 889
Port Arthur	Ontario		1,275	2,698	3,214	11,220	14,886	19,818
Niagara Falls	Ontario	1,610	2,347	3,349	5,702	9,248	14,764	19,046
tLachine	Quebec	2,689	8,248	4,819	6,365	11,688 4,150	15,404 8,621	18,630 18,518
*SudburytSarnia	Ontario	2 000	3.874	6,692	2,027 8,176	9,947	14,877	18, 191
*Stratiord	Ontario	2,929 4,313	8,239	9,500	9.959	12,946	16.094	17.742
New Westminster	British Columbia.	9,313	1,500	6,678	6.499	13, 199	14.495	17,524
*Bran ion	Manitoba	_ [1,000	3.778	5,620	13.839	15,397	17,082
*St. Boniface	Manitoba	817	1.283	1.553	2.019	7,483	12,821	16,305
*North Bay	Ontario	- 1	-,		2,530	7,737	10,692	15,528
tSt Thomas	Ontario	2,197	8,367	10,366	11,485	14,054	16,026	15,430
Shawinigan Falls Chatham East Windsor Timmine	Quebec	-				4.265	10,625	15,345
Chatham	Qutario	5,873	7,873	9,052	9,068	10,770	13,256	14,569
E386 Windsor	Ontario	_	-	-	-	-	5,870	14,251 14,200
Tidiming	Ontario	3,827	z 10m	7,535	7.866	10.299	3,843 13,216	14,200
*Galt †Belleville	Ontario	7.305	5,187 9,516	9,916		9,876	12,206	18,790

29.—Populations of Cities and Towns having over 5,000 Inhabitants in 1931, Compared with 1871-81-91-1991-11-21—continued.

	<u> </u>		_	P	 opulation			
City or Town.	Province.	1871.	1881.	1891.	1901.	1911.	1921.	1931,
*T -411-13	4714-		_		9 070	0.025	11,097	12 400
*Lethbridge †St. Hyscinthe	Alberta	3 746	5,321	7,016	2,072 9 210	9,035 9,797	10 8591	13,489 13,448
*Owen Sound	Quebec Ontario Prince Edward	3,746 3,369	4,426	7, 497	9,210 8,776	12.558	10,859 12,190	13,448 12,839
*Owen Sound *Charlottetown	Prince Edward							
	Island	7,872	10,345	10,098	10,718	9,883	10,814	12,361
†Chicoutimi	Quebec	1,393 8,052	1,935 8,734	2,277 8,797	3,826 9,242	5,880 8,703	8,937 10,470	11,877 11,724
†Lévis *Valleyfield (Salaberry	Quebec			- 1	8,210	0,100	10,710	
de)	(ԱրևeDec	1,800	3,906 5,373 4,314	5,515 8,612 4,722	11,055	9,449	9,215	11,411 11,395 11,256
Woodstock	iOntario	3,982	5,373	8,612	8,833	9,320 5,903	9,935 7,734	11,395
*St. Jean*Cornwell	Quebec.	3,022 2,033	4,468	6,805	4,030 6,704	6,598	7,419	11,126
*Cornwall †Joliette*Sandwicb	Ontario Quebec. Ontario Ontario	3,047	3,268	3.372	4,220	6,846	9,039	10.765
*Sandwich	Ontario	1,160	1,143	1,352	1,450	2,302	4,415	10.715
*Welland	Ontario	1,110	1,870	2,035	1,863	5,318 7,261 4,750	8,654 8,272 6,785	10,709 10,701
Thetford Mines	Quebec	876	1.040	1,710	3,256 3,773	4,750	6.785	10,587
tSorel	QuebecQuebec.	5,686	5,791	6,669	7,057	8,420	8, 174	10,320
Medicine Hat	AlbertaOntario	'-[- 1	1,570	5,608	9,634	10,300
Walkerville		- [_ [<u>-</u>	1,595 1,785	3,302 6,254	7,059 7,352	10,105
*Prince Albert †Brockville	Ontario.	5,102	7,609	8,791	8,940	9.374	10.043	9,905 9,736
Jonauière	Quebec	i – J				9,374 2,354	10,043 4,851	9,448
*Pembroke *Dartmouth	Quebec Ontario	1,508	2,820	4,401	5,156	5,626	7.8751	9,368
*Dartmouth	Nova Scotia	2, 191 1, 159	3,786 2,032	6,252 2,868	4,806 3,619	5,058	7,899 5,491	9,100 8,967
St. Jérôme* *New Glasgow	Nova Scotia	1,676	2,595	3,776	4,447	3,473 6,383	8,974	8,858
*Fredericton	New Brunswick	6,006	6,218	6,502	7,117	7,208	8,114	8,830
Cap de la Madeleine	Quebec	-	-	-	-	9 100	6,738	8,748
North Vancouver	Quebec.	1,541	2, 291	4,175	365 4,569	8,196 6,774	7,652 7,703	8,510 8,499
†Rivière du Loup Orillia	Ontario	1,322	2,910	4,752	4,907	6.828	7,631	8, 183
*Waterloo	Ontario	1,594	2,066	2.941	3.537	4.359	5,883	8,095
*Truro	Nova Scotia	2, 114	3,461	5,102	5,993	6,107	7,562 5,603	7,901 7,871
La Tuque	Quebec Ortario	3,398	4.854	5,550	5,949	$\frac{2,934}{6,420}$	6,936	7.776
*Sydney Mines	Nova Scotia	1,494	2,340	2,442	3,191	7,470	8,327	7,769
Barrie Sydney Mines New Waterford Trail	Nova Scotia	i - 1		- 1	- 1		5,615	7,745
*Trail	British Columbia.	4,049	5,080	6,081	1,360 7,008	1,460 6,964	3,020 7,620	7,573 7,505
*Lindsay *Amherst	romario	1,839	2,274	3,781	4,964	8,973	9,998	7,450
New Toronto	Ontario	.,,,,,	-	-	20€	686	2.669	7,146
†Smiths Falls Lauzon*Yarmouth	Ontario	1,150	2,087	3,864	5, 155	€,370	6,790	7,108
Lauzon	Norra Sautio	2,827 4,696	4,578 5,324	4,391 6,089	4,267 6,430	4,982 6,600	6,428 7,078	7,084 7,055
†Midland	Ontario	3,000	1,095	2.088	3,174	4,663	7,016	6.920
*Mimico	Ontario	l -	· -	- 1	437	1,373 6,158	3,751	6, 80 0 6,766
*Kenora	Ontario	-	1 646	1,806	5,202	6,158 6,254	5,407 6,559	6,766 6,745
*Nanaimo Eastview	British Columbia. Ontario	[[1,645	4,595	6.130 776	3,169	5,324	6.686
tDrummondville	Quebec.	-	900	1,955	1,450	1, 725	2,852	6,609
*Portage la Prairie	Quebec Manitoba	} -	~	3,363	3,901	5,892	6,766	6,597
*Campbellton	New Brunswick,	988	1,716	1,782 1,154	2,652 1,253	3,817 1,624	5.570 3,415	6,505 6,503
†Port Colborne	Ontario	988	1,110	4, 109	2,511	4.783	7,631	6,461
Grand'Mère -Edmundaton	Quebec New Brunswick	-	-	-	-	1 001	4,035	6,430
*Springhill †Prince Rupert	Nova Scotia,	-	900	4,813	4,559	5,713	5,681 6,393	6,355 6,350
Prince Rupert	British Columbia	-	_	2,100	3,516	4,184 3,978	5, 159	6,302
*Magog *Preston	Quebec Ontario	1.408	1,416	1.843	2,308 4,217	3,978 3,883	5,423	6.280
*Trenton	Ontario	1,408 1,796	3,042	4,363	4,217	3.988	5.902	6,276
Victoriaville	Quebec	1,425	1,474	1,300	1,693	3,028 3,772	3.759 4,501	6,213 6,167
*Kamioops	Nova Scotia	1.200	1,520	2.513	4.646	5,418	6.585	6, 139
*North Sydney *St. Lambert	Quebec		382	936	1,362 5,273	3,344	3,890 5,230	6.075
*Nelson *North Battleford	Quebec British Columbia.	-	-	-	5,273	4,476 2,105	5,230	5,992 5,986
*North Battleford	Saskatchewan	4,442	4.957	4,829	4.239	5,074	4,108 5,327	5.834
*Cobourg*Collingwood	Ontario	2.829	4,445	4,939	5,755	7,090	5,882	5,809 5,747
	Manitobo		-	- 1	-	· -	4,185	5,747
†Rimouski	Quebec	1,186	1,417	1,429	1,804 2,748	3,097 3,412	3,612 4,527	5,589 5,532
Brampton	Ontario	2,090	2,920	3,252 1,339	1,163	1,611	3, 109	5,470
Transcona. †Rimouski †Brampton. *Fort Frances. Longueuil	Quebec	2,083	2,355	1.339 2.757	2,835	3,972	4,682	5,407

29.—Populations of Cities and Towns having over 5,000 Inhabitants in 1931, Compared with 1871-81-91-1901-11-21—concluded.

C'A T	Province.			P	opulation			
City or Town.	Province.	1871.	1881.	1891.	1901.	1911.	1921.	1931.
St. Laurent				1, [84	1,390	1,860	3,232	5,34
Renfrew Swift Current		865	1,605	2,611	3,153 121	3,846 1,852	4,906 3,518	5,29 5,29
Ingersoll		4,022	4,318	4, 191	4,573	4.763	5.150	5, 23
Simcoe	Ontario	1,856	2,645	2,674	2,627	3,227	3,953	5, 22
Forest Hill								5, 20
Hawkesbury Thorold		1,671	1,920	2,042	4,150	$\frac{4,400}{2,273}$	5,544	5, 17
Whitby		1,635 2,732	2,456 3,140	2,273 2,786	1,979 2,110	2,248	4,825 3,957	5,09 5,09
Swansea		2,102	3,140	2,100	2,110	2,210	0,501	5.02
Yorkton	Saskatchewan	-	<i>-</i> l	-	700	2,309	5.151	5.02
Dundas	Outario	3, 135	3,709	3,546	3,173	4,299	4,978	5,02
Stellarton		1,750	1,599	2,410	2,335	3,910	5,312	5.00
Weyburn	Saskatchewan	-	~	-	113	2,210	3,193	5,00

30.—Populations of Towns and Villages having between 1,000 and 5,000 Inhabitants in 1931, Compared with 1901, 1911 and 1921.

									_=
Town or Village.	1901.	1911.	1921.	1931.	Town or Village,	1901.	1911.	1921.	1931.
Prince Edward Island.					Quebec.				1
Summerside		2,678	3,228	3 759	St. Jérôme de Matane	1.176	2,056	3,050	4.757
Souris	1.140	1.089	1.094		Buckingham		3.854	3,835	4.638
	.,	-,***	-, •	-,	Montmorency		2,710	3,367	
Nova Scotia.					Montreal North	l - I		1,360	
Westville	3,471	4,417	4.550	3,946	Kenogami		- 1	2.557	4.500
Bridgewater	2 203	2,775	3,147		Asbestos	783	2,224	2.189	4.396
Bridgewater	3 235	3, 179	2.988	3 152	Farnham	3, 114		3,348	
Kentville	1 731	2,304	2.717	3 033	St. Pierre	505	2.201	3.535	
Windsor	2 849	2.894	2.946	3 032	Pointe Claire	555	793	2.617	
Inverness	306	2,719	2.963		Coaticook	2,880	3, 165	3,554	
Dominion	1.548	2.589	2,390	2 848	St. Joseph d'Alma	-,,,,,,,	5,240	850	
Lunenburg	2 918	2,681	2,792	2 727	Montmagny.	1.919	2,617		
Liverpool	1.937	2,109	2,294		Mégantic	2,171	2,816		
Trenton	1.274	1,749	2.844		Lachute.	2,022	2,407	2.592	3,906
Parrsboro	2 705		2, 161		Beauharnois	1,976	2,015	2,250	
Wolfville	1 412	1,458	1,743		Giffard	-,,,,,	-, -, -	1.254	3.578
Autigonish		1,787	1.746		East Angus		- -	3.802	
Canso	1 470	1.617	1.626		Ste. Thérèse	1,541	2,120		
Shelburne	1 445	1,435	1,360		Beauport	-, -, -, -	-,	3.240	
Digby		1.247	1,230	1,412	Rouyn		_		3,225
Wedgeport	1 026	1,392	1,424	1 204	Montreal West	352	703	1,882	
Oxford	1.285	1,392	1,402	1 133	Mont Joli	822	2.141	2.799	3, 143
Bridgetown		996	1.086		Pointe aux Trembles		1.167	2.350	2.970
Mahone Bay	866		1, 177	1.065	Ste. Agathe des Monts.	1.073	2.020	2,812	2,949
Port Hawkesbury	633		869	1 011	Baie St. Paul	1,408	1,857	2,291	2,916
Joggina	1,088	1.648	1,732	1 000	Nicolet	2,225	2.593	2.342	2.868
	1,000	1,010	1,,02	2,000	Avlmer	2,291	3.109	2,970	2,835
New Brunswick.		'					1,408	2,265	
Chatham	4,868	4.666	4,506	4.017	Charny St. Joseph de Grantham	-	-,		2,812
Dalhousie	862	1.650	1,958	3.974	Iberville	1,512	905	2,454	2,778
St. Stephen	2,840	2,886	3.452	3 437	Lagrairie	1.451	2,388	2.158	2,774
Newcastle	2,507	2,945	3,507	3.383	Roberval	1.248	1.737	2.068	2.770
Bathurst	1 044	960	3.327		Windsor	2, 149	2,233	2.330	
Woodstock	3,644	3,856	3,380	3.259	Laval des Rapides	!	1.014		2,716
Sussex	1.398	1.906	2, 198	2.252	Donnacona	-	-	1,225	2,631
Sackville	1.444	2,039	2,173	2.234	Richmond	2,057	2,175		2,596
Devon			1.924		Plessisville	1,586	1,559		2,536
Shediac	1,075	1,442			Bagotville	507	1,011	2,204	2,468
Milltown	2,044	1.804		1,735	Berthier	1,364	1,335	2,193	2,431
Grand Falls	644	1,280	1.327	1.556	Ste. Anne de Bellevue	1,343	1,416	2,212	2,417
Marysville	1,892		1,614	1.512	La Malbaie ¹	826	1,449	1.888	2.408
St. Andrews	1.064	987	1.065	1,207	Mont Laurier	-	752	2,211	2,394
St. George	733	988	1,110	1.087	Louiseville,	1,5651	1,675	1,772	2,365

¹Also known as Murray Bay.

30.—Populations of Towns and Villages having between 1,000 and 5,000 Inhabitants in 1931, Compared with 1901, 1911 and 1921—continued.

									_
Town or Village.	1901.	1911.	1921.	1931.	Town or Village.	1901.	1911.	1921.	1931.
0					Outshan sonaludad				
Quebec—continued. La Salle	_	_	726	2.362	Quebec—concluded, St. Eustache	1,079	996	1,098	1,187
Saindon	_	-	1,793	2,355	Montreal South	- 1	790	1,030	1,164
SaindonPort Alfred	-	-	1,213	2,342	Dorion	275	631	833	
Priceville	1,583	1,751	1,919	2,310	Cap Chat	482	811	973	1,139 1,130
Pointe GatineauLoretteville	1,555	1.588	2,066	2.251	Cap Chat. Fort Coulonge. St. Joseph de la Rivière Bleue. Ste. Anne de Chicoutimi.	402	"1	010	3,100
Noranda	- 1		-	2,246	Bleue		<u>-</u> ــ	864	1,111
Noranda. Montreal East.			1,776	2,242	Ste. Anne de Chicoutimi.	516		838	
	1,797	1,886	2,063			779	856	939 881	1,099 1,067
Mont Royal	;	_	160	2.174	Chateauguay L'Enfant Jésus Rawdon	-	l -	i -	1.066
Black Lake	-	2,645	2,656	2,167	Rawdon	.=.		1.042	1,066
Waterioo Cabano Mont Royal Black Lake Amos Dorval	481	1,005	1,488 1,466		Beebe PlainSt. Césaire	477 865		921 985	1,053 1,051
	l - :	1,000	1,100	I 2.032	Ville Marie	502			
Masson	1,012	1,034	950	2,015	Rivière du Moulin Val Brillant	-	-	738	1.040
Almaville	-:		1,174	2,010	Val Brillant	-	1 [962 912	
Masson. Almaville. St. Marc des Carrières. Marieville.	296 1,306	1,224 1,587	1,492 1,748	1.986	Bic Notre-Dame de Portneul	-	-	877	1,017
St. Tite	921	l 1.438	1,783	1,969		!	1	\ ```	
St. Tite Terrebonne	1,822	1.990	2,056	1,955					1
Lennozville	1,120	1,211 2,381	1,554 1,648	1,927 1,901	Ontario.		1		1
Charlesbourg	-		1,267	1,869	Leamington	2,451	2,652	3,675	4,902
Charlesbourg St. Joseph (Richelieu)	647	1,416	1.658	1.869	Port Hope	4,188	5.092	4,456 3,166	4,723 4,723
East Broughton	699	996 881	1,709 1,094	1,868	Goderich	1,083 4,158		4,107	4,491
Cowansville Témiscamingue	989	- 001	1,003	1.855	Riverside	1,100	-	1,155	4.432
Trois Pistoles	-	-	1,454	1,837	Wallaceburg	2,763	3,438	4,000	ij 4,326
Quebec West	-	_	130	1,813	Sturgeon Falls,	1,418 3,229	$\begin{bmatrix} 2,199 \\ 4,098 \end{bmatrix}$	4,125	4,234
Arvida (city)St. Alexis de la Grande	-		_	1,790	Carleton Place	4,059	1 3,621	3,84	4,105
Raia	-	1,355	1,735	1,790	Perth	3,588	3.588	3,790	4,099
Lac au Saumon		1,171	1,354	1,779	Bowmanville	2,731 2,422	2,814 3,568	3,233 4,037	4,080
St. Raymond	1,272 1,175	1,653 1,402	1,693	1.753	Armerior	4, 152	4.405	4.07	7 4.023
Lac au Saumon St. Raymond Acton Vale Chandler	*'		1,549 1,756	1,741	Riverside. Wallaceburg. Sturgeon Falls. Paris. Carleton Place. Perth. Bowmanville. Penetanguishene. Amprior. Cochrane. Long Branch. Cobalt.	-	1,715	2,65	3,963
Maniwaki L'Epiphanie	1 -	~ '	-	1,720	Long Branch Cobalt Cobalt Cobalt Kapuskasing St. Marys Newmarket Gananoque Picton Bridgeburg Parry Sound Napanee Dunnville	l -	5 636	4,449	3,962 3,885
Couryille	_	910	1,293	1.678	Oakville	1,643	5,638 2,372	3.290	3,857
Sto Rose	1,154	1,480	1,811	1,661	Kapuskasing	l	I -	926	6 3,819
Deschaillons	1,213	1,161	I,680	1,650	St. Marys	3,384 2,120		3,84	7 3,802 6 3,748
St. Benoit Joseph Labre. St. Joseph (Beauce)	1,117	1,070 1,440	1.445	1.625	Gananogue	3,526	SI 3.804	3,60	3,592 3,580
HuntingdonGreenfield Park	1,122		l 1.40i	1,619	Picton	3,698 1,356	3,564	3,356	6 3, 5 80 1 3,521
Greenfield Park	-	ı -	1,112	1,610	Bridgeburg	2,884	$\begin{bmatrix} 1,770 \\ 3,429 \end{bmatrix}$		
Arthabaska St. Félicien	995	1,458 581		1.599	Napanee	3,143	N 2.807	3.03	3.497 sl
Ste. Marie		-	1,311	1,598	Dunnville	2, 108 2, 241	2,861	3,22	3,405
Ste. MarieL'Assomption	1,605	1,747	1,320	1,576	Tillsonburg	$\begin{bmatrix} 2,247 \\ 2,500 \end{bmatrix}$	$\begin{bmatrix} 2.758 \\ 3.085 \end{bmatrix}$		4 3,385 7 3,173
Bedford St. Georges Est	1,864 544	1,432 1,410	1,669 1,058	1.543	Hanover	1,392	2 2,342	2,78	1 3,077
Lac St. Louis	_	- 1	597	1,537	Burlington	1,119	1,831	[2,70]	9 3,046
St. Gabriel de Brandon	1,199	1,602		1,630	Napanee Dunnville Tillsonburg Copper Cliff Hanover Burlington Prescott Strathroy New Liskeard Huntsville	3,019	2,801 3, 2,823	2,63	$\begin{bmatrix} 2.984 \\ 2.964 \end{bmatrix}$
St. Jacques St. Michel de Laval	-	_	1,332 493	1.525	New Liskeard	2, 500	2, 109	31 2.26 3	3 2,880
Bromptonville	l -	1,239	2,603	1,527	Huntsville	2,152	2 2,358	2,24	6 2,817 3 2,813
Montobollo	1 795	954	977	1,501	Haileybury Haileybury Blind River Amherstburg Hespeler Campbelliord Portsmouth	2,656	3,874 2,558	3.74	3 2,805
Dist acli	1,018	1,606 1,50F		1.434	Amherstburg	2,222	2 2 560	2,769	9 2,759
Distacti Belceil Rock Island Causapseal Danville Pont Rouge	615		1,442	1,424	Hespeler	2.457	7 2.36	3,77	7 2,752
Cauaspscal	1		1.290	1.390	Campbelliord	2.483 1.823	3,053 7 1,786	2.89	2,744 1 2,741
Danville	1,017	1,331	1 419	1.352	Listowel	2,693 1,916	2,28	9 2,47	7 2,676
		1,368	1,394	1,352	Meaford	1.916	3 2,811	2,650	0 2,624 7 2,614
Baie de Shawinigan St. Casimir	-	1,024	1,213 $1,457$	1.310	Orangeville Petrolia	2,511 4,135		3, 14	$3 \mid 2,596$
St. Casimir	525	601		1,292	Pergus	1,39	6 1,534	1,79	2,596 5 2,594
Thurso. Chambly Basin. Laurentides.	849	900	1,068	1.287	Portsmouth Listowel Meaford Orangeville Petrolia Petrolia Petrolia Merritton	1,590	J 1,90.	$ 2,30 \ 2.54$	7 2,587 4 2,523
Laurentides	934			$\frac{1}{2}$ $\frac{1}{2}$ $\frac{284}{2}$	Merritton	1,710	_	1.52	2,490
La Providence			923	1,23	Kincardine	2,077	7 1,956 2,776	2,07	7 2,460
St. Pacôme	-	-) –	1,23	Bracebridge	2,479 2,971	$\{ 2.776 \\ 1 \ 2.60 \}$	2,45	$\begin{bmatrix} 2,436 \\ 4 & 2,431 \end{bmatrix}$
St. Pacôme. L'Abord-à-Plouffe	1.080	1,021	1,011	1,227	Humberstone. Kincardine. Bracebridge. Walkerton. Almonte. Fort Erie.	3,02	3 2.452	2,42	6 2,415
St. Rémi	1,080	1.021 933	987	1.18	Fort Erie	890	1,146		
DCOUSTOWH					•				

30.—Populations of Towns and Villages having between 1,000 and 5,000 inhabitants in 1931, Compared with 1901, 1911 and 1921—continued.

Town or Village.	1901.	1911.	1921.	1931.	Town or Village.	1901.	1911.	1921.	1931.		
Ontario—continued. Georgetown. Aylmer. Grimsby. Kingsville. Elmira. Tecumseh. Rockland Sioux Lookout. Alexandria. Tilbury.	1,998	2,102 1,669 1,427 1,782 - 3,397 550 2,323 1,368	2,061 2,194 2,004 1,783 2,016 978 3,496 1,127 2,195 1,673	2,283 2,198 2,174 2,170 2,129 2,118 2,088 2,006 1,992	Ontario—concluded. Parkhill. Tavistock. Winchester Arthur Eganville. Stayner Colborne Chesterville. Markham.	1,430 403 1,101 1,285 1,107 1,225 1,017 932 967	981 1,143 1,102 1,189 1,039 999	1,152 1,011 1,126 1,104 1,015 972 932 967 1,012	1,029 1,027 1,021 1,020 1,019 1,015 1,012		
Alexandria. Tilbury. Wingham. Essex. Ridgetown. Wiarton. Gravenhurst. Acton. Milton. Mount Forest.	2,443 2,146 1,484	1,353 1,954 2,266 1,624 1,720	2,092 1,588 1,585 1,726 1,478 1,722 1,873 1,718	1,949 1,864 1,855 1,839 1,801	Selkirk. The Pas. Dauphin. Brooklands. Neepawa.	2,188 1,135 1,418 1,052	2,815 1,864 1,483	3,726 1,858 3,885 1,887 1,505	4,030 3,971 2,462 1,910 1,680		
Clinton Durham Blenheim Port Dover Chesley Seaforth Capreol Ereter Port Credit	1,422 1,653 1,177 1,734 2,245 1,792	1,581 1,387 1,138 1,734 1,983 1,555	2,018 1,494 1,565 1,462 1,708 1,829 1,287 1,442 1,123	1,737 1,707 1,699 1,686 1,684 1,666	Souris Virden Carman Morden Tuxedo Beauséjour Stonewall Winkler Küllarney	839 901 1,439 1,522 - 589 391 585	1,550 1,271 1,130 847 1,005 458	1,710 1,361 1,591 1,268 1,062 994 1,112 812 871	1,590 1,418 1,416 1,173 1,139 1,081 1,005		
Thessalon Mattawa Mitchell Brighton Port Dalhousie Palmerston Dresden Southampton Forest Deserouto	1,205 1,400 1,945 1,378 1,125 1,850 1,636 1,553 3,527	1,945 1,524 1,766 1,320 1,152 1,665 1,551 1,685 1,445 2,013	1,651 1,462 1,800 1,411 1,492 1,523 1,339 1,537 1,422 1,847	1,631 1,588 1,580 1,547 1,543 1,529 1,480 1,480	Saskatchewan. Melville	141 - - -	1,816 1,981 315 473 859 599	2,808 2,290 1,535 2,002 1,822 1,746 1,146	2,936 2,369 2,087 1,899 1,809		
Iroquois Falls. New Hamburg. Keewatin. Morrisburg. Rainy River. Caledonia. Hageraville. Vankleek Hill Point Edward	1,208 1,156 1,693 801 1,020 1,674 780	1,484 1,242 1,696 1,578 952 1,106 1,577 874	1.178 1.351 1.327 1.444 1.444 1.223 1.169 1.499 1.258	1,476 1,436 1,422 1,420 1,396 1,385 1,383	Rosetown Lloydminstert Assinibois Indian Head Rosthern Watrous Wilkie Canora Manle Creek	768 413	317 663 1,285 1,172 781 537 435 936	865 755 1,006 1,439 1,074 1,101 778 1,230	1,553 1,516 1,454 1,438 1,412 1,303 1,222		
Alliston Lakefield Dryden Uxbridge Cardinal Port Elgin Harriston Richmond Hill Kemptville	1,256 1,244 140 1,657 1,378 1,313 1,637 629 1,523	1,279 1,397 715 1,433 1,111 1,235 1,491 652 1,192	1,376 1,189 1,019 1,456 1,241 1,291 1,263 1,055 1,204	1,325 1,319 1,305 1,296 1,295 1,286	Sutherland Gravelbourg Moosomin Battleford Tisdale Wynyard Kindersley Herbert Badville	868 609	421 1, 143 1, 335 250 515 456 559 233	1 726	1,154 1,148 1,137 1,119 1,096 1,042 1,037 1,009 1,005		
Tweed Chippawa Niagara Niagara Waterford Englehart Beamsville Elora Havelock Port Perry Norwich Stouff ville Cache Bay	1,168 460 1,258 1,122 832 1,187 984 1,465 1,269 1,223	1,368 707 1,318 1,082 670 1,096 1,197 1,436 1,148 1,112 1,034 889	1,339 1,137 1,357 1,123 759 1,256 1,136 1,268 1,143 1,176 1,053	1,266 1,228 1,213 1,210 1,203 1,195 1,173 1,163 1,158 1,155	Alberta. Drumheller (city)	323 550 - 639 - 231	2,118 1,586 2,411 1,465 1,557 1,207 1,029 1,137	1,590 1,612 1,479 1,552	2,987 2,344 2,258 2,125 1,849 1,704 1,672 1,659		
Stout ville. Cache Bay Victoria Harbour. Delhi L'Orignal Little Current Shelburne. Madoc.	989 823 1,026 728 1,188 1,157	1,616 825 1,347 1,208 1,113	1,463 733 1,298 923 1,072	1,128 1,121 1,121 1,101 1,077	Edson. Hanna Grande Prairie. High River. MacLeod. Taber.	153 796	497 - 1,182 1,844	1, J38 1,364 1,061 1,198 1,723 1,705	1,547 1,490 1,464 1,459 1,447		

¹ Under the Saskatchewan Town Act Lloydminster, Alberta, is merged with Lloydminster, Saskatchewan, for municipal purposes.

30.—Populations of Towns and Villages having between 1,000 and 5,000 Inhabitants in 1931, Compared with 1901, 1911 and 1921—concluded.

Town or Village.	1901.	19(1.	1921.	1931.	Town or Village.	1901.	1911.	1921.	1931.
Alberta—concluded. Vermilion		625	1.272	1.270	British Columbia —concluded.				
Lacombe	499	1,029	1,133	1,259	Cranbrook (city)	1,196			
MagrathStettler	424	995 1.444	1,069 1,416		Rossland (city) Revelstoke (city)	6,156 1,600			
Redcliff	-	220 809	1, 137 963		Fernie (city) Prince George (city)	_	3,146		2,732
Wainwright	-	788	975	1,147	Chilliwack (city)	277		1,767	2,461
BeverlyOlds	218	917	1,039 764		Cumberland (city) Port Alberni (city)	732	1,237	1,056	2,356
Innisiail Pincher Creek	317 335	$\frac{602}{1.027}$	941 888	1,024	Duncan (city)	- 746	2.517	1,178 1,151	
Fort Saskatchewan	306	782	982		Mission (village) Port Coquitlam (city).	-	-		1,314
British Columbia.					Grand Forks (city)	1,012	1,577		1,298
Kelowna (city)	26t	1,663	2,520	4,655	Merritt (city) Port Moody (city)		703	1,389 1,030	1.260
Vernon (city)	802	2,671	3,685	3,937	Courtenay (city)	-		810	1,219

Rural and Urban Farm Populations.—Of the 10,362,833 people who form the population of the nine provinces of Canada, exclusive of the Territories, only 3,289,507 or 31 · 7 p.c. live on farms.

There are 728,623 farms within the nine provinces and, considering the 14,056 farms (see Table 31) which are located within the limits of incorporated cities, towns or villages as "urban", the farm population is classified as 3,224,241 living on rural farms and 65,266 on urban farms. More than one half (50.5 p.c.) of the people on urban farms are in Quebec and only 23.6 p.c. in Ontario. Alberta ranks third with 6.4 p.c. and Nova Scotia fourth with 5.7 p.c. This is in contrast with the distribution on rural farms where 24.4 p.c. are in Ontario, 23.1 in Quebec, 17.4 in Saskatchewan and 11.5 in Alberta; these four provinces therefore have 76.4 p.c. of the rural farm population. The rural and urban farm populations bear a very close relationship to the number of farms of each class in the individual provinces but the distribution of rural farms follows more closely than that of urban farms the distribution of total population (see Table 1). Among the provinces, Quebec has the greatest number of persons per farm on farms of both the rural and urban classes.

Table 31 gives the number of farms and the farm populations, urban and rural, by provinces as recorded at the 1931 census.

31.—Urban and Rural Farm Populations, by Provinces, 1931.

	Farm	ıs June 1,	1931.	Population June 1, 1931, living on—						
Province.	<u></u>			All	Rural	Urban	Persons per Farm.			
	Total.	Rural.	Urban.	Farms.	Farms.	Farms.	All	Rural	Urban	
	No.	No.	No	No.	No.	No.	No.	No.	No.	
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	12,865 39,444 34,025 135,957 192,174 54,179 136,472 97,408 26,079	38, 629 33, 646 129, 863 188, 134 53, 777 185, 826 96, 439	379 6,094 4,040 423 646 969	180,214 777,384 830,960 256,305		515 3,725 1,720 32,967 15,410 2,003 2,605 4,198 2,123	4.50 5.29 5.72 4.16 4.72 4.13 3.95	5.30 5.74 4.17 4.72 4.13 3.84	4 · 57 4 · 53 5 · 41 3 · 81 4 · 74 4 · 03 4 · 33	
Canada	728,623			3,289,507	3,224,241	65,286	4.51	4 · 51	4.64	

Of the 728,623 farms in Canada, 281,044 or 38.5 p.c. employed hired labour for 7,368,671 weeks at a cost for wages and board of \$100,425,980. On the average, therefore, each farm engaging help employed a hired man for 26.2 weeks at a cost of \$13.62 per week.

Section 10.—Literacy.

Literacy in Canada has shown most encouraging progress since the opening of the twentieth century.

In 1901, 14.38 p.c. of the population of five years of age and over could neither read nor write; the corresponding percentage for 1911 was 10.50; for 1921, 9.25; and for 1931 it was only 7.18. (See Table 32.)

32.—Ability to Read and Write of the Population 5 Years of Age and Over, by Provinces, 1901, 1911, 1921 and 1931.

				Numbers	5 Years a	nd Over.	Percentage	s 5 Years	and Over.
Province. Pe		Total Popula- tion.	5 Years of Age and Over.	Can Read and Write.	Can Read only.	Can neither Read nor Write,	Can Read and Write.	Can Read only.	Can neither Read nor Write,
		No.	No.	No.	No.	No.	р.¢.	рc.	p.c.
CANADA—	1901 1911 1921 1931	7.206.643	7,730,400	3,918,915 5,622,844 6,957,168 8,582,985	129,584 32,863 58,242 51,709	680,132 663,453 714,999 667,677	88.98 90.00	2·74 0·52 0·75 0·56	10.50 9.25
Prince Edwa	rd	i							
Island—	1901 1911 1921 1931	103,259 93,728 88,615 88,038	83,792 78,969	77,372 76,259 72,147 73,260	4,591 1, 15 3 1,335 800	9,897 6,380 5,487 4,833	84 · 23 91 · 01 91 · 36 92 · 86	5.00 1.38 1.69 1.01	7.61 6.95
Nova Scotia-	1901 1911 1921 1931	459, 574 492, 338 523, 837 512, 846	407, 152 433, 801 463, 442 459, 587	331.007 384,605 413,952 419,760	18, 143 4,358 6,026 4,342	58,002 44,838 43,464 35,485		4 · 46 1 · 00 1 · 30 0 · 94	14 · 24 10 · 34 9 · 38 7 · 72
New Brunsw									
	1961 1911 1921 1931	331,120 351,889 387,876 408,219	290, 732 306, 896 338, 996 360, 633	233,060 261,160 293,454 316,224	10,618 2,622 3,286 3,507	47,054 43,114 42,256 40,902	80 · 16 85 · 10 86 · 57 87 · 69	3-65 0-85 0-97 0-97	16-19 14-05 12-46 11-34
Quebec—	190t 1911 1921 1931	1,648,898, 2,005,776 2,360,665 2,874,255	1,411,324 1,714,545 2,043,748 2,521,360	1,099,693 1,483,301 1,814,709 2,275,342	61.614 12.977 17.943 21.656	250,017 218,267 211,096 224,362	77 · 92 86 · 51 88 · 79 90 · 24	4·37 0·76 0·88 0·86	17+71 12+73 10+33 8+90
Ontario—	1901 1911 1921 1931	2,182,947 2,527,292 2,933,662 3,431,683	1,958,635 2,264,419 2,632,085 3,124,014	1,758,427 2,108,485 2,447,588 2,959,132	28.830 7.302 15.207 9.254	171,378 148,632 169,290 155,628	89·78 93·11 92·99 94·72	1·47 0·32 0·58 0·30	8·75 6·57 6·43 4·98
Maniteba—	1901 1911 1921 1931	255,211 461,394 610,118 700,139	532,306	184,295 340,870 464,369 582,689	3,683 1,281 4,011 2,647	31,912 55,977 63,926 48,204	84 · 04 85 · 63 87 · 24 91 · 97	1·41 0·81 0·75 0·42	14-55 14-06 12-01 7-61
Saskatchewa									
	1901 1911 1921 1931	91,279 492,432 757,510 921,785	78, 185 421, 432 644, 335 816, 559	49,941 362,768 566,038 747,024	797 926 4,609 4,079	27.447 57,738 73.688 65,456	63 · 88 86 · 08 87 · 85 91 · 48	1·02 0·22 0·71 0·50	35 · 10 13 · 70 11 · 44 8 · 02

32.—Ability to Bead and Write of the Population 5 years of Age and Over, by Provinces, 1901, 1911, 1921 and 1931—concluded.

	ļ			Numbers	5 Years a	nd Over.	Percentage	s 5 Years	and Over.
Province	Province. Total Population.		5 Years of Age and Over.	Can Read and Write.	Can Read only.	Can neither Read nor Write.	Can Read and Write.	Can Read only	Can neither Read nor Write.
		No.	No.	No.	No.	No.	p.c.	p.e.	p.e.
1lberta—	1901 1911 1921 1931	73,022 374,295 588,454 731,605	325,916 509,896	42,731 283,513 453,572 603,401	707 1,198 3,259 3,228	41,205 53,065	86.99 88.95	1·13 0·37 0·64 0·49	30-£6 12-64 10-41 7-13
British Col bia	u m- 1901 1911 1921 1931	178,657 392,480 524,582 694,263	356,603 474,787	121,782 314,183 427,374 600,413	973 1.013 2.552 2,046	41,407 44,861	88 · 11 90 · 01	0 · 60 0 · 28 0 · 54 0 · 32	9.45
Yukon—	1901 1911 1921 1931	27,219 8,512 4,157 4,230	8,006 3,880	17,374 6,843 2,732 2,811	54 76 8 32	1,087 1,140	85-47 70-41	0·20 0·95 0·21 0·83	13-58 29-38
Northwest Territorie	s—1901 1911 1921 1931	20, 129 6, 507 7, 988 9, 723	5,672 7,471	3, 233 857 749 2, 929	174 7 6 118	4,808 6,716	15·11 10·03	0 · 93 0 · 12 0 · 08 1 · 40	84 · 77 89 · 89

Literacy of Population over Ten Years of Age, by Age-Groups and Sex.-Experience has shown that statistics of literacy among children under ten years of age are practically meaningless. A truer test of progress has been made by taking the statistics for the population of ten years of age and over, but unfortunately this comparison cannot be made for earlier censuses than that of 1921. Table 33 shows literacy, by sex and province, of persons ten years of age and over in 1931, and the percentage of illiterates in this significant section of the population was 3.79 p.c. in 1931, as compared with 5.10 p.c. in 1921. It will be noticed that illiteracy is very definitely greater among males than among females. In 1931, 4.32 p.c. of the male population and 3.21 p.c. of the female population were recorded as unable to read or write, as compared with 5.73 p.c. and 4.43 p.c. respectively for 1921. Manitoba, Saskatchewan and Alberta, alone among the provinces, show a higher percentage of female illiteracy; this condition existed also in 1921, although the corresponding percentages for both males and females were then substantially greater, being: Manitoba, males 6.48, females 7.78; Saskatchewan, males 5.00, females 7-08; Alberta, males 4-62, females 5-92.

The figures show that New Brunswick is in the most unfavourable position, though there has been an improvement since 1921. No less than 6.91 p.c. of the population of that province — 8.75 p.c. of the males and 4.97 p.c. of the females — could neither read nor write in 1931. For 1921 the figures were: total illiterate, 7.61 p.c; males 9.24; females 5.90. On the other hand the province of Quebec, which in 1921 recorded the high percentage of 6.20 (7.85 males and 4.54 females) as illiterate, had reduced this proportion to 4.76 (6.21 males and 3.29 females) by 1931.

33.-Literacy of the Population of 10 Years and Over, by Sexes and Provinces, 1931.

	Popula-	_		Can	F	ercentage:	3.
Province.	tion 10 Years and Over.	Can Read and Write,	Can Read only,	neither Read nor Write.	Can Read and Write.	Can Read only.	Can neither Read nor Write.
CANADA—	No.	No.	No.	No.	p.c.	p.c.	p.c.
Total 3 ale F male		7,821,819 4,053,007 3,768,812	38,407 22,028 16,379	309,396 183,827 125,569	95·74 95·17 96·37	0·47 0·52 0·42	3 · 79 4 · 32 3 · 21
Prince Edward Island—				i			
Total Mai Female	69,383 35,907 33,426	66,996 84,584 32,412	502 213 289	1,835 1,110 725	96·63 96·32 96·97	0·72 0·59 0·86	2 · 85 3 · 09 2 · 17
Nova Scotia—		!			ľ		
Total Male. Female	402,401 207,098 195,303	382,472 195,465 187,007	2,790 1,438 1,352	17, 139 10, 195 6, 944	95-05 94-38 95-75	0·69 0·69 0·69	4 · 26 4 · 92 3 · 56
New Brunswick—	ľ						
Total Male Female	310,316 159,102 1 5 1,214	286,676 143,996 142,680	2,200 1,181 1,019	21,440 13,925 7,515	92·38 90·51 94·36	0·71 0·74 0 ·67	6+91 8+75 4+97
Quebec—							
Total Male Female	2,167,517 1,091,418 1,076,099	2,048,778 1,014,259 1,034,519	15,527 9,399 6,128	103,212 67,760 35,452	94 · 52 92 · 93 96 · 14	0·72 0·86 0· 5 7	4 · 76 6 · 21 3 · 29
Ontario							
Total Male Female	2,791,072 1,423,989 1,367,083	2,719,558 1,381,104 1,338,454	7,357 4,841 3,016	64,157 38,544 25,613	97·44 96·99 97·91	0·26 0·30 0·22	2·30 2·71 1·87
Manitoba					- 1		
Total Male Female	557,806 296,095 261,711	530,779 283,063 247,716	2,151 1,040 1,111	24,876 11,992 12,884	95 - 15 95 - 60 94 - 65	0·39 0·35 0·42	4 · 46 4 · 05 4 · 92
Saskatchewan—							
Total Male Female	705,350 390,105 315,245	672,812 374,025 298,787	3,441 1,791 1,650	29,097 14,289 14,808	95-39 9 5-8 8 94-78	0·49 0·46 0·52	4·13 3·66 4·70
Alberta-			ļ	Į			
Total Male Female	572,129 319,840 252,289	549,789 308,619 241,170	2,671 1,458 1,213	19,669 9,763 9,906	96 · 10 96 · 49 95 · 59	0 - 47 0 - 46 0 - 48	3·44 3·05 3·93
British Columbia—	1		}	1	-	-	
Total Male Female	583, 135 328, 983 254, 152	558,417 314,134 244,283	1,630 1,098 534	23,088 13,753 9,335	95 · 76 95 · 49 96 · 12	0 · 28 0 · 33 0 · 21	3·96 4·18 3·67
Yukon							
Total Male Female	3.542 2.475 1,067	2,710 2,063 647	30 19 11	802 893 409	76·51 83·35 60·64	0·85 0·77 1·03	22 · 64 15 · 88 38 · 33
Northwest Territories—		į	J	#		ł	
Total Male Female	7,021 3,850 3,171	2,832 1,695 1,137	108 52 56	4,081 2,103 1,978	40·34 44·03 35·86	1 · 54 1 · 35 1 · 77	58·13 54·62 62·38

Literacy among Urban Populations.—Table 34 shows the literacy of persons residing in cities with populations of 30,000 and over in 1931. The final three columns give percentage figures for persons ten years of age and over, and a comparison with figures for 1921 shows that very definite changes have taken place in the literacy of urban populations. Toronto had, in 1921 as in 1931, a very low percentage of illiteracy - 1.68 p.c. in 1921 and 1.26 p.c. in 1931 - and the larger cities of Ontario, generally, made a comparatively good showing in 1921. Other large cities of Canada had in 1921 fairly high percentages of illiteracy, the figures being: Montreal, 3.60 p.c.; Winnipeg, 3.54 p.c.; Vancouver, 3.54 p.c.; Quebec, 3.27 p.c.; Ottawa 2.69 p.c.; and Hamilton, 2.12 p.c. Comparison of 1921 figures¹ with those for 1931 in Table 34 brings out the great improvement in the western cities. Marked betterment is evident throughout the list, but the exceptional progress in the west has put Three Rivers, Quebec, Montreal and Halifax in a relatively less favourable position as regards illiteracy. While Three Rivers has still the highest percentage of persons who can neither read nor write, the proportion has been reduced from 7.03 p.c. in 1921 to 3.45 p.c. in 1931.

The city of Saskatoon, Saskatchewan, had the lowest percentage of illiteracy in 1931, viz., 0.71, London, Ontario, being next with 0.88 p.c. In the cities of Windsor, Ontario, and Regina, Saskatchewan, both of which had low percentages of illiterates in 1921 (1.53 p.c. and 1.44 p.c. respectively), slight increases to 1.78 p.c. and 1.68 p.c., respectively, are shown in 1931.

34.—Literacy of the Populations of 10 Years of Age and Over in Cities and Towns of 30,000 and Over, by Numbers and Percentages, 1931.

		10 V		ımbers ars and ()ver.	Percentages 10 Years and Over.			
City or Town.	Total Popula- tion.	10 Years and Over,	Can Read and Write.	Can Read only.	Can neither Read nor Write.	Can Read and Write.	Can Read only.	Can neither Read nor Write.	
	No.	No.	No.	No.	No,	p.c.	p.c.	p.c.	
Montreal. Toronto Vancouver Winnipeg Hamilton Quebec Ottawa Calgary Edmonton London Windsor Verdun Halifar Regina Saint John Saskatoon Victoria Three Rivers Kitchener Brantford	818,577 631,207 246,593 218,785 155,547 130,594 126,872 83,761 79,197 71,148 60,745 59,275 53,209 47,514 43,201 43,201 39,082 35,450 30,793	654,094 535,327 212,413 185,534 127,891 100,203 104,588 70,512 65,101 60,203 50,623 46,818 47,725 43,161 38,729 35,514 34,511 26,079 24,954	635,811 527,465 208,754 181,305 125,668 97,161 102,257 69,626 63,980 59,646 49,606 49,606 49,606 49,222 46,468 42,319 46,468 42,319 35,212 34,111 25,053 24,668 24,562	2,508 1,089 296 541 177 502 246 148 213 30 118 98 137 116 69 49 30 125 39	15, 775 6, 763 3, 688 2, 046 2, 546 2, 085 2, 085 2, 085 2, 085 1, 120 726 370 370 901 297 457	97 · 20 98 · 53 98 · 28 98 · 28 97 · 72 98 · 26 90 · 98 97 · 77 98 · 78 98 · 78 99 · 97 97 · 37 98 · 50 99 · 15 98 · 50 99 · 15 98 · 50 99 · 98 96 · 97 97 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98 · 98 98	0.38 0.21 0.14 0.29 0.14 0.50 0.21 0.33 0.05 0.21 0.27 0.18 0.18 0.18	2.41 1.26 1.58 1.98 1.60 2.53 1.99 1.05 1.32 0.88 1.78 1.04 2.35 1.32 0.71 1.07 3.45 1.19 1.19 1.19 1.19	

¹ See p. 133 of the 1924 Year Book.

Section 11.—School Attendance.

The census statistics of school attendance for the population between the ages of 5 and 19 years are presented for 1911, 1921 and 1931 in Tables 35 and 36 for Canada as a whole. In comparing the statistics of school attendance for the census of 1931 with those of 1921 and 1911, it is necessary to take into account the fact that in 1931 and 1921, the question as to school attendance covered the nine months ended May 31, while in 1911 the question covered the calendar year 1910. For this reason the figures are not quite comparable, although the general trends as shown by the percentages of Table 36 are probably not materially affected.

In 1931 the population of school age, 5-19 years, numbered 3,246,391 or $31\cdot 3$ p.c. of the total population, as compared with $31\cdot 4$ p.c. in 1921 and $30\cdot 0$ p.c. in 1911. The proportion of the total group 5-19 years actually in attendance at school shows progress. In 1911 only $52\cdot 88$ p.c. of the population of this age were in attendance at school; the proportion rose to $61\cdot 33$ p.c. in 1921 and $65\cdot 59$ p.c. in 1931. The proportion of males between these ages attending school increased from $52\cdot 15$ p.c. in 1911 to $60\cdot 80$ p.c. in 1921 and $65\cdot 12$ p.c. in 1931; that of females from $53\cdot 63$ p.c. in 1911 to $61\cdot 86$ p.c. in 1921 and $66\cdot 08$ p.c. in 1931.

The tables show the school attendance and percentage of school attendance respectively of the population 5-19 years of age for the census years 1911, 1921 and 1931.

35.—School Attendance of the Total Population¹ 5-19 Years of Age Inclusive, by Sexes, for all Canada, 1911, 1921 and 1931.

Schedule.	1	Both Sexes	3.		Males.		Females.			
scheaute.	1911.	1921.	1931.	1911.	1921.	1931.	1911.	1921.	1931.	
5-9 years—Totals	No. 783,252	No. 1,648,694	No. 1,132,749	No. \$95, 0 15	No. 528,663	No. 572,507	No. 388,297	No. 520,031	No. 560,241	
At achool	459,682	686,614	777,235	232,581	345,494	391,322	227,100	341,120	385,913	
Not at school.	323,570	362,080	355,514	162,464	183,169	181,185	161,106	178,911	174,329	
16-19 years— Totals,,	1,380,685	1,714,867	2, 113, 612	206,155	864,517	1, 0 68,180	674,530	850,350	1,045,462	
At school	684,599	1,008,177	1,352,217	341,745	501,520	677,059	342,854	506,657	675,158	
Not at school	696,086	706,690	761,425	864,410	362,997	391,121	331,676	343,693	870,304	
5-19 years— Totals,,,,,	2, 163, 937	2,763,561	3,246,391	1,101,200	1 ,39 3,180	1,640,687	1,062,737	1,370,381	1, 40 5,704	
At school	1.144,281	1,694,791	2,129,452	574,326	847,014	1,068,381	569,955	847,777	1,061,071	
1 month	-		1,024	-	-	492	_	-	532	
1-3 months ²	42,514	72,543	45,652	21,904	36,595	22,678	20,610	35,948	22,974	
4-6 "	131,343	133,417	67,987	68,468	68,077	34,52t	62,875	65,340	33,466	
7-9 "	970,424	1,488,831	2,014,789	483,954	742,342	1,010,690	486,470	746,489	1,004,099	
Not at echool	1,019,656	1,068,770	1,116,939	526,874	546,166	572,306	492.782	522,604	544.633	

^{*}Including population 5-19 years of age of Yukon and Northwest Territories. *2-3 months in 1931.

36.—Percentages of School Attendance of Total Population: 5-19 Years of Age Inclu-
sive, by Sexes, for all Canada, 1911, 1921 and 1931.

Both Sexes.						M	ales.		Females.			
Schedule.	1911.	192t.	1931.	In- crease 1921- 1931.	1911.	192t.	1931.	In- crease 1921- 1931.	1911.	1921.	1931.	In- crease 1921- 1931.
5-9 years— At school Not at school	p.c. 58-69 41-31					p.c. 65·35 34·65	p.c. 68·35 31·65					
At school Not at school	49·58 50·42						63 - 38 36 - 62					
5-19 years— At school	52-88 1-97 6-07 44-84 47-12	2·62 4·83 53·87	0.03 1.41 2.09 62.06		1 · 99 6 · 22 43 · 94	60-80 2-63 4-89 53-28 39-20	0.63 1.38 2.10 61.60	+0.08 -1.25 -2.79 +8.32	1·94 5·92 45·77	2·62 4·77 54·47	0.03 1.43 2.08	+0.03 -1.19 -2.69 +8.06

¹Including population 5-19 years of age of Yukon and the Northwest Territories. ³2-3 months in 1931.

Section 12.—Annual Estimates of Population.

While the populations in different countries are actually counted at decennial or quinquennial censuses, annual estimates of populations are required by modern States for many purposes, such as the calculation of birth, death and marriage rates. and of per capita figures of production, trade, finance, consumption, etc. In different countries various methods of obtaining annual figures of post-censal populations are adopted. For example, it is possible, with good vital statistics and records of arrivals and departures, to obtain the actual population at any particular date with approximate accuracy by the simple method of adding births and arrivals and subtracting deaths and departures during the period elapsed since the census. This method is impracticable for Canada, on account of her 4,000 miles of common boundary line with the United States, crossed every day by many thousands of people in both directions. In almost all civilized countries, the actual methods of making the estimates vary. Thus, the method of arithmetical progression is widely used in estimating the populations in the older countries of the world; this method involves the annual addition to the population of the country and of particular areas within it of one-fifth or one-tenth of the numerical increase in the last quinquennial or decennial inter-censal period. In the case of Canada annual figures of population have been purely estimates, made on the basis of past increases, prior to the 1931 census. They have now been worked out on a basis which takes into consideration collateral data back to 1867, and the resulting figures are believed to more accurately state the populations at inter-censal periods than any before published.

The new method upon which calculations are based was described at p. 108-9 of the 1932 Year Book.¹

¹ The table of estimates on p. 145 and the description of the method upon which calculations are based were the work of M. C. MacLean, M.A., F.S.S., Chief of Census Analysis, Dominion Bureau of Statistics.

37.—Estimates of the Population of Canada for Inter-Censal Years, by Provinces, 1867-1932.

(000's omitted.)

Year.	Can- ada.	P.E. Is- tand.	N.S.	N.B.	Que.	Ont.	Man.	Sask,	Alta.	B.C.	Yu- kon.	N.W. Terri torice
-0.2	No.	No.	No.	No.	No.	No.	No.	No,	No.	No.	No.	No.
1867	3,463 3,511	88 90	364 369	271. 274	1,123 1,137	1,525 1,545	15 17		_	32 33	-	45 46
1869	3,565	91	374	277	1.154	1,569	20	-	_	34	_	46
1870	3,625	92	381	282	1,171	1,594	22	-	-	36	-	46 47
1871 1872	3.689 3.754	94 96	388 394	286 290	1,191 1,208	1,621 1,651	25 29	-	-	36 37	-	48
1873	3,826	98	400	294	1,205	1,685	33	<u>-</u>	_	39		49 50
1874	3.895	99	406	298	1,246	1,718	37	_		40	-	51
1875	3.954	101	481	301	1,260	1,746	41	-	- 1	42	_	52
1876 1877	4.009	102 103	415 420	304 307	1,275 1,289	1,774 1,802	44 47	_	- }	43 44	-	52 52
1878	4,120	104	425	310	1,304	1.829	50			45	_	53
1879	4,185	105	430	313	1,322	1,861	54	-	- i	46	-	54
1880	4.255	107	435	317	1,841	1,894	58	-	-	48	_	55
1881 1882	4,325 4,375	109	441	321 321	1,360 1,372	1,927	62 71	-		49	_	56
1883	4,430	109 109	442 443	321 321	1,372	1,940	80			54 59	_	53 54 55 56 66 64 69 74 78 82 91
1884	4,487	109	445	321	1,401	1,988	90		- 1	64	_	69
1885	4,537	109	446	321	1,414	2,005	99	-	-	60	_	74
1886 1887	4.580	109	446	321	1,424	2,020	108	-	- 1	74 78	-	78
1888	4,626 4,678	109 109	446 447	321 321	1,436	2,037 2,057	117 ¹ 126	_	_	78 83	-	82
1888 1889	4.729	109	448	821	1.462	2,075	135		_	88	_	91
1890 1891 1892	4,729 4,779	109	449	321	1,475	2,093	144	_	-	93	_	95
1891	4,833	109	450	321	1,489	2,114	153	-	-	98	-	99
1893	4.883 4.981	108 108	451 452	322 323	1,504 1,518	2,119 2,122	163 173			106 114	-	110
1894	4.979	107	452	323	1,532	2.128	183	_	_ [122	_	121 132
1895	5,026	106	452	823	1,546	2,133	198	-	- 1	130	_	143
1896	5,074	105	453	324	1.560	2, 137	203	-	- 1	138	-	154
1897	5, 122 5, 175	104 104	454 455	325 326	1,575 1.591	2,142	213 223	-		146 154	-	163 173
1898 1899	5,235	103	457	320 327	1,610	2,149 2,159	234	_	_	162	_	183
1900	5,301	103	459	329	1,630	2,172	245	-	-	170	_	193
1901	5.371	103	460	331	1,649	2, 183	255	91	73	179	27	20 19 17
1902	5,494	101	459	331	1,670	2,194 2,217	275	125	96 119	199 220	25 23	19
1903	5,651 5,827	100 99	460 463	331 333	1,709 1,752	2,217	296 318	159 194	142	242	20 22	16
1905	6,002	99	464	333	1,771	2,289	344	236	186	264	21	1.5
1906	6, 197	96	465	333 334	1,784	2,299	366	258	185	279	18	13
1907	6,411	96	475	341	1,853	2.365	395	311	236	309	18	12
1908	6,625 6,800	95 94	480 483	345 346	1,902 1,981	2,412 2,444	418 427	356 401	286 301	330 350	15 13	11
1910	6,988	94	486	348	1.965	2,482	441	446	336	370	iï	19
1910 1911 1912.	7.207	94	492	352	2,006	2,527	461	492	374	393	9	7
1912	7,389	94	496	356	2,042	2,572	481	525	400	407	ģ	1 7
1913	7,632 7,879	94 95	504° 512	363 371	2,096 2,148	2,639 $2,705$	505 530	563 601	429 459	424 442	8 8	\$
[915	7,981	94	511	371	2,162	2.724	545	628	480	450	8	8
[915 1916	8,001	92	505	368	2,154	2,713	554	648	496	456	7	8
1917	8,060	90	503	368	2,169 2,191	2,724	558	662	508	464	6	8
1918 1919	8. [48 8.31]	89 89	502 507	369 373	2,191 2,234	2,744 2,789	565 577	678 700	522 541	474 488	6	8
1920	8,556	89	516	381	2,299	2,863	394	729	565	507	5 5	ì
1920 1921	8,788	89	524	388	2,361	2,934	610	757	588	525	4	8
1922	8,919	89	522	389	2,409	2,980	616	769	592	541	4	8
1923 1924	9, 01 0 9,143	87 86	518 516	389 391	2,446 2,495	3,013 3,059	619 625	778 791	593 597	555 571	4	100777788888888888888888888888888888888
1925	9,143	86	516 515	393	2,490 2,549	3,059	632	806	602	588	4	ŝ
1926	9,451	87	515	396	2,603	3,164	639	821	608	606	4) š
1927	9,636	87	515	398	2,657	3,219	651	841	633	623	4	8
1928 1929	9.835	88	515	401	2,715	3.278	664 677	862	658 684	641 659	4	8
1930	10.202	88 88	515 5 14	404 406	2,772 2.825	3,334 3,386	689	883 903	708	676	4	ة ا
1931	10,376	88	513	408	2,874	3,432	700	922	732	694	4	ğ
1932	10,506		513	409	2,904	3,459	705	971	740	704	4	1 6

CHAPTER V.—VITAL STATISTICS.3

The collection of vital statistics commenced in Canada, as in England, with the registration of baptisms, marriages and burials by the ecclesiastical authorities. These registers, maintained by the priests from the first settlement of the country, have made it possible for the vital statistics of the French colony to be compiled from the year 1610.² In the beginning only one copy of such records was made, but in 1678 the Sovereign Council of Quebec ordered that in future such records should be made in duplicate, and that one copy, duly authenticated, should be delivered to the civil authorities. This arrangement was continued after the cession of the country to the British, and was extended to the newly-formed Protestant congregations of Lower Canada by an Act of 1795, but the registration among these latter remained seriously defective, both in Lower Canada and in the new province of Upper Canada.

In English-speaking Canada vital statistics were from the commencement incomplete, the pioneer settlers often going out into the wilds far from the authority of government and the ministrations of religion. Although from 1847 a law existed in Upper Canada requiring ministers of religion to deposit duplicates of their registers of baptisms, marriages and deaths with the clerks of the peace for transmission to the Provincial Secretary, this law remained practically a dead letter. Again, the efforts made to secure records of births and deaths at the censuses of 1851 and 1861 produced most unsatisfactory and even ridiculous results, as was pointed out by Dr. J. C. Taché, Secretary of the Board of Registration and Statistics, in a memorial published in the report of the Canadian Minister of Agriculture for 1865. Nevertheless, in spite of the inherent unsoundness of securing, at a point of time in a decennial census, a record of births and deaths occurring over a considerable period of time, this method was followed down to 1911, when the obviously untrustworthy character of the results led to the discarding of the data obtained at the inquiry.

The Dominion Government instituted in the early '80's a plan for compiling the annual mortuary statistics of cities of 25,000 population and over, by subsidizing local boards of health to supply the information under special regulations. A beginning was made with the five cities of Montreal, Toronto, Hamilton, Halifax and Saint John. By 1891 the list had grown to 25, at a time when, in most of the provinces, the only birth and death statistics were those of the municipalities. Upon the organization of provincial bureaus of vital statistics, however, this work was abandoned, though a conference of Dominion and provincial officials, held in 1893, passed a resolution calling upon the provincial and Dominion authorities to cooperate in the work of collecting, compiling and publishing the vital statistics of the Dominion. This resolution had no immediate practical results in securing accurate or comparable vital statistics.

Following Confederation each of the provinces of the Dominion had enacted its own legislation on vital statistics, where such existed, and administered this legislation according to its own individual methods. While the vital statistics of Ontario were published in considerable detail annually from 1871, the arrangements for the

Frogustion:

For a summary of the vital statistics of the Roman Catholic population from 1610 to 1883, see the
Statistical Year Book of Quebec, 1921, English or French edition, p. 51. For details, by years, of this movement of population, see Vol. V of the Census of Canada, 1871, pp. 160-265, and Vol. IV of the Census of Canada,

1881, pp. 134-145.

This chapter has been revised by E. S. Macphail, Chief, Demography Branch, Dominion Bureau of Statistics. A list of the publications of this Branch will be found in Chapter XXIX, Section 1, under "Population".

Programmary of the vital statistics of the Roman Catholic named in the light of the statistics of the Roman Catholic named in the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the li

collection of data were unsatisfactory. Only in 1906 was the publication of vital statistics begun in Prince Edward Island (no report for 1912 was ever issued). In Nova Scotia no vital statistics were published between 1876 and 1908 and in New Brunswick no vital statistics were available until 1920. Because of the lacuna, and even more because of the incomparability of information collected, of methods of collection and of standard of enforcement, Canadian vital statistics remained extremely unsatisfactory and impossible of compilation on a national basis, as was pointed out by the 1912 Commission on Official Statistics, which recommended that "for the Dominion, now engaged in building up its national unity, it is important that uniform data should render possible to statisticians the institution of true interprovincial and international comparisons. By effective co-operation of the provinces with the Dominion, this object should be capable of attainment without sacrificing the liberty of each province to satisfy its own special statistical requirements"

The scheme of co-operation thus outlined was brought into effect as a consequence of the establishment of the Dominion Bureau of Statistics under the Statistics Act of 1918, which specifically provided that the Bureau should publish an annual report on vital statistics. A scheme was first drawn up in the Bureau and submitted to the various provinces; then Dominion-Provincial conferences on vital statistics were held in June and December, 1918, when comprehensive and final discussions took place.

At the conferences of 1918, it was agreed: (1) that the model Vital Statistics Act prepared by the Dominion Bureau of Statistics, when accepted by the Legislatures, should form the basis of the vital statistics legislation of the several provinces, thus securing uniformity and comparability; (2) that the provinces should undertake to obtain the returns of births, marriages and deaths on the prescribed forms as approved and adopted at the conference, the Dominion Bureau of Statistics to supply the forms free of charge; (3) that the provinces should forward to the Dominion Bureau of Statistics, at such times as might be agreed upon, either the original returns of births, marriages and deaths, or certified transcriptions of the same; the Bureau of Statistics to undertake the mechanical compilation and tabulation.

Under the scheme outlined above, the vital statistics for all the provinces except Quebec were secured and compiled on a uniform basis for the years 1921 to 1925. The annual reports for these years may be obtained on application to the Dominion Statistician.

Quebec has been included in the registration area as from Jan. 1, 1926, from which date her statistics are on a comparable basis with those of the other provinces. The final reports for 1926 to 1930, including the statistics of all the nine provinces, have appeared and may be procured from the Dominion Statistician.

The vital statistics of Yukon and the Northwest Territories have been collected and compiled since 1924. They are not, however, presented with those of the nine provinces in the tables of this chapter because the figures are not regarded as complete, the details are in many cases not available, and the small and varying population is not known with sufficient accuracy for each year to enable the rates to be calculated. As these territories contain less than 1/700th of the population of Canada, their vital statistics are a negligible factor in the total. Births, marriages and deaths in Yukon and the Northwest Territories, for the years 1924-30, are summarized in the statement herewith:—

VITAL STATISTICS OF YUKON AND THE NORTHWEST TERRITORIES, 1924-30.

**		Yukon.		The Northwest Territories.					
Year.	Births.	Marriages.	Deaths.	Births.	Marriages.	Deaths.			
1924	No. 31	No. 5	No. 38	No. 95	No. 39	No. 47			
1925	22	17	63	57	35	32			
1926	27	12	68	75	3	51			
1927	29	19	33	126	20	133			
1928	30	13	46	222	30	367			
1929	35	10	54	133	29	168			
1930	45	17	69	232	36	206			

Two important considerations should be borne in mind by the students who use either the tables which follow or the detailed reports issued by the Bureau of Statistics for comparative purposes. First, in spite of the improvements of the past decade, registration generally, and the registration of births in particular, is not universally carried out. The great extent of the country and the isolation of many of its inhabitants partly account for this unsatisfactory situation. Secondly, the very considerable differences in the age and sex distribution of the population in different provinces make comparisons of crude birth rates and crude death rates as among the provinces unfair and misleading.

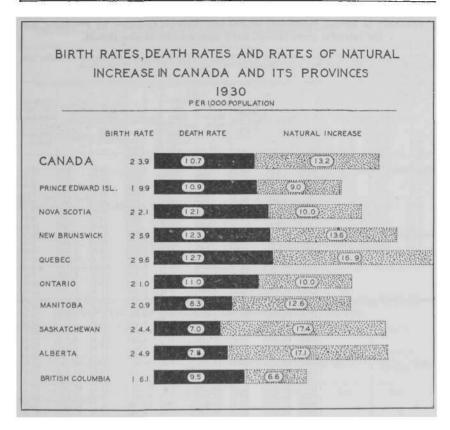
All rates in this chapter have been recalculated on the basis of the revised estimates of population given on p. 145.

The natural increase of the population of Canada is first dealt with, followed by detailed tables of births, marriages and deaths in the order named.

Section 1.—Natural Increase.

Summary statistics of the births, marriages, deaths and natural increase per 1,000 of population are given for the years 1921 to 1931, by provinces, in Table 1.

The province of Quebec is regarded as having one of the highest rates of natural increase per 1,000 population of any civilized area, but for each year since 1926 with the single exception of the latest year 1931, Saskatchewan has outranked Quebec in this respect, owing to its younger population and lower crude death rate. In 1930, for similar reasons, Alberta also surpassed Quebec in rate of natural increase. The high rates for these provinces brought the averages for Canada up to 13·3 in 1926, 13·4 in 1927, 13·0 in 1928, 12·2 in 1929, 13·2 in 1930 and 13·1 in 1931. The rate of natural increase in 1931 was 9·5 per 1,000 in Australia, 10·1 in New Zealand, 3·5 in England and Wales, 5·7 in Scotland and 4·8 in the Irish Free State, so that Canada compares quite favourably with other British countries.



The rates of natural increase per 1,000 of mean population for other countries in the latest years are as follows, the figures being for 1930: Denmark, 7.9; Japan, 14.2; Netherlands, 13.9; Norway, 6.5; Finland, 7.4; Italy, 12.6; Switzerland, 5.6; Sweden, 3.7; Spain, 11.6; France, 2.4; Belgium, 5.6; United States (registration area), 7.6; Union of South Africa (whites), 16.9.

It will be noticed that the rate of natural increase of the population of Canada showed a tendency to decline between the years 1927 and 1929, while the 1926 rate of 13·3 was a very sharp drop from that of 17·8 recorded for the census year 1921. The rate for 1930 however showed a decided betterment over 1929 and the improvement was practically maintained in 1931.

Statistics of the births, marriages, deaths and natural increase in cities and towns of 10,000 and over are given for the calendar year 1930 in Table 2, but these are not worked out as rates per 1,000 of population, though the census population in 1931, which is also given, furnishes some guide to the rate of natural increase. Particularly notable in this table is the larger proportionate number of births in such cities as Montreal and Quebec, as compared with Toronto, Hamilton, Ottawa, Winnipeg and Vancouver. This higher birth rate is in part counterbalanced by a considerably higher death rate, but the natural increase in Quebec cities is still considerably higher than in the cities of other provinces.

1.—Summary of Births, Marriages, Deaths and Natural Increase, by Provinces, for the calendar years 1926-31, with Averages 1921-25 and 1926-30.

Norz.—For other than census years birth, marriage and death rates are calculated on estimated populations (see p. 145). Figures for 1921-25 will be found at p. 160 of the 1927-28 Year Book.

						-		
Province.	Births	Birth Rate per 1,000 Popu- lation.	Marri- ages.	Marri- age Rate per 1,000 Popu- lation.	Deaths.	Death Rate perl ,000 Popu- lation.	Excess of Birtha over Deaths.	Rate of Natural Increase iper 1,000 Popu- lation.
D: 703 177 3 4 4001 05	No.	22.6	No.	5.4	No.	12.5	No. 881	70.
Prince Edward Island. Av. 1921-25 Av. 1926-30	1,966 1,734 1,752	13.4	473 473	5.4	1,085 969	11.0	765	10·1 8·7
1926 1927	1,752 1,697	20·1 19·5	459 482	5.3 5.5	898 913	10·3 10·5	854 784	9.8
1928	1.806	20.5	466	5.3	952	10.8	854	9.7
1929 1930	1,670 1,749 1,879	19·0 19·9	469 488	5.3 5.5	1,122 961	12·8 10·9	548 788	9.6
1931	1,879	21.4	490	5-6	912	10.4	967	11.0
Nova Scotia Av. 1921-25 Av. 1926-30	12,119 11,016	23·4 21·4	3,186 3,224	6·1 6·3	6,519 6,362	12·6 12·4	5,600 4,654	9.0
1926 1927	10,980	21·8 21·6	2,861 3,042	5-6	6,366	12·4 12·4	4.614 4.756	8.9 9.5
1928	10.931	21.2	3,256	5.9 6.3 6.8	6,202	12.0	4,729	9.2
1929 1930	10,688 11,346	20·8 22·1	3,510 3,451	6.8 6.7	6,660 6,206	12-9 12-1	4,028 5,140	
1981	11,615	22.6	3.394	6-6	l 5.968	11.6	5,647	11.0
New Brunswick Av. 1921-25 Av. 1926-30	11,080 10,327	28·4 25·8	2,953 2,970	7·6	5,098 5,019	13·1 12·5	5,987 5,308	15.3 13.3
1926	10.340	26-1	2.938	7.4	5.002	12-6	5,338	13.3
1927 1928	10,479 10,047	25.1	2,887 3,146	7.8	4.972	12·3 12·4	5,577 5,078	14·6 12·1
1929 1930	10,235	25·3 25·9	3,118	7.7	5,230 4,991	12·9 12·3	8,005 8,543	12.4
1931	10,801	26.5	2.544	6-2	4,644	11.4	6,157	15
Quebec [†] Av. 1926-36 1926	82,771 82,165	30·5 31·6	18,731 17,827	€-8	36,645 37,251	13-5 14-3	46,126	17·0
1927	83,064	31-3	18,551	7.0	36,175	13.6	44,914 46,889 46,989	17.
1928 1929		30·8 29·4		7·0 7·1	37,221	13·5 13·4	44,159	16-0
1930 1931	83,625	29.6	18,543	6.6 5.8	35,945	12·7 12·0	47,680 49,119	16·1
Ontario Av. 1921-25	71,454	1 23.7	24,037	1 8⋅0	34,252	11.3	37,202	12.
Av. 1926-30 1926	68,703	21·0 21·4	25,449 28,632	7·8 7·5	36,650 35,909	11·2 11·3	32,053 31,708	9·1 10·
1927	67,671	21.0	24,677	7.7	34,775	10.8	32,896	10-:
1928 1929	68,510	ll 20-9		7·8	37,128 38,123	11·8 11·4	31,382 30,335	
1930	71,263	21-0	25,605	7.6	37,313	11-0	33,950	10⋅€
1931 ManitobaAv. 1921-25		20·2 26·8	23,771 4,634	6.9	35,705 5,348	18.6	11,242	18-1
Ay, 1926-30	14.391	21.7	4,951	7.5	5,507 5,335	8-3	8,884 9,326	13 · · · · · · · · · · · · · · · · · · ·
1926 1927	14,147	21.7	4,716	7.2	5,309	8.2	8,838	13 -
1928 1929		21.8	5,170	7·8 7·8	5,396 5,808	I ୫.୫	9,108 8,428	13 · 12 · ·
1930	14,411	20.9	5,061	7.3	5,685	8.3	8,726	12.
1931 SaskatchewanAv. 1921-28		20·5 27·7	4,888 4,982			7.5	1 15.721	20∗
Av. 1926-36	21,298	4 24 · 7	6.036	7.0	6,250	7.3	15,042 14,656	17·-
1926 1927	20,716 21,015	25·2 25·0	5,483 5,733	6.9	I 6.031	7.2	14,984	17-
1929 1929		24.7	6,701	7.8	6,166 6,715	7·2 7·6	15,098 14,731	17·1
1930	22,051	24.4	5.717	1 6-3	l 6.309	1 7.0	15,742	17
AlbertaAv. 1921-25	1 21,331 5 15,461	23 · 1 26 · 0	5.700 4,313	6-2 7-3	4.953	8.3	15,265 10,508	17-
A v. 1926-30	վ 15.924	24 - 2	5,266	8-0	5,530	8.4	10,394	15-
1926 1927	14,897	23.5	4,707	7.4	5,050	8.0	9,838	15.
1929 1929	15,692	23-8	5,776 6,004	9.9	5 6QQ	1 8.7	9,993 10,685	15. 15.
1936	17.649) 24-9	5,334	1 7.5	1 5.490	7-8	12,153	17·
1931	17,252		5,142	7.0	5,302	7-2	11,950	16.

Quebec was not included in the registration area prior to 1926.

1.—Summary of Births, Marriages, Deaths and Natural Increase, by Provinces, for the calendar years 1926-31, with Averages 1921-25 and 1926-30—concluded.

Province.	Births.	Birth rate per 1,000 Popu- lation.	Marri- ages.	Marri- age rate per 1,000 Popu- lation.		Death rate per 1,000 Popu- lation.		Rate of Natural Increase per 1,000 Popu- lation.
British Columbia Av. 1921-25 Av. 1926-30 1926 1927 1928 1929 1930 1930 1931 Canada (Exclusive of	10,356 10,063 10,084 10,385 10,378	18.4 16.2 16.6 16.2 16.2 15.7 16.1	4,786 4,418 4,720 4,942 5,155 4,697	7·3 7·6 7·7	No. 4,812 5,986 5,474 5,750 5,910 6,397 6,400 6,114	9-3 9-0 9-2 9-7	No. 5,444 4,370 4,589 4,334 4,475 3,981 4,467 4,290	6.9 7.6 7.0 7.0 6.0 6.6
the Territories)Av. 1926-39 1926 1927 1929 1929 1939 1930 1931	236,520 232,750 234,188 236,757 235,415 243,495 240,473	24-1 24-7 24-3 24-1 23-5 23-9 23-2	71,885 66,658 69,515 74,311 77,288 71,657 65,591	7.2		11-4	134,189	13·3 13·4

Summary of Births, Marriages, Deaths and Excess of Births over Deaths, in Cities and Towns of 10,000 Population and Over, calendar year 1930.

Province and City or Town.	Census Population, 1931.	Births.	Marriages.	Deaths.	Excess of Births over Deaths.
	No.	No.	No.	No.	No.
Prince Edward Island		,		-,••	,
Charlottetown	12,361	336	162	283	58
Nova Scotia-]				
Glace Bay	20,706	745	135	308	437
Halifax	59,275	1,555	711	863	692
Sydney	23,089	615	176	224	391
New Brunswick—			!		
Moneton	20,689	525	195	273	252
Saint John	47,514	1,224	397	685	539
Queber-					
Chicoutimi	11.877	498	91	174	324
Granby	10,587	338	93	109	229
Hull	29,433	1,019	248	331	688
Joliette	10,765	3 32	74	181	151
Lachine	18, 6 30	417	128	196	221
Lévis	11,724	309	44	218	91
Montreal	818,577	21,044	6,551	10,979	10,065
Outremont	28,641	128	178	135	12
Quebec	130,594	4,454	892	2,481	1,973
St. Hyacinthe	13,448	376	120	325	51 210
St. Jean	11,256	326	83	116 191	210 462
Shawinigan Falls Sherbrooke	15,845	653 832	79 223	197 442	102 390
Sorel	28,933 10,320	303	70	181	122
Thetford Mines	10,700	581	1 44 1	166	365
Three Rivers	35.460	1.350	212	542	808
Valleyfield	11.411	340	98	168	172
Verdun	60.745	1.129	387	424	705
Westmount	24,235	365	287	261	104
Ontario-	[
Belleville	13,790	395	148	242	153
Brantford	30,107	732	279	395	337
Chatham	14,569	565	154	320	245

Summary of Births, Marriages, Deaths and Natural Increase, in Cities and Towns
of 10,000 Population and Over, calendar year 1938—concluded.

Province and City or Town.	Census Population, 1931.	Births.	Marriages.	Deaths.	Freess of Births over Deaths.
	No.	No.	No.	No.	No.
Ontario—concluded.	11.126	482	153	005	
Cornwall East Windsor	14,251	372	93	225 58	257 314
Fort William	26.277	623	232	208	1 415
Galt	14,006	311	102	189	122
Guelph	21,075	409	182	233	176
Hamilton	155.547	3,394	1,466	1.506	888,1
Kingston	23,439 30,793	659 829	231 326	512 348	147
KitchenerLondon	71,148	1.485	626	1,080	481 405
Niagara Falls	19,046	488	228	209	229
North Bay	15,528	417	125	180	237
Oshawa	23,439	686	205	234	452
Ottawa	126,872	3,028	1,000	1,747	1,281
Owen Sound	[12,839]	313	137	157 304	156
Peterborough	22,327 19,818	639 564	204 206	241	335 323
St. Catharines	24,753	671	279	322	349
St. Thomas	15,430	322	145	228	94
Sandwich	10,715	196	67	76	120
Sarnia	18, 191	450	131	238	2t2
Sault Ste. Marie	23,082	642	225	230	412
Stratford	17,742 18,518	406 720	127 t	208 296	198 424
SudburyTimmins	14,200	506	152	126	380
Toronto	631,207	13,591	7.111	7,057	6,534
Walkerville	10,105	661	133	203	458
Welland	10,709	298	189	165	133
Windsor	63,108	1,510	840	612	898
Woodstock	11,395	272	10	162	110
Manitoba—	17,082	374	221	243	131
BrandonSt. Boniface	16,305	980	147	502	478
Winnipeg.	218,785	4,629	2,667	1,807	2,822
Saskatchewan—				245	
Moose Jaw	21,299	596	280	218 507	378
Regina	53,209 43,291	1,684 1,235	754 736	499	1,157 780
Saskatoon	43, 491	1,200	100	200	199
Alberts—	83,761	2.064	1.169	781	1.283
Calgary	79,197	2,004	1,109	876	1.51
Lethbridge	13,489	581	262	199	38
Medicine Hat		462	156	148	314
British Columbia—					
New Westminster	17,524	555	193	282	273
Vancouver	246,593	4,003 734	2,250 360	2,281 607	1,725
Victoria	39,082	104	300	307	I ""

Natural Increase by Sex.—According to Table 3, the number of male children born in 1930 in Canada exceeded the total male deaths for the year by 65,743, while the gain in the female population during the same period was 68,446. Thus, while the number of male children born exceeded the females by 6,209, the higher mortality among males, viz., 59,109 as compared with 50,197, resulted in a net excess of the natural increase of the females amounting to 2,703. Figures for 1931 are as follows: males, births 123,622, deaths 56,529, natural increase 67,093; females, births 116,851, deaths 47,988, natural increase 68,863.

3Births, Deaths and Excess of Births over	Deaths in Canada, by Provinces and for
each Sex, 1930, with '	Fotals for 1921-30.

		Males.			Females		Both Sexes.
Province.	Births.	Deaths.	Excess of Births over Deaths.	Births.	Deaths.	Excess of Births over Deaths.	Excess of Births over Deaths.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	No. 912 5,902 5,385 42,992 86,382 7,353 11,407 8,944 5,565	No. 511 3,279 2,617 18,824 19,827 3,191 3,670 3,171 4,019	No. 401 2, 623 2, 768 24, 168 16, 565 4, 162 7, 737 5, 773 1, 546	No. 837 5,444 5,149 40,633 34,871 7,058 10,644 8,705 5,302	No. 450 2,927 2,374 17,121 17,486 2,494 2,639 2,325 2,381	No. 387 2,517 2,775 23,512 17,385 4,564 8,005 6,380 2,921	No. 788 5,140 5,543 47,680 33,950 8,726 15,742 12,153 4,467
Totals, 1939. Totals, 1939. Totals, 1928. Totals, 1927. Totals, 1924. Totals, 1925. Totals, 1931. Totals, 1931. Totals, 1931. Totals, 1931. Totals, 1931.	124,852 123,595 123,655 123,655 113,863 124,686 125,590 124,003 123,655 133,839	59,109 60,920 58,490 56,265 56,979 52,450 52,227 55,490 54,505 53,685	65,743 59,971 63,025 64,390 62,884 72,236 73,363 68,513 74,550 80,154	118, 643 114,524 115,252 113,533 112,887 117,702 118,935 116,473 123,516 123,889	59,197 52,595 59,577 49,927 59,475 46,327 46,326 49,840 47,982 47,470	69, 446 61, 929 64, 675 64, 506 62, 412 71, 375 72, 669 64, 633 75, 534 76, 419	134,189 121,900 127,700 129,896 125,296 143,611 145,912 135,146 150,084

Section 2.—Births.

Throughout almost the whole of the civilized world the birth rate has in the past generation been on the decline, though the consequent reduction in the rate of natural increase has been partly offset by the synchronous decline in the death rate.

The crude birth rate of England and Wales, for example, was 35.4 per 1,000 population on the average of the decennium 1871-80, 32.5 in 1881-90 and 29.9 in 1891-1900. In 1913 the birth rate was 24.1, and, though it rose to 25.5 in 1920, it fell again to 22.4 in 1921, 19.7 in 1923, 18.8 in 1924, 18.3 in 1925, 17.8 in 1926, 16.6 in 1927, 16.7 in 1928, 16.3 in 1929 and 1930, and 15.8 in 1931.

Similarly, in France the crude birth rate declined from an average of 25.4 per 1,000 population in the 1870's, 23.9 in the 1880's and 22.2 in the 1890's to 21.4 in 1920 and 19.1 in 1923, rising slightly to 19.0 in 1925 and falling to 18.8 in 1926, 18.1 in 1930 and 17.4 in 1931. In Germany, again, the crude birth rate was 39.1 in the 1870's, 36.8 in the 1880's, 36.1 in the 1890's, 25.9 in 1920, 20.7 in 1925, 17.5 in 1930 and 16.0 in 1931.

In Canada the crude birth rate still stands at a comparatively high figure, being $23 \cdot 2$ per 1,000 in 1931. This, however, was largely due to the influence of Quebec, where the birth rate stood at the high figure of $29 \cdot 1$ per 1,000 in 1931, as compared with $20 \cdot 2$ per 1,000 in Ontario. In the other provinces the figures varied from $15 \cdot 0$ and $20 \cdot 5$ per 1,000 in British Columbia and Manitoba to $23 \cdot 6$ and $26 \cdot 5$ in Alberta and New Brunswick respectively.

Statistics of births and birth rates for the years 1926-31 with averages for 1921-25 and 1926-30 are given by provinces in Table 4. The averages for the former period are exclusive of the province of Quebec which was not then in the registration area.

4.—Numbers of Living Births and Birth Rates, by Provinces, 1926-31, with Averages, 1921-25 and 1926-30.

A.-NUMBERS OF LIVING BIRTHS.

Year.	P.E.I	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada.
Average 1921–25 Average 1926-30	1,956 1,734		11,080 10,327	1 82,771	71,454 68,703		21,580 21,298			
926 927 928	1,752 1,697 1,806	11,134 10,931	10,479 10,047	83,621	67,671 68,510	14,147 14,504	21,261	14,897 15,692	10,084 10,385	232,750 234,188 236,757
929 930 931	1,670 1,749 1,879		10,534	81,380 83,625 83,606		14,4(1	21,446 22,051 21,331	17,649	10,378 10,867 10,404	235,415 243,495 240,473

B.-BIRTH RATES PER 1,000 POPULATION.

Average 1921-25	22·6	23·4	28 · 4	ı	23·7	26·8	27·7	25·0	18-4	1
Average 1925-30	19·7	21·4	25 · 8	30∙5	21·0	21·7	24·7	24·2	16-2	24·1
1926. 1927. 1928. 1929. 1930.	20 · 1 19 · 5 20 · 5 19 · 0 19 · 9 21 · 4	21 · 3 21 · 6 21 · 2 20 · 8 22 · 1 22 · 6	26.1 26.3 25.1 25.3 25.9 28.5	31.6 31.3 30.8 29.4 29.6 29.1	21 · 4 21 · 0 20 · 9 20 · 5 21 · 0 20 · 2	22-9 21-7 21-8 21-0 20-9 20-5	25 · 2 25 · 0 24 · 7 24 · 3 24 · 4 23 · 1	23 · 8 23 · 5 23 · 8 24 · 7 24 · 9 23 · 6	16.6 16.2 16.2 15.7 16.1 15.0	24 · 7 24 · 8 24 · 1 23 · 5 23 · 9 23 · 2

¹ Quebec was not included in the registration area prior to 1926.

Table 5 gives the number of living births in cities and towns of 10,000 population and over for the years 1927 to 1931 inclusive. The number of births reported shows in most cases an increase in recent years up to 1930 but the decreases in 1931 outnumbered the increases.

5.—Living Births in Cities and Towns of 10,000 Population and Over, 1927-31.1

City or Town.	1927.	1928.	1929.	1930.	1931.
	No.	No.	No.	No.	No.
Belleville, Ont	371	371	366	395	424
Brandon, Man	376	419	406	374	369
Brantford, Ont	647	711	712	732	686
Calgary, Alta	I,641	1,752	2,006	2,064	1,885
Charlottetown, P.E.I	271	273	266	336	371
Chatham, Ont	453	494	475	565	456
Chicoutimi, Que	609	593	555	498	490
Cornwall, Ont		488	492	482	460
East Windsor, Ont	365	347	403	372	302
Edmonton, Alta		2,149	2,271	2,391	2,400
Fort William, Ont		664	645	628	657
Galt. Ont	265	266	284	311	321
Glace Bay, N.S		681	667	745	693
Granby, Que		303	334	338	388
Guelph, Ont		362	380	409	363
Halifax, N.S		1,425	1,454	1,555	1,651
Hamilton, Ont.		3.007	3.166	3,394	3,320
Hall, Que		999	906	1.019	985
Joliette, Que		371	317	332	343
Kingston, Ont.		576	619	659	645
Kitchener, Ont		751	812	829	851
Lachine, Que.		464	464	417	491
Lethbridge, Alta		416	487	581	572
Lévis, Que		313	iói	309	285

Living births in cities of 40,000 population and over, except Montreal and Quebec, are given for 1921-23 on p. 137 in the Canada Year Book of 1930.

5.—Living Births in Cities and Towns of 10,000 Population and Over, 1927-311—concluded.

City or Town.	1927.	1928.	1929.	1930.	1931.
	No.	No.	No.	No.	No.
ondon, Ont	1,286	1,438	1.864	1.485	1.4
ledicine Hat, Alta	328	377	451	462	46
Ioneton, N.B	499	482	163	525	5!
Iontreal, Que	19,458	20,252	20,622	21,044	20, 5
loose Jaw, Sask	626	617	629	596	5.
lew Westminster, B.C	491	535	537	555	51
liagara Falls, Ont	492	445	501	438	41
forth Bay, Ont	406	435	406	417	4(
shawa, Ont	595	703	727	686	- 64
ttawa, Ont	3,003	3,003	2,924	8,028	3,0
utremont, Que	135	109	127	123	. !
wen Sound, Ont	297	368	376	313	3
eterborough, Ont	545	558	617	639	6
ort Arthur, Ont	510	558	582	564	. 5
mebec, Que	4,349	4,473	4,456	4,454	4,4
egina, Sask	1,203	1,363	1,517	1,664	1,5
t, Boniface, Man	752	829	893	980	1,0
t. Catharines, Ont	577	570	570	671	6
t. Hyacinthe, Que	317	315	362	376	3
t. Jean, Que	322	337	306	326	3
aint John, N.B	t, 166	1,083	1,150	1,224	1,2
t. Thomas, Ont	329	341	306	822	3
andwich, Ont	255 435	218	208	196	1
arnia, Ont		426	470	450	1.1
askatoon, Sask	962 578	1,045	1,137 665	1,235 642	1,1
ault Ste. Marie, Ont	670	627 703	642	658	í
hawinigan Falls, Queberbrooke, Que	809	753	818	832	- 3
orel. Que	304	293	293	303	ś
tratford, Ont	372	401	377	406	3
udbury. Ont.	378	453	565	720	ž
ydney, N.S.	501	484	502	615	6
hetford Mines, Que	443	492	510	531	4
hree Rivers, Que	1.327	1.444	1,289	1.350	1.3
immins, Ont	471	432	533	1,506	1,5
oronto, Ont	11.448	12,342	12,485	13.591	12.7
alley field, Que	322	322	294	340	3
ancouver, B.C.2	3,651	3,812	3.869	4,003	3.7
erdun. Que	1,007	1.058	ĭ.095	1, 129	1.1
ictoria, B.C	664	7,723	754	784	- 6
alkerville, Ont	125	425	624	661	ő
elland, Ont	283	279	318	298	š
estmount, Que	38	42	Šť	366	š
iudsor. Ont	2.088	1.681	1.654	1.510	1.2
innipeg, Man	4.506	4.552	4.452	4.629	4.4
oodstock, Ont	245	225	274	7272	2

¹Living births in cities of 40,000 population and over, except Montreal and Quebec, are given for 1921-28 ap. 137 in the Canada Year Book of 1930.

Though Point Grey and South Vancouver were not incorporated into Vancouver until Jan. 1, 1929,

Though Point Grey and South Vancouver were not incorporated into Vancouver until Jan. 1, 1929, their statistics are included in the figures for Vancouver for the years 1927 and 1928 for purposes of comparison.

Legitimate Births.—In Table 6 will be found for each of the provinces the percentages of legitimate children born alive to Canadian-born, British-born and foreign-born mothers respectively in 1930. It is noteworthy that children born to foreign-born mothers outnumbered children born to Canadian-born mothers in the province of Alberta. For the Dominion as a whole, $72 \cdot 7$ p.c. of the children of mothers whose birthplaces were known had Canadian-born mothers, $12 \cdot 0$ p.c. British-born mothers and $15 \cdot 2$ p.c. foreign-born mothers.

It is also significant that the percentage of legitimate children born alive to Canadian-born mothers increased between 1921 and 1930 from 42·3 p.c. to 55·3 p.c. in Manitoba, from 36·1 p.c. to 47·2 p.c. in Saskatchewan, from 30·0 p.c. to 39·4 p.c. in Alberta, and from 29·7 p.c. to 43·2 p.c. in British Columbia. Thus more and more of the children of the West are coming within the class of third generation Canadians.

Percentages of Legitimate Children Born Alive to Canadian-Born, British-Born or Foreign-Born Mothers, by Provinces, 1930.

Province.	Canadian- born.	British- born.	Foreign- born.
Prince Edward Island	p.c. 95 1	p.c. 1·9	p.c.
Nova Scotia	85.8	rô-ĭ	4.1
New Brunswick	92.4	3.1	4.5
Quebec	93 - 1	2.8	4.2
Intario	67-4	20 4	12 2
ianitoba		15.4	29.3
Saskatchewan	47-2	13.2	40-5
Alberta	39.4	16.5	44.0
British Columbia	43.2	29 · 4	27.4
Canada (Exclusive of the Territories)	72-7	12.0	15.2

Sex of Living Births.—Table 7 shows the number and proportion of living male and female births reported for each province in Canada during the calendar years 1926 to 1931, with averages for the five-year periods 1921-25 and 1926-30. The figures for Quebec commence only with the year 1926 when that province entered the registration area, and the totals for Canada are limited in the same manner in consequence. Of the figures listed, the only case of an excess of female births is in British Columbia in 1928. The table shows that among every 1,000 born in 1931 in the whole of Canada, 514 were males and 486 females. In other words, there were 1,058 males born to every 1,000 females.

Births (Exclusive of Stillbirths) by Ser, and Ratio of Males to Females, for Canada and by Provinces, 1926-31, with Averages for 1921-25 and 1926-39.

Note.—For corresponding figures for 1921-25, see p. 165, Canada Year Book for 1927-28.

		Ма	les.	Fen	nales.	Males
Province.	Total.	Number.	Per cent of Total.	Number.	Per cent of Total.	to 1,000 Females.
Prince Edward Island	1,966 1,734 1,752 1,697 1,806 1,670	993 898 887 890 947 856	50·5 51·8 50·6 52·4 52·4 51·8	973 836 865 807 859 814	49·5 48·2 49·4 47·6 47·6 48·7	1,021 1,074 1,025 1,103 1,102 1,052
1930 1931 Nova Scotia	1,749 1,879 12,119 11,016 10,980 11,134	912 998 6,275 5,653 5,638 5,704	52·1 53·1 51·8 51·3 51·3 51·2	837 881 5,844 5,363 5,342 5,430	47 9 46 9 48 2 48 7 48 7 48 8	1,090 1,133 1,074 1,054 1,055 1,050
1928 1929 1930 1931 New BrunswickAv. 1921-230 Av. 1926-30 1926	10, 931 10, 688 11, 346 11, 615 11, 080 10, 327 10, 340	5,533 5,487 5,902 5,931 5,708 5,292 5,294	50 · 6 51 · 3 52 · 0 51 · 1 51 · 5 51 · 2 51 · 2	5,398 5,201 5,444 5,684 5,372 5,035 5,046	49.4 48.7 48.9 48.5 48.8 48.8	1,025 1,055 1,084 1,043 1,063 1,051
1927 1928 1929 1930 1931 Quebec'	10,479 10,047 10,235 10,534 10,801 82,771	5,391 5,152 5,240 5,385 5,548 42,644	51·4 51·3 51·2 51·1 51·4 51·5	5,088 4,895 4,995 5,149 5,253 40,127 39,690	48.6 48.7 48.8 48.9 48.6 48.5	1,060 1,053 1,049 1,046 1,056 1,063
1926 1927 1928 1929 1930	82, 165 83, 064 88, 621 81, 380 83, 625 83, 606	42,475 42,813 43,049 41,893 42,992 43,051	51-5 51-5 51-8 51-4 51-5	40, 251 40, 572 39, 487 40, 633	48.5 48.5 48.5 48.6 48.6	1,064 1,061 1,061 1,058 1,062

¹ Quebec was not included in the registration area prior to 1926.

7.—Births (Exclusive of Stillbirths) by Sex, and Ratio of Males to Females, for Canada and by Provinces, 1926-31, with Averages for 1921-25 and 1926-38—concluded.

Nors.—For corresponding figures for 1921-25, see p. 165, Canada Year Book for 1927-28.

		M:	ales.	Fem	ales.	Males
Province.	Total.	Number.	Per cent of Total,	Number.	Per cent of Total.	to 1,000 Females.
Ontario	71,454	36,725	51-4	34,729	48.6	1,057
Av. 1926-31	68,703	35,268	51.3	33,435	48.7	1,055
1926	67,617	34,742	51.4	32,875	48-6	1,057
1927	67,671	84,755	51.4	32,916	48.6	1,056
1928 1929	68,510 68,458	35,299 35,154	51·5 51·4	33,21 33,304	48.5 48.6	1,063 $1,056$
1930	71.263	36.392	51.1	34.871	48.9	1,030
1931	69.209	35,609	51.5	33,600	48-5	1.060
Manitoba	16,590	8,443	50.9	8,147	49.1	1,086
Av. 1926-30	14.391	7,399	51-4	6,992	48-6	1,059
1926	14,661	7,598	51.8	7,063	48-2	1,076
1927	14,147 14,504	7,434	52.5	6,713	47.5 49.8	1,107
1928 1929	14,236	7,282 7,380	50·2 51·5	7,222 6,906	48.5	1.008 1.061
1920	14,411	7,353	51.0	7,058	49.0	1,042
1931	14,376	7.255	50.5	7,121	49.5	1.019
Saskatchewan	21,580	11,119	51.5	10,461	48-5	1,062
Av. 1926-30	21,298	10,979	51.5	10,319	48.5	1,064
1926	20,716	10,651	51.4	10,065	48.6	1,056
1927 1928	21,015 21,261	10,852 10,983	51·6 51·7	10,163 10,278	48-4 48-3	1,068 1,069
1928 1929	21,201	11,002	51.7	10,278	48.7	1.053
1930	22,051	11.407	51.7	10.644	48-8	1.072
1931	21,331	10,942	51.3	10,389	48.7	1,053
Alberta Av. 1921-25	15,461	7,887	51.0	7.574	49.0	1,041
Av. 1926-30	15,924	8, 153	51.2	7,771	48.8	1,049
1926	14,456	7,410	51.3	7,046	48-7	1,053
1927	14,897	7,682	51·6 51·6	7,215 7,601	48·4 48·4	1,064 1,064
1928 1929	15,692 16,924	8,091 8,637	51.0	8,287	49.0	1,00
1930	17,649	8.944	50.7	8.705	49.3	1,02
19311	17, 252	8,938	51.8	8.314	48.2	1,07
British Columbia, Av. 1921-25	10,256	5,310	51-8	4,946	48.2	1,07
Av. 1926-30	10,356	5,266	50.8	5,090	49.2	1,03
1926	10.063	5,168	51.4	4,895	48.6	1,050
1927 j 1928 j	10,084 10,385	5,134 5,169	50·9 49·8	4,950 5,216	49·1 50·2	1,03
1928	10,378	5, 292	51.0	5.086	49.0	1.04
1930	10,867	5,565	51.2	5,302	48.8	1,05
1931	10,404	5.350	51.4	5,054	48-6	1,05
Canada (Erclusive of the						l -
Territories)	236,520	121,552	51.4	114,968	48.6	1,05
1926	232,769	119,863	51.5	112,887	48·5 48·5	1,065 1,06
1927 1928	234,188 236,757	120,655 121,505	51·5 51·3	113,533 115,252	48.7	1.054
1525	235,415	129,891	51.4	114.524	48-6	1,05
1939	243, 495	124,852	51.3	118,643	48.7	1,05
1931	249.473	123.622	51.4	116,851	48.6	1.058

Ages of Parents.—Table 8 shows the age distribution of married fathers and mothers in the year 1926 (the first year for which the figures are available for the whole of Canada) and for 1928-30. The fathers and mothers in each of these years are arranged according to age and then divided into four equal groups. Each point of age at which a separation comes is called a quartile. To obtain these points of age it is assumed that those in the same year of age are evenly distributed from its lower to its upper limit. In similar manner the deciles divide fathers or mothers in each year into ten equal groups.

In 1930 one-quarter of the married fathers were under 27.84 years of age, one-half under 32.73 years and three-quarters under 38.76 years. One-quarter of the married mothers were under 24.03 years of age, one-half under 28.42 years and three-quarters under 33.89 years. Nine-tenths of the fathers were under 44.09

years and nine-tenths of the mothers under 38.48 years. It will be noted that the general tendency of the quartile and decile points over the five years is in a downward direction. In other words, parents are gradually becoming younger.

8.—Quartile and Decile Ages of Married Fathers and Mothers, 192	8, 1928-30,
-----------------------------------------------------------------	-------------

Position in Array, by Age.		Fat	hers.		Mothers.			
rosition in Array, by Age.	1926.	1928.	1929.	1930.	1926.	1928.	1929.	1930.
First quartile	28 · 35	28 · 15	27.98	27 · 84	24 · 43	24 · 25	24 · 10	24 · 03
	33 · 31	33 · 13	32.89	32 · 73	28 · 89	28 · 71	28 · 53	28 · 42
	39 · 01	38 · 98	38.83	38 · 76	34 · 26	34 · 16	33 · 81	33 · 89
First decile. " Second decile. " Third decile. " Fourth decile. " Fifth decile. " Sitth decile. " Seventh decile. " Eighth decile. " Ninth decile. "	24 · 91	24 - 72	24 · 60	24 · 54	21 · 41	21 · 30	21·21	21 · 20
	27 · 28	27 - 12	26 · 93	26 · 83	23 · 50	23 · 35	23·20	23 · 16
	29 · 35	29 - 04	28 · 93	28 · 80	25 · 34	25 · 12	24·20	24 · 88
	31 · 28	31 - 92	30 · 77	30 · 64	27 · 79	26 · 92	26·68	26 · 59
	33 · 31	33 - 13	32 · 89	32 · 73	28 · 89	28 · 71	28·53	28 · 42
	35 · 48	35 - 31	35 · 06	34 · 96	30 · 82	30 · 69	30·44	30 · 36
	37 · 81	37 - 78	37 · 52	37 · 41	33 · 41	32 · 94	32·71	32 · 64
	40 · 40	40 - 38	40 · 25	40 · 21	35 · 61	35 · 51	35·30	35 · 26
	44 · 19	44 - 21	44 · 11	44 · 09	38 · 69	38 · 65	38·54	38 · 48

Nativity of Parents.—Table 9 classifies the children born in 1930 by country of birth of parents, and furnishes some idea to what extent the coming generation of Capadian-born will be the offspring of Capadian-born, British-born or foreign-born parents. The term "country not specified", under country of birth, includes for the father illegitimate births and births of incomplete record, while for the mother it includes births of incomplete record only.

 Number and Percentage of Births (Exclusive of Stillbirths) in Canada to Fathers and Mothers Born in Specified Countries, 1930.

Country of Birth of Parents.	Father Parents	rs of Birth , Mother o Born in S Country	r Both	Percentages of Births with Father, Mother or Both Parents Born in Specified Country.		
	Father.	Mother.	Both Parents,	Father.	Mother.	Both Parents.
Canada England Ireland Scotland Wales Other British Isles Newfoundland Other British Possessions Austria Belgium Finland France Germany Hungary Italy Norway Poland Russial Sweden Other European countries China and Japan Other Asiatic countries United States Country not specified	No. 164, 750 17, 509 12, 976 6, 758 627 103 1, 077 537 3, 265 610 639 462 1, 022 1, 275 5, 858 2, 440 1, 027 5, 858 1, 097 7, 500 11, 504 8, 457	No. 176, 235 17, 073 2, 628 7, 302 582 71 1,070 418 2,580 998 1,209 1,766 721 5,227 4,339 994 4,349 216 11,873 1,638	No. 148,586 8,041 1,175 3,092 156 166 522 158 1,964 4337 528 161 486 1,049 1,673 454 4,304 3,776 356 2,837 944 185 8,830 2290	p. 67-7-28-8	p.e. 44 72.40 71.10.2 2.42.10.32 0.02.1.23 0.03.2 0.03.2 0.03.2 0.03.2 0.04.5 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0.04.2 0	P.C. 61.0 3.3 3.3 0.5 1.3 0.2 0.1 0.8 0.1 0.2 0.4 0.7 0.2 0.4 0.7 0.2 0.4 1.6 0.4 1.2 0.4
Totals	243,495	243,495	184,65%	100.0	100.0	75 · 84

¹ Includes the Ukraine. 2 Less than one-tenth of one per cent. 3 This figure gives the number of children whose fathers and mothers were born in the same country. The difference between this figure (184,568) and the total number of births (243,495) represents the number of children (58,837) whose fathers and mothers were born in different countries. 4 This excludes the percentage (24-2) of "mixed parent age", i.e., where the two parents were not born in the same country.

Origin of Parents.—Table 10 gives the number and percentage of births during 1930, distributed by the principal origins.

10.—Number and Percentage of Births (Exclusive of Stillbirths) in Canada to Fathers and Mothers of Specified Origins, 1930.

Origin of Parents.	Fathe	ers of Birth r, Mother o of Specified	T Both	Father	ages of Bir r, Mother o of Specified	r Both
Origin of Latence.	Father.	Mother.	Both Parents.	Father.	Mother.	Both Parents.
	No.	No.	No.	No.	No.	No.
English	52,470	55,583	36.877	21.5	22.8	15-1
Irish	21.956	21.087	9,563	9.0	8.7]
Scotch	23,211	23.476	10.561	9.8	l §.6	l 4.8
Welsh	889	838	182	0.4	lő∞š	l ô∙ĩ
French	90, 152	93.315	85.619	37.0	38.3	35.2
German.	11,157	12.022	8.199	4.6	4.9	3.4
Armenian	64	53	5.151	l í v	l 1.º	"
Austrian	1.152	1,255	9ŏî l	0.5	0.5	0-4
Belgian	672	640	394	0.3	Ď.š) ŏ.2
Bulgarian	53	26	22	ĭ	1	1 1
Chinese	286	240	237	0-1	0.1	0.1
Czech and Slovak	765	774	608	0.3	0.3	0.1
Danish	836	680	860	0.3	0.3	0-1 0-1
	2.419	2.297	1.255	1.0	0.9	0.1
Dutch	699	892	634	0.3	0.4	0.3
Finnish	293	181	173	0.3	0.4	5·U 1·Ú
Greek						0.8
Hebrew	2, 194	2,182	2,130	0.9	0.9	0.8
Hindu	43	43	41			_
Hungarian	1,253	1,325	1,144	0.5	0.5	0.5
Icelandic	384	388	236	0.2	0.2	0.1
Indian	2,678	3,156	2,538	1.1	1.3	1.0
Italian	2,748	2,381	2,175	1.1	1.0	0.9
Japanese	849	847	842	0.3	0-3	0.3
Negro	367	409	331	0.2	0.2	0.1
Norwegian	1,973	2,005	994	0.8	0.8	0-4
Polish	3,176	3,561	2,542	1.3	1.5	1.0
Roumanian	644	604	447	0.3	0.2	0.2
Russian	2,202	2,014	1,591	0.9	0.8	0.7
Serbo-Croatian	542	525	465	0.2	0.2 .	0.2
Swedish	1,580	1,502	644	0.6	0.6	0.3
Swiss	337	239	100	0.1	0.1	1
Syrian	262	212	187	0.1	0.1	0.1
Ukrainian ⁴	6,051	6,481	5,515	2.5	2.7	2.8
Other	289	264	172	0.1	0.1	0.1
Origin not specified	8,849	1,998	561	3.6	0.8	0.2
Totals	243, 495	243,495	178,291 2	100.0	100.0	78.71

¹ Less than one-tenth of one per cent. ² This figure gives the number of children whose fathers and mothers have the same origin. The difference between this figure (178,291) and the total number of births (243,495) represents the number of children (65,204) whose fathers and mothers are of different origins. ³ This excludes the percentage (26.8) of mixed parentage, i.e., where the parents were not of the same origins. ⁴ Including Galician and Bukovinian.

Illegitimacy.—The ratio of illegitimate to total births is, generally speaking, low in Canada as compared with other countries.

Out of 243,495 living births in the nine provinces of Canada in 1930, 8,059, or 3·3 p.c., were returned as the issue of unmarried mothers. Figures for 1931 show a total of 240,473 living births, of which 8,365, or 3·5 p.c., were returned as the issue of unmarried mothers. Out of this number 4,359 were males and 4,006 females—a ratio of 1,088 males to every 1,000 females, as compared with 1,049 males per 1,000 females in 1930, and a general 1931 rate for all births of 1,058 males to 1,000 females.

11.—Number of Illegitimate Births, Classified by Age of Mother, with the Percentage to Total Living Births, by Provinces, 1930, with Totals for 1931.

Age Group of Mother.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada.
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Under 15 years		5	3	12	32	. 1	. 5	2	1	61
15-19 years	14	223	131	487	959	195	220	189	94	2,462
20-24 years	19	201 65	116 37	504	988	212	238 68	221	89	2,588
25-29 years	5 3	34	16	150 69	340 158	63 26	44	78	42 21	848 404
35-39 years		20	15	30	105	32	32	33 25	12	1 261
40-44 years	1 - 1	5	ž	10	24	7	10	5	2	65
45-49 years	-	4	_	ì	5	l i		3	īl	Ĭ
50 years and over	_	-	-	-	_	_	-	-	-	
Not given	-	-	2	1,306	40	3	2	1	1	1,355
Totals—										
1930	41	557	312	2,519	2,651	540	619	557	263	8, 659
_ 1931	71	630	367	2,450	2,773	513	638	635	288	8,36
Per cent of all living births—			١.,		ا ا	ا				
1930	2.3	4.9			3.7		2.8	3.2	2.4	
1931	3.8	5.4	3.4	2.9	4.0	3.6	3.0	3.7	2.8	3.5
1930	21	302	159	5.291	1.335	274	333	281	129	4,128
1931	29	323	207	1,298	1,423	251	328	338	162	4,359
Female illegitimate births—	-		٠٠٠ ا	1	-,			500	-02	4,00.
1930,	20	255	153	1,228	1.316	266	286	276	134	3,934
1931	42	307	160	1,152	1.350	262	310	297	126	4,000

Stillbirths.—Statistics of the number of children born dead in 1930 are shown below for Canada, according to the status and age of the mother; totals for 1931 are inserted. Stillbirths to unmarried mothers were 5.7 p.c. of total stillbirths in 1931.

12.—Stillbirths by Age of Mother and Legitimacy of Child in 1930, with Totals for 1931.

Age Group of Mother.	Born to Unmar-	Dorn to Married Mothers.									Total Born in
The court of second	ried Moth- ers.	P.E.L	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	C. Can-
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Under 15 years of age 15–19 years		j -,	- 36	23	- 72	- 131	- 2t	28	26		466
20-24 years	107	6	66	75	443	512	107	105	119	56	1,596
25-29 years	44 19	11	75· 69	62 72	572 453	585 594	88 91	113 109	117 91	65 57	1,732 1,559
30-34 years	17	8 5	62	61	442	460	85	93	87	47	1,362
40-44 years		5	36		241	207	49	68	55		721
45 and over Unknown	112	1 3	€	-1	37 5	34 34	9 1	12 1	7	2 2	116 159
Tetals, 1930 Totals, 1931	433 433	39 42	350 378	822 327	2,265 2,258	2,557 2,492	451 442	529 545	5 83 431	258 271	7,787 7,611
Ratios to Total Births, 1930 Ratios to Total Births, 1931	5·1 4·9		3-1 8-3	3·1 3·0	5·7 2·7	3.6 3.6	3·1 3·1	2·4 2·6	2·9 2·5	2·4 2·6	3·1

Birth Rates in Various Countries.—The relative positions occupied by Canada and its individual provinces among the countries of the world with respect to crude birth rate (the annual number of births per 1,000 of population) are shown in Table 13.

13.—Crude Birth Rates of Various Countries in Recent Years.

Country or Province.	Year.	Crude Birth Rate.	Country or Province.	Үеаг.	Crude Birth Rate,
Costa Rica. Egypt. Russia. Chile. Ceylon. Salvador. Jamaica. Panama. Roumania. Japan. Quebec. Spain. Italy. New Brunswick. Union of South Africa (Whites). Uragnay. Newfoundland. Alberta. Canada. Saskatchewan Netherlands. Czechoslovakia. Nova Scotia. Tasmania. Western Australia. Prince Edward Island.	1928 1929 1928 1939 1928 1939 1928 1930 1931 1930 1931 1930 1931 1930 1931 1930 1931 1930 1931 1930 1931	46-9 43-7 39-8 39-0 35-0 35-0 35-0 28-8 28-7 26-5 24-4 23-8 23-2 22-7 22-1 22-1 22-1 21-0	New South Wales Northern Ireland Finland Manitoba Ontario Queensland Australia Irish Free State Latvia. Sootland United States (Reg. Area) New Zealand Belgium Denmark Victoria France Prussia Germany Estonia South Australia Switzerland Norway Austria England and Wales Sweden British Columbia	1930 1930 1930 1931 1931 1931 1930 1930	21 · 0 20 · 8 20 · 5 20 · 5 20 · 2 20 · 1 19 · 9 19 · 9 19 · 5 18 · 8 18 · 8 18 · 8 17 · 5 17 · 2 17 · 2 17 · 2 17 · 2 17 · 2 17 · 2 17 · 3 16 · 3 16 · 3 17 · 6 16 · 3 17 · 6 16 · 3 16 · 3 17 · 6 16 · 3 17 · 6 16 · 3 16 · 3 17 · 6 17 · 6 16 · 3 16 · 3 17 · 6 17 · 6 16 · 3 16 · 3 17 · 6 17 · 6 17 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 17 · 6 17 · 6 18 · 6 18 · 6 17 · 6 17 · 6 17 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 17 · 6 17 · 6 17 · 6 18 · 6 18 · 6 18 · 6 18 · 6 17 · 6 17 · 6 17 · 6 17 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 17 · 6 17 · 6 17 · 6 17 · 6 17 · 6 17 · 6 17 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18 · 6 18

Section 3.-Marriages and Divorces.

Subsection 1.-Marriages.

About a century ago it was observed in the United Kingdom that the number of marriages tended to be high when the price of wheat was low and to be low when the price of wheat was high. This was quite naturally the case among a population, the majority of which was living at a comparatively low standard of comfort, and where the staple food was thus the chief factor in the cost of living.

More recently, the curve showing marriage rates in the United Kingdom and other English-speaking countries has ceased to bear any constant relation to the price of the staple food of the people, though it still does so in poorer countries. Its place in influencing the marriage rate has, however, been taken by the general level of prosperity. Marriages in such countries as the United Kingdom, the United States, Canada and Australia tend to increase in "good times" and to diminish in "hard times", when great numbers of those who are contemplating marriage are led to postpone such marriage until the advent of better industrial conditions. Thus marriages in Canada showed a considerable decline in 1931.

Summary statistics of marriages contracted in 1921-31 appear in Table 14. 52230-11

14.—Number of Marriages and Marriage Rates, by Provinces, 1921-31.

	AN	UMBER	ÓΕ	MARRIAG	ES.
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Year.	P.E.I.	N.S.	N.B.	Que.	Ont,	Мап.	Sask.	Alta.	B.C.	Canada.
Average 1921-25. Average 1926-30. 1926-30. 1927. 1928. 1929. 1930.	473 473 459 482 469 488 490	3, 186 3, 224 2, 861 3, 042 3, 256 3, 510 3, 451 3, 394	2,953 2,970 2,938 2,887 3,146 3,118 2,761 2,544	18,731 17,827 18,551 19,126 19,610 18,543 16,783	24,037 25,449 23,632 24,677 25,728 27,605 25,605 23,771	4,634 4,951 4,537 4,716 5,170 5,269 5,061 4,888	4,982 6,036 5,483 5,733 6,701 6,548 5,717 5,700	4,313 5,265 4,503 4,707 5,776 6,004 5,334 5,142	3,971 4,786 4,418 4,720 4,942 5,155 4,697 3,879	71,885 66,668 69,515 74,311 77,288 71,657 66,591
	В	-MARR	IAGE I	RATES	PER 1,0	00 POPU	JLATIO	N.		
Average 1921-25 Average 1926-30 1926	5.4 5.4 5.3 5.5	6·1 6·3 5·6 5·9	7·6 7·4 7·4 7·3	1 6.9 6.8 7.0	8-0 7-8 7-5 7-7	7·5 7·5 7·1 7·2	6·4 7·0 6·7 6·8	7·3 8·0 7·4 7·4	7·1 7·5 7·3	7·3 7·1 7·9

Age at Marriage.—The average age of all bridegrooms in the Dominion in 1930 was $29 \cdot 2$ years and that of all brides $25 \cdot 0$ years. The average excess of the bridegroom's age was thus $4 \cdot 2$ years. It may be noted in Table 15 that when the contracting parties are grouped by age of bridegroom, the average difference in age is less for the younger groups, grooms under 20 being $0 \cdot 3$ years younger than the brides, while the excess of the average bridegroom's age was $1 \cdot 5$ years in the group 20-24, and steadily increased for each quinquennial age group until it was $11 \cdot 2$ years for the bridegrooms 50 years and over. On the other hand, when the parties are grouped by the age of the bride, it is found that there is no such regularity as is shown in the table by age of grooms. In the case of brides in the age group 25-29 years the bridegrooms approximate most closely to their own (the brides') ages. Since these tables are based upon all marriages contracted during the year, the figures given should not be understood to signify the average ages at first marriage.

15.-Differences in Ages of Bridegrooms and Brides, 1930.

Age Group of Bridegrooms.	Average Age of Bride- grooms.	Average Age of Brides	Excess of Average Age of Bride- grooms.	Age Group of Brides.	Average Age of Brides.	Average Age of Bride- grooms.	Excess of Average Age of Bride- grooms.
All bridegrooms Under 20 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 50 years and over	29·2 19·1 22·8 27·3 32·1 37·2 42·3 47·3 60·0	25.0 19.4 21.3 23.5 25.9 29.0 32.6 37.3 48.8	4·2 -0·3 1·5 3·8 6·2 8·2 9·7 10·0 11·2		18.5 22.3 27.1 32.1 37.3 42.3	29 2 24 5 26 4 30 0 35 8 41 1 46 2 51 4	4·2 6·1 2·2 3·2 8·8 3·2 4·2 3·2

Out of each 1,000 bridegrooms in 1930, 905 were bachelors, 85 widowers, 10 divorced men; out of each 1,000 brides 932 were spinsters, 59 widows, 9 divorced women. Nineteen twenty-eight was the first year in which as many as I p.c. of those

Quebec was not included in the registration area prior to 1926.

marrying had previously been divorced. There is a fairly close resemblance between the figures of divorces granted, as shown in Table 19 of this chapter, and the number of divorced persons re-married, more particularly in the case of males. Thus 875 divorces were granted in 1930, while 759 divorced males and 668 divorced females married again. This of course does not mean that these were the same persons.

16.—Average Ages of Parties Contracting Marriages, by Provinces, 1930.

Province,	Average Age of Bride- grooms.	Average Age of Brides.	Excess of Average Age of Bride- grooms.
Prince Edward Island	30-0	25.9	4.1
Nova Scotia	29.0	24.6	4.4
New Brunswick	28.8	24.3	4.5
Quebec	28.9	25.4	3.5
Ontario	29.0	25⋅1	3.9
Manitoba	29.7	24.7	5.0
Saskatchewan	29.4	23.8	5.6
Alberta	29.5	24 - 1	5.4
British Columbia	31.8	26.4	4.9
Canada	29 - 2	25.0	4,2

Nativity of Brides and Bridegrooms.—The majority of marriages contracted in the western provinces in past years have been between persons born outside Canada. This condition however is being gradually changed and, although in Manitoba, Saskatchewan, Alberta and British Columbia, the majority of the bridegrooms in the marriages contracted in 1930 were born outside of Canada, as a rule the percentages show a general reduction over the past few years. Canadian-born brides were in the majority, in 1930, in all the provinces except British Columbia, where Canadian-born and foreign-born brides were about equally divided. In the Maritime Provinces and Quebec, the Canadian-born brides and grooms showed a marked predominance, varying between 83 p.c. and 94 p.c., and in Ontario over 61 p.c. of grooms and 67 p.c. of brides were Canadian-born in 1930. Taking Canada as a whole, 64·5 p.c. of all grooms and 71·1 p.c. of all brides were born in Canada. Table 17 gives the number of marriages per 1,000 population in each province, as well as the percentage distribution of brides and grooms according to nativity.

17.-Nativity of Persons Married in the Registration Area, by Provinces, 1926-30.

Note.—For figures for 1921-25, see the 1929 Year Book, p. 166. Marriages. Percentage Distribution of Grooms and Brides, by Nativity. Province. Year. Born in Born Born Per Provinces of in Other Elsewhere. 1,000 Total. Residence. Provinces. Popu-lation. Grooms | Brides Grooms) Brides Grooms) Brides. Prince Edward Island.... 3.5 1926 459 5.3 5.7 1927 482 5·5 5·3 92·7 91·0 95.0 3.5 1.5 3.7 3.5 3.6 3.8 4.3 3·2 3·2 4·7 1928 466 94.2 2.6 5·3 5·5 92.5 4.9 1929 469 4.3 91.3 1930 488 3.9 5.Ž 90-0 81.4 2,861 4.9 16·2 15·9 Nova Scotia... 1926 5.6 79-0 85.3 3 - 1 11.6 1927 3,042 3,256 5.9 79.5 84 · 5 83 · 9 4.6 3.7 11.8 1928 **6**∙3 79.0 4.6 3.0 16-4 13.1 6.8 6.7 5·2 5·9 3·7 4·5 12.7 12.6 1929 3,510 77.9 88.6 16.9 52230-114

17.—Nativity of Persons Married in the Registration Area, by Provinces, 1926-30—concluded.

		Marr	iages.	Percei	tage Dis	stribution by Na	of Grootivity.	ms and E	Brides,
Province.	Year.	Total.	Per 1,000	Provi	n in nces of lence.	in O	rn ther inces.	Bo Elsev	
			Popu- lation.	Grooms	Brides	Grooms	Brides.	Grooms	Brides.
New Brunswick	1926	2,938	7·4	72·1	75 · 6	9·0	8·0	18·9	16-4
	1927	2,887	7·3	72·3	75 · 5	8·5	8·2	19·3	16-2
	1928	3,146	7·8	69·4	74 · 8	9·2	7·3	21·4	17-9
	1929	3,118	7·7	72·8	76 · 2	9·3	8·9	17·9	14-9
	1930	2,761	6·8	76·7	82 · 0	9·9	8·2	13·4	9-7
Quebec	1926	17,827	6·8	81+9	84 · 4	3·9	3.4	14·1	12·2
	1927	18,551	7·0	81+1	84 · 3	4·2	3.3	14·7	12·4
	1928	19,126	7·0	80+8	83 · 8	4·1	3.5	15·1	12·7
	1929	19,610	7·1	80+1	82 · 6	3·7	3.4	16·3	14·0
	1930	18,543	6·6	79+2	82 · 5	4·2	3.7	16·6	13·8
Ontario	1926	23,682	7·5	60-4	64·8	7·8	6·6	82·8	29·1
	1927	24,677	7·7	59-6	63·5	6·9	6·2	33·4	30·3
	1928	25,728	7·8	57-0	61·3	7·2	6·7	35·8	32·0
	1929	27,605	8·3	54-9	60·2	7·4	7·3	37·7	32·5
	1930	25,605	7·6	54-3	60·1	7·5	7·3	88·2	32·6
Manitoba	1926	4,537	7·1	35·4	47.7	14 · 2	12.2	50·3	40·2
	1927	4,716	7·2	34·7	48.7	13 · 6	10.8	51·8	40·6
	1928	5,170	7·8	34·8	48.0	13 · 0	10.5	52·3	41·5
	1929	5,269	7·8	37·7	50.6	12 · 6	10.9	49·7	38·5
	1930	5,061	7·3	37·1	52.1	12 · 5	10.2	£0·3	37·6
Saskatchewan	1926	5.483	6.7	15·1	31·0	28 · 8	24 · 6	56·1	44·4
	1927	5,733	6.8	17·0	32·5	27 · 6	23 · 3	55·4	44·2
	1928	6,701	7.8	17·8	34·8	26 · 4	20 · 1	55·8	45·1
	1929	6,548	7.4	20·6	38·5	24 · 9	19 · 4	54·5	42·1
	1930	5,717	6.3	22·4	42·6	24 · 9	18 · 7	52·6	38·7
Alberta	1926	4,503	7·4	13·3	25 · 7	24·1	21 · 7	62 · 5	52·6
	1927	4,707	7·4	15·2	25 · 4	23·3	20 · 9	61 · 4	53·7
	1928	5,776	8·8	16·6	28 · 3	22·4	18 · 7	61 · 0	53·0
	1929	6,004	8·8	17·6	30 · 9	20·9	17 · 2	61 · 4	51·9
	1930	5,334	7·5	19·0	32 · 6	20·6	18 · 3	60 · 4	49·0
British Columbia	1926	4,418	7·3	17.7	22-5	21 · 0	20·8	61 · 2	56.7
	1927	4,720	7·6	16.9	22-7	20 · 3	21·9	62 · 8	55.5
	1928	4,942	7·7	18.3	25-8	21 · 5	21·7	60 · 2	52.5
	1929	5,155	7·8	18.6	26-5	20 · 6	21·6	60 · 8	51.9
	1930	4,697	6·9	18.8	27-0	21 · 3	22·7	59 · 9	50.3
Canada (Exclusive of the Territories)	1926 1927 1928 1923 1930	66,658 69,515 74,311 77,288 71,657	7·1 7·2 7·6 7·7	56 · 2 55 · 9 54 · 1 53 · 9 54 · 3	62 6 61 8 60 6 60 8 61 9	10·7 10·3 10·6 10·2 10·2	9.5 9.1 9.1 9.2 9.2	33 · 2 33 · 8 35 · 3 36 · 0 35 · 5	28-5 29-1 39-3 30-0 28-9

Marriage Rates in Various Countries.—For comparative purposes, the crude marriage rates per 1,000 of population in various countries of the world and in the provinces of Canada are shown for the indicated years in Table 18.

18.—Crude Marriage Rates of Various Countries in Recent Years.	18.—Cru	de Marriage	Rates of	Various	Countries	ín	Recent V	ears.
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Country or Province.	Year.	Crude Marriage Rate per 1,000 Popula- tion.	Country or Province,	Year.	Crude Marriage Rate per 1,000 Popula- tion.
Ukraine	1929	11.3	Alberta	1931	7.0
United States	1929	10.1	Manitoba	1931	7.0
Czechoslovakia	1930	9.3	New South Wales	1930	7.0
Chile	1930	9.2	Ontario	1931	6.9
Union of South Africa (Whites)	1930	9.2	Scotland	1930	6.9
Latvia	1930	9.2	Finland	1930	6.8
Roumania	1930	9.2	Australia	1930	6.7
Hungary	1930	9.0	Tasmania	1930	6.7
Belgium	1930	8.8	Nova Scotia	1931	6-6
Germany	1930	8.7	Queensland	1930	6.6
France	1930	8-4	Victoria	1930	6.5
Denmark	1930	8.2	Canada	1931	6.4
Estonia	1930	8.0	Norway	1930	6-4
England and Wales	1930	7.9	Uruguay	1930	6.3
Japan	1930	7.9	New Brunswick	1931	6.2
Netherlands	1930	7.9	Saskatchewan	1931	6-2
Switzerland	1930	7.9	Northern Ireland	1930	6.1
New Zealand	1930	7.8	Quebec	1931	5.8
Austria	1930		South Australia	1930	5.7
Western Australia	1930 1930	7.7	British Columbia	1931	5.6
Spain	1930 1930	7·6 7·4	Prince Edward Island	1931	5.6 5.1
Italy	1930	4·4	Ceylon	1930 1930	5·1 4·6
Iceland	1930	7.1	Irish Free State	1928	3.3
Sweden	1890	. 1.1	Salvador	1925	9.3

Subsection 2.—Divorces.

For many years subsequent to Confederation the number of divorces granted in Canada was very small, 1883, with 13 divorces, being the first year in which the number attained two figures, while 1903, with 21 divorces, was the record year up to that time. Thereafter the numbers grew more rapidly, 1909 showing 51 divorces and 1913, the last pre-war year, 60 divorces. This number was, however, less than one per 1,000 of the marriages contracted in Canada in these years.

The effect of the war was to increase very greatly the number of divorces granted in Canada. The causes may be found in the generally unsettling psychological effect of the war period, and the long separations between men on active service and their wives. The provision of new facilities for divorce is also to be considered; owing to a decision of the British Privy Council, divorces in the Prairie Provinces have, subsequently to 1918, been granted by the courts of these provinces, so that Ontario and Quebec have since then been the only provinces in which the applicant for divorce must secure a special Private Act of Parliament. In 1930, however, an Act of the Dominion Parliament (20-21 Geo. V, c. 14) gave jurisdiction in divorce cases to the Supreme Court of Ontario.

The above-mentioned causes have tended to produce the recent increase in the numbers of divorces granted in Canada, which grew steadily from 114 in 1918 to 875 in 1930, these numbers being those of final decrees, which alone really constitute divorces. In 1931 the number decreased to 684, this being largely due to the transfer of jurisdiction in Ontario divorces from the Parliament of Canada to the Supreme Court of the province, with the consequent delay between the granting of the decree nisi and the decree absolute. In 1932 the number rose to 887, this figure being greater than the total divorces granted in the 48 years from 1868 to 1915. The statistics of divorces granted in the years from 1901 to 1932 inclusive will be found in Table 19. (For divorces in each year prior to 1901 see the 1921 Year Book, p. 825.)

19.—Statistics of Divorces Granted in Canada, 1961-32.

Norg.—In Prince Edward Island only two divorces have been granted since Confederation, one in 1913 and one in 1931. In consequence of a decision of the British Privy Council, divorces in Manitoba, Saskatchewan and Alberta have, subsequently to 1918, been granted by the courts of these provinces.

	Grante	d by the D	ominion Parl	liament.	Grante	d by the (Courts.	Total
Year.	Ontario.	Quebec.	Northwest Territories.	Manitoba.	Nova Scotia.	New Brups- wick.	British Colum- bia.	for Canada.
1901. 1902. 1903. 1904. 1905.	2 2 2 5 2 10	1 1 3 3	- 1 - 2 Alta. Sask. 1 -	1 2	10 9 8 6 6	1422	7 3 4 5 18	19 15 21 19 35
1907. 1908. 1909. 1910. 1911. 1012. 1913.	3 8 8 14 13 9 20 18	1 - 4 2 4 3 4 7	1 1 1 2 1 4 1 4 2	1 - 2 3 3 1 8	81 5 81 131 101 4	3 5 5 6 4 ² 4	9 12 22 12 19 11 20	25 30 51 51 57 35 60° 70
1915 1916	10 18 10 10 49 91	3 1 4 2 4 9	3 1 1 2 2 1 2 1 36 ³ 3 ⁴ 64 ⁴ 26 ⁴ 84 ² 50 ⁴	1 2 - 883 424 1224	13 14 8 24 36 45	6 11 6 10 13 15	16 18 23 65 147 136 128	58 67 54 114 376 429 548
1922 1923 1924 1925 1926 1927 1928 1929 1930 1931	90 105 114 121 113 182 213 208 207 824 2337	6 11 13 10 13 25 30 40 38 24	129 ⁴ 37 ⁴ 87 ⁴ 41 ⁴ 118 ⁴ 28 ⁴ 101 ⁴ 42 ⁴ 154 ⁴ 48 ³ 148 ⁴ 60 ⁴ 168 ⁴ 55 ⁴ 147 ⁴ 69 ⁴ 151 ⁴ 51 ⁴ 149 ⁴ 61 ⁴	974 814 775 794 854 1023 794 894 1144	35 22 42 30 19 29 28 30 19 36 35	12 19 15 15 12 17 14 ³ 21 27 20 26	138 139 ³ 136 ³ 150 167 197 203 222 255 208 245	544 505 543 551 608 748 785 816 875 634* 887

Includes one judicial separation. Includes one not effective till court costs are paid. One by Parliament, remainder by courts. Three by Parliament, remainder by courts. Includes one in P.E. Island. Three by Parliament, remainder by courts.

Section 4.—Deaths.

Within the past century and more especially within the past generation there has occurred throughout the countries of the white world a notable decline in the death rate, except where man has brought death upon himself through wars and the aftermath of wars. How far this decline has been due to advances in medical science, how far to better sanitation and how far to the improvement in the general conditions of living, as a result of the increase in the productive power of humanity, is in dispute, but concerning the facts there is no doubt.

Perhaps the most impressive testimony regarding this decline in the death rate is furnished by the mortality statistics of Sweden, where vital statistics have been kept with great accuracy for the whole nation ever since 1750. There the crude death rate declined from an average of 27.4 per 1,000 in the decade 1751-60 to 14.3 in the decade 1911-20 and to 11.7 in 1930.

Similarly, in England, the crude death rate, which was $22 \cdot 5$ per 1,000 in the 60's, $21 \cdot 4$ in the 70's and $18 \cdot 2$ in the 90's of the last century, declined to $15 \cdot 4$ in the first decade of the present century and $12 \cdot 1$ in the third, rising to $12 \cdot 3$ in 1931. In Scotland, again, the average rate was $22 \cdot 1$ in the '60's, $21 \cdot 8$ in the '70's, $18 \cdot 6$ in the '90's, $13 \cdot 9$ in $1921 \cdot 25$, $13 \cdot 6$ in $1926 \cdot 30$, and $13 \cdot 3$ in 1931.

Of course the preceding statements are not to be taken to mean that every year will show a decline in the death rate as compared with the preceding year. There will always be years of specially high mortality, for instance 1918, when the death rate in Ontario, the most populous of the provinces of Canada, was 15·3 per 1,000, owing to the influenza-pneumonia epidemic, as against 12·0 in 1917 and 11·9 in 1919. Over a period, however, these idiosyncrasies of individual years are reduced to negligibility, and it remains true that from decade to decade there is, under normal conditions, a decline in the crude death rates of the countries of the white man's world.

As for Canada, while the period elapsed since the introduction of complete and comprehensive vital statistics in 1920 has been too short to establish a definite downward trend, the rate of 12·4 per 1,000 for that year, in the eight provinces then included in the registration area, was substantially higher than in any subsequent year. From 1926 Quebec, which has a higher death rate than any other province, has been included in the registration area and its influence is reflected in the totals for Canada shown in Table 20. A decided improvement is shown in the deaths and death rate of Quebec for the years 1930 and 1931, but the proportionate improvement in all the other provinces is also pronounced and in some cases even greater than that in Quebec.

Subsection 1.—General Mortality.

Total deaths and crude death rates in recent years are given in Table 20 for Canada, by provinces. There was a smaller absolute number of deaths in 1931 than in any other year since the record became available for all the nine provinces.

20.—Deaths and Death Rates, by Provinces, 1926-31, with Averages 1921-25 and 1926-30.

Year.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada.²
Average 1921-25	1,085 969 898 913 952	6,362 6,366 6,378	5,093 5,019 5,002 4,902 4,972		35,909 34,775	5,507 5,335 5,309	6,256 6,060 6,031	4,953 5,530 5,159 5,059 5,699	5,986 5,474 5,750	108,924 107,454 105,292
1928 1929 1930 1931	1,122 961 912	6,660 6,206	5,280 4,991 4,644	37,221 35,945 34,487	38, 123	5,808 5,685	6,715 6,309	6, 239 5, 496 5, 302	6,397 6,400	113,515 109,306

A.-TOTAL DEATHS.

B .- CRUDE DEATH RATES PER 1,000 POPULATION.

Average 1921-25 Average 1926-30	12·5 11·0		13 · 1 12 · 5	ι 13⋅5	11 · 3 11 · 2	8-6 8-3		8-3 8-4	8·7 9·3	
1926. 1927. 1928. 1929. 1930.	10·5 10·8 12·8 10·9	12·4 12·0 12·9 12·1	12-6 12-3 12-4 12-9 12-3	14-3 13-6 13-5 13-4 12-7 12-0	11 · 3 10 · 8 11 · 3 11 · 4 11 · 0 10 · 4	8.2 8.1 8.6 8.3	7·2 7·2 7·6 7·0	8·5 8·0 8·7 9·1 7·8 7·2	9·2 9·7 9·5	10·0 11·1 11·3 10·7

¹ Quebec was not included in the registration area prior to 1926. ² Exclusive of the Territories.

Age Distribution of Decedents.—The numbers of males and females dying in the nine provinces in 1930 and 1931 are given by single years of age up to 5 and by quinquennial age groups from 5 to 90 years and over in Table 21, together with the percentage of deaths occurring in each group in each of these years. In the eight provinces that have been in the registration area since 1921, the number of males under 1 year dying in 1931 was only 16.3 p.c. of the total number of male deaths, as against 23.6 p.c. in 1921, and of females, 14.8 p.c. as against 20.3 p.c. Similarly, deaths under 5 years of age among males fell from 29.8 p.c. of the total number of deaths in 1921 to 19.9 p.c. in 1931 and among females, from 26.5 p.c. number of deaths in 1921 to 19.9 p.c. in 1931 and among females, from 26.5 p.c. to 18.8 p.c.

21.—Distribution of Deaths in Canada by Sex and Certain Age Groups, Numbers and Percentages, 1936-31.

	Ma	les.	Fem	ales.	Ma	les.	Fem	ales.
Age Group.	1930.	1981.	1930.	1931.	1930.	1931.	1980.	1931.
	No.	No.	No.	No.	p.e.	p.c.	p.c.	p.c.
Under 1 year	12,284 1,569 781 544 424	11,667 1,418 648 471 312	9,458 1,397 630 440 383	8,693 1,260 532 421 320	20·8 2·7 1·3 0·9 0·7	20·7 2·5 1·1 0·8 0·6	18.8 2.8 1.3 0.9 0.8	18. 2. 1. 0. 0.
Totals, under 5 years	15,602	14,511	12,308	11,226	26.4	25.7	24 - 5	23 -
5-9 years 10-14 years 15-19 years 20-24 years 25-29 years 30-34 years 30-34 years 40-44 years 45-49 years 55-59 years 60-64 years 65-69 years 75-79 years 75-79 years 70-74 years 80-88 years 80-88 years Ages not stated	1, 483 926 1, 436 1, 663 1, 648 1, 349 1, 937 1, 970 2, 410 2, 797 2, 410 4, 482 5, 063 832 59, 032 77	1,239 1,309 1,500 1,389 1,599 1,598 1,895 2,310 2,851 2,851 4,858 4,359 4,939 56,458	1, 132 862 1, 397 1, 549 1, 526 1, 393 1, 585 1, 785 1, 784 2, 012 2, 228 2, 738 3, 533 4, 034 4, 034 3, 875 5, 279 1, 091 50, 189	968 806 1,132 1,453 1,414 1,432 1,574 1,738 1,935 2,854 3,346 4,070 4,028 8,189 1,022 47,978 10	5.64959999	21527537531043467831 2122223455678781	2.7.8.1.0.8.2.5.7.0.6.4.0.0.7.5.2.4.6.5.7.0.0.7.5.2.4.6.5.7.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.7.5.2.4.6.6.4.0.0.0.7.5.2.4.6.6.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	2-12-3-3-3-3-3-4-4-5-7-8-8-10-2-1
Totals, All Ages	59,109	56,529	50,197	47,988	-	-	-	

The quartile and decile ages of decedents for the years 1928-30 are given for each sex and for the two sexes combined in Table 22. The fifth decile and second quartile (or the median) both mark the middle points of the arrays, and the deciles, dividing each half into five groups, give a more detailed picture of the age distribution in each half than do the quartiles. An examination of the arrays over the three-year period shows that both the quartile and decile distributions have been singularly free from irregularity. This was true in all three categories of males, females, and both sexes.

Position in Array by Age.	Bo	th Sex	es.		Males.		F	emales	١.
rosition in Array by Age.	1928.	1929.	1930.	1928.	1929.	1930.	1928.	1929.	1930.
First quartile years of age Second quartile " Third quartile "	4·67 49·01 71·32	48 99		48-92		49 - 13	49-12	49-17	5 · 79 49 · 3 72 · 2
First decile	1·19 16·07	1 · 29 15 · 42	1+03 15-95	0-89 13-31	1.08 0.94 12.52	0·85 13·40	1.66 18.45	18-03	1·4 17·9
Fourth decile	34.30 49.01 60.13 68.06	48.99 60.20	49·24 60·07	48-92	48-86	59.38	49·12 60·70	49·17 61·12	34.6 49.3 60.8 68.9
Eighth decile	74-48	74.39	74 - 33		73-61	73-57	75 - 44	75 - 28	75 - 2

22.—Quartile and Decile Ages of Decedents, by Sex, 1928-30.

Adjusted Death Rates.—While the crude death rate gives the actual mortality per 1,000 of population, the differing age constitution of the population in different communities and the high mortality among infants and elderly people make the crude death rate no true test of the relative expectation of life in such communities. Where the age and health constitution of a particular group is particularly favourable to low mortality, for example among the selected lives of soldiers in peace time, the crude and the adjusted death rates will be lower than elsewhere.

When comparisons of the rates of mortality in several communities are made by age groups the effects of differences in age constitution between these communities are eliminated, but by a rather cumbrous process which does not bring together and express as a single figure the facts of the situation. It has therefore been considered desirable to adopt a particular community as a standard, and to find what the death rates of other communities would have been if the age and sex constitution of their population had corresponded to those of the community taken as a standard. The "standard" population chosen for this purpose in England and Wales and the United States is the "standard million", based on the age and sex distribution per million of the population of England and Wales at the census of 1901. That age and sex distribution was as follows:—

Age Group.	Both Sexes.	Males.	Females.
ill ages	1,000,000	483,543	516,45
Inder 5 years	114, 262	57,039	57,22
5- 9 years	107, 209	53,462	53.74
0-14 years	102,735	51,370	51,36
5-19 years	99,798	49,420	50,37
0-24 years	95,946	45.273	50,67
5-84 years	161,579	76,425	85,13
5-44 years	122.849	59,394	63,45
5-54 years	89,222	42,924	46,28
5-64 years	59.741	27,913	31.82
5-74 years	33,080	14,691	18,38
5 years and over	13.581	5.632	7.99

Regarding the standard million of England and Wales the Registrar General says: "As the population of this country in 1901 included relatively few infants and old people it forms a standard exceptionally favourable to low mortality" The relative fewness of old people in the population is presumably due to the great increase in English population during the 19th century; the relative fewness of infants, to the marked reduction of the birth rate between the 1870's and the end of the century.

The process above described has been applied to the population of the eight provinces, the former registration area of Canada, for the years 1921-31 and to the population of Quebec for the years 1926-31 in Table 23. Of the rates there given, those for 1921 and 1922 have been calculated directly, the proportion of the population in each sex and age group according to the census of 1921 being assumed to hold true for 1922 also; similarly the rates for 1930 and 1931 have been calculated directly from the proportions shown in each sex and age group at the census of 1931. the intervening years 1923-29, for which estimates of total population but not of population by age groups were available, the following method was adopted. proportions which the adjusted rates of 1921 and 1922 (correct to three decimal places) bore to the crude were averaged, similarly those of 1930 and 1931, and the change was assumed to have taken place in an arithmetical progression during the intervening seven years. Quebec not having been in the registration area in the year 1921, an adjusted rate was not available for that year or for 1922, but an adjusted rate for 1926 was calculated on the assumption that the sex and age distribution of 1921 remained unchanged. As the proportion of the adjusted rate to the crude depends primarily on this sex and age distribution, the proportion thus obtained for Quebec in 1926 was used instead of the missing averages for 1921 and 1922.The same course was followed for the total of the nine provinces.

In all of the eight provinces for which 1921 figures are given the proportion of the adjusted rate to the crude was higher in 1921 than in 1931; in other words, the age distribution had become more unfavourable in the later year. In the Maritime Provinces and Ontario the process of "standardizing" or "adjusting" the death rate results in a reduced rate. This is particularly true of Prince Edward Island, which has the largest proportion of aged persons of all Canadian provinces. In the western provinces, on the other hand, the adjusted rates are higher than the crude. So much is this so, that in the case of Saskatchewan, while the crude rate in 1931 was only $6\cdot 6$, as compared with $10\cdot 4$ in Prince Edward Island, the adjusted rate was actually slightly higher than that of the island province.

23.—Crude and Adjusted Death Rates in Canada, by Provinces, 1921-31.

Province.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
P.E. Island—	13 · 6	12·5	13·2	11·1	11.6	10-3	10·5	10-8	12·8	10·9	10·4
CrudeAdjusted	10 · 3	9·3	9·9	8·2	8.6	7-6	7·7	7-9	9·2	7·9	7·4
Nova Scotia –	12·3	12·8	13-3	12·8	11.7	12·4	12·4	12·0	12·9	12-0	11-6
Crude	10·3	10·6	11-0	10·5	9.6	10·1	10·1	9·7	10·4	9-7	9-3

23.—Crude and Adjusted Death Rates in Canada, by Provinces, 1921-31—concluded.

Province.	1921.	1922.	1923.	1924	1925.	1926.	1927.	1928.	1929.	1930.	1931.
New Brunswick— Crude	14·2 12·4	13·3 11·8	12·9 11·3	12·6 11·0	12·6 11·0	12·6 11·0	12·3 10·7	12·4 10·8	12·9 11·2	12·3 10·7	11 9
Ontario— Crude Adjusted	11·8 10·8	11·4 10·4	11·8 10·7	10·8 9·7	10-9 9-8	11-3 10-0	10-8 9-5	11-8 9-9	11·4 9·9	11.0 9.5	10 · ·
Manitoba— Crude Adjusted	8.8 9.6	9·3	8·6 9·4	8·0 8·7	8·3	8·3 9·0	8-2 8-7	8·1 8·6	8+6 9-0	8-3 8-6	7.0 7.1
Saskatchewan— Crude Adjusted	7·4 8·3	8·0 9·1	7·9 9·0	7·3 8·3	7·0 8·0	7·4 8·5	7-2 8-2	7·2 8·1	7.6 8.6	7·0 7·8	6.0 7.1
Alberta— Crude Adjusted	8.4 9.4	8·9 10·3	8·4 9·6	8·1 9·3	7·8 8·9	8·5 9·7	8·0 9·1	8.7 9.7	9·1 10·2	7·8 8·5	7·: 8·:
British Columbia— Crude Adjusted	8·0 8·4	9·1 9·6	9-0 9-4	8·8 8·8	8·4 8·5	9·9	9·2 9·0	9·2 8·8	9·7 9·1	9·5 8·7	8.1 8.
Canada (Former Registration Area)→											
Crude	10.6	10.6	10.7	10.0	9.9	10.3	9.9	10-2	10-5	10.●	9.
Adjusted	10-2	10.3	10.3	9.5	9-4	9.7	9.3	9.5	9.8	9.2	8.6
Quebec											
Crude	1	1	ı	ı	ı	14-3	13 - 6	13.5	13-4	12-7	12-0
Adjusted		1		1	1	14-0	13.3	13.2	13 · t	12-4	11-7
Canada (Exclusive of the Territories)—		:		}							
Crude	1	1	ı	1	ı	11.4	10-5	11.1	11.3	10.7	10-1
Adjusted				ι		10.9	10.5	10-6	10.8	10.1	9.8

¹Quebec was not included in the registration area prior to 1926.

Causes of Death.—More than 85 p.c. of deaths recorded in the present registration area in the years 1929 to 1931 were due to the 32 causes specified in Tables 24 and 25.

Total deaths in 1931 were the lowest they have been since statistics for the whole of Canada were made possible by Quebec coming into the registration area in 1926. The influenza epidemic of 1929 accounted for an increase in the total, but the deaths from this cause were below normal in 1931. It is significant, however, that cancer and diseases of the heart are increasingly important causes of death in spite of all efforts to control these diseases. Suicides did not vary much in 1931 from the high level reached in 1930, but violent deaths apart from suicides show improvement.

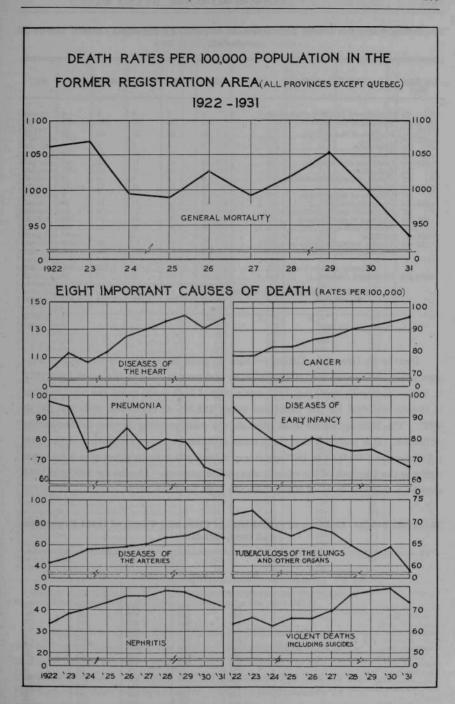
24.—Deaths in Canada, by Principal Causes, 1926-31.

		- 					
Int. List No.1	Cause of Death.	1926.	1927.	1928.	1929.	1930.	1981,
7 8 9 10 11 16 17 18 23 24-32 45-53 71 82 a, b, c	Typhoid fever Measles Scarlet fever Whooping cough Diphtheria Influenza Poliomyelitis and polioencephalitis (acute) Epidemic or lethargic encephalitis Epidemic or lethargic encephalitis Epidemic or erebro-spinal meningitis Tuberculosis, respiratory system Tuberculosis, respiratory system Tuberculosis, respiratory system Cancer Disabetes mellitus Anæmia Cerebral hæmorrhage, embolism or thrombosis Paralysis without specified cause. Convulsions (under 5 years of age) Disasses of the heart Disasses of the arteries Bronchitis. Pneumonia. Diarrhosa and enteritis Appendicitis. Hernia, intestinal obstruction.	465 892 31,242 913 5,174 93 207 6,485 1,444 7,614 1,046 1,040 3,033 1,124 4,981 4,981 5,71 11,415 4,981 5,77 5,445 5,427 5,427 5,435 8,839 5,138	1,112 616 411 1,030 1,012 3,451 120 219 6,444 1,388 7,910 1,083 7,93 1,1083 1,1083 1,775 5,110 5,53 11,775 5,110 5,53 1,382 9,10 5,235 5,235 5,235	467 337 346 727 916 4.703 182 120 235 6.490 1.370 8.514 1.097 732 3.094 1.011 440 12,630 5.648 5.715 5.715 5.715	467 619 440 755 980 7,170 152 118 341 3,29 8,792 1,28 693 2,984 429 13,205 5,940 471 8,411 4,910 1,451 962 5,687	451 521 397 964 737 2,472 215 88 294 6,581 1,494 9,273 1,146 7,40 2,827 380 13,067 8,567 8,583 6,148 7,338 6,148 7,338 6,148 7,338 6,148 7,338 6,148 7,338 6,148 7,338 6,148 7,338 6,148 7,338 6,148 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7,338 7	421 167 253 748 646 3,217 225 6,225 1,412 9,578 1,244 716 2,594 1,734 6,094 7,011 5,139 9,578 1,394 9,578 7,011 5,139 9,578
137 140-150 157 158-161	Diseases of the prostate. Puerporal causes. Congenital malformations. Diseases of early infancy.	734 1,317 1,550 9,902	638 1,300 1,347 9,246 2,470	785 1,381 1,441 9,215 2,408	739 1,341 1,466 9,144 2,505	801 1,405 1,475 8,974 2,334	746 1,215 1,427 9,019 2,225
162 163-171 173-198	Sentity (old age) Suicides. Violent deaths (suicides excepted) Other specified causes.	680 5,189 14,053	759 5,509 14,599	751 6,174 14,791	835 6,316 15,020	1,010 6,468 14,919	1,004 6,168 12,777
199, 200	Totals, specified causes	106, 197 1,257	104,221 1,071	107,906 1,151	112,389 1,176	108,315 991	103,417 1,100
	Totals	107,454	165,292	109,057	113,515	109,306	104,517

¹ The numbers given in this column refer to the International List of Causes of Death, as revised in 1929 by the International Commission on the Classification of Diseases and Causes of Death. This classification, in its detailed, intermediate or abridged form, is accepted in almost all civilized countries.

25.—Death Rates per 109,000 Population in Canada, by Principal Causes, 1926-31.

Int. List	Cause of Death.	1926.	1927.	1928.	1929.	1930.	1931.
77 8 9 10 11 16 17 18 23 24 45-53 509 71 82 a, b, c	Typhoid fever. Measles. Scarlet fever. Whooping cough. Diphtheria. Influenza. Poliomyelitis and polioencephalitis. (acute). Epidemic or lethargic oncephalitis. Lipidemic or cerebro-spinal meningitis. Tuberculosis, respiratory system. Tuberculosis, other organs. Cancer. Diabetes mellitus. Ansemia. Cerebral hæmorrhage, embolism or thrombosis. Faralysis without specified cause.	5 10 4 13 10 55 1 2 2 69 15 81 11 11	12 6 4 11 13 36 2 1 2 6 14 82 11 8 82 11 8 82	\$ 3 4 7 7 9 48 2 1 2 2 6 6 14 7 7 11 1 7 7 3 2 1 0	5 6 4 8 8 100 72 2 1 8 8 8 12 2 7 30 10	4 5 4 9 7 24 2 1 3 3 6 15 15 91 11 7 28 9	4 4 2 2 7 7 6 31 1 20 6 14 92 12 7 7 25 7



25.—Beath Rates per 100,000 Population in Canada, by Principal Causes, 1926-31—concluded.

Int. List No.1	Cause of Death.	1926.	1927.	1928.	1929.	1930,	1931.
86 90-95	Convulsions (under 5 years of age) Diseases of the heart	6 122	6 122	4 129	4 132	4	4
96, 97) 99, 1021	Diseases of the arteries	53	122 53	57	152 59	128 64	133 59
106	Bronchitis	6 90	5	5 86	5 84	4 72	5
119, 120 121	Pneumonia	58 14	79 58 14	51	49	59	68 50
121 122 130–132	Appendicitis Hernia, intestinal obstruction Nephritis	9 55	9 54	14 9 58	14 10 57	15 9 55	13 10
137	Diseases of the prostate	8 14	7 14	8 14	7 13	8 14	50 7
157	Puerperal causes	17 106	14 96	15 94	15 15 91	14 88	12 14 87
162 163-171	Diseases of early infancy	29	26 8	25 8	25 8	23 10	21 10
173-198	Suicides Violent deaths (suicides excepted) Other specified causes	55 149	57 152	63 151	63 150	63 146	60 123
	Totals, specified causes	1,132	1,083	1,099	1,122	1,062	998
199, 200	III-defined diseases	13	11	12	12	10	11
	Totals, Death Rates per 190,000 Population	1,146	1,034	1,110	1,133	1,072	1,009

¹ See footnote 1, Table 24.

Deaths in Ganadian Cities.—Table 26 gives the number of deaths in Canadian cities and towns of 10,000 population and over in each of the years from 1927 to 1931. Generally speaking, 1929 was a year of high death rates, the total number of deaths reported for the Dominion being 113,515 as compared with 105,136 in 1927. The 1929 figures for most cities show a corresponding increase in the number of deaths. It is probable that these cities contained a larger proportion of the total population in 1929 than in 1927 and it is quite likely that the number of non-residents dying in the hospitals of the cities is also on the increase. Deaths for 1930 and 1931 showed a decrease in most cities from the high levels of 1929.

26.—Total Deaths (Exclusive of Stillbirths) in Cities and Towns of 10,000 Population and Over, 1927-31.

		 -		1	
City or Town.	1927.	1928.	1929.	1930.	1931.
Belleville, Ont. Brandon, Man. Brandord, Ont. Calgary, Alta. Charlottelown, P.E.I. Chatham, Ont. Chicotimi, Que. Cornwali, Ont. East Windsor, Ont. Edmonton, Alta. Fort William, Ont. Galt, Ont. Galt, Ont. Glace Bay, N.S.	227 230 347 615 202 314 282 236 73 789 179 180 344	239 242 403 814 278 306 219 272 67 861 211 181 256	241 279 405 874 310 210 228 76 988 244 167 289	242 243 395 781 283 320 174 225 58 876 208 189 308	23 24 38 69 25 31 18 23 5 79 21 14 26

26.—Total Deaths (Exclusive of Stillbirths) in Cities and Towns of 10,000 Population and Over, 1927-31—concluded.

	<u> </u>			· · · · · · · · · · · · · · · · · ·	
City or Town.	1927,	1928.	1929.	1930.	1931.
<u> </u>	100	***		*00	
Granby, Que	109 224	112 241	142 245	109 233	142 234
Halifar, N.S.	876	837	987	863	875
Hamilton, Ont	1,353	1,471	1,612	1,506	1,532
Hull, Que	382	369	327	331	399
Joliette, Que	165	170	187	181	192
Kingston, Out Kitchener, Out	428 296	445 293	536 294	512 348	449 318
Lachine, Que	205	240	200	196	198
Lethbridge, Alta	ĨŽÕ	199 l	217	199	166
Lévis, Que	201	227	215	218	255
London, Ont.	1,058	1,122	1,126	1,080	960
Medicine Hat, Alta	104 243	170 276	162 243	148 273	149
Montreal, Que	11.034	11.936	11,452	10,979	214 10,554
Moose Jaw, Sask	228	235	230	218	210
New Westminster, B.C	248	297	291	282	291
Niagara Falls, Ont	188	220	266	209	212
North Bay, Ont	133	129	166	180	139
Oshawa, Ont	238 1.536	227 1,645	214 1,773	234 1,747	207 1.709
Outremont, Que	1,330	1,013	1,178	1,141	1,709
Owen Sound, Ont	147	172	176	157	177
Peterborough, Ont	307	305	347	304	323
Port Arthur, Ont	221	222	233	241	213
Quebec, Que	2,091	2,313	2,251	2,481	2,135
Regina, Bask	402 495	520 465	555 529	507 502	455 424
St. Bonilace, Man	272	188	345	322	276
St. Hyacinthe, Que	260	281	332	325	295
St. Jean, Que	119	128	112	116	127
Saint John, N.B.	671	710	786	685	688
St. Thomas, Ont	222	214	243	228	204
Sandwich, Ont	69 215	81 216	71 233	76 238	58 223
Saakatoon, Sask	496	498	499	499	432
Sault Ste. Marie, Ont.	203	228	209	280	222
Shawinigan Falls, Que	185	218	212	191	177
Sherbrooke, Que	411	467	481	442	450
Sorel, Que	164 194	164 199	173 [203 [181 208	156 196
Sudbury, Ont.	167	200	247	296	253
Sydney, N.S.	272	245	186	224	186
Thetford Mines, Que	136	163	194	166	128
Three Rivers, Que	539	556	592	542	630
Timmins, Ont	121 6.263	178 6,962	138 7,100	126 7,057	182 6,745
Toronto, Ont	214	178	152	168	151
Vancouver, B.C.	2, 108	2,201	2,310	2,281	2,300
Verdun, Que	361	441	425	424	449
Victoria, B.C	482	558	590	607	526
Walkerville, Ont	48 [146	211 159	203 165	191 151
Westmount, Que.	167 71	155 128	152	261	212
Windsor, Ont.	705	689	689	612	551
Winnipeg, Man	1,656	1,808	1,814	1.807	1,706
Woodstock, Ont	167	173	193	162	159
	ı		1	- 1	

¹Though Point Grey and South Vancouver were not incorporated into Vancouver until Jan. 1, 1929, their statistics are included in the figures for Vancouver for the years 1927-28.

Comparative Crude Death Rates of Different Countries.—In Table 27 will be found a comparative statement of the crude death rates of various countries and provinces for the latest available year. It is worthy of note that three Canadian provinces show the lowest death rates in the list and that Canada has a lower death rate than most other leading countries. The low death rates in the Prairie Provinces are in all three cases due in part to a favourable age distribution of population.

27 .- Crude Death Rates of Various Countries in Recent Years.

Country or Province.	Year.	Crude Death Rate.	Country or Province.	Үеаг.	Crude Death Rate.
askatchewan	1931	6.6	Sweden	1930	11.
lberta		7.2	Panama	1930	l ii∙
(anitoba,	1931	7.6	Quebec	1931	12-
neensland		7.9	Prussia	1929	12.
outh Australia		8.4	Belgium	1930	13
lew South Wales	1930	8.5	Finland	1930	13
uetralia	1930	8.6	Scotland	1930	13
lew Zealand	1930	8.6	Newfoundland	1930	13
ritish Columbia	1931	8.8	Austria	1930	13
ictoria	. 1930	8.9	Northern Ireland	1930	13
asmania	1930	9.0	Italy	1930	14
estern Australia	1930	9.0	Czechoslovakia	1930	14
letherlands	1930	9.1	Irish Free State	1930	14
nion of South Africa (whites)	. 1930	9.7	<u>Latvia</u>	1930	14
anada	1931	10.1	Estonia	1930	14
ntario,	1931	10.4	Hungary	1930	15
rince Edward Island	1931	10.4	France,	1930	15
lorway		10.5	Bulgaria	1930	15
ruguay		10-7	Greece	1930	16
Denmark		10.8	Jamaica	1930	17
ermany	1930	11-1	Spain	1930	17
nited States (Reg. Area)		11-3	Japan	1930	18
ngland and Wales	1930	11.4	Roumania	1930	19
lew Brunswick		11.4	Chile	1930	24
celand		11.6	Ceylon	1930	25
lova Scotiawitzerland		11.6	British India	1929 1929	26

Subsection 2.—Infantile and Maternal Mortality.

In recent years a great part of the energy devoted by the medical profession and sanitarians to effect a decline in the death rate has gone to reduce infantile mortality, and in this field a large measure of success has been attained. In Canada, the Dominion, provincial and municipal health authorities have all taken part in the struggle to reduce infantile mortality, and usually, in the absence of epidemics, each year is showing an improvement. In the ten years for which the figures are available there is evident a very considerable decline in infantile mortality. In 1921 the infant death rate for Canada (using figures from provincial sources for Quebec) was 102 per 1,000 living births. This rate has been reduced to 84.7 in Table 28 gives figures for the whole of Canada for the years 1926 to 1931 and averages for the five-year periods 1921-25 and 1926-30. As in the case of general mortality, the infant mortality in Quebec exceeds that in any other province, although a study of the rates shows that steady improvement has been made in the six-year period during which the province has been included in the registration area. In Canada as a whole, over 4,000 infant lives were saved in 1931 which would have been snuffed out in 1926.

28.—Infantile Mortality, by Provinces, together with the Rate per 1,000 Living Births, 1926-31 with Averages for 1921-25 and 1926-30.

A.-INFANT DEATHS.

Year.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta,	B.C.	Canada.*
Average 1921-25. Average 1926-30. 1926. 1927. 1928. 1929. 1930.	151 122 123 113 92 150 132 128	865	1,039 1,095 1,006 960 1,090 1,048	10,518 11,666 10,739 10,332 9,810	4,890 5,203	1,394 1,031 1,122 1,021 972 1,005 1,035	1,559 1,681 1,575 1,370 1,571	1,327 1,195 1,233 1,110 1,200 1,310 1,122 1,197	588 606 524	22,010 21,195 21,674 21,742
BI	NFAN'	r dea	TH RA	TES P	ER 1,00	0 LIVI	NG BI	RTH\$.		
Average 1921-25. Average 1926-30. 1926. 1927. 1928. 1929. 1930. 1931.	76-8 70-6 70-2 66-6 50-9 89-8 75-5 68-1	84 · 8 80 · 3 92 · 3 79 · 1	105·0 100·7 105·9 96·0 95·6 106·5 99·5	127-1 142-0 129-3 123-6 120-5 120-1 112-9	76.0	83.7 71.6 76.5 72.2 67.0 70.6 71.8 64.3	74·9 64·4 73·3	85.8 75.5 85.3 74.5 76.5 77.4 63.6	50 · 6 55 · 2 58 · 4 60 · 1 50 · 5 55 · 4 51 · 7 49 · 4	93+3 101+8 94+0 89+5 92+1

¹Quebec was not included in the registration area prior to 1926. ²Exclusive of the Territories.

Infantile Mortality by Causes of Death.—Twenty-one principal causes of death accounted in the years 1926 to 1931 for between 91 and 93 p.c. of the infantile mortality experienced in the Dominion, as is shown in Table 29. It is noteworthy that four causes present at birth, viz., premature birth, injuries at birth, congenital debility and congenital malformations, accounted for over 43 p.c. of the infant deaths of 1931. In the year 1930, 47 p.c. of all infants dying were less than one month old and 34 p.c. less than one week old, as is shown in Table 30.

29.-Infantile Mortality in Canada by Principal Causes of Death, 1926, 1928-31.

Note.—Figures for the former registration area for the years 1921 to 1924 will be found at pp. 182-3 of the 1927-28 Year Book and for 1925 to 1927 at pp. 177-8 of the 1929 Year Book. Figures for the whole of Canada for the years 1927 and 1928 will be found at pp. 138-40 of the 1932 Year Book.

Cause of Death.	Inter-	Inter- Numbe				Rate	es per 100	,000.	Per cent Distribu- tion by
Cause of Deach,	List No.	lear.	Males.	Fe- males.	Both.	Males.	Fe- males.	Boths.	Cause of Death.
Measles	7	1926 1929	141 88	84	263 172	73	73	113 73 87	0.8
Scarlet fever	8	1930 1931 1926 1929	119 29 13 10 17	27 12 10	212 56 25 20	23 11 8		87 23 11 8 12	1·0 0·3 0·1 0·1
Whooping cough	9	1930 1931 1926 1929	17 7 358 231	13 7 415 223	30 14 773 454	14 6 299 191	11 6 368 195	12 6 332 193	0·1 3·3
Diphtheria	10	1930 1931 1926 1929	345 243 24 22	341 259 23 21	686 502 47 43	276 197 20 18	287 222 20 18	282 209 20 18	3·2 2·5 0·2 0·2
Influenza	11	1930 1931 1926 1929	22 29 30 576 686	20 24 374 543	49 54 950 1,229	23 24 481 567	17 21 331 474	20 22 408 522	0-2 0-3 4-0 5-7
Erysipelas	15	1930 1931 1926 1929	284 372 51 55	186 319 50	470 691 101	227 301 43	157 273 44	193 287 43 42	2·2 3·4 0·4 0·5
52230—12		1930 1931	49 35	34	100 83 63	45 39 28	39 29 24	34 26	0·4 0·8

29.-Infantile Mortality in Canada by Principal Causes of Death, 1926, 1929-31-concluded

Cause of Death.	Inter- national	Year.		Numbers	ı,	Rate	s per 100	,000.	Per cent Distribu-
Cause of Death,	List No.	I car.	Males.	Fe- males.	Both.	Males.	Fe- males.	Both.	tion by Cause of Death.
Poliomyelitis and polio- encephalitis (acute)	16	1926 1929 1930	6 9 13	8 6 9	15	5 7 10	3 5 8	4 6 9	
Epidemic cerebro-spinal meningitis	18	1931 1926 1929 1930	7 33 39 34	13 24 25 27 30	20 57 64 61	28 32 27	11 21 22 23 26	8 24 27 25	0.1 0.1
Tuberculosis	23-32	1931 1926 1928 1930	32 131 116 116	30 102 86 111	62 233 202 227	26 109 96 93	90 75 94	26 1 0 0 86 93	0 · 3 0 · 3 1 · 4 0 · 4 1 · 4
Syphilis	34	1931 1926 1929 1930	111 68 72 113	84 60 77 91	195 128 149 204	90 57 60 91	72 53 67 77	81 55 63 84 72	1.0 0.1 0.1
Convulsions	86	1931 1926 1929 1930	93 263 181 164	80 177 135 127	173 440 316 291	150 131	68 157 118 107	189 134 120	0.4 1.4 1.4 1.5
Bronchitis	106	1931 1926 1929 1930	164 90 79 73	117 60 58 46	281 150 137 119	133 75 65 58	100 53 51 39	117 64 58 49	1.4 0.4 0.4
Pneumonia	107-109	1931 1926 1929 1930	1,410 1,368 1,317	38 1,077 1,026 949	104 2,487 2,394 2,266	53 1,176 1,132 1,055	33 954 896 800	43 1,069 1,017 931	0 · { 10 · { 11 · { 10 · {
Diseases of the stomach	116-118	1931 1926 1929 1930	1,243 156 131 107	921 126 114 92	2,164 282 245 199	1,005 130 108 86	788 112 100 78	900 121 104 82	10-1 1-1 0-1
Diarrhœa and enteritis.	119	1931 1926 1929 1930 1931	2,451 2,126 2,585 2,356	52 1,867 1,583 1,944 1,648	151 4,318 3,709 4,529 4,004	2,045 2,045 1,759 2,070 1,906	45 1,654 1,382 1,639 1,410	63 1,855 1,576 1,860 1,665	0 18 17 20 19
Hernia, intestinal obstruction	122	1926 1929 1930 1931	68 66 67 42	39 43 36 27	107 109 103 69	57 55 54 34	35 38 30 23	46 46 42 29	0. 0. 0.
Congenital malforma- tions	157	1926 1929 1930	777 762 736	635 562 608	1,412 1,324 1,344	648 630 589	563 491 512	607 562 552	6-1 6-1
Congenital debility	158	1931 1926 1929 1930 1931	737 1,853 1,333 1,195 1,059	580 1,000 989 909 840	1,317 2,353 2,322 2,104 1,899	596 1,129 1,103 957 857	496 886 864 766 719	548 1,011 986 864 790	6-1 9-1 10-1 9-1 9-1
Premature birth	159	1926 1929 1930 1931	2,936 2,545 2,515 2,463	2,147 1,938 2,001 1,862	5,083 4,483 4,516 4,325	2,449 2,105 2,014 1,992	1,902 1,692 1,687 1,593	2,184 1,904 1,855 1,799	21 - 20 - 20 - 20 - 21 - 21 - 21 - 21 -
Injury at birth	160	1926 1929 1930 1931	563 617 723 792	386 381 504 442	949 998 1,227 1,234	470 510 579 641	342 833 425 378	408 424 504 513	4.0 4.0 5.0 6.1
Other diseases peculiar to early infancy	161	1926 1929 1930	885 761 608	622 572 497	1,507 1,333 1,105	738 629 487	551 499 419	647. 566 454	6-5 5-1
Other specified causes	_	1931 1926 1929 1930	881 1,081 959 982	680 779 731 741	1,561 1,860 1,690 1,723	713 902 793 787	582 690 638 625	649 799 718 708	7.5 7.6 7.8 7.9
Ill-defined causes	199, 200	1931 1926 1929 1930	722 103 80 93	546 55 86 79	1,268 158 166 172	584 86 66 74	467 49 75 67	527 68 71 71	6.2 0.7 0.6 0.8
All causes	-	1931 1926 1929 1930 1931	13,537 12,336 12,284 11,667	69 10, 155 9, 338 9, 458 8, 693	153 23,692 21,674 21,742 20,360	68 11,294 10,204 9,839 9,438	59 8,996 8,154 7,972 7,439	64 10,179 9,207 8,929 8,467	0 · 8 100 · 6 100 · 6 180 · 6 100 · 6

30.--Proportion per 1,000 Deaths of Infants Under 1 Year of Age occurring at each Age Period, 1930.

Age at Death.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada.
Under 1 month	469.7	439-7	434-2	424-4	524-9	506-3	536-5			471-8
Under 1 day	98.5		150.8	158.3	207.0			205-9	194.0	177 - 5
1 day and under 1 week 1 week and under 2 weeks	174·2 80·6	178+2 56-6	155·5 56·3		189·0 55·1	185·5 64·7	168·0 61·8		210·0 42·7	159-6 56-1
2 weeks and under 3 weeks		40.6	42.0	40.3	38.4	43.5	46.8		24.9	40.8
3 weeks and under 1 month	68.2	30.9	29-6	39.5	35.4	32.9			40.9	37.3
1 month and under 2 months		105.7	121 - 2	$112 \cdot 2$	84.8	84+1	94-3			101-6
2 months and under 3 months				95.9	67.5	81-2	75.6		60.5	83.0
3 months and under 4 months	68.2	75-8	68.7	67.0		60.9	62·5 45·0		74.7	64.7
4 months and under 5 months 5 months and under 6 months	30-3 37-9	52·3 40·6	62·0	57·7 47·7	49·4 38·4	53·1 36·7	36.2		49.8 44.5	53 · 2 43 · 6
6 months and under 7 months	53.0		27.7	41.9	42.4	36.7	35.6		42.7	39.3
7 months and under 8 months	37.9	43.8	41.0	37.8	35-9	30.9	31.2		28.5	36.2
8 months and under 9 months	30.3	38.4	23 - 9	33.6		30-9	23 · 1	28-5	26.7	31.0
9 months and under 10 months	45.5	85-2	40.1	82.5		28.0			48.0	32-2
10 months and under 11 months	22.7	20.3	23.9	25-9		30.0			14.2	24.0
II months and under I year	22.7	27.7	23.9	23 · 4	14-4	21.3	15.0	12-5	17.8	20.0
Totals	1000 - 0	1000 0	1004 - 0	1000-0	1000-0	1000-0	1000-0	1000-0	1000-0	1000-0

Infantile Mortality in Canadian Cities and Towns.—Table 31 shows for the cities and towns of 10,000 population and over, the numbers of infant deaths and the death rates per 1,000 living births for the years 1928-31. In the latest year Outremont, Que., had the lowest infant death rate, namely, 20-2, with Sydney, 24-9, the next lowest. St. Hyacinthe, Quebec, Three Rivers, Lévis, Sorel, Joliette, Hull, Shawinigan Falls, Timmins and Montreal have all very high infant death rates for 1931, but it is noteworthy that in the cases of St. Hyacinthe, Quebec, Shawinigan Falls and Montreal there is substantial improvement over the preceding year.

31.—Deaths and Death Rates of Children Under One Year of Age (Exclusive of Still-births) in Cities and Towns of 10,000 and Over, 1928-31.

City or Town.		Infant I	Deaths.		Rates per 1000 Living Births.				
	1928.	1929.	1930.	1931.	1928.	1929.	1930.	1931.	
Belleville, Ont	29	26	27	23	78.2	71.0	68-4	54-:	
Brandon, Man	29	29	20	22	69·2	71-4	53 - 5	59.	
Brantford, Ont	45	67	74	39	63.3	94-1	101.1	56.	
Jalgary, Alta	108	115	125	82	61.6	57.3	60.6	43.	
Calgary, Alta	21	34	33	25	76.9	127-8	98-2	67	
Jatham, Unt	40	31	47	40	81.0	65.3	83 - 2	87.	
hicoutimi, Que	69	58	57	49	116.4	104.5	114.5	100	
Cornwall, Ont.	57	39	39	46	156.8	79+3	80.9	100	
East Windsor, Ont	25	25	22	15	72.0	62-0	59-1	49.	
dmonton, Alta	137	161	136	146	63.8	70-9	56.9	60.	
ort William, Ont	52	59	36	50	78.3	91.5	57.8	76	
lat, Ontlace Bay, N.S	18	14	22	14	67.7	49·3 104·9	70·7 128·9	43 · 96 ·	
nace Bay, N.S	73	70	96	67	107 - 2			30	
Franby, Que	22 27	33	32	35	72·6 74·6	98-8 47-4	94·7 56·2	79	
Juelph, Ont.	102	18	23	29 134	71.6	110.7	76.5	81	
Ialifax, N.S	190	161 235	119 187	196	63.2	74.2	55.1	59	
Iamilton, Ont	142	235 117	111	126	142.1	129.1	108-9	127	
oliette, Que	51	43	43	45	137.5	135-6	129.5	181	
Zingston, Ont	44	64	66	46	76.4	103-4	100.2	71-	
Kitchener, Ont	85	47	41	40	46.6	57.9	49.5	47.	
achine, Que	50	30	36	44	107.8	107 8	86.3	ĝġ.	
ethbridge, Alta	34	46	37	49	81.7	94.5	63.7	85	
évis, Que	44	30	29	41	140.6	96.8	93.9	143	
ondon, Ont.	76	84	102	75	52.9	61.6	68.7	51.	
dedicine Hat, Alta		ĭŝ	31	23	87.5	42.1	32.5	57	
Moneton, N.B.	33 37	35	40	25	76-8	62.4	76.2	44.	

31.—Deaths and Death Rates of Children Under One Year of Age (Exclusive of Still-births) in Cities and Towns of 10,000 and Over, 1923-31—concluded.

City or Town.	1928.	1929.	1930.	1931.	1928.	1000	****	
	2.425					1929.	1930.	1931.
one low Seek		2,717	2,635	2,348	144-4	131-8	125-2	114-:
JOODO BATT, DOGERATION, C	. 42	35	40	87	68-1	55-6	67-1	72-7
ew Westminster, B.C	29	28	81	23	54.2	52.1	55.9	39∙
iagara Falls, Ont	34	41	28	26	76-4	81.8	63 - 9	56.
orth Bay, Ont	29	30	47	28	66.7	73.9	112.7	68.
shawa, Ont		47	66	49	68-3	64-6	96.2	80.
ttawa, Ont		354	331	297	106.6	121-1	109-3	97
utremont, Que		10	11	2	73-4	78-7	89-4	20.
wen Sound, Out		17	14	21	48.9	45.2	44.7	62
eterborough, Ont	30	48	47	89	53.8	77.8	73.6	63
ort Arthur, Ont	. 35	55	40	33	62.7	94.5	70-9	65
uebec, Que		624	819	663	173.5	140.0	183.9	148
egina, Sask	84	103	104	71	61.6	67.9	62.5	47
t. Boniface, Man		63	66	62	62.7	70.5	67-3	61
t. Catharines, Ont		37	42	27	87.7	64.9	62-6	48
t. Hyacinthe, Que		43	72	65	158-7	118.8	191.5	175 88
t. Jean, Que	. 28	23	24	28	83.1	75·2	73·6 89·1	
aint John, N.B		133	109	1111	95·1 85·2	58-8	83.9	91
t. Thomas, Out		18	27	22				73 41
andwich, Ont		17	12 22	28	96·3 70·4	81·7 66-0	61·2 48·9	20
arnia, Ont		31	79	52 S	79.4	65.1	64.0	45
askatoon, Sask		74	51	26	60.6	69-2	79-4	40
ault Ste. Marie, Ont		46	82	72	173-5	162.0	125.6	115
hawinigan Falls, Que	122	104	82 84	89		84-4		111
herbrooke, Que		69	62	44	87·6 170·6	225.3	101-0 204-6	139
orel, Que	. 50	66	17	28	47.4	47.7	41.9	71
tratford, Ont	19	18	69	82	117.0	129.2	95.8	98
udbury, Ont	53	73 22	1 09 41	16	72.3	43.8	66.7	24
ydney, N.S		71	65	36	89.4	139.2	122.4	86
hetford Mines, Que			232	229	162.0	166.8	171.9	172
hree Rivers, Que		215	53	61	131.9	127.6	104.7	114
immins, Ont		1 000	1.022	887	72.5	80.3	75.2	69
oronto, Ont		1,002	1,022	31	71.4	102.0	111.8	88
alley field, Que	23	30		157	43.0	41.1	38.2	42
ancouver, B.C.1		159	158		108.7	80.4	71.7	31
erdun, Que	115	88 33	81 37	95 19	48.4	43.8	50.4	27
ictoria, B.C		46	36	32	58.8	73.7	54-5	49
alkerville, Out		20	19	25	93.2	62.9	68.8	82
elland, Ont		20		39	142.9	39.2	120-5	109
estmount, Que	. 6		44	88	64.2	73.8	73.5	70
indsor, Ont		122	111 269	214	61.1	56.2	58.1	48
/innipeg, Man		250 14	259	10	62.2	50·2	55·1	38

^{*}Though Point Grey and South Vancouver were not incorporated into Vancouver until Jan. 1, 1929, their statistics are included in the figures for Vancouver for the year 1928 for comparative purposes.

Infantile Mortality in Various Countries.—The rate of infantile mortality to living births has been greatly reduced in civilized countries by the recent advances in medical science and in sanitation. The low record is held at the present time by New Zealand, where in 1931 the rate of infantile mortality was only $32 \cdot 2$ per 1,000 living births as compared with 68 in 1905. Norway, the Netherlands and Switzerland, with rates of $45 \cdot 6$, $49 \cdot 6$ and $49 \cdot 4$ in the latest available years, were the lowest among European countries.

As showing the improvement in recent years, it may be stated that the rate of infantile mortality in England and Wales has been reduced from 128 per 1,000 living births in 1905 to 66.4 in 1931, while the rate in Germany has declined from 196 in 1904 to 82.8 in 1930. In the Netherlands, again, the rate has declined from 131 per 1,000 living births in 1905 to 49.6 in 1931. Statistics are given in Table 32 by leading countries and by provinces.

32.—Infantile	Mortality	per 1,000	Living	Births in	Various	Countries	of the
		World	in Rece	ent Years.			

Country or Province.	Year.	Rate of Infantile Mortality.	Country or Province.	Year.	Rate of Infantile Mortality.
New Zealand South Australia Queensland. Western Australia New South Wales Victoria. Norway Taymania British Columbia Switzerland Netherlands Sweden. United States (Birth Reg. Area) British Isles Manitoba Union of South Africa (Whites) England and Wales Northern Ireland Prince Edward Island Saskatchewan Irish Free State. Alberta. Ootario. Finland France	1931 1931 1931 1931 1930 1931 1931 1931	32-2 38-4 38-7 41-5-5 41-5-5 41-5-6 41-5-6 41-6 41-6 41-6 41-6 41-6 41-6 41-6 41	Nova Scotia Denmark Scotland Germany Canada New Brunswick Latvia. Prussia Belgium Uroguay Estonia. Austria. Italy Newfoundland Spain Japan Salvador Czechoslovakia Jamaica Egypt Ccylon Costa Rica Hungary British India Roumania. Chile.	1931 1930 1931 1931 1931 1931 1930 1930	78.7 80.0 81.8 82.8 84.4 90.0 97.9 99.5 99.5 100.1 103.6 105.5 109.4 117.1 132.3 137.5 141.0 150.3 162.5 162.9

Infantile Mortality in Great Cities of the World.—In former times cities were considered to be "the graveyards of population". Deaths, consequent upon the rapid spread of infectious diseases, were generally more numerous than births, and it was the prevailing opinion that cities would naturally come to an end if they were not being constantly reinforced by fresh young life from the prolific countryside. The unhealthiness of cities was especially destructive of infant life, and it is one of the greatest triumphs of our time that city life is in our day, if not as healthy, yet not necessarily more dangerous to human nor to infant life than the average living conditions in the country as a whole.

To give particular examples, the rate of infantile mortality in London, England, was 59 per 1,000 living births in 1930, as compared with a rate for England and Wales of 60 per 1,000. In 1930 New York experienced an infantile mortality of 58 per 1,000, as against a rate of 64 per 1,000 for the birth registration area of the United States. Paris, on the other hand, had in 1929 an infantile mortality of 99 per 1,000 living births, as compared with 96 for France. Again, Berlin in 1930 had an infant mortality of 73 per 1,000 living births, as compared with 84 in Germany, and Vienna an infant mortality in 1929 of 79 per 1,000 living births, as compared with 112·3 for Austria in the same year.

In Canada, Montreal had in 1931 an infantile mortality of 114·1 per 1,000 living births as compared with 112·9 for the province of Quebec. Toronto, too, had in 1931 an infantile mortality rate of 69·8 per 1,000 living births as against

69.8 for the province of Ontario, while Winnipeg and Vancouver had much lower infantile mortality rates than their respective provinces. Vancouver, indeed, has one of the lowest infantile mortality rates in the world.

33.—Infantile Mortality per 1,000 Living Births in Great Cities of the World in 1930 or the Most Recent Year.

City.	Year.	Rate of Infantile Mortality.	City.	Year.	Rate of Infantile Mortality.
)slo	1930	35	Sheffield	1930	6
uekland	1930	35	London, Ont	1930	[6
.msterdam	1930	37	Washington	1930	7
ancouver	1930	38	Antwerp	1929	7
Brisbane	1930	39	Berlin	1930	7
Vellington	1930	40	Hamburg	1930	7
tockholm.,	1930	46	Toronto	1930	7
rankfort-on-Main	1930	49	Moneton	1930	1 3
ictoria, B.C	1930	50	Halifax	1930	1 3
iydney, N.S.W	1930	50	Manchester	1930	1 2
felbourne	1930	51	Munich	1930	1 3
erth, W. Australia	1930	51	Vienna	1929] 3
randon	1930	53	Cologne	1930	5
hicago	1930	54	Edinburgh	1930	1 5
delaide	1930	55	Liverpool	1930	1 :
lamilton	1930	55	Leipzig	1930	1
dπιοnton	1930	57	Cork	1929	
lew York	1930	58	Saint John	1930 1930	1
Vinnipeg	1930	58	Breslau	1930	
ondon, Eng	1930	59 60	Johannesburg	1929	
openhagen	1930 1930	61	Prague	1929	1
algary			Paris	1930	i ti
irmingham	1930 1930	61	Glasgow	1930	i i
lobart	1930	63	Ottawa	1930	l ii
degina Askatoon	1930	64	Quebec	1930	i î
askatoonase Town	1930	65	Madras	1929	1 2
Dresden		65	Bombay	1928	1 2

The infant mortality in the cities of Canada has been greatly reduced in the years since the inauguration of Dominion vital statistics. Thus the rate for Toronto has fallen from 90 in 1921 to 70 in 1931, that for Winnipeg from 78 to 48, for Vancouver from 56 to 42, for Hamilton from 88 to 59, for Ottawa from 130 to 97, for London from 92 to 52, for Edmonton from 89 to 61, for Halifax from 135 to 81, for Saint John from 147 to 91. Altogether, in the 13 cities of 40,000 population and over in the former registration area of Canada, there were 41,923 living births in 1921 and 3,833 infant deaths, being a rate of 91 per 1,000 living births. In 1931 in these same cities there were 39,758 living births but only 2,510 infant deaths, or a rate of 63 per 1,000 living births.

Maternal Mortality.—Of cognate interest with infantile mortality is the maternal mortality arising out of child-birth. This maternal mortality is shown by Table 34 to be at its lowest among mothers in their twenties and to increase with mothers of more advanced years. The mortality among mothers of different ages per 1,000 living births in the nine provinces is shown for the years 1926-31, with totals for all ages. The maternal mortality is shown by age groups for 1931 and by totals for earlier years in Table 35, also by causes for 1931 in Table 36.

34.—Maternal Deaths in Canada, by Age Groups, with Rates per 1,000 Living Births, 1926-31.

		<u> </u>		ernal aths.					ernal aths.
Age Group.	Year.	Living Births.	ths. No. Rat No. Dirth		Аде Стоир.	Year.	Living Births.	No.	Rate per 1,000 Living Births.
Under 20 years	1926 1927 1928 1929 1930 1931	13,094 13,669 14,361 14,828 15,341 15,393	58 59 77 79 92 70	4·4 4·3 5·4 5·3 6·0 4·5	40-49 years	1926 1927 1928 1929 1930 1931	15,340 15,329 15,339 14,729 15,097 14,477	175 173 163 180 175 163	11.4 11.3 10.6 12.2 11.6 11.3
20-24 years	1926 1927 1928 1929 1930 1981	54,953 56,317 58,139 59,528 62,427 61,371	247 222 251 234 253 193	4-5 3-9 4-3 3-9 4-1 3-1	50 years and over	1926 1927 1928 1929 1930 1931	25 39 32 31 30 22	2 1 1 - -	
25-29 years	1926 1927 1928 1929 1930	63,345 62,957 63,456 63,943 65,722	256 277 260 282 315	4·0 4·4 4·1 4·4 4·8	Totals		232,75 0 234,188	1,317 1,300	5·7 5·\$
30-39 years	1931 1926 1927 1928	65,866 85,993 85,877 85,430	254 579 568 579	3·9 6·7 6·6 6·8	Totals	1928 1929	236,757 235,415	1,331	5-6 5-7
	1929 1930 1931	82,356 84,878 83,344	566 570 535	6·9 6·7 6·4	Totals	1930 1931	243,495 240,473	1,405 1,215	5-8 5-1

35.—Maternal Deaths in each Province by Age Groups, 1931, with Totals and Rates per 1,000 Living Births for 1926-31 and Averages for 1921-28 and 1926-30.

15-19	10 20 13 - 55	20 13	2 11 7 31 9 -	15 63 90 174 58	21 69 82 158 41	7 7 19 - 29 7	3 13 15 50 12	7 16 8 43 13	6 8 19 24	70 193 254
Totals, 1930. 5 Totals, 1929. 13 Totals, 1928. 11 Totals, 1927. 4 Totals, 1927. 4 Totals, 1926. 8 Average, 1926-30. 8 Average, 1921-25. 9 Rate per 1.000 living births, 1931. 6-9		55	- 64	_				_	, s	534 163 1
Totals, 1929			**	400	372	69	93	87	66	1,215
Average, 1921-25 9 Rate per 1,000 living births, 1931 6-9	76 45 57 76 51	57 76	57 75 58 65 66	463 430 444 403 427	440 368 396 403 881	75 97 74 72 87	112 132 124 114 147	114 123 106 95 85	63 58 61 68 65	1,405 1,841 1,331 1,300 1,317
Rate per 1,000 living births, 1931 6-9	61 70		64 51	433	398 386	81 87	126 127	105 97	63 61	1,339
Average, 1921-25	4.7 6.7 4.2 5.2 6.8	6.7	5 6 5 4 7 3 5 8 6 4 6 2	4553599 5555999 5555999	5.4 6.2 5.4 5.8 6.0 5.6	4.8 5.2 6.8 5.1 5.1 5.9	4.4 5.1 6.2 5.8 5.4 7.1 5.9	5.0 6.3 6.8 6.4 5.9 6.6	6.3 5.6 5.9 6.7 6.1	5-1 5-8 5-7 5-6 5-7 5-7

Yukon and Northwest Territories are not included. 2Quebec was not included in the registration area prior to 1926. Includes one mother under 15 years.

36.-Maternal Deaths in each Province, by Causes of Death, 1931.

Note.-For totals in 1930 and previous years, see Table 35.

										
Cause of Death.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada.
Abortion with septic conditions. (a) Abortion. (b) Self-induced abortion	-	2 1 1	5 5 -	29 28 1	49 41 8	7 6 1	12 8 4	15 15	5	124 108 16
Abortion without mention of sep- tic conditions (hæmorrhage included)	- -	1 1	2 2 -	17 14 3	11 7 4	3 3	4 2 2 5	4 -	7 7	49 40 9
Ectopic gestation (a) With septic conditions (b) Without mention of septic	-	2	-	6 3 3	13 2	5 -	Ĭ	1	5	39 9
conditions Other accidents of pregnancy (hæmorrhage excluded) Puerperal hæmorrhage	I -	2	- -	8 50	11 5 40] 3 3	2 15	- 12	1 4	30 11 137
(a) Placenta prævia	1 -	4	1 5	25 25	22 18	1 4	6 9	8	2 2	62 75
fied as consequent upon abor- tion)	1 4	13	10	131	78	25	20	19	10	810
(b) Puerperal tetanus	-	13	10	131	74	25	20	19	10	306
lampsia. Other toxamias of pregnancy. Puerperal phlegmasia alba dolens, embolism or sudden death		11 2	19 4	75 19	69 18	12 4	15 2	11 10	12 I	929 61
(not specified as septic)	1	10 I	6	43 6	ة 8	5	10	5	10	141 19
(b) Embolism. (c) Sudden death. Other accidents of childbirth. (a) Cæsarean section. (b) Dystocia. (c) Instrumental delivery.	1 1	4 5 7 4 1	3 4 2	14 23 18 1 1 8	29 14 31 16 3	3 1 2 - 1	8 2 7 1 3	2 2 8 2 4 1	7 1 9 2 1	70 52 87 28 21 11
(d) Rupture of uterus in par- turition	1	ī	1 1	2 4	1 7	- 1	1 1	ī	5	5 22
the puerperal state	- 1	1	4	9 -	7	1 -	1 1	2	2	27 1
(b) Others under this title		11	4	9	7	1	<u> -</u>	2	2	26
Totals	13	55	69	400	372	69	98	87	66	1,215

As compared with the previous year, the number of maternal deaths shows a decrease of 190 or about 13 p.c. All provinces except Prince Edward Island, New Brunswick and British Columbia show substantial decreases compared with 1930. In fact, for the first time since 1921, when statistics covered the provinces other than Quebec, and since 1926, when figures were made available for all provinces, a significant decrease of such deaths is shown. An analysis by causes is not possible, since the 1929 "Revision of the International List of Causes" was used in 1931 and comparability with previous years has thereby been disturbed.

CHAPTER VI.—IMMIGRATION.

While the great majority of French-Canadians can trace their descent to ancestors who left the Old World 250 years ago or even longer, most English-speaking Canadians are comparative newcomers both to Canada and to this continent, though a considerable number of the United Empire Loyalist families had been resident in the old colonies for generations before they moved north to establish English-speaking settlements in what is now the Dominion of Canada. During the middle third of the nineteenth century a great English-speaking migration entered the province of Ontario and made it for the first time more populous than the sister province of Quebec, thus bringing about the agitation for representation by population. Thereafter immigration slackened until the dawn of the twentieth century brought another flood of settlers to the newly opened territories of the great Northwest, resulting in an increase of population between the censuses of 1901 and 1911 greater than the combined increase of the three decades from 1871 to 1901.

Immigration during the second decade of the twentieth century promised at its commencement to be even greater than during the first. In its first three years no fewer than 1,141,547 persons entered Canada for purposes of settlement, but the Great War, which commenced for Canada on Aug. 4, 1914, dried up the sources of our immigration in Great Britain and Continental Europe, where every ablebodied man was needed for the defence of his country. Immigrant arrivals from the United Kingdom in 1918 numbered only about 3,000, as compared with 150,000 in 1913; immigrant arrivals from Continental Europe numbered less than 3,000 in 1916, as compared with approximately 135,000 in 1914. Since the War, immigration to the Dominion has never approached that of the pre-war period.

Section 1.—Statistics of Immigration.

Immigration to Canada, as to other new countries, is generally greatest in "boom" periods, when capital as well as labour is leaving the older countries for the newer in order to secure the more remunerative investments generally to be found in virgin territories where the natural resources are still unexploited. In periods of depression, however, the sending abroad of both capital and labour is diminished, both preferring at such times to endure the ills which they know at home rather than take the risks of a new adventure at a distance. Indeed, the depression which began about the close of 1929, with its accompanying unemployment and unsold surplus of farm products, raised the question whether it was desirable that Canada should accept immigrants in any considerable number. Therefore the Government, on Aug. 14, 1930, passed an Order in Council whereby immigrants, except Britishers coming from the Mother Country or self-governing Dominions and United States citizens coming from the United States, were allowed to come in only if they belonged to one of two classes—(a) wives and unmarried children under eighteen years of age, joining family heads established in Canada and in a position to look after their dependants; (b) agriculturists with sufficient money to begin farming in Canada. This limitation applies to the whole continent of Europe as well as to many other countries. Regulations affecting immigration from the British Isles, the British Dominions or the United States have not been changed but a policy of no solicitation has been rigidly adopted. In harmony with

this policy the Department of Immigration and Colonization during 1931 closed all its Canadian Government Information Bureaus in the United States and reduced its representation in the British Isles.

For many years the Immigration Regulations have contained a general provision that immigrants coming to Canada must have sufficient funds to look after themselves until employment is secured. Naturally, when employment is readily available a sum would be considered sufficient which would be insufficient in periods of unemployment, and the enforcement of this regulation is an important factor in reducing immigration at the present time. There is also in effect an Order in Council (Aug. 7, 1929), prohibiting the landing in Canada of any immigrant coming under contract or agreement, expressed or implied, to perform labour or service of any kind in Canada, but this regulation does not apply to farmers, farm labourers, or houseworkers. Under the Order, the Minister of Immigration and Colonization may admit any contract labourer if satisfied that his labour or service is required in Canada.

The relationship of prosperity and adversity to immigration is illustrated by Table 2, which shows that during the past thirty-five years immigration was at its minimum in the year of deepest depression, 1897; that it steadily increased from that time until 1908; that a decline took place in the fiscal year ended Mar. 31, 1909, on account of the short depression of 1908; and that thereafter immigration steadily increased till 1913. In the fiscal years 1915 to 1919, political rather than economic conditions restricted immigration but, with the expansion of business at the end of the War, our immigration was more than doubled, while the depression which characterized 1921 and 1922 is reflected in the declining immigration of the fiscal years ended Mar. 31, 1922 and 1923. An improvement in business conditions in 1923 was reflected in an increase of immigration during the fiscal year ended Mar. 31, 1924, when 148,560 settlers entered Canada as compared with less than half that number in the preceding year. The fiscal years ended Mar. 31, 1925 and 1926, showed declines of 24.4 and 35.3 p.c. respectively from the 1924 level, but the fiscal years ended 1927 to 1929 showed increases in harmony with the general upward trend of business. The fiscal year ended Mar. 31, 1930, showed a slight falling off, and the restrictions on immigration imposed since August, 1930, referred to on p. 185, have been mainly instrumental in reducing the total of immigrant arrivals from 163,288 in 1930 to 88,223 and 25,752 for the fiscal years 1931 and 1932 respectively.

The number of immigrant settlers in Canada is shown by calendar years from 1867 to 1880 in Table 1, and the number of immigrant arrivals in Canada from the United Kingdom, the United States and other countries, is given by years from 1881 in Table 2.

Number of Immigrants settling in Canada in each of the calendar years 1867-1889.
 (Compiled from the Reports of the Minister of Agriculture.)

Year.	Number.	Year.	Number.	
1867 	14,666 12,765 18,630 24,706 27,773 36,578 50,050	1874 1875 1876 1876 1877 1877 1878 1879	39, 373 27, 382 25, 633 27, 082 29, 807 40, 492 38, 505	

Number of Immigrant Arrivals in Canada from the United Kingdom, the United States and other Countries, calendar or fiscal years ended 1881-1932.

Nors.—See table on page 145 for estimate of the movement of population between the censuses of 1901 and 1921.

Calendar or	Immi	grant Arı irom→	rivals		Fiscal	Immi	igrant Ar from—	rivals	
Fiscal Year.	United King- dom.	United States.1	Other Coun- tries.	Total.1	Year.	United King- dom.	United States.1	Other Coun- tries.	Total.1
1881*. 1882*. 1884*. 1884*. 1885*. 1886*. 1887*. 1886*. 1890*. 1891*. 1892*. 1894*. 1895*. 1895*. 1896*. 1896*. 1896*. 1896*. 1896*. 1896*. 1896*. 1896*. 1896*. 1896*.	45, 439 81, 787 18, 591 23, 507 81, 194 30, 852 19, 334 21, 793 22, 042 22, 056 20, 071 16, 004 14, 954 11, 173 11, 173 11, 173 11, 173 11, 173 11, 792	21, 822 78, 508 65, 865 77, 506 40, 650 41, 946 67, 996 67, 996 52, 516 	9, 1363 12, 8033 9, 6777 6, 1511 4, 995 12, 962 4, 938 7, 607 9, 5825 3, 334 4, 451 11, 608 21, 938 10, 211 11, 608 21, 732 23, 732 33, 732 34, 783	47, 991 112, 458 133, 624 103, 624 179, 169 69, 152 88, 766 91, 660 91, 660 92, 633 20, 829 18, 790 16, 835 31, 900 44, 543 23, 895 44, 526 67, 379 128, 364 130, 334	1908 1909 19109 1911 1911 1912 1913 1914 1916 1916 1917 1918 1919 1921 1922 1923 1924 1925 1926 1927 1928	123, 013 138, 121 150, 542 142, 622 143, 632 43, 26 8, 282 3, 178 59, 903 74, 902 34, 508 77, 930 34, 508 77, 930 58, 880 64, 982	34, 659, 832, 103, 798, 121, 481, 133, 710, 139, 009, 107, 530, 59, 779, 61, 389, 716, 48, 059, 29, 345, 788, 778, 25, 007, 30, 527, 527, 527, 527, 527, 527, 527, 527	34, 217 34, 175 34, 175 34, 175 45, 206 82, 406 112, 881 134, 734 41, 734 41, 734 41, 734 55, 703 76, 156 21, 634 40, 256 40, 256 40, 256 76, 78, 282 77, 78, 282 78, 282 78, 284 78, br>784 784 784 784 784 784 784 784 7	124,667 1262,469 146,908 208,794 354,237 402,432 384,878 144,789 148,537 75,374 75,702 117,366 148,477 89,099 111,382 96,064 111,597 107,288
1905	65,359 86,796	43,543 57,796	37,364 44,472	146,266 189,064		27,584 7,088	24,280 14,297	36,359 4,367	88,223 25,752

¹The figures of immigration from the United States for the years 1881 to 1891 do not distinguish between immigrants and non-immigrants. As the U.S.-born population of Canada, according to the census, increased only from 77,753 to 80,915 between 1881 and 1891, it would appear that the number of permanent immigrants from the United States in these years must have been comparatively small. No statistics of immigrants from the U.S. were collected for the years 1892 to 1896. "Calendar year. 'Six mouths, January to June, inclusive. 'Nine months ended March 31.

Sex and Conjugal Condition of Immigrants.—As shown by Table 3, the 25,752 immigrants who came to Canada in the fiscal year ended Mar. 31, 1932, included 11,988 males and 13,764 females, males constituting only 46.5 p.c. of the total. Male immigrants normally exceed female immigrants as is shown in Table 4.

3.—Sex and Conjugal Condition of Immigrants into Canada, by Age Groups, fiscal year ended Mar. 31, 1932.

Age Group in			Male.					Female.		
Years.	Single.	Mar- ried.	Widow- ed.	Di- vorced	Total.	Single.	Mar- ried.	Widow- ed.	Di- vorced.	Total.
0- 4 15-19 20-24 25-29 30-39 40-49 50 and over	4,270 1,388 761 620 473 184 112	- 9 1 60 493 1,340 1,035	22 38	- 4 21 17 23	1,274	794 637 496 427 166	164 1,012 1,420 2,094 920 601	6 15 73 136	- 3 10 30 18 16	1,240
Totals	7,808	3,852	263	6 5	11,989	6,761	6,211	715	77	13,761

4.—Sex	Distribution	of	Limigrants	23	Adult	Males,	Adult	Females	and	Children,
	fiscal years ended Mar. 31, 1911–32.									

Fiscal Year.	Adult Males.	Adult Fe- males.	Child- ren under 14.	Total.	Fiscal Year.	Adult Males.	Adult Fe- males.	Child- ren under 14.	Total.
1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921	238,779 224,348 74,143 23,139 43,074	82,922 95,168 94,028 41,990 15,478 19,537 17,775 18,594 50,006	28,656 9,920 12,763 13,802 13,266	144,789 48,537 75,374 79,074 57,702 117,336	1923 1924 1925 1926 1927 1928 1929 1930	74,062	34,294 26,611 33,277 36,978 38,987 47,534	14,845 22,169 21,590 22,490 30,202 32,415 33,924 41,692 25,129	143,991 151,597 167,722 163,288 88,223

^{1&}quot;Children" since 1926 includes all under 18 years of age.

Racial Origins of Immigrants.—Where there is any considerable immigration into a democratic country, the racial and linguistic composition of the immigrants is of great importance. Canadians prefer that settlers should be of a readily assimilable type, already identified by race or language with one or other of the two great races now inhabiting this country and prepared for the duties of Canadian citizenship. Since the French are not, to any great extent, an emigrating people, this means in practice that the great bulk of the preferable settlers are those who speak the English language—those coming from the United Kingdom or the United Next in order of readiness of assimilation are the Scandinavians, Dutch and Germans, who readily learn English and are already acquainted with the working of democratic institutions. Settlers from Southern and Eastern Europe. however desirable from a purely economic point of view, are less readily assimilated, and the Canadianizing of the people who have come to Canada from these regions in the present century is a problem both in the agricultural Prairie Provinces and in the cities of the East. Less assimilable still, are those who come to Canada from the Orient. On the whole the great bulk of Canadian immigration of the past generation has been drawn from the English-speaking countries and from those continental European countries where the population is ethnically nearly related to the British, though for some years there was an increasing immigration of Slavs.

The racial origins of the immigrants who arrived in Canada in the fiscal years ended Mar. 31, 1931 and 1932 are shown in Table 5. In the latter year the British races contributed 59 p.c. of the immigrants, French 11 p.c., and Germans 9 p.c.

5.—Racial Origins of Immigrants into Canada, arriving via Ocean Ports and from the United States, fiscal years ended Mar. 31, 1931 and 1932.

		1931		1932.				
Racial Origin.	Via Ocean Ports.	From U.S.	Total.	Via Ocean Ports.	From U.S.	Total.		
British Races— English		7,498 2,904 2,917 231	22,160 7,137 10,789 1,048	4,275 791 1,843 179	4,525 1,716 1,732 147	8,800 2,507 3,875 326		
Totals, British	27,584	13,550	41,134	7,088	8,120	15,208		

5.—Racial Origins of Immigrants into Canada, arriving via Ocean Ports and from the United States, fiscal years ended Mar. 31, 1931 and 1932—concluded.

n. 13613		1931,			1932.	
Racial Origin.	Via Ocean Ports.	From U.S.	Total.	Via Ocean Ports.	From U.S.	Total.
Continental European Races—						
Albanian Belgian Bohemian Bulgarian Croatian Czech	25 255 11 295 482 225	1 105 57 - 2 8	26 360 68 295 484 233	5 47 - 15 106 69	31 21 3 5	5 78 21 18 111 78
Dalmatian Dutch Estonian Finnish French German Greek Italian Jewish	344 63 2,297 347 7,840 388 1,007 2,908	444 2 57 4,391 2,741 48 228 513	788 2,354 4,738 10,581 436 1,235 3,421	33 6 92 87 727 20 414 202	236 1 38 2,734 1,532 43 166 447	269 7 130 2, 821 2, 259 63 580 649
Lettish Lithuanian Magyar Maltese Mexican Montenegrin Moravian Polish Portuguese	466 2,401 13 - 3 2 3,997 5	1 11 71 6 - 226 10	29 477 2,472 19 3 2 4,223	45 397 5 - - 554 2	2 5 41 - 1 103 2	50 438 5 1 - 1 657 4
Roumanian. Russian Ruthenian Scandina vian Danish Icelandic	179 879 6,413 820 25	44 97 78 184 17	223 976 6,491 1,004 42	22 74 502 53	15 32 38 87 10	37 106 540 140 10
Norwegian Swedish Serbian Slovak Spanish Spanish American	740 730 140 1,957 8	645 366 18 32 26	1,385 1,096 158 1,989	70 79 31 337 9	171 195 16 9 11	241 274 47 346 20 2
Swise. Turkish Yugoslav	211 7 364	83 27	294 7 391	24 : 1 57	28 1 9	52 2 66
Totals, Continental European Races	35,876	10,540	46,416	4,091	6,043	10,134
Non-European Races—						·
American Indian Arabian Armenian Chinese	- 2 21	8 1 -	8 2 22	- 4	34 1	34 5
East Indian races	80 204 120 2	1 158	80 205 278 2	47 195 15	- 83	47 195 98
Syrian	483	190	76 673	276	18	410
Grand Totals	483 63,543	24,250	88,223	11,455	14,297	25,752

^{3&}quot;German" includes Austrian.

Languages of Immigrants.—The languages of immigrants 10 years old and over, arriving via ocean ports and from the United States, are shown for the fiscal years ended Mar. 31, 1931 and 1932, in Table 6. English-speaking immigrants constituted 78 p.c. of the total in 1932, French-speaking immigrants 5 p.c. and German speaking immigrants 3 p.c.

6.—Languages of Immigrants Ten Years Old and Over, arriving via Ocean Ports and from the United States, fiscal years ended Mar. 31, 1931 and 1932.

T		1931.			1932.	
Language.	Via Ocean Ports.	From U.S.	Total.	Via Ocean Ports.	From U.S.	Total.
English	24,216 407 6,481	16,064 1,269 204	40,280 1,676 6,685	6,065 74 450	8,679 869 138	14,744 943 588
Jerman Vorwegian Swedish Danish	643 694 721	35 35 26	678 729 747	46 53 36	17 32 6	85 81 41
Celandic	19 160 269	1 46 22	20 206 291	22 22 22	3 10 15	3: 3: 6:
finnish. Estonian. Lettish	2,089 51 27	19 2 -	2,108 53 27	50 4 1	17 1 2	
ithuanian Russian Tebrew	432 940 1,231	4 21 113	436 961 1,344	25 45 85	1 8 147	2 5 23
Ruthenian Russniak)krainian	3,820	18 62	3,838 5,125	191 404	12 32	20 43
Polish	5,063 189 83 1,714	13 13 1 13	202 84 1,727	24 6 207	7 6	43 3 21
Troat (Serbian)	727 1,883	13 26	749 1,909	100 225	5 21 -	10 24
talian panish Portuguese	788 14 1	73 5	168 11 1	304 11 1	69 5	37. 1
Greek Albanian Curkish	352 19 5	23 1 -	375 20 5	18 4 1	32 - - 4	5- - 1-
Sulgarian	301 - 184 70	-	301 - 184 70	12 - 185 42	- - -	18 18
East IndianArmenian (Aramaic) Syrian (Arabic)	28 37	7	23 44	2 5	7	1
Totals	53,653	18,116	71,769	8,720	10,146	18,86

Nationalities of Immigrants.—In the latest fiscal year, ended Mar. 31, 1932, British subjects immigrating to Canada numbered 9,147 and American citizens 12,325, or together over 83 p.c. of the total number of immigrants shown in Table 7. Immigrants of Polish nationality ranked third with 1,234 or nearby 5 p.c.

7.—Nationalities of Immigrants, arriving via Ocean Ports and from the United States, fiscal years ended Mar. 31, 1931 and 1932.

United States	Nationality.	Via Ocean Ports.	From U.S.	Total.	Via Ocean Ports.	From U.S.	Total.
Persian.	Juited States Mexican Geuadorian Argentinian Trasilian Lilian Jolombian Jenezuelan Peruvian Juguayan Juban Porto Rican Austrian Selgian Jugarian Jechoslovakian Jenes Jerman Jerek Dutch Jugarian Jerek Jugarian Janish Janish Jelanian Jugarian Jug	28,144 42 2 15,15 11 14 398 2909 2,649 2,551 253 3,548 321 2,132 955 1,676 13,870 2,098 886 837 26 723 469 292 4 25 11 11 11 11 12 13 13 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	U.S. 2,938 20,723 8 1 3 1 - 4 4 5 15 12 29 8 3 7 6 6 3 6 3 7 7 4 2 4 9 19 2 2 3 1 1 - 1 5	31, 082 20, 765 10 11 18 2 15 - 428 335 239 2, 664 2, 563 3, 683 3, 683	7, 332 48 -1 11 21 -1 11 -2 -49 45 12 12 13 13 14 15 15 16 17 17 17 17 17 17 17 17 17 17 2 4 6 6 6 6 6 6 6 6 6 7 1 1 1 1 1 1 1 1 1 1	1,815 12,277 12,277 12,277 12 12 12 12 12 12 13 14 10 10 10 10 10 10 10 11 11 11 11 11 11	9,14 12,32 66 44 11,51:10 68 38 22:33 35:41:123 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:15 1,23:1

Countries of Birth of Immigrants.—In Table 8 will be found the countries of birth of the immigrants into Canada in the latest two fiscal years. The figures show that the United States was the birthplace of more of our 1932 immigrants than any other single country, with 10,835. England came second with 4,644, Scotland third with 2,207 and Poland fourth with 1,304.

8.—Countries of Birth of Immigrants, arriving via Ocean Ports and from the United States, fiscal years ended Mar. 31, 1931 and 1932.

Country of Birth		1931.			1932.	
Country of Birth.	Via Ocean Ports.	From U.S.	Total,	Via Ocean Ports.	From U.S.	Total.
Canada	12	1,468	1.480	7	1.048	1,655
CanadaUnited States	209 13,174 1,299 2,758 7,747	18,430 1,594	18,639 14,768	103	1,048 10,732 1,017	1,055 10,835
England	13,174	1,594 148	14,768 1,447	3,627 224	1,017 [4,644 332
England Ireland (Free State) Ireland (Northern)	2.758	154	2,912	489	88	577
Scotland	7,747	873	8,620	1.749	458	2,207
Wales	989	78	1,067	219	41	260
Lesser British Isles Newfoundland	67 755	12 68	79 823	27 354	32	34 386
St. Pierre and Miquelon	'4	V-	4	4	-	4
Mexico	7	8	15	1	8	4 6
Central America	15	8 2 5	17 21	5 10 10 1	1 1	6 11
ArgentinaBrazil	16	ı ı	5	1 13	4	17
Chile	13	2	15	5	-1	17 5
Guiana, British	36	2 3 7	39	11	1 3	12
Other South America	13 167	17	20 184	9 54	13	12 12 67
West Indies (not Br.)	111	ió	21	13	- 3	16
Austria	412	78	490	57	29	86
Rolgium	301	73	374	54	14	68 12
Bulgaria Czechoslovakia Finland	146 2,586	28	146 ¹ 2,614	10 499	10	509
Finland	2,533	26	2,559	799	15	114
France	295	46	341	76	19	95
Germany	3,288	168	3,456	351 22	77	428 55
Greece	513 300	24 30	537 330	25	33 16	41
Greece. Holland. Hungary. Italy Yugoslavia. Poland.	2.128	27	2, 155	352	25	377
Italy	986	65	1,051	405	60	465
Yugoslavia	1,683	16 128	1,699 14,035	277 1,219	6 85	283 1,304
Poland	18,907	126	14,033	1,218	~	1,00
Danzig	2,114	56	2,170	175	27	202
Russia. Denmark	1,156	179	1,335	64	116	180 64
Denmark	818 27	62 1 8	880 35	51	13	3
IcelandNorway	725	117	842	70	32	102
SwedenSwitzerland	395	91	486	49	43	92
Switzerland	283	32	315	25	15	6 4.
UkraineAlbanja	41 24	1 1	25 25	[š	-	ě
Estonia	l 81 l	2	42 25 83	7	1 3 9	
LatviaLithuania	91	2 2 6 7	93	13	3	16
Lithuania	649 17	6	655 24	71 4	i	Ŷ
MaltaPortugal	1 11	- 1] [2]	1	102 92 40 16 80
Spain	1 6 i	2	8] [3]	4	7
Other European countries.	ا بر ا	3	40	1 1	1	9
including Luxemburg	196	27	46 223	افعا	34	98
New Yealand	1 101 1	19	120	59 27	4	31
Africa (Br.)	97	20	117	41	4 1	46
Africa (not Br.)	17 29	3 1	20 30	10	1	1
		_	6	¶ 11	-	- i
China. India (Br.). Japan.	39	5	44	24	3 7	20 20 20 20 20
India (Br.)	239	18	257 221	131 199	7 4	133
Japan,	216	5	221 3	1 199	_	200
Syria	44	9	53	ıi	10	2 10
Turkey Other countries (Br.)	55		59	7	3 2	10 10
Other countries (Br.)	35 21	4 6	39 27	14 8	4	11
Other countries (not Pr.) Born at sea	21	ĭ	1 1		ĭ	1
						
Totals	63,943	24,280	88,223	11,455	14,297	25,76

Ports of Arrival of Immigrants.—Throughout the greater part of our history, Quebec has been the port at which the greatest number of our immigrants have landed. In the past ten years, up to 1932, there was a great increase in the percentage of immigrants arriving at the port of Halifax. This would appear to be due to increasing immigration in the early spring months before the St. Lawrence is open for traffic. Figures for recent years are given in Table 9.

 Immigrants Arriving in Canada, by Chief Ports of Arrival, fiscal years ended Mar. 31, 1926-32.

Port.	1926,	1927.	1928,	1929.	1930.	1931.	1932.
Quebec. Saint John Halifax. North Sydney. Sydney. Montreal. Vancouver. Victoria. New York. Boston. Other ports. From the United States.	40, 963 12, 245 20, 490 435 5 144 1, 333 861 1, 163 26 121 18, 778	63,792 16,889 37,677 712 89 192 1,220 47 433 21,025	64,392 14,176 43,072 832 7 272 1,386 475 1,641 218 119 25,007	74, 653 13, 946 44, 936 1, 173 15 340 1, 115 422 1, 397 16 49 30, 560	70, 688 14, 631 42, 584 1, 176 17 516 1, 038 229 1, 607 23 52 30, 727	34,114 5,793 20,809 533 15 218 791 232 1,386 6 41 24,280	6, 932 892 2, 324 281 13 136 361 125 85) 2
Totals	96,061	143,991	151,597	167,722	163,238	88,223	25,752

Destinations of Immigrants.—The immediate destinations of the immigrants arriving in Canada are given for the years from 1901 to 1932 in Table 10, which may be compared with the census tables on pp. 102 and 103 showing the increase of population in the decades between 1901 and 1931.

While immigration to the Maritime Provinces during the first 32 years of the twentieth century was comparatively small, totalling 211,147, that to Quebec and Ontario was very large. From 1905 to 1928 Ontario received a larger number of immigrants annually than any other province of the Dominion, while Manitoba was usually second in this respect. In 1929 immigration to Manitoba exceeded that to Ontario by 10,000 persons, but in 1930, 1931 and 1932 the positions were again reversed. The immigration to Eastern Canada (Maritime Provinces, Quebec and Ontario) has almost equalled that to Western Canada (Manitoba, Saskatchewan, Alberta and British Columbia) in the 32-year period.

10.—Destinations of Immigrants into Canada, by Provinces, fiscal years ended June 30, 1901-06, and Mar. 31, 1907-32.

Fiscal Year.	Mari- time Prov- inces.	Quebec	Ontario.	Mani- toba.	Sask- atche- wan.	Alberta.	British Colum- bia and Yukon	Not Shown.	Total.
1901 1902 1903 1904 1905 1806 1907 (9 months) 1909 1909	2, 144 2, 312 5, 821 5, 448 4, 128 6, 381 6, 510 10, 360 6, 517 10, 644 13, 236	8,817 17,040 20,222 23,666 25,212 18,319 44,157 19,733 28,524	9,798 14,854 21,266 35,811 52,746 32,654 75,133 29,265 46,129	17.422- 39.535 34.911 35.387 35.648 20.278 39.789 19.702 21.049	22, 43, 40, 39, 28,728 15,307 30,590 22,146 29,218	17,559 21,477 27,651 42,509	13,650 30,768 21,862 30,721	1,093 1,977 1,766 395 195 32	49, 149 67, 379 128, 364 130, 364 146, 266 189, 064 124, 667 262, 469 146, 908 408, 794 314, 084

10.—Destinations of Immigrants into Canada, by Provinces, fiscal years ended June 30, 1961-66, and Mar. 31, 1967-32—concluded.

Fiscal Year.	Mari- time Prov- inces.	Quebec.	Ontario.	Mani- toba.	Sask- atche- wan.	Alberta.	British Colum- bia and Yukon	Not Shown	Total.
1912 1913 1914 1915 1916 1917 1918 1919 1920 1920 1922 1922 1922 1923 1924 1925 1926 1927 1928 1929 1930 1930 1940 1950 1960 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970	15, 973 19, 806 16, 730 11, 104 5, 981 5, 710 5, 524 3, 288 3, 222 3, 288 3, 282 3, 283 3, 153 3, 74 4, 963 4, 950 3, 74 4, 950 2, 462	64,835 80,368 31,053 8,274 10,930 9,056 6,772 13,102 13,724 9,343 19,979 11,367 16,279 11,367 18,469 18,659 23,917 16,239	122, 798 123, 792 44, 873 14, 743 26, 078 23, 754 13, 826 63, 574 63, 574 65, 592 29, 293 40, 662 47, 656 47, 656 59, 574 33, 652	43, 477 43, 813 41, 640 13, 196 3, 487 5, 247 6, 247 6, 237 21, 451 11, 772 21, 451 11, 772 36, 739 43, 596 17, 554 17, 524	9,894 8,186 13,200 14,041 13,816 20,085 15,331 14,789	48,073 43,741 18,263 7,215 12,418 16,821 11,640 17,781 11,825 8,798 10,430 10,952 12,540 16,343 16,243 16,243 16,243 16,243 16,243	5, 117 5, 559 8, 190 13, 686 14, 630 7, 840 6, 781 10, 280 9, 253 8, 212 10, 410 9, 891 8, 652 9, 333 5, 551		354, 237 402, 432 384, 878 144, 789 48, 537 75, 374 57, 702 117, 336 148, 477 89, 999 72, 887 148, 563 111, 362 96, 064 143, 991 167, 722 163, 288 88, 223 28, 782
Totals	211,147	724,666	1,419,866	758,540	1,22	4, 383	484,760	13,329	4,836,750

¹ Includes immigrants destined for the Northwest Territories: 3 in 1927, 39 in 1928, 1 in 1929, 8 in 1930, 3 in 1931 and 11 in 1932.

Occupations of Immigrant Arrivals.—The settlers most universally acceptable to Canadians are those who settle on the land or those females who enter domestic service. In Table 11 will be found statistics of the occupations of immigrants arriving in Canada during the fiscal years ended Mar. 31, 1931 and 1932.

11.—Occupations and Destinations of Immigrants Arriving in Canada, fiscal years ended Mar. 31, 1931 and 1932.

						
		1931.			1932.	
Occupation.	Via Ocean Ports.	From the United States.	Total.	Via Ocean Ports.	From the United States.	Total.
Farmers and Farm Labourers—						
Men	16,702	3,347	20,049	643	1,196	1,839
Women	2,879	1,026	3,905	256	542	798
Children	6,612	1,491	8,103	1,063	737	1,800
General Labourers—		1 1			1 1	
Men	2,649	699	3,348	311	321	632
Women	517	186	703	65	84	149
Children	1.053	194	1.247	159	87	246
Mechanics—	-				1	
Меп	3.016	2.048	5,064	426	802	1,228
Women	1,017	625	1.642	148	296	444
Children	754	1 411	1.165	83	204	287
Clerks, Traders, etc.—		1	.,	1 ''	1 1	
Men	1.538	1,799	8.337	338	1.139	1,477
Women	868	795	1,663	183	466	649
Children	462	428	890	84	254	338
Miners			VV .	· ·		
Men	136	47	183	24	37 [61
Women	14	"5	119	6	1 41	10
Children	15	اة ا	21	ĺž	8	10
Domestics—	10	I * 1	21	ı -	↓ ~ [
Domestics 18 years and over	9,229	594	9.823	993	279	1.272
" under 18 years		42	1,013	192	iji	211
duriet to hears	, 911	1 40 1	1,010	102		

11.—Occupations and Destinations of Immigrants Arriving in Canada, fiscal years ended Mar. 31, 1931 and 1932—concluded.

		1931.			1932.	
Occupation.	Vía Ocean Ports.	From the United States.	Total.	Via Ocean Porta.	From the United States.	Total.
Not Classified— Men Women Children. Totals— Men Women ¹ . Children. Totals.	954	1,882	2,336	400	1,027	1, 427
	7,228	3,794	11,022	2,998	2,813	5, 811
	7,329	5,361	12,690	3,081	3,982	7, 063
	24,995	9,322	34,317	2,142	4,522	6, 664
	21,752	7,025	28,777	4,649	4,484	9, 133
	17,196	7,933	25,129	4,664	5,291	9, 955
Destinations— Maritime Provinces Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia. Yukon and N.W.T. Not given.	2,209	24,289	3,704	11,455	14,297	25,752
	11,571	1,495	16,290	1,123	1,339	2,462
	22,330	4,719	33,652	1,983	3,123	5,106
	16,670	11,322	17,524	4,855	6,648	11,503
	3,407	854	5,057	576	446	1,022
	3,965	1,650	6,441	662	515	1,177
	3,786	2,476	5,540	978	1,063	2,041
	4	1,754	14	1,266	1,151	2,417

Uncludes domestics under 18 years of age.

Prohibited Immigrants.—The following is a summary of the classes whose admission to Canada is prohibited under the existing regulations. These regulations, however, do not apply to Canadian citizens or persons having Canadian domicile:—1

(1) Imbeciles, feebleminded persons, epileptics, insane persons, persons of constitutional psychopathic inferiority, persons suffering from chronic alcoholism and those mentally defective to such a degree as to affect their ability to earn a living.

(2) Persons afflicted with tuberculosis or with any loathsome, contagious or infectious disease or a disease which may be dangerous to public health; immigrants who are dumb, blind or otherwise physically defective.

(3) Prostitutes and women and girls coming to Canada for any immoral purpose, pimps, procurers and persons who have been convicted of any crime involving moral turpitude.

(4) Professional beggars or vagrants, charity-aided immigrants and per-

sons who are likely to become public charges.

(5) Anarchists, persons who disbelieve in or are opposed to organized government or who belong to any organization teaching disbelief in or opposition to organized government, persons who have been guilty of espionage or high treason and persons who have been deported from Canada.

(6) Persons over fifteen years of age unable to read. The literacy test. however, does not apply to a father or grandfather over 55 years of age, or to a wife, mother, grandmother or unmarried daughter or widowed daughter.

The Immigration Act provides for the rejection and deportation of immigrants belonging to the prohibited classes, and also for the deportation of those who become undesirables within five years after legal entry.

The operation of the above regulations is illustrated in Tables 12 and 13, which give the numbers of immigrants rejected or deported after admission, the causes of such rejection or deportation, and the nationalities of those deported, for each of the 11 fiscal years ended 1922 to 1932, together with the totals for the 19 fiscal years 1903-21 and the 30 fiscal years from 1903 to 1932 inclusive.

¹ See also pp. 185 and 186.

12.—Rejections of Immigrants upon Arrival at Ocean Ports, by Principal Causes and Nationalities, fiscal years ended 1903-32, with Totals 1903-21 and 1903-32.

Item.	1903 to 1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929,	1930.	1931.	1932.	Total.
By Causes— Medical causes Civil causes	5,094 9,080	60 1,023	37 595	130 862	8 3 948	40 226	95 594	104 215	94 266	78 243	39 444	26 298	5,880 14,794
Totals	14,174	1,083	 632	992	1,031	266	639	319	369	321	483	324	21,674
By Nationalities- British United States Other countries	1,967 298	153 7 923	4	187 6 79 9	199 11 821	109 157	209 5 475	150 2 167	3	160 8 153	- 6	4	354

13.—Deportations of Immigrants after Admission, by Principal Causes and by Nationalities, fiscal years ended 1983-32, with Totals 1983-21 and 1983-32.

Item.	1903 to 1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1981.	1932.	Total.
By Causes— Medical causes. Public charges. Criminality Other civil	3,914 5,741 3,899	313 950 630	679	649 775 511	420 543 520	410 506 453	470 354 447	519 430 426	650 444 441	600 2,106 591	789 2,245 868		9,713 19,280 10,335
Accompanying deported persons	1,142 307	105 48		93 78	58 145	189 158	149 165	257 254	194 235	107 559	200 274		_,
Totals	15,003	2,046	1,632	2,100	1,686	1,716	1,585	1,886	1,964	3,963	4,376	7,025	44,988
By Nationalities- British United States Other countries	7,589 4,387	1,107 725 214	888 520 224	1,377 417 312	985 321 380	899 330 487	851	297	1,083 294 587	2,983 228 752	3,099 279 998	260	26, 113 8, 409 10, 466

Juvenile Immigrants.—Among the most generally acceptable immigrants are the juveniles of both sexes, many of whom have been trained by highly accredited British organizations for Canadian life before coming to Canada, the boys being taught the lighter branches of farm work, and the girls instructed in domestic occupations. On arrival in Canada the boys are placed on farms, while the girls are placed either in town or country, but the organizations remain the guardians of the children until they have reached maturity, and in addition the children are subject to efficient and recurrent government inspection until they reach their nineteenth year. This inspection is under the control of the Supervisor of Juvenile Immigration.

Under the British Empire Settlement Agreement the term "children" was applied to boys from 14 to 19 years of age and girls from 14 to 17 migrating to Canada under provincial or approved society auspices. These organizations were assisted by the Oversea Settlement Agreement, which provided free transportation for the boys and girls from the British Isles migrating to Canada under their auspices. On September 23, 1931, the societies concerned were notified that the Dominion Government had decided to withdraw from any further assistance of that nature.

The number of juvenile immigrants to Canada in each year since 1901 is given in Table 14.

14.—British Juvenile Immigrants, fiscal years ended 1991-32.

Note.—Juvenile immigrants are of course included in the total number of immigrants recorded elsewhere.

Fiscal Year.	Juvenile Immi- grants.	Fiscal Year.	Juvenile Immi- grants.
101	977 1, 540 1, 979 2, 212 2, 814 3, 258 1, 455 2, 375 2, 424 2, 524 2, 689 2, 682 2, 642 2, 318 1, 899 1, 899	1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1930. 1931.	1,4 1,4 1,2 1,1 2,0 2,0 1,7 2,0 3,0 4,2 1,7

Nine months.

Oriental Immigration.—The immigration to Canada of the Asiatic races, able because of their low standard of living to underbid the white man in selling his labour, is fundamentally an economic rather than a racial problem, affecting most of all those parts of the country which are nearest to the Orient and the classes which feel their economic position threatened. A record of Oriental immigration since the commencement of the century is given in Table 15.

15.—Record of Oriental Immigrants, fiscal years ended 1981-32.

Fiscal Year.	Chi- nese.	Japan- ese.	East Indians.	Total.	Fiscal Year.	Chi- nese.	Јарап- езе.	East Indians.	Total.
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916	2,544 3,587 5,329 4,847 7168 291 2,234 2,106 2,302 5,320 6,581 7,445 5,512 1,258	6 - 354 1,922 2,042 7,601 495 271 437 765 724 856 592 401	45 387 2,124 2,623 6 10 5 3 5 88	2,550 3,587 5,329 4,476 2,477 4,458 2,607 2,583 5,7349 8,174 6,456 1,850 491	1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931.	393 769 4,333 2,435 1,746 711 674	648 883 1,178 711 532 471 369 448 401 421 475 445 194 205 195	- 10 13 21 40 46 62 80 56 52 58 80	1,041 1,652 5,511 1,255 2,971 2,230 1,101 1,162 547 483 535 537 498 252 285 242
		l			Totals	61,259	24,620	5,842	91,761

Nine months.

Chinese Immigrants.—Oriental immigration to the Pacific Coast of North America appears to have commenced with the coming of Chinese immigrants about the time of the discovery of gold in California in 1849, and British Columbia is thought to have received its first Chinese immigrants some time before 1870. The original occupations of these immigrants were as laundrymen and domestic servants. As early as 1872 Chinese were employed in the coal mines of the province and the Legislature was already considering the imposition of a poll tax on Chinese, the same proposition coming up later in the Dominion Parliament with the design of preventing the employment of Chinese labour in railway construction. A Royal Commission was appointed by the Dominion Government in 1884 to investigate

Chinese immigration, and this Commission recommended the imposition of a head tax of \$10 upon Chinese entering Canada, together with registration and special legislation regulating Chinese domestic servants. This led to the passage of legislation in 1885 (48-49 Vict., c. 71), providing that thereafter Chinese of the labouring class should be required, as a condition of entering into Canada, to pay a head tax of \$50 each. On Jan. 1, 1901 (63-64 Vict., c. 32) this tax was increased to \$100, and on Jan. 1, 1904 (3 Edw. VII, c. 8), after another Royal Commission had reported on this matter, the head tax was further increased to \$500. This tax was paid by all Chinese immigrants except consular officers, merchants and clergymen and their families, tourists, men of science, students and teachers. In spite of this restrictive legislation, the number of Chinese enumerated at the decennial censuses rose from 4,383 in 1881 to 17,312 in 1901, to 27,774 in 1911, to 39,587 in 1921 and 46,519 in 1931. Of this latter number, 43,051 were males and only 3,468 females. Over 58 p.c. of all the Chinese in Canada, viz., 27,139 were residents of British Columbia.

16.—Record of Chinese Immigrants, fiscal years ended 1912-1932, with Totals 1886-1990 and 1991-11.

Fiscal Year.	Paying Tax.	Exempt from Tax.	Percentage of Total Arrivals Admitted, Exempt from Tax.	Registra- tions for Leave.	Total Revenue,
	No.	No.	p.c.	No.	
			· ·		
Tetals (1986 to 1900, Inclusive)	28,437	394	1.36	15,853	1,454,239
Totals (1901 to 1911, Inclusive)	25,160	3,655	12.69	29,409	6,147,260
1912	6,083	498	7.57	4.322	3.049.722
1913	7,078	367	4-93	3,742	3,549,242
1914	5,274	238	4.32	3,450	2,644,593
1915	1,155	103	8-19	4,373	588, 124
1916	20	69	77 - 58	4,064	19,389
1917	272	121	[30⋅78	3,312	140,487
1918	650	119	15-47	2,907	336,757
1919	4,066	267	6 16	3.244	2,069,669
1920	363	181	33 27	5.529	538, 479
. 1921	885	1,550	63.66	6,807	474,332
1922	1,459	287	16-44	7,532	743,032
1923	652	59	8.30	6,682	434,557
1924	625	51	7.54	5,661	334,039
1925	1 -	-	i -	5,992	308,659
1926	-	-	i -	3,947	25,969
1927	-	1 -		5,987	14,844
1928	2	!	33.33	5,087	25,679
1929	_	1	100-00	5,480	30,795
1930	-	-	-	5,682	30,799
1931	! -	-	l	5,783	28,846
1932	-	-	-	4,387	11,584

The Chinese Immigration Act of 1923 (13-14 Geo. V, c. 38)¹ restricts the entry to or landing in Canada of persons of Chinese origin or descent, irrespective of allegiance or citizenship, other than government representatives, Chinese children born in Canada, merchants (defined by what regulations the Minister of Immigration and Colonization may prescribe) and students—the last two classes to possess passports issued by the Government of China and endorsed by a Canadian immigration officer. As a result no Chinese were admitted to the country as immigrants in the fiscal years ended 1925, 1926 and 1927; three are shown by the above table to have been admitted in 1923, one in 1929, but none in 1933, 1931 or 1932.

¹ R.S.C. 1927, c. 95.

Japanese Immigrants.—Japanese immigration to Canada commenced about 1896, and a total of some 12,000 came in between then and 1900, but at the census of 1901 the total number enumerated as domiciled in the Dominion was only 4,738; in 1911, 9,021; in 1921, 15,868—15,006 of these latter being domiciled in British Columbia. The immigration of Japanese was especially active in the fiscal years 1906 to 1908, in which three years a total of 11,565 entered the country. In the latter year an agreement was made with the Japanese Government, under which the latter undertook to limit the number of passports issued to Japanese immigrants to Canada. The statistics of Table 15 show that Japanese immigration to Canada has been restricted to about 200 per annum in the three latest years.

In 1931 Japanese in Canada numbered 23,342, of whom 22,205 were in British Columbia.

East Indian Immigrants.—East Indian immigration to Canada, like Japanese, is shown by Table 15 to have been negligible down to 1907, when no fewer than 2.124 East Indian immigrants arrived. However, as a consequence of the operation of a regulation under section 38 of the Immigration Act of 1910, East Indian immigration has since that date been comparatively small. A resolution of the Imperial War Conference of 1918 declared that "it is the inherent function of the Governments of the several communities of the British Commonwealth that each should enjoy complete control of the composition of its own population by means of restriction on immigration from any of the other communities". However, it was recommended that East Indians already permanently domiciled in other British Countries should be allowed to bring in their wives and minor children, a recommendation which was confirmed, so far as Canada was concerned, by Order in Council of Mar. 26, 1919. However, in the ten fiscal years ended Mar. 31, 1921 to 1930, only 10, 13, 21, 40, 46, 62, 60, 56, 52 and 58 East Indian immigrants respectively were admitted, or 418 in the decade. In 1931 and 1932 the numbers were 80 and 47 respectively.

Expenditures on Immigration.—The sums expended by the Dominion Government on immigration in each of the fiscal years ended 1868 to 1932 inclusive, as stated in the Public Accounts issued annually by the Department of Finance, are shown in Table 17.

17.—Expenditures on Immigration in the fiscal years ended 1868-1932.

(Compiled from Public Accounts.)

Year.		Year.		Year.	\$	Year.	
1868 1869 1870 1871 1872 1873 1873 1874 1875 1876 1877 1877 1877	36,050 26,952 55,966 54,004 109,954 265,718 291,297 278,777 338,179 309,343 154,351 186,403	1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1894 1896	181,045 177,605 180,677 202,235 195,653 120,199	1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1911 1912	979,326 960,676 1,079,130 1,365,000 1,427,112	1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1939	1,388,185 1,688,961 2,052,371 1,987,745 2,417,374° 2,823,920° 2,328,931° 2,338,992 2,704,698 2,631,967 2,757,331
1880 1881 1882 1883	161,213 214,251 215,339 373,958 511,209	1897 1898 1899 1900	261,195	1914 1915 1916 1917	f,658,182 f,307,480 f,181,991	1931	2,255,249 1,873,006 56,552,450

Nine months.

² Includes expenditures on British Empire Exhibition: 1924, \$649,882; 1925, \$599,797; 1926, \$70,661.

Recent Emigration from Canada.—An important factor tending to offset our immigration activities in the past was a movement from Canada to the United States which attained considerable proportions at certain periods. The quota system of immigration regulation, applied by the United States Government against immigrants generally, but not against the Canadian born, had the effect of limiting immigration to the United States and thereby encouraging Canadians to enter the United States. No record of this movement had ever been kept by the Canadian Government, and, while its seriousness was recognized, its magnitude, as indicated by the United States returns, was questioned on the ground that these returns did not make allowance for Canadians returning to Canada after a more or less extended period of residence in the United States. The Canadian Department of Immigration and Colonization was convinced that a very considerable return movement was taking place, but until 1924 no attempt was made to ascertain the exact magnitude of that movement. In that year immigration officers were instructed to take note of Canadians returning to Canada from the United States after having left Canada to reside in that country. The results are tabulated in Table 18.

Another circumstance which has in the past occasioned a considerable movement from Canada to the United States has no doubt been the practice of Europeans to enter Canada and declare themselves bona fide immigrants, with the real intention of entering the United States as soon as the quota restrictions would permit them to do so. The tightening-up of the American regulations concerning persons entering the United States from Canada and the active co-operation of the Canadian Department of Immigration and Colonization in discouraging this traffic, seem to have effectually met this situation.

Table 18 shows the number of Canadians returned from the United States from April 1, 1924, to Mar. 31, 1932.

18.—Canadians Returned from the United States, fiscal years ended Mar. 31, 1925-32.

Fiscal Year ended Mar. 31—	Canadian- born Citizens.	British Born who had acquired Canadian Domicile.	Naturalized Canadian Citizens.	Totai.
1925 1926 1927 1928 1929 1930 1931	36,473 40,246 49,256 35,137 30,008 26,959 26,811 17,691	4,487 4,102 5,326 3,280 2,795 2,030 2,111 1,069	2,815 2,873 2,876 1,476 1,995 841 1,287 651	43,775 47,221 56,957 39,857 33,798 29,830 30,209

Official returns indicate that the movement of population between the two countries is now definitely toward Canada. According to the official returns of the United States Government immigration to that country from Canada in the twelve months ended Mar. 31, 1931, amounted to 32,137. Table 2 shows that the movement of immigrants from the United States to Canada in the same period amounted to 24,280, and Table 18 shows a return movement of 30,209 Canadians—a total of

54,489, or a net balance in favour of Canada of 22,352. For our fiscal year ended Mar. 31, 1932, the record is as follows: Emigrants to U.S. (U.S. figure of immigrants), 8,422; immigrants from U.S., 14,297; returning Canadians, 19,411. There was thus a net inward movement of 25,286.

In Table 19 will be found the number of transoceanic passengers entering Canada during the fiscal year ended Mar. 31, 1932, by description and classes, together with totals by classes for the years 1926 to 1931. It will be seen that the fiscal year ended 1930 showed the largest number of transoceanic passengers and the 1932 figures are lower than for any other year of the record.

19.—Returning Canadians and Other Non-Immigrants Entering Canada via Ocean Ports, by Class of Travel, fiscal year ended Mar. 31, 1932, with Totals for fiscal years 1925-31.

Note.—Figures in this table cover transoceanic passengers only. Details for 1926 to 1931 will be found in previous editions of the Year Book.

	Transoceanic Passengers.				
Description.	Saloon.	Cabin Class.	Third Class.	Totals.	
Canadian born returning British born returning British naturalized returning. Alien nationals returning. Non-immigrant tourist professional student theatrical in transit Diplomatic Corpe.	2,086 451 252 71 1,372 5 28 - 969 7	3,441 1,741 478 206 3,173 43 16 85 877 30	5,493 11,471 1,400 2,529 4,902 109 31 63 278 9	11,020 13,663 2,130 2,806 9,447 157 75 148 2,124	
Totals, 1932	5,241	10,090	28,285	41,616	
Totals, 1931	5,671	14,130	29,390	49,191	
Totals, 1930	6,473	15,279	32,059	53,793	
Totals, 1929	5,373	16, 127	28,879	53,378	
Totals, 1928	5,695	17,137	25,728	48,560	
Totals, 1927	8,621	27,110	22,862	51,793	
Totals, 1926	7, 546	22,460	18,900	49,006	

Colonization Activities.—Contemporaneously with the sharp reduction in immigration disclosed by preceding tables, due to the policy of limiting immigration in accordance with the requirements of the country, a new and important development has occurred in the form of colonization activities within Canada. It was found that there were in the cities of the Dominion many families and individuals with farm experience who had been attracted to industrial centres in more prosperous times and would now regard with favour the opportunity of an assured subsistence on the land. In many cases families were still in possession of some capital but were in fear of its gradual depletion through unemployment. It was believed that many such families and individuals would return to the land without financial

assistance if they could be guided to suitable opportunities. In order to promote such settlement, co-ordination of the activities of the Land Settlement Branch of the Department of Immigration and Colonization and branches of the Canadian National and Canadian Pacific Railways doing similar work was arranged, a committee was organized with representatives of the three interests mentioned. and an active program of land settlement within the Dominion was undertaken. To establish contact with families or individuals desiring to return to the land, a small campaign of classified advertising in the daily press was conducted by the committee. There was no suggestion of financial assistance but there was the offer of dependable and disinterested advice and service in placing such families and individuals in touch with opportunities for farm settlement or farm employment. From Oct. 1, 1930, to Sept. 30, 1932, these activities resulted in the recorded placement in farm employment in Canada of 20,689 single men, and in the settlement on farms of 9.493 families, all of this without any expenditure of public funds in the form of financial assistance to such settlers. On the basis of five persons to the family the total landward movement resulting from these activities represented more than 68,000 persons. In addition to the co-ordinated activities of the two railways and the Department of Immigration and Colonization, several of the provinces carried on effective land settlement movements.

Section 2.—Immigration Policy.

An article prepared by R. J. C. Stead, Director of Publicity, Department of Immigration and Colonization, appeared under this heading in the 1931 edition of the Year Book at pp. 189 to 192 inclusive.

CHAPTER VIL-SURVEY OF PRODUCTION.

The Definition of "Production".—The term "production" is used here in its popular acceptation, i.e., as including such processes as the growing of crops, extraction of minerals, capture of fish, conversion of water power into electrical current, manufacturing, etc.—in economic phrase, the creation of "form utilities". It does not include various activities which are no less "productive" in a broad and strictly economic sense, such as (a) transportation, refrigeration, merchandising, etc., which add to commodities already worked up into form the further utilities of "place", "time" and "possession", and (b) personal and professional services, such as those of the teacher and the doctor, which are not concerned with commodities at all, but are nevertheless essential to any civilized society—representing, in economic language, the creation of "service utilities".

As showing the importance of these latter activities, it may be pointed out. for comparison with the figures in the accompanying tables, that steam railway gross earnings in 1930, the latest year for which complete statistics of production are available, amounted to \$454,231,650, street railway gross earnings to \$54,719,-259, and telephone and telegraph earnings to \$83,685,456, all of which, from a broad point of view, may be considered as "production". It may be further noted that, according to preliminary figures of the census of 1931, out of 3,924,474 persons of ten years of age and over recorded as gainfully occupied, 306,209 were engaged in transportation activities, 386,881 in trade, 92,293 in finance and 766,256 in service occupations. While 81,042 of the latter were engaged in custom and repair work, the value of which is included in the survey of production, the value of the "production" of the remaining 1,470,597 gainfully occupied persons in the four occupational groups just mentioned would not appear to be included to any extent in the survey of production. Then, on the assumption that 1,470,597 gainfully occupied persons whose production is not included in the survey were no less "productive" in the broad sense of the term than the remaining 2.453,877' gainfully occupied persons (of whom they amounted to practically 60 p.c.), 60 p.c. should be added to our total net production to arrive at an estimate of the grand total value of the "production" of all gainfully occupied Canadians. Since the net value of production of commodities as stated in the survey was \$3,217,000,000 in 1930, the grand total money value of the productive activities of the gainfully occupied population of Canada in the same year may be estimated at 160 p.c. of the above figure or \$5,147,000,000 or say \$5,150,000,000 in round figures.

The Relation of "Production" to National Income.—The above figures of total production are necessarily larger than the national income, since a considerable deduction must be made therefrom for the purpose of keeping the national capital engaged in production unimpaired, before the remainder can be placed at the disposal of individuals. Machinery that is either obsolete or obsolescent must be replaced, buildings and other equipment kept in a good state of repair, etc. In other words, full and adequate provision must be made out of the year's products for the annual depreciation of the equipment used in their production before

¹ This figure includes 189,310gainfully occupied persons whose industries were not specified but who were mainly general labourers and office clerks. The products of the labour of these persons were probably mainly included in the survey of production but here it is assumed that they were all so included.

any part of that product can be allocated to individuals. On this basis, probably not more than 92 p.c. of the annual value of the productive activities of the Dominion is annually available for consumption as the national income. The national income of the people of Canada in 1930 may therefore be estimated as having been somewhere in the neighborhood of \$4,750,000,000.

(See also entry "National Income" in the index.)

"Gross" and "Net" Production.—The values of products are shown under two headings, namely, "gross" and "net". "Gross" production shows the total value of all the individual commodities produced under a particular heading. "Net" production represents an attempt to eliminate the value of materials consumed in the productive process. For purposes of ordinary economic discussion, the net figures should be used in preference to the gross, because of the large amount of duplication which the latter includes on account of the necessity of making the individual items self-contained. The tables show the total values of all commodities produced in Canada in the latest years; the values are given as in the producers' hands.

Difficulties in Differentiating between the Branches of Production.—
There is an increasing demand for a survey of production that will differentiate as between the more important branches and at the same time give a purview of the whole which will be free from overlapping. This is somewhat difficult to present with clearness, in view of the varying definitions that attach to industrial groups from different points of view. For example, brick, tile and cement are frequently included in "mineral production" as being the first finished products of commercial value resulting from the productive process; frequently, however, they are regarded as "manufactures" in view of the nature of the productive process—either allocation being correct according to the point of view. In the summing up, production in such industries is regarded as primary production and a total for other manufacturing industries is given under the description "manufactures, n.e.s."

Interpretation of Items.—The primary industries of agriculture, fishing, forestry, mining, etc., are separated in this statement from the secondary or manufacturing processes. The close association between the two and the overlappings that are apt to occur have already been pointed out. As further explaining the procedure that has been followed in drawing up the tables, the following notes are appended:—

Agriculture.—Dairy factories are included under this heading; farm dairy products (gross) include the milk consumed whole and sold to dairy factories, and the butter, etc., made on the farm.

Forestry.—Forestry production is understood to consist of the operations in the woods as well as those of sawmills and pulp-mills, the latter being limited to the making of first products such as lumber, lath, shingles, pulp and cooperage stock.

Fur Production.—The item of fur production is limited to the wild-life production. To obtain a total of the peltries produced in Canada, it would be necessary to add to the wild-life output the production of pelts on fur farms, which is included in the total for "agriculture"

Mineral Production.—Under mineral production many items are included that are also allocated to "manufactures". Considerable overlapping exists as between "mineral production" on the one hand and "manufactures" on the other. The Bureau presents the detailed statistics of these groups (the chief of which are smelters, brick, cement, lime, etc.) in its reports on mineral production, since their product is the first to which a commercial value is ordinarily assigned.

Total Manufactures.—The figure given for this heading is a comprehensive one including the several items listed with the extractive industries above, though also frequently regarded as "manufactures", viz., dairy factories, fish-canning and curing, sawmills, pulp-mills, shipbuilding and certain mineral industries. This duplication is eliminated from the grand totals as well as from "manufactures, n.e.s.", listed in Table 5.

Manufactures, n.e.s.—The figures given for manufactures, n.e.s., are exclusive of the value of the products of all manufacturing processes closely associated with the extractive industries that are frequently included under this heading; hence it is obvious that the grand total is equivalent to an amount obtained by adding the values for manufactures, n.e.s., and for the other eight divisions.

Section 1.—The Leading Branches of Production in 1930.

The total net value of production, as estimated for 1930 by the Dominion Bureau of Statistics, on the basis of statistics compiled by its various branches, was \$3,216,700,000. This was less than for any year since 1924. Decreases were shown in every branch of production except the electric power industry and were especially heavy for agriculture, trapping and construction work. Farm yields were slightly above normal in 1930 but the average price of farm products was less than in any year in the two preceding decades. The resulting values of farm crops produced in 1930 were less than in any year since 1914.

Manufacturing plants operated at a comparatively high level of capacity during the first half of the year, but there was a pronounced decline later. The value added by the manufacturing process showed a decline of nearly 12 p.c. from the 1929 level.

Total production was 18 p.c. less than in 1929, 22 p.c. less than in 1928, 17 p.c. less than in 1927, nearly 12 p.c. less than in 1926, 4 p.c. less than in 1925 and 6 p.c. greater than in 1924.

The Main Branches of Production in 1930.—Confining our analysis to the net production of commodities, "net" production signifying the value left in the producers' hands after the elimination of the value of the materials consumed in the production process, it is noteworthy that, as already pointed out, electric power, alone of the nine branches of production, showed increased production in 1930. The reason lay chiefly in the many projects already planned or begun which were being carried to completion. These included the Beauharnois project and the Rapide Blanc development on the Upper St. Maurice river, in Quebec; the Abitibi Canyon project and the Chats Falls development, in Ontario; the Seven Sisters development in Manitoba; and the Stave River project in British Columbia. The decline in agricultural production, after deducting the cost of materials such as seed, feed and nursery stock, was 26.6 p.c. Forestry, comprising woods operations and the value added by the manufacturing process in the sawmilling and pulp industries, showed a drop of 10·2 p.c., while mineral production at \$279,873,000 showed a decline of 10 p.c. The revenues of the fisheries and of trapping showed declines of 10.7 p.c. and 39.6 p.c., respectively.

Among the branches of secondary production, construction showed the heaviest proportional decline of 23·2 p.c. Custom and repair production was down by 14·5 p.c. compared with 1929 and manufactures was reduced by 11·8 p.c.

Relative Importance of the Several Branches of Production.—Owing to the more rapid decline in agricultural revenue in 1930, the lead of manufactures over agriculture, which was 93 p.c. in 1929, increased to 132·2 p.c. in 1930. Agricultural production in 1930 represented 23·6 p.c. of the net output of all branches, while the total value added by the manufacturing processes was 54·8 p.c. of the total net production. However, a number of industries listed under manufactures are also included in the several extractive industries with which they are associated. Eliminating this duplication, the output of the manufacturing industries not elsewhere included was 40·7 p.c. of the total net production. Forestry held third place in 1930 with a percentage of 9·4. Construction was in fourth place, with a percentage of 9·2, followed by mining, with a percentage of 8·7; in 1929 mining represented 7·9 p.c. and forestry 8·6 p.c. The electric power group in 1930 had an output of 3·9 p.c. of the total net production. Repair work, fisheries and trapping followed with percentages in 1930 of 2·7, 1·5 and 0·3, respectively.

A summary of gross and net production is given by industries for the years from 1926 to 1930 in Table 1; a detailed itemized statement of the net value of production in 1928, 1929 and 1930, is given in Table 2.

1.—Gross and Net Values of Production in Canada, by Industries, 1926-30.

GROSS VALUES OF PRODUCTION.

Division of Industry.	1926.	1927.	1928.	1929.	1930.
	*	*	\$	\$	8
Agriculture ¹ . Forestry. Fisherice. Trapping. Mining. Electric power. Totals, Primary Production.	1,806,075,911 454,773,119 73,052,985 17,609,036 279,674,780 115,467,940 2,746,653,771	453,694,831 63,876,559 17,640,781 279,873,382 134,818,567	473,559,767 70,668,167 16,603,827 308,250,712 143,692,455	495,592,847 70,580,223 16,356,447 352,266,692 157,499,385	9,875,955
Construction Custom and repair ² Manufactures ² Totala, Secondary Production	385,913,533 107,367,900 3,247,803,438 3,741,084,871	116,082,000 3,425,498,540	129,085,000	143,877,000 4,063,987,279	123,000,000 3,428,970,628
Grand Totals		6,167,384,194			

NET VALUES OF PRODUCTION.

Division of Industry.	1926.	1927.	1928.	1929.	1930.	P.c. of Net Value of Produc- tion, 1930.
<u> </u>	\$	*	- +	\$	\$	p.c.
Agriculture		311,915,163 49,497,038 17,640,781 247,356,695 104,033,297	323, 654, 008 55, 050, 973 16, 603, 827 274, 989, 487 112, 326, 819	53,518,521 16,356,447 310,850,246 122,883,446	126,038,145	9-42 1-49 0-31 8-70 3-92
Production	2,116,429,767	2,253,391,844	2,283,896,577	1,875,387,562	1,525,528,806	47.43
Construction Custom and repair ² Manufacturee ³	251,088,323 68,743,000 1,519,179,2465			386,709,398 99,618,000 1,997,350,365		
Totals, Secondary Production	1,839,010,569	1,993,360,936	2,220,692,025	2,483,677,763	2,144,233,476	66-654
Grand Totals	3,640,356,606	8,901,505,298	4,122,509,882	3,946,609,211	3,216,746,735	100.00

¹ The gross value of agricultural production here exceeds that given in Chapter VIII, Agricultural Statistics, of this edition of the Year Book, by the amount paid to patrons of dairy factories for milk and cream.

² Statistics of custom and repair industries were not collected after 1922, and the totals for that year errepeated in 1923 and 1924. The totals for 1926 to 1930 were estimated according to the percentage change in the data for manufacturing.

⁷ The item "manufactures" includes dairy factories, sawmills, pulp-mills, fish-canning and curing, shipbuilding, electric power and certain mineral industries also included under other headings. This duplication, amounting in 1926 to a gross of \$657,369, 405 and a net of \$315,083,739, in 1927 to a gross of \$657,458,550 and a net of \$345,247,482, in 1928 to a gross of \$730,780,507 and a net of \$382,078,720, in 1929 to agross of \$777,954,427 and a net of \$412,456,114 and in 1930 to a gross of \$757,438,326 and a net of \$453,015,547 is eliminated from the grand totals.

⁴ The proportion of manufactures, freed from all duplication (as explained in note 3) to the grand total of net production was 40.69 p.c., and under like conditions the proportion of all secondary production to the grand total of net production was 52.57 p.c.

This figure exceeds by \$26,534,207 that given in the Manufactures chapter as the net production of manufactures in 1926. This difference is due to certain duplications in the central electric station industry not having been eliminated when the 1926 figures were first compiled.

Detailed Itemized Statement of the Net Values of Production in Canada during 1928, 1929 and 1939.

1928. 1929. 1930.	Classification.		Net Production	١.
Agriculture	Olacol Busylou.	1928.	1929.	1930.
Field crops	PRIMARY PRODUCTION,	*	\$	\$
Fruits and vegetables. 48, 460, 463 46, 106, 822 464, 405, 75, 221, 107 Tobacco. 5, 833, 600 6, 1319, 000 7, 1083, 000 1, 276, 000 7, 1083, 000 1, 276, 000 7, 1083, 000 1, 276, 000 7, 1083, 000 1, 283, 000 1, 2834, 000 1, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834, 000 2, 2834	Field crops	1.053.817.000	794,783,000	514,041,00
Tobaco. 6, 334,000 6, 276,000 7, 088, 00 Honey 3, 015,000 2, 351,000 2, 342,00 Honey 3, 015,000 2, 351,000 2, 343,000 371,00 Totals, Field Husbandry 1, 121, 115,463 858, 643,824 572,109,74 Animal Husbandry Farm animals 197,859,000 207,317,000 166,630,00 Wool 5, 699,000 4, 470,000 2, 311,00 Dairy products 29, 103,000 28, 029,000 20, 711,00 Creamery butter 64,703,000 63,830,000 63,630,000 64,600 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 10,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000	Fruits and vegetables	1 48 400 463	l 46 100 894	40, 405, 74
Totals, Field Husbandry. 1,121,115,463 858,643,824 572,192,74 Inimal Husbandry— Farm animals 197,890,000 207,317,000 166,630,000 Wool	Tobageo	5,583,000	6,119,000	5,251,00
Totals, Field Husbandry	Grass and clover seed	2 957 000	2 123 000	7,058,00 2,482,00
Totals, Field Husbandry. 1,12,115,463 858,643,824 572,192,74	Honey	3,015,000	2,849,000	2.584.00
Inimal Huebandry— Farm animals	Flax fibre	509,000	393,000	371,00
Farm animals	Totals, Field Husbandry	1,121,115,463	858,643,824	572, 192, 74
Wool		107 000 000	201 01 00	440 404 44
Dairy products	Farm animals		207,317,000	166,630,00
Dairy butter	Dairy products—	3,033,000	4,470,000	2,311,00
Creamery butter	Dairy butter	29,103,000	28,929,000	20,710,00
Home made cheese. 32,400 21,471,000 18,690,00 Miscellaneous factory products 20,881,000 22,022,002,002 21,305,000 Miscellaneous factory products 20,881,000 22,022,002,002 21,305,000 Miscellaneous factory products 20,881,000 22,022,002,002 21,305,000 Miscellaneous factory products 148,082,300 188,288,000 176,684,000 95,227,000 4475,000 176,684,000 2,316,000 2,316,000 2,316,000 2,316,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,496,000 175,4	Creamery butter	64,703,000	1 - 65.930.000	56,670 ,00
Politry and eggs	Home made cheese	. 82.111	1 83.1881	1 64.00
Politry and eggs	Missellangous factory products	90,494,000	21,441,000	18,090,00
Politry and eggs	Milk consumed fresh or otherwise used1	148, 082, 000	158, 288, 000	155,619,00
Pelts	Poultry and eggs,	106,653,000	107,664,000	95,227,00
Animals 3,766,000 1,475,000 1,229,00 Totals, Animal Husbandry 2 389, 158,000 175, 486,000 186,599,00 Totals, Agricultural Production 1,501,271,463 1,084,129,824 758,791,74 Totals, Agricultural Production 76,431,481 79,278,543 75,563,04 Pulpwood 74,848,077 76,120,063 67,559,81 Railway ties 75,791,724 5,730,423 5,038,89 All other forest products 55,799,517 58,441,100 58,721,94 Totals, Forestry Operations 212,950,799 219,570,129 206,853,49 Sawmill products 58,972,953 63,245,612 48,186,22 Pulp-mill products 51,730,256 54,833,337 48,105,45 Totals, Milling Operations 110,703,209 118,073,949 96,291,67 Totals, Forestry Production 323,654,008 337,649,078 303,145,16 isheries— Fish sold fresh by fishermen 18,113,309 16,637,841 13,823,52 Fish domestically cured 651,932 1,644,201 1,007,38 Fish-canning and curing establishments (values added) 26,630,538 17,094,558 17,034,17 Totals, Fisheries Production 55,050,973 53,518,521 47,804,21 rapping— Fur Production (wild life) 16,603,827 16,356,447 9,875,95 ineral Production— Smelting 70,330,971 86,016,034 87,108,109 Fuels 74,413,166 76,739,776,397,68 Salt. 1495,971 1,578,086 1,694,38 Other mon-metallics 70,330,721 19,495,873 13,523,32 Clay products 12,381,718 13,094,643 10,593,77 Cement 16,739,163 19,337,235 17,713,40 Cher structural materials 10,608,732 Totals, Mineral Production 274,989,487 310,850,246 279,873,57 lectric Light and Power ³ 122,883,446 126,608,144 Totals, Mineral Production 274,989,487 310,850,246 279,873,57		0.010.000	0.010.000	
Totals, Agricultural Production 1,591,271,463 1,084,129,824 758,791,74 Forestry— Logs and bolts 76,431,481 79,278,543 75,563,04 Pulpwood 74,848,077 76,120,062 67,529,61 Railway ties 5,871,724 5,730,423 5,038,89 All other forest products 55,799,517 58,441,100 58,721,94 Totals, Forestry Operations 212,950,799 219,570,129 206,853,49 Sawmill products 58,972,953 63,245,612 48,186,22 Pulp-mill products 51,730,256 54,833,337 48,105,45 Totals, Milling Operations 110,703,209 118,078,949 96,291,67 Totals, Forestry Production 323,854,008 337,649,078 303,145,16 isheries— Fish sold fresh by fishermen 18,131,809 16,637,841 13,823,52 Sales to canning and curing establishments 15,617,194 17,061,702 15,939,13 Fish domestically cured 515,617,194 17,061,702 15,939,13 Fish canning and curing establishments (values added) 20,650,538 17,094,558 17,034,17 Totals, Fisheries Production 55,050,973 53,518,521 47,804,21 Fur Production (wild life) 16,603,827 16,356,447 9,875,95 ineral Production— Smelting 70,930,977 68,438,022 55,636,66 Other metallies 70,930,977 68,438,022 55,636,66 Other non-metallies 70,930,977 68,438,022 55,636,66 Other non-metallies 70,930,977 68,938,37,235 Clay products 12,381,718 13,904,643 10,593,67 Cament 16,739,163 19,337,235 17,713,68 Linne 170,337,235 17,713,68 Cament 16,631,832 19,384,346 21,382,32 Totals, Mineral Production 274,989,487 310,850,246 279,873,577 lectric Light and Power 112,226,819 122,883,446 126,038,144	Animals	3,760,000	2,816,000 4,475,000	3,096,00 1,829,00
Totals, Agricultural Production 1,591,271,463 1,084,129,824 758,791,74 forestry— Logs and bolts 76,431,481 79,278,543 75,563,04 Pulpwood 74,848,077 76,120,062 67,529,61 Railway ties 5,871,724 5,730,423 5,038,39 All other forest products 55,799,517 58,441,100 58,721,94 Totals, Forestry Operations 212,950,799 219,570,129 206,653,49 Sawmill products 58,972,953 63,245,612 48,186,22 Pulp-mill products 51,730,256 54,833,337 48,106,45 Totals, Milling Operations 110,703,209 118,078,949 96,291,67 Totals, Forestry Production 323,654,008 337,649,078 303,145,16 isheries— Fish sold fresh by fishermen 18,131,809 16,637,841 13,823,52 Fish-canning and curing establishments 15,617,194 17,061,702 15,939, 13 Fish domestically cured 55,050,938 17,094,558 17,034,17 Totals, Fisheries Production 55,050,973 53,518,521 47,804,21 rapping—Fur Production (wild life) 16,603,827 16,356,447 9,875,95 interal Production— Smelting 70,930,977 88,016,034 9,878,95 interal Production— Smelting 70,930,977 88,016,034 9,878,95 interal Production— Smelting 70,930,977 88,016,034 9,878,95 interal Production— Smelting 70,930,977 88,016,034 9,875,95 interal Production— Smelting 70,930,977 88,016,034 9,878,95 interal Production— Smelting 70,930,977 88,016,034 9,878,978 interal Production— Smelting 70,930,977 88,096 interal Productio	Totals, Animal Husbandry 2	380, 156, 000	175,486,000	186,599,00
Corestry	Totals, Agricultural Production	1.501.271.463	1.084.129.824	[
Logs and bolts				
Pulpwood 74, 848, 077 76, 129, 063 67, 529, 61 Railway ties 5, 871, 724 5, 730, 423 5, 368, 89 All other forest products 55, 779, 517 58, 441, 100 58, 721, 94 Totals, Forestry Operations 212, 950, 799 219, 570, 129 206, 853, 49 Sawmill products 58, 972, 953 63, 245, 612 48, 180, 22 Pulp-mill products 51, 730, 256 54, 833, 337 48, 105, 45 Totals, Milling Operations 110, 703, 209 118, 078, 949 96, 291, 67 Totals, Forestry Production 323, 554, 008 337, 649, 078 303, 145, 16 isheries— Fish sold fresh by fishermen 18, 131, 309 16, 637, 841 13, 823, 52 Sales to canning and curing establishments 15, 617, 194 17, 061, 702 15, 939, 13 Fish domestically-cured 551, 932 19, 420 10, 07, 38 Fish-canning and curing establishments (values added) 20, 650, 538 17, 904, 558 17, 034, 17 Totals, Fisheries Production 55, 050, 973 53, 518, 521 47, 804, 21 rapping Tur Production (wild life) 16, 603, 827 16, 356, 447 9, 875, 95 ineral Production— Smelting 70, 930, 977 86, 016, 034 87, 108, 100 Fuels 70, 930, 977 86, 016, 034 87, 108, 100 Fuels 70, 930, 977 86, 016, 034 87, 108, 100 Fuels 70, 930, 977 86, 016, 034 87, 108, 100 Fuels 70, 930, 977 86, 104, 634, 535 17, 330, 721 19, 495, 873 13, 523, 237 12, 331, 778 13, 904, 643 10, 593, 637 10, 100, 100, 100, 100, 100, 100, 100	Logs and halfa	76 421 421	70 978 542	75 562 04
Totals, Forestry Operations 212,950,798 219,570,129 206,853,49	Prinwood	74.848.077	76, 120, 063	67, 529, 61
Totals, Forestry Operations 212,950,798 219,570,129 206,853,49	Railway ties.	5,871,724	5,730,423	l 5.038.89
Sawmill products	All other forest products	55,799,517	58,441,100	58,721,94
Pulp-mill products. 51,730,256 54,833,337 48,108,45 Totals, Milling Operations. 110,703,209 118,078,949 96,291,67 Totals, Forestry Production. 323,554,008 337,649,078 303,145,16 isberies— Fish sold fresh by fishermen. 18,131,809 16,637,841 13,823,52 Sales to canning and curing establishments (values added) 25,1932 1,914,420 1,007,38 Fish-canning and curing establishments (values added) 20,650,538 17,004,558 17,034,17 Totals, Fisheries Production. 55,050,973 53,518,521 47,804,21 rapping— Fur Production (wild life) 16,603,827 16,356,447 9,875,95 tineral Production— Smelting————————————————————————————————————	Totals, Forestry Operations	212,950,799	219, 570, 129	206,853,49
Pulp-mill products. 51,730,256 54,833,337 48,108,45 Totals, Milling Operations. 110,703,209 118,078,949 96,291,67 Totals, Forestry Production. 323,554,008 337,649,078 303,145,16 isberies— Fish sold fresh by fishermen. 18,131,809 16,637,841 13,823,52 Sales to canning and curing establishments (values added) 25,1932 1,914,420 1,007,38 Fish-canning and curing establishments (values added) 20,650,538 17,004,558 17,034,17 Totals, Fisheries Production. 55,050,973 53,518,521 47,804,21 rapping— Fur Production (wild life) 16,603,827 16,356,447 9,875,95 tineral Production— Smelting————————————————————————————————————	Sawmill products	58,972,953	63,245,612	48,186,22
Totals, Forestry Production. 323, 654,008 337, 649,078 303, 145, 16 isheries— Fish sold fresh by fishermen. 18, 131, 309 16, 637, 841 13, 823, 52 Sales to canning and curing establishments 15, 617, 194 17, 061, 702 15, 939, 13 Fish domestically, cured. 651, 939, 13 Fish-canning and curing establishments (values added). 20, 650, 538 17, 904, 558 17, 034, 17 Totals, Fisheries Production. 55, 050, 973 53, 518, 521 47, 804, 21 rapping— Fur Production (wild life). 16, 603, 827 16, 356, 447 9, 875, 95 cineral Production— Smelting. 70, 930, 977 86, 016, 034 87, 108, 100 Fuels. 74, 413, 166 76, 787, 397 68, 184, 485 Salt. 9, 145, 597 11, 578, 086 1, 694, 63 Other non-metallics. 17, 330, 721 19, 495, 873 Clay products. 12, 381, 718 13, 904, 643 10, 583, 57 Cement. 16, 739, 163 19, 397, 225 17, 13, 66 Other structural materials 16, 608, 732 19, 884, 346 21, 382, 342 Totals, Mineral Production. 274, 989, 487 310, 850, 246 279, 873, 573 lectric Light and Power ² . 112, 328, 349 122, 883, 446 126, 038, 144 Totals, Mineral Production. 274, 989, 487 310, 850, 246 126, 038, 144 Totals, Mineral Production. 112, 328, 349 122, 883, 446 126, 038, 144 Totals, Mineral Production. 122, 883, 446 126, 038, 144 Totals, Mineral Production. 122, 883, 446 126, 038, 144 Totals, Mineral Production. 122, 883, 446 126, 038, 144 Totals, Mineral Production. 122, 883, 446 126, 038, 144	Pulp-mill products	51,730,256	54,833,337	48,105,45
Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale Sale	Totals, Milling Operations	110,708,209	118,078.949	96, 291, 67
Fish sold fresh by fishermen. 18, 13, 809 16, 637, 841 13, 823, 52 Sales to canning and curing establishments 15, 617, 194 17, 061, 702 15, 939, 13 Fish domestically cured 651, 932 1, 914, 420 1, 007, 38 Fish-canning and curing establishments (values added) 20, 650, 538 17, 094, 558 17, 034, 17 Totals, Fisheries Production 55, 050, 973 53, 518, 521 47, 804, 21 Tapping	Totals, Forestry Production	323,654,008	337,649,078	303,145,16
Fish domestically.cured 51, 932 1, 914, 421 1, 007, 38 Fish-cauning and curing establishments (values added) 20, 650, 538 17, 904, 558 17, 904, 558 17, 904, 558 17, 904, 558 17, 904, 521 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21 47, 804, 21	isheries—			
Fish domestically.cured: 51, 932 1, 914, 423 1, 007, 38 Fish-canning and curing establishments (values added) 20, 650, 538 17, 094, 558 17, 094, 558 17, 094, 558 17, 094, 558 17, 094, 558 17, 094, 558 17, 094, 21 6, 550, 973 53, 518, 521 47, 804, 21 6, 603, 827 16, 356, 447 9, 875, 95 616, 604 87, 108, 108 109 610 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604 87, 108, 109 610, 604, 604 87, 108, 109 610, 604, 604 87, 108, 109 610, 604, 604 87, 108, 109 610, 604, 604, 604, 604, 604, 604, 604, 60	Fish sold fresh by fishermen	18,131,809		13,823,52
Fish-canning and curing establishments (values added) 20, 650, 538 17, 904, 558 17, 034, 17 Totals, Fisheries Production 55, 050, 973 53, 518, 521 47, 804, 21 Fapping—Fur Production (wild life) 16, 603, 827 16, 356, 447 9, 875, 95 Elineral Production—Smelting 61, 061, 477 68, 438, 022 55, 636, 66 Other metallics 70, 930, 977 86, 016, 034 87, 108, 10 Fuels 74, 413, 166 76, 767, 397 68, 134, 485 Other non-metallics 17, 330, 721 19, 495, 873 13, 523, 233 Clay products 12, 331, 718 19, 337, 235 17, 713, 06 Lime 16, 739, 163 19, 337, 235 17, 713, 06 Other structural materials 16, 603, 732 19, 884, 346 21, 382, 12 Totals, Mineral Production 274, 989, 487 810, 850, 246 279, 873, 575 Electric Light and Power ³ 112, 328, 819 122, 883, 446 126, 038, 444	Sales to canning and curing establishments	10,017,194	1 014 420	1 007 38
rapping— Pur Production (wild life) 16,603,827 16,356,447 9,875,95 Ineral Production— Smelting Other metallics 70,930,977 86,016,034 87,108,10 Fuels 74,413,160 76,737,397 68,184,48 Salt 1,495,971 1,578,088 1,694,63 Other non-metallics 17,330,721 19,495,873 13,523,23 Clay products 12,381,718 13,904,643 10,583,67 Cement 16,739,163 19,337,255 17,713,06 Lime 4,534,565 19,384,346 Other structural materials Other structural materials 16,081,821 Totals, Mineral Production 274,989,487 310,850,246 279,873,575 lectric Light and Power ³ 112,328,819 122,883,446 126,038,144	Fish-canning and curing establishments (values added)	20,650,538	17,904,558	17,034,17
Smelting	Totals, Fisheries Production	55,050,973	53,518,521	47,804,21
Smelting	тапріп <i>g</i> —			
Smelting 61,681,477 68,438,022 55,636,66 Other metallics 70,930,977 86,016,024 87,108,10 Puels 74,413,160 76,787,397 68,184,48 Salt 1,495,971 1,578,086 1,694,63 Other non-metallics 12,331,718 13,904,643 10,593,67 Clay products 12,331,718 13,904,643 10,593,67 Cement 16,739,163 19,337,235 17,713,06 Lime 4,534,565 5,908,610 4,083,694 Other structural materials 16,081,732 19,384,346 21,382,12 Totals, Mineral Production 274,989,487 310,850,246 279,873,57 lectric Light and Power ⁴ 112,326,819 122,883,446 126,038,144	Fur Production (wild life)	16,603,827	16,356,447	9,875,95
Smelting 61,081,477 68,438,092 55,636,66 Other metallics 70,330,977 36,016,034 87,108,10 Fuels 74,413,160 76,787,397 68,184,48 Salt 1,495,971 1,578,086 1,694,63 Other non-metallics 12,331,718 13,904,643 10,593,67 Clay products 12,331,718 13,904,643 10,593,67 Cement 16,739,163 19,337,235 17,713,06 Lime 4,534,568 5,908,610 4,083,694 Other structural materials 16,081,732 19,384,346 21,382,12 Totals, Mineral Production 274,989,487 310,850,246 279,873,57 lectric Light and Power ³ 112,326,819 122,883,446 126,038,149	Ineral Production—			
Salt. 1, 495, 971 1, 578, 985 1, 694, 58 Other non-metallies. 17, 330, 721 19, 495, 873 13, 523, 23 Clay products. 12, 381, 718 13, 904, 643 10, 593, 67 Cement. 16, 739, 163 19, 337, 235 17, 713, 06 Lime. 4, 534, 568 5, 908, 610 4, 983, 98 Other structural materials. 16, 081, 732 19, 384, 346 21, 382, 12 Totals, Mineral Production. 274, 989, 487 810, 850, 246 279, 873, 57 lectric Light and Power ¹ . 112, 328, 819 122, 883, 446 126, 038, 149	Smelting	61,081,477	68,438,022	55,635,66
Salt 1,495,971 1,578,086 1,694,58 Other non-metallics 17,330,721 19,495,873 13,523,23 Clay products 12,381,718 13,004,643 10,593,67 Cement 16,739,163 19,337,235 17,713,06 Lime 4,534,568 5,908,610 4,083,694 Other structural materials 16,081,732 19,384,346 21,382,12 Totals, Mineral Production 274,989,487 810,850,246 279,873,57 lectric Light and Power ³ 112,325,819 122,883,446 126,038,149	Other metallics	70,930,977	86,016,034	87,108,10
Other non-metalities 17,330,721 19,499,873 13,523,525 Clay products 12,331,718 13,094,643 10,593,675 Cement 16,739,163 19,337,235 17,713,06 Lime 4,534,568 5,998,610 4,638,89 Other structural materials 16,081,732 19,384,346 21,382,12 Totals, Mineral Production 274,989,487 310,850,246 279,873,573 lectric Light and Power ³ 112,326,819 122,883,446 126,038,144	fuels	1,495,071	79,707,387 1,578,086	1,694,63
Clay products 12,381,718 13,904,643 10,593,67 Cement 16,739,163 19,337,235 17,713,06 Lime 4,534,568 5,908,610 4,038,69 Other structural materials 16,081,732 19,384,346 21,382,12 Totals, Mineral Production 274,989,487 310,850,246 279,873,57 lectric Light and Power ¹ 112,326,319 122,883,446 126,038,14	Otkov non-metallies	17,330,721	19,490,873	13,528,23
Cement 10, 139, 105 19, 337, 253 17, 1713, 253 Lime. 4, 534, 536 5, 908, 610 4, 634, 536 5, 908, 610 4, 634, 536 Other structural materials 16, 081, 732 19, 384, 346 21, 382, 12 Totals, Mineral Production 274, 989, 487 810, 850, 246 279, 873, 57 lectric Light and Power ³ 112, 326, 819 122, 883, 446 126, 038, 149	Clau products	1 12,381,718	13, 904, 643	10,593,67
Other structural materials 16,081,732 19,384,346 21,382,12 Totals, Mineral Production 274,989,487 310,850,246 279,873,576 lectric Light and Power ³ 112,326,819 122,883,446 126,038,149	Cement	16,739,163	19,337,235	17,713,06
Totals, Mineral Production. 274,989,487 310,850,246 279,873,575 lectric Light and Power ³ . 112,326,819 122,883,446 126,038,146	Other structural materials	16,081,782	5,908,610 19,384,346	21,382,12
lectric Light and Power 1 112,326,819 122,883,446 126,038,145				279,873,578
	Totals, Mineral Production			
		112,326,819	122,883,446	126,038,149

Three per cent for wastage was deducted from value of milk consumed fresh.
 Cost of feed is deducted from the gross for animal husbandry.
 This item is exclusive of duplication involved in purchases of power by reporting companies.

2.—Detailed Itemized Statement of the Net Values of Production in Canada during 1928, 1929 and 1933—concluded.

SI 18 11	1	Net Production.			
Classification.	1928.	1929.	1930.		
SECONDARY PRODUCTION.	\$	*	\$		
Construction— General construction	306,821,000 12,343,000				
Totals, Construction	819, 164, 000	386,709,398	297,046,750		
Custom and repair	82,482,000	99,618,000	85,200,000		
Manufactures— Vegetable products. Auimal products. Textiles. Wood and paper. Iron and steel. Non-ferrous metals. Non-metallic minerals. Chemicals. Miscellaneous, including central electric stations.	191,671,848 389,389,952	132,409,978 205,943,337	288,032,111 138,720,310		
Totals, Manufactures!	1,819,046,025	1,997,350,365	1,761,986,726		
Totals, Secondary Production	2,220,692,025	2,483,677,763	2,144,233,476		
Grand Totals	4,122,509,882	3,946,609,211	3,216,746,735		

¹ The item "total manufactures" includes the following industries which are also shown under other heads, the amount of the duplication being deducted from the grand totals:—

	\$	\$	\$
Dairy factories. Sawmills and pulp-mills. Fish-canning and curing. Shipbuilding. Mineral industries. Etectric power.	15,688,965 12,342,892 96,232,897	36, 971, 994 148, 078, 949 13, 469, 401 11, 885, 728 109, 166, 596 122, 883, 446	181,868,214 11,891,819
Totals Totals, Manufactures (duplications eliminated)	382,078,720 1,436,967,305	412,456,114 £,584,894,251	

Section 2.—The Provincial Distribution of Production.

The trend of net production has exhibited considerable variation in the different provinces. In Prince Edward Island, the lowest point was reached in 1922, followed by substantial recovery from 1924 to 1926, with a pronounced decline in 1927 and moderate fluctuations until 1930 when a further pronounced decline was recorded. The depression in Nova Scotia was maintained from 1920 to 1925 but net production in 1926 showed a marked reversal of the trend in preceding years. For 1928 a record level of \$144,000,000 was attained. For 1929 this was reduced to \$129,000,000 and for 1930 to \$114,000,000. The trend in New Brunswick showed increases in 1925 and 1926, followed by a recession extending to 1930 with the exception of 1929.

In Quebec the decline in 1921 was very severe. During the subsequent period the chief features were a substantial gain in 1923, a minor recession in 1924, and a marked recovery in 1925 continued in 1926, 1927, 1928 and 1929. The total in 1930 was \$\$92,000,000 compared with \$1,049,500,000 in the preceding year, a

decline of 15 p.c. The decline of 1921 was also very severe in Ontario, but since that year continuous increases have been recorded with the exception of 1930 when a decline of 16.8 p.c. from the 1929 level was recorded.

The special feature in the case of Manitoba was the marked increase in 1924 over 1923. There were substantial increases in 1926 and 1928, when the maximum production of \$235,000,000 was reached. The decrease since 1928 has been most pronounced. The 1929 and the 1930 figures are the lowest since 1923. For Saskatchewan, a decline was shown in 1921, but the total of 1920 was exceeded in 1922 and again in 1925. There was a temporary decline in 1926, followed by a good recovery during the next two years. The 1929 figure, however, reached approximately the 1924 level and the 1930 figure was the lowest recorded since the study was commenced in 1921. High points in the net value of production in Alberta were attained in 1923 and 1927, since when there has been a rather rapid decline, the 1930 level approximating that of 1922. In British Columbia, steady increases were shown during the recovery from 1922 to 1926, the upward trend being fairly continuous to 1929. For 1930, a decline of nearly 19 p.c. was shown from the preceding year.

The values of gross and net production are given by provinces for the years 1926 to 1930 in Table 3.

3.—Gross and Net Values of Production in Canada, by Provinces, 1926-39.

GROSS VALUES OF PRODUCTION.

Province.	1926.	1927.	1928.	1929.	1930.
	\$	\$	•	•	\$
Prince Edward Island. Nova Scotia. New Brunawick. Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia. Yukon.	170,611,631 141,860,549 1,436,435,438 2,472,066,468 311,220,571 435,783,731 383,207,517	169,539,287 135,971,623 1,513,389,889 2,619,513,041 311,515,657 483,638,832 462,347,821 436,638,318	204,211,680 132,957,699 1,612,448,740 2,813,092,274 355,009,130 502,850,308 439,513,402	199,016,575 141,493,983 1,770,707,067 2,999,318,714 342,731,190 432,316,508 409,642,138 512,628,119	174,266,197 127,022,481 1,500,303,451 2,450,173,078 273,174,256 296,156,731 329,898,695 420,984,045
Canada		6,167,384,194			5,601,880,583

NET VALUES OF PRODUCTION.

Province.	Province. 1926.		1928.	1929.	1930.	Percent- age of Total Net Value in 1930.	
	\$	\$	\$	\$	\$	p.e.	
P. E. Island	26, 325, 625 124, 218, 480 90, 964, 915 889, 594, 363 1, 371, 688, 666 207, 100, 745 357, 046, 762 298, 026, 980 289, 801, 471 5, 588, 596	378, 578, 571 291, 140, 286 5, 226, 350	144,272,367 85,364,983 979,666,796 1,572,835,443 235,182,568 413,825,134 341,413,575 321,354,242 5,465,945	5,509,564	114,402,720 78,772,589 892,076,365 1,380,458,865 142,170,105 134,134,319 184,659,449 268,972,091 4,465,130	3·56 2·45 27·73 42·91 4·42 4·17 5·74 8·36	
Canada	3,640,356,608	3,901,505,298	4,122,509,862	3,946,669,211	3,216,746,735	100-00	

Relative Production in Different Provinces, 1930.—It will be seen from Table 3 that Ontario and Quebec held first and second places among the provinces in the net value of production in 1930. The percentage of production of each of these provinces to the total was higher than in 1929, when the net output in the two provinces represented 42·0 p.c. and 26·6 p.c. of the totals respectively. Third place in 1930, as in 1929, definitely goes to British Columbia with 8·4 p.c. of the total. Alberta and Manitoba are fourth and fifth respectively, replacing Saskatchewan and Alberta from these positions as in 1929. In 1930 Saskatchewan was in sixth place, followed by Nova Scotia, New Brunswick and Prince Edward Island in the order named.

Section 3.—Leading Branches of Production in each Province, 1930.

The Mari ime Provinces.—Production in Nova Scotia in 1930 was principally in the manufacturing, mining, agricultural and fisheries industries, which were accountable for 36·1 p.c., 23·6 p.c., 22·5 p.c., and 9·1 p.c., respectively, of the net output of the province; the contribution of manufactures, aside from processes carried on in connection with the extractive industries, was 25·0 p.c. In New Brunswick manufacturing also took first place as a producer of new wealth, the proportion being 37·5 p.c. Agriculture was second with 29·8 p.c. and forestry a close third. If the manufacturing group be limited to exclude processes carried on in connection with the extractive industries, then it ranked third after agriculture and forestry. Agriculture including fur farming contributed 76·8 p.c. of the net output of Prince Edward Island. In the Maritime Provinces as a whole, the value of production was 12 p.c. less than in the preceding year. The generation of electrical energy and trapping industries alone showed gains in 1930.

Quebec.—The product derived from manufactures in Quebec was greater than that from any other industry. Manufactures, aside from the output of establishments associated with the extractive industries, contributed 45·2 p.c., while the net output of the entire manufacturing division, referred to the same base, was 62·8 p.c. Agriculture with 19·4 p.c., forestry with 12·4 p.c., and construction with 11·3 p.c., occupied second, third and fourth places. The increases over 1929 in forestry and in the generation of electrical energy were 5·1 p.c. and 3·5 p.c., respectively.

Ontario.—The net production from the manufactures of Ontario, when stripped of all duplication, was \$708,000,000 or 51·3 p.c. of the total, compared with \$278,000,000 or 20·2 p.c. from agriculture. Construction held third place with 8·3 p.c. of the total, and mining followed with 8·2 p.c. The forestry output was 5·4 p.c. of the net production of the province. Decreases from 1929 were shown in all the main divisions of production. The net output of manufactures decreased by \$146,600,000, while agriculture showed a decline of \$61,900,000 or 18·2 p.c. Except in forestry and fisheries, Ontario led the other provinces in the productiveness of the main branches of industry. The province yielded precedence in forestry operations to Quebec alone, while British Columbia, Nova Scotia and New Brunswick obtained a greater income than Ontario did from fisheries. About 49·7 p.c. of the net manufacturing output of the country was contributed by Ontario and 36·7 p.c. of the agricultural income was derived from the same province.

The Prairie Provinces.—About 57.9 p.c. of the output of Saskatchewan was obtained from farming, which industry was also a predominant producer of new wealth in Manitoba and Alberta, the proportions being 32.8 p.c. and 46.9 p.c., respectively. Mineral production, chiefly coal mining, held second place in Alberta, with an output of 16.6 p.c. of the provincial total. Manufacturing was first in importance in Manitoba, representing 36.9 p.c. of the value of the net output. Moderate grain yields and lower prices accounted mainly for the decreases in the net production of the three Prairie Provinces. In Manitoba, mining and electric power showed gains in 1930 over the preceding year. The forestry, mining and electric power industries of Saskatchewan showed gains in 1930, and the net revenue from the electric power industry of Alberta was somewhat greater.

British Columbia.—The net production from manufacturing in British Columbia during 1930 was about \$118,000,000, but more than half of this amount was derived from manufacturing processes closely associated with the primary industries, especially logging and fishing. The remainder, \$50,911,000, was 18.9 p.c. of the net output of the province. Aside from manufacturing, forestry constituted the chief source of new wealth, about 24.0 p.c. of the total output of the province being contributed by the forest. Mining and farming followed in order, with percentages of 20.4 and 12.8, respectively.

Details showing the gross and net values of production, by industries, in the various provinces in 1930, together with percentages, are given in Tables 4 and 5.

Gross and Net Values of Production in Canada, by Industries and Provinces, 1930.

Note.—For Dominion totals, see Tables 1 and 2.

GROSS PRODUCTION.

Industry,	Prince Edward Island	Nova Scotia.	New Brunswick.	Quebec.	Ontario.
	\$	*	\$	\$	\$
Agriculture. Forestry Fisheries. Trapping. Mining Electric power. Construction. Custom and repair. Manufactures.	19,297,309 663,509 1,682,893 2,896 227,703 1,120,000 221,000 4,254,966	39,560,941 14,415,051 14,928,394 382,975 27,019,367 4,432,899 7,233,000 3,875,000 85,802,921	105,670 2,191,425 3,481,718 11,067,000 1,524,000	166,546,682 2,927,479 1,245,461 49,889,093 49,384,701 154,672,000 21,745,000	109,559,985 3,294,629 2,525,100 133,420,863 74,365,018
Totals	25,435,519	174,266,197	127, 022, 481	1,500,303,451	2,450,173,078
Industry.	Manitoba.	Saskat- chewan.	Alberta.	British Columbia.	Yukon.
	\$	\$	\$	\$	
Agriculture Forestry Fisheries Trapping Mining Electric power Construction Custom and repair Manufactures	95,891,602 8,171,589 1,811,962 668,869 6,041,628 7,715,253 22,010,000 11,700,000	1,259,837 2,368,612 5,470,623 27,361,000 9,680,000	8,287,448 421,258 999,216 30,619,888 5,540,498 25,081,000 10,700,000	93,765,447 32,458,391 771,899 71,111,586 14,215,500 32,987,000 11,210,000	1,914,032° 2,521,588
Totals	273,174,256	296,156,731	329,828,695	420,984,045	4,465,130

Gross and Net Values of Production in Canada, by Industries and Provinces. 1930—concluded.

NET PRODUCTION.

Industry.	Prince Edward Island.	Nova Scotia.	New Brunswick,	Quebec.	Ontario.	
	\$	\$	*	\$	\$	
Agriculture			23,480,377	173, 275, 448		
ForestryFisheries	584,142 1,141,279	11,134,268 10,411,202	21,965,180 4,853,575	110,779,636 2,502,998	74,954,317 3,294,629	
Trapping		382,975	105,670		2,525,100	
Mining	-	27,019,367	2,191,425		113.530.976	
Electric power	227,177	3.675,905		43,201,265	49,371,901	
Construction	728,000 150,000		7,193,550 1,250,000	100,536,800 15,986,000		
Manufactures ¹	1,708,139			560,036,409	36,036,000 876,358,542	
Totals	16,635,118	114, 402, 720	78,772,589	892,076,349	1,380,458,865	
Industry.	Manitoba.	Saskat- chewan.	Alberta.	British Columbia.	Yukon.	
	*	*	*	\$	*	
Agriculture	46,677,055	77,595,270	86,509,813	34,324,121		
Forestry	6.325.510		7, 186, 473	64,529,220	_	
Figheries	1,811,962	234,501	421,258	23,103,302	29,510	
Trapping	668,869			771,899	1,914,032	
Mining. Electric power	5,453,182 6,574,463	2,368,612 4,711,212	30,619,888 4,651,870	54,953,320 10,817,779	2,521,588	
Construction	14.306.500	17.784.650	16.302,650	21.441.550	_	
Custom and repair	7,860,000	6,090,000	6,990,000	8,120,000		
Manufactures1	67,663,725	26,668,609	40,692,898	117,990,663	_	
Totals	142,170,105	134, 134, 319	184,659,449	268,972,091	4,465,130	

¹ The figures for "manufactures" involve duplicated amounts which were deducted in computing the totals for each province. The duplication arises from including in two places a number of industries which may be regarded as extractive or as manufacturing processes. Shipbuilding for example was included under both "construction" and "manufacturing" up to 1929 (see footnote 1, Table 2). The following statement gives the amount of the duplication by provinces: Prince Edward Island, gross, \$2,033,757, net \$682,884; Nova Scotia, gross \$23,389,351, net \$12,656,024; New Brunswick, gross \$28,256,42, net \$14,644,759; Quebec, gross \$249,818,705, net \$156,702,888; Ontailo, gross \$271,025,350, net \$168,069,656; Manifoba, gross \$23,261,637; net \$15,171,161; Saskatchewan, gross \$13,104,558, net \$3,294,795; Alberta, gross \$15,577,403, net \$9,714,617; British Columbia, gross \$130,384,923, net \$67,079,793.

¹ Includes the trapping industry of the Northwest Territories.

5.—Percentage of the Value of the Net Production in each Industry to the Total Net Production of each Province, 1930.

Industry.	Prince Edward Island.	Nova Scotia.	New Brunswick.	Quebec.	Ontario.
	p.c.	p.c.	p.¢.	p.c.	p.c.
Agriculture. Forestry. Forestry. Fisheriee Trapping Mining Electric power. Construction Custom and repair Manufactures, p.e.s.	1·8/ 4·38	22·50. 9·73 9·10 0·33 23·62 3·21 4·11 2·39 25·01	27-88 6-16 0-13 2-78 3-56 9-13	19-42 12-42 0-28 0-14 4-62 4-84 11-27 1-79 45-22	20·17 5·43 0·24 0·18 8·22 3·58 8·26 2·61 51·31
Totals	100.00	100-00	100-00	109-00	100-00
Totals, Manufactures (Percentages to Grand Totals of Net Production)	10.27	38-10	37.54	62.78	63-48

5.—Percentage of the Value of the Net Production in each Industry to the Total Net Production of each Province, 1930—concluded.

Industry.	Manitoba.	Saskat- chewan.	Alberta.	British Columbia.	Yukon.	Canada.
	p.c.	p.c.	p.e.	p.c.	p.c.	p.c.
Agriculture	32-83	57-85	46.85	12-76	_	23.59
Forestry	4.45	4.24	3.89	23 - 99	-	9.42
Fisheries	1 . 27	0.17	0-23	8-59	0-66	
Trapping	0.47	0.94	0.54		42.871	
Mining	3.84	1.77	16.58		56-47	
Electric power	4 . 62	3 51	2.52		-	3.92
Construction	10.06	13 - 26	8.83		-	9.23
Custom and repair		4.54	3.78			2.65
Manufactures, n.e.s	86-93	13.72	16.78	18-93	- 1	40-69
Totals	100-00	100.00	100.00	100 - 84	100.00	100-00
Totals, Manufactures (Percentages to Grand Totals of Net Production)	47-59	19-88	22.04	43.87		54-77

Includes the trapping industry of the Northwest Territories.

CHAPTER VIII.—AGRICULTURE.

Agriculture, including stock raising and horticulture, is the chief single industry of the Canadian people, employing, in 1931, 28-7 p.c. of the total gainfully occupied population and 33-9 p.c. or over one-third of the gainfully occupied males. In addition, it provides the raw material for many Canadian manufactures, and its products in raw or manufactured form constitute a very large percentage of Canadian exports. For a statement of the occupied and the available agricultural lands in Canada, see p. 39 of this volume.

This chapter of the present volume contains a statement of current governmental activities in connection with agriculture, including those of the Dominion and Provincial Experimental Stations. This is followed by statistics of agriculture, including agricultural revenue and wealth, field crops, farm live stock and poultry, fur farming, dairying, fruit, special crops, farm labour and wages, prices, miscellaneous, and, since Canadian exports of agricultural commodities are sold in the world market, a review of world statistics of agriculture, compiled from the publications of the International Institute of Agriculture.

The Canada Year Book, 1924, contained, on pages 186 to 191, an article on the "Development of Agriculture in Canada", by Dr. J. H. Grisdale, Deputy Minister, Department of Agriculture, Ottawa. To this the interested reader is referred.

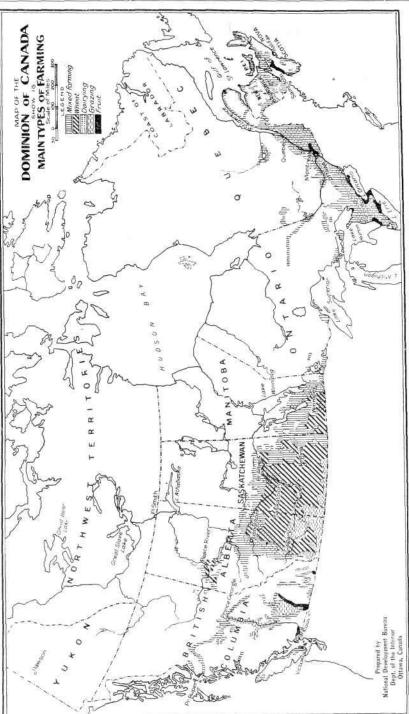
Section 1.—The Government in Relation to Agriculture.

It is provided in section 95 of the British North America Act that "in each province the Legislature may make laws in relation to agriculture in the province"; it is also "declared that the Parliament of Canada may from time to time make laws in relation to agriculture in all or any of the provinces; and any law of the Legislature of a province relative to agriculture shall have effect in and for the province as long and as far only as it is not repugnant to any Act of the Parliament of Canada"

As a result of this provision, there exist at the present time Departments of Agriculture, with Ministers of Agriculture at their heads, both in the Dominion and in each of the nine provinces, though in most provinces the portfolio of agriculture is combined with one or more other portfolios in the hands of a single Minister. A short sketch of the functions of the various Departments follows.

Subsection 1.-The Dominion Department of Agriculture.

The Dominion Department of Agriculture was constituted in 1868 under authority of 31 Vict., c. 53, with numerous functions that were by no means purely agricultural, including: (1) agriculture; (2) immigration and emigration; (3) public health and quarantine; (4) the marine and immigrant hospital at Quebec; (5) arts and manufactures; (6) the census, statistics and the registration of statistics; (7) patents of invention; (8) copyright; (9) industrial designs and trade marks.



MAIN TYPES OF FARMING IN CANADA

In the course of time the purely agricultural work of the Department came to demand greater attention; the non-agricultural functions were one by one entrusted to other Departments of the Government, while specialization became the order of the day within the Department of Agriculture itself. At the present time it includes the following branches: (1) Experimental Farms; (2) Dairy and Cold Storage; (3) Health of Animals; (4) Live Stock; (5) Seed; (6) Entomological; (7) Fruit; (8) Publications; (9) Agricultural Economics.

For the Acts of Parliament administered by the Dominion Department of Agriculture, see in the index "Acts of Parliament administered by Dominion Government Departments" For the publications of the Department, covering a wide field of information, see in the index the entry "Publications of Dominion Departments".

Subsection 2.—Provincial Departments of Agriculture.1

Prince Edward Island.—The Department of Agriculture is presided over by a Minister, and the staff consists of a Deputy Minister, a Live Stock Superintendent, a Superintendent of Women's Institutes and a Dairy Superintendent. Assistance is given in co-operative marketing, promoting the live-stock industry and encouraging exhibitions, the formation of boys' and girls' clubs and the welfare of agriculture generally.

Nova Scotia.—Agriculture in the province of Nova Scotia is administered by the Department of Agriculture. The Department is divided into the following main divisions: (1) administration, (2) agricultural college, (3) demonstration farm, (4) demonstration poultry plant, (5) poultry, (6) government creameries, (7) dairying, (8) horticulture, (9) apiculture, (10) live stock, (11) entomology, (12) botany, (13) soils and fertilizers, (14) agricultural associations and societies, (15) exhibitions, (16) extension service, (17) women's institutes, (18) field crops, (19) marketing.

New Brunswick.—The branches of the Department of Agriculture of New Brunswick are as follows: (1) industry, immigration and farm settlement, (2) elementary agricultural education, (3) agricultural societies and live stock, (4) dairying, (5) horticulture, (6) soils and crops, (7) poultry, (8) bee-keeping, (9) women's institutes, (10) agricultural representatives.

Quebec.—The Quebec Department of Agriculture comprises a certain number of branches and sections as follows: Agricultural Economics Branch, including the following sections: publicity; co-operation, markets and statistics; demonstration farms; agricultural surveys; field husbandry; drainage; home economics; beekeeping and sugar making; agricultural societies. Live Stock Branch, including the following sections: dairy; veterinary; swine; sheep; horses; poultry; farm buildings. Horticulture Branch, including the following sections: fruit growing; truck crops; vegetable canning; flower growing; phytopathology; entomology; botany. Agricultural Representatives Branch: 82 agricultural representatives' offices are now established in rural counties of Quebec and are under the supervision of 6 inspectors. The above organizations are all under one General Director of Branches.

There are other activities which are not included in the above organization, such as: agricultural education; agricultural merit competition; provincial dairy school.

¹For publications of provincial Departments of Agriculture, see in the index the entry "Publications of Provincial Governments".

Ontario.—The Ontario Department of Agriculture includes the following branches: agricultural and horticultural societies, live stock, institutes, dairy, fruit, crops, co-operation and markets, statistics and publications, agricultural representatives, colonization and immigration, Agricultural Development Board and the Ontario Marketing Board. The Department is responsible for the administration of the Ontario Agricultural College, the Ontario Veterinary College, the Kemptville Agricultural School, the experimental farms at Guelph, Ridgetown and Vineland, and the demonstration farms at New Liskeard and Hearst.

Manitoba.—The Manitoba Department of Agriculture includes an agricultural extension service, a dairy branch, a publications and statistics branch, a live-stock branch, a registrar of co-operative associations, and a weeds branch. It also conducts the Manitoba branch of the Employment Service of Canada.

Saskatchewan.—The work of the Department of Agriculture is chiefly administrative. It includes the following principal branches: live-stock, field crops, dairy, statistics, co-operation and markets, a bee division and a debt adjustment The Live Stock Branch provides the organization for examining and licensing stallions, purchasing and selling cattle, sheep and hogs to farmers on credit terms, and registering brands for live stock. Pure-bred sire areas are being created under statutory authority in order to eliminate undesirable sires and improve the quality of live stock. The poultry industry is promoted through the flockculling service, the turkey-grading service and the approved hatchery policy. The Field Crops Branch aids in promoting better crops and providing control measures for suppressing insect and weed pests. The Dairy Branch directs the grading of cream at all the creameries, promotes herd improvement through cow-testing and administers the provisions of the Dairy Products Act with respect to licensing creamery operators, cream testers, and the bonding of creameries. The Statistics Branch, in co-operation with the Dominion Bureau of Statistics, maintains a cropreporting service and gathers annual data respecting the crops and live stock of the province. The Co-operation and Markets Branch grants charters to cooperative associations under the Co-operative Associations Act, promotes cooperative stock shipping and poultry marketing and maintains an exchange service by a weekly news letter through which buyer and seller are brought together. An Apiary Division has been organized to assist bee-keeping, which is developing substantially. Agricultural societies are organized by the Department and grants are paid through the Department, while direction of the activities of societies is centered in the College of Agriculture of the University of Saskatchewan.

Alberta.—The Alberta Department conducts the following main services: agricultural schools and demonstration farms, field crops, dairy, live-stock, veterinary, poultry, apiaries, fairs and institutes, branding, game regulation, women's bureau service, provincial publicity bureau, crop reports and statistics, marketing services, district agriculturists and a branch looking after the fur farm leases of the province.

The attention of the Department has recently been given to the development of apiculture and a Provincial Apiarist is engaged in this work. Increased encouragement is being given to the live-stock industry through the "Pure-bred Bulls Purchase Act", and in giving supervision to the feeding plan for beef cattle now being carried out by the "Red Label" Beef Association. Increasing efforts are being made to cope with the weed menace and encouragement is being given to the sale and production of registered seed. The poultry industry is also receiving

increased attention. Money is expended each summer in connection with soil survey work, and special efforts are being directed to the development of forage crops and grasses and the improvement of pasturage.

British Columbia.—The Department of Agriculture consists of three main divisions which deal with general administration, animal industry and plant industry.

The extension service with representatives located in 15 agricultural districts is directly under General Administration, together with the Markets Branch. The Animal Industry Division includes: dairy, poultry, veterinary and general livestock branches, as well as brands inspection and junior club work. The Plant Industry Division includes: plant quarantine, disease and pest control, pathology and entomology, apiary inspection, field crops and horticultural activities.

Particular attention has been given to the development of a live-stock policy, by which the favourable climatic conditions of the Coast districts of British Columbia will enable farmers to finish live stock ready for the market at seasons when weather conditions are not favourable in other parts of Canada. This policy has been devised with the aim of enabling the farmers of British Columbia to supplement the work of the prairie live-stock men in maintaining a continuous supply of well-finished animals for the market.

The British Columbia Department of Agriculture through its Dairy Branch has compiled its initial list of pure-bred sires (of the four dairy breeds) which have five or more daughters with records of production. Where known the records of the dams of these daughters are also given, offering opportunities for comparison. Although the full value of this service is not realized as yet, the breed associations have expressed approval of the undertaking. It enables them to recognize worthy sires in time and avoids their being lost or prematurely killed through ignorance of their value.

Subsection 3.—Dominion and Provincial Agricultural Experimental Stations.

Amongst the most important contributions of Canadian Governments to the development of agriculture throughout the country, is the maintenance of agricultural experimental stations, where research work in both plant and animal breeding and adaptation to climatic conditions is carried on. Already this work has had a profound effect in the improvement of Canadian agriculture. introduction during recent years of Marquis wheat is an outstanding example, and it is of interest to note that other newer wheats, particularly Garnet, also originated by the experimental farms, may in the near future replace the Marquis in large areas. Among the earlier experiments undertaken, the results of which have passed permanently into good Canadian farm practice, may be mentioned those relating to early seeding, summer fallowing, the use of farmyard manure, the fertilizing value of clover crops and the introduction of suitable grasses and clovers. Both the common red clover and alfalfa now enter into rotations as the result of experiments and efforts to obtain hardy strains and to discover means of resistance to winter-killing. Further experiments with earlier-ripening and droughtresisting cereals are now being carried on, each new discovery increasing the cultivable area of Canada. Other researches relate to the production of frostresisting fruit trees for the Prairie Provinces. This research work has already had a profoundly ameliorating effect upon Canadian agriculture. Statements regarding the work now under way at the Dominion Experimental Farms and Stations and at Provincial Agricultural Colleges and Experimental Stations follow.

(A) Dominion Experimental Farms and Stations.1

Inaugurated in 1886 by Act of Farliament (49 Vict., c. 23), the Dominion Experimental Farms system was at first made up of the Central Farm at Ottawa and four branch farms: one at Nappan, Nova Scotia, for the Maritime Provinces; one at Brandon for Manitoba; one at Indian Head for the Northwest Territories; and one at Agassiz for British Columbia.

The opening up and rapid settlement of the Dominion have led to a corresponding increase in the number of experimental farms and stations.¹ These, with an experimental fox ranch, now total 28, with a total acreage of 15,577, as compared with the original five farms, with a total acreage of 3,472, established in 1886. The following list shows the present number of farms and stations, with the acreage of each and the date of establishment.

DOMINION EXPERIMENTAL FARMS AND STATIONS, 1932.

Farm or Station.	Province.	Acreage.	Date Estab- lished.
Central Farm, Ottawa	Ontario	825 5	188
Capuskasing Station	Ontario	1,270	191
Larrow Station	Ontario	. 198-3	190
harlottetown Station	P.E.I	173-1	190
ummerside Fox Ranch	P.E.I	12	192
Jappan Farm	Nova Scotia	465	188
Centville Station.			191
redericton Station			191
te. Anne de la Pocatière Station			191
ap Rouge Station			191
ennoxville Station			191
arnham Station	Quebec		191
a Ferme Station			îšî
Assomption Station			192
Brandon Farm			188
forden Station			191
ndian Head Farm			188
ndian Head Forest Nursery Station	Saskatchewan		200
utherland Perset Nursery Station	Saskatchewan		
utherland Forest Nursery Station			190
Costhern Station			191
wift Current Station			192
			190
acombe Station			196
ethbridge Station	Alberta		190
Vindermere Station		420	192
ummerland Station			188
gassiz Farm	Etitish Columbia.	1,400 130	191

In addition there are 12 sub-stations, viz., Regina and Rosthern, Sask.; Wainwright, Fort Vermilion and Beaverlodge, Alberta; Fort Smith, Resolution, Providence and Good Hope, Northwest Territories; Carmacks, Yukon; Horse Farm, St. Joachim (operated from Cap Rouge), and Harrington Harbour, Quebec. There is also the Dominion Range Experiment Station at Manyberries, Alberta, and a special Forage Crops Research Station at the University of Saskatchewan, Saskatoon. Experimental work under the Division of Illustration Stations is conducted on 13 farms in Prince Edward Island, 16 in Nova Scotia, 19 in New Brunswick, 58 in Quebec, 18 in Ontario, 15 in Manitoba, 30 in Saskatchewan, 22 in Alberta and 18 in British Columbia. Small experimental plots are also being operated at several points along the line of the Hudson Bay Railway.

¹The five original farms established in 1886 are known as "Experimental Farms"; those added since are styled "Experimental Stations". No distinction in the work is implied by these titles.

¹Transferred in 1931 from the Forest Service, Department of the Interior, to the Department of Agriculture.

Organization of the System of Experimental Farms.—The Central Farm at Ottawa, as its name implies, is the centre or headquarters of the system. Thereat are stationed the Director, having control and general supervision of the whole, and the chief technical officers, each having charge of his special line of work, both at the Central Farm and the branch farms. At Ottawa, the policy to be pursued throughout the system is settled by agreement after discussion by the Director, the technical officers, and the superintendents on whose branch farms the work is to be conducted. The technical staff at Ottawa supervises the actual experimental work at the Central Farm. At the branches, the superintendents are in charge of the carrying out of the various lines of general experiment, and also conduct experiments of local importance.

The divisions at Ottawa, which represent the different lines of work carried on throughout the system, and have each a technical officer in charge, are as follows: (1) animal husbandry; (2) bacteriology; (3) bees; (4) botany; (5) cereals; (6) chemistry; (7) extension and publicity; (8) economic fibre production; (9) field husbandry; (10) forage plants; (11) horticulture; (12) illustration stations; (13) poultry and (14) tobacco. Briefly the main lines of the work of these divisions are as follows:—

Animal Husbandry.—This division is concerned mainly with projects relating to the economical production of live stock and live stock products on the farms of Canada. Demonstrational, experimental and research work in breeding, feeding, housing and management of beef cattle, dairy cattle, horses, sheep and swine and in the handling of the products of these classes of live stock on the farm constitute the main lines of work of the division.

Bacteriology.—The work of this division consists chiefly in research conducted in close co-operation with other divisions on problems having a bacteriological bearing. The main lines of investigation deal with questions of pure milk production and maintenance, soil fertility, the preparation and preservation of food-stuffs and fodders, bee diseases, etc. Assistance is given to farmers through the preparation and distribution of cultures of legume bacteria for seed inoculation. Further service is rendered through the bacteriological analysis of water, milk, foods and feeding stuffs, soils and many other materials.

Bees.—The work of the Bee Division is divided into three parts: (1) Experimental and research work related to the care and management of bees. This includes the investigation of such problems as swarm control, wintering, bee diseases, queen breeding, etc. (2) Honey investigations. In co-operation with other divisions a thorough examination of Canadian honeys is being made and projects relating to the storage of this commodity are being conducted. In addition the inspection of honey for export trade is being carried out. (3) The dissemination of information by means of bulletins, pamphlets, press articles, correspondence, lectures, etc., to the beekeepers throughout Canada.

Botany.—The work of this division deals with two main phases, economic botany and plant pathology. The former comprises a study of plants of use in agriculture, including medicinal and poisonous plants and plants of general economic value. Considerable attention is being given to a Dominion-wide survey of weeds and a study of the life history of the more important kinds. Many phases pertaining to this section of work are carried on co-operatively with other services in the Department. Pollination studies, pasture investigations, etc., are being carried on under a well-devised policy. A herbarium is maintained, which is be-

coming increasingly valuable as a reference collection not only for the use of the Department, but also for students and colleges. For reference purposes an extensive collection of seeds has been accumulated, and constitutes one of the most valuable in the Dominion. It comprises representative collections of seeds of plants occurring all over the globe.

The plant pathology section is devoted to research on diseases caused by fungi and bacteria occurring on each and every kind of plant, whether constituting our natural resources, including forestry, or grown for special purposes. Without a recognition of the most up-to-date and modern means used in plant pathology, immense national losses would result. Many instances might be quoted to indicate that modern methods of control and prevention have been responsible for a substantial reduction in the cost of production of all kinds of crop plants.

At Ottawa the Central Plant Pathological Laboratory serves as headquarters for the Dominion. At the same time, besides undertaking special phases of mycological research, the Central Laboratory directs the policy of a series (10) of branch laboratories extending from coast to coast and dealing with the important phases of work of local interest and importance. Among these laboratories, the Dominion Grain Rust Research Laboratory at Winnipeg may be specially mentioned, as an example of a centre of close co-operation between Dominion and Provincial agencies in the study and prevention of losses from grain rust. Three of the branch laboratories deal with the fruit industry, viz.: Kentville, N.S., St. Catharines, Ont. and Summerland, B.C. Field crop and potato diseases are dealt with mainly at Charlottetown, P.E.I. and Fredericton, N.B., while Edmonton, Saskatoon, and the Winnipeg laboratory already referred to, are concerned with the diseases of grain most important economically, viz., smuts, rusts, foot and root rots, etc. Saanichton, B.C., serves the interests of Vancouver island and the Fraser valley.

The Central Laboratory directs a Dominion-wide plant disease survey, keeping a close watch on the progress of diseases and enabling steps to be taken without delay to prevent the unsuspected establishment of the insidious enemies of agriculture throughout the Dominion.

The seed potato certification service is also directed from these headquarters and its aggressive policy has secured most valuable export markets for the Dominion.

The National Mycological Herbarium and a unique collection of forest pathological and wood-destroying fungi, both of specimens and living cultures may be mentioned as outstanding among reference collections.

In addition to these more or less specialized research phases of work, the importation of plants and plant products is closely supervised to prevent entry of destructive plant diseases. Thus there exists a plant pathological service devoted to the maintenance of health and quality of every agricultural commodity produced in Canada.

Cereals.—The chief functions of the Cereal Division may be enumerated as follows: (1) the production of superior varieties of cereal and leguminous grains by a process of breeding and selection; (2) the importation and testing of promising varieties from other countries; (3) the production of élite stock seed of registerable varieties of grain for propagation by members of the Canadian Seed Growers' Association; (4) the evaluation of various crop combinations which may prove especially desirable for specific purposes; (5) the systematic descrip-

tion and study of leading varieties; (6) the verification of the genuineness and purity of seed stocks submitted for the purpose; (7) the investigation of varieties of grain for which a licence has been requested, in accordance with the Canada Seeds Act; (8) the identification of varieties submitted by farmers and others; (9) the encouragement of the use of good seed of adapted varieties through the use of exhibits, press articles and public addresses; (10) the investigation of special problems which have a bearing on cereal breeding and development work.

Probably the most important problem which the division has in hand at the moment is an attempt to develop for Western Canada a variety of hard red spring wheat capable of resisting the ravages of stem rust. This work, which is centralized chiefly at the Rust Laboratory at Winnipeg, appears to be progressing rapidly toward the goal desired.

Chemistry.—Investigations towards the solution of problems affecting Canadian agriculture and direct assistance to farmers, market gardeners, provincial agricultural representatives and others through correspondence and analysis, constitute the two chief phases of the division's activities. Further important work includes the official chemical examination of food products submitted by the Health of Animals Branch, the Dairy and Cold Storage Branch and the Fruit Branch—about 2,000 samples in all. The division also renders chemical assistance to a number of branches of the Government service, e.g., the National Parks Branch, Department of the Interior; the Department of Marine and the Department of Fisheries.

Extension and Publicity.—This division edits and prepares for printing all publications issued by the Experimental Farms, prepares and stages educational exhibits at fairs and exhibitions throughout Canada, maintains and operates a lending bureau of educational lantern slides, issues annually to the press about 200 timely and seasonal articles, and in various other ways makes the work of the farms as widely known as possible.

Economic Fibre Plants.—Extensive field and mill experiments are carried out with the best varieties of fibre flax and hemp on the Experimental Farm plot fields at Ottawa and several of the branch farms. The division renders valuable marketing services to the Canadian flax growers by serving as a medium for trade with Ireland. Increasing amounts of fibre seed are being sold in the Irish market each year.

Field Husbandry.—Experiments are being conducted by this division in order to learn the most suitable crop rotations and crop sequences for various parts of Canada. Information is being secured on the newest and best methods of preparing the land for different crops, as well as on the most efficient methods of seeding and harvesting. Investigations are in progress in regard to drainage, to irrigation and learning the most efficient methods of conserving and utilizing soil moisture in the Prairie Provinces.

How to control the noxious weeds which cause such serious economic losses in many parts of Canada is an important problem studied by means of various cropping systems, cultivation methods and applications of chemicals. How to improve the carrying capacity of unproductive pasture land is another project under investigation. The cost of operating tractors, the value of new types of farm machinery, and the cost of producing various farm crops is being studied. Comprehensive trials with various silage crops are being continued in order to secure the most reliable information on the proper time and method of ensiling corn, sunflowers, red clover, sweet clover, alfalfa, buckwheat, cereals and other farm crops. To determine the most economical means of using farm manure and commercial fertilizers for farm crops is the object of another group of field husbandry experiments.

Forage Plants.—This division has for its work the improvement of forage plants by breeding, the technique of seed production, principles of compounding seeds mixtures, response of different species to grazing, the introduction and testing of new species, and related problems. These studies cover a wide range of crop plants including herbage grasses and legumes, corn, sunflowers, field roots, sugar beets, soya beans, and cereals for forage. Research work with crops that are adapted to Eastern Canada is centered at Ottawa. In Western Canada the Dominion Forage Crops Laboratory has been established at Saskatoon, Sask., in co-operation with the University of Saskatchewan, for the purpose of developing early maturing, hardy, and drought-resistant strains of herbage plants adapted to the Prairie Provinces. At the Dominion Range Experiment Station at Manyberries, Alberta, range investigations are in progress to study changes in the natural vegetation under different systems of grazing and other feed problems associated with range management.

Horticulture.—The Division of Horticulture deals with fruit growing, vegetable gardening and with ornamental plants. The breeding of new varieties has been an important feature of the work of this division. Some of the outstanding fruits originated there which are being planted in Canada are: apples—Melba, Joyce, Hume, Lobo, Linda and Sandow; raspberries—Brighton and Count; strawberries—Cassandra and Portia, and of vegetables: corn—Banting and Pickaninny; egg plant—Blackie; rhubarb—Ruby; tomato—Abel, Alacrity, Bestal and Herald.

Valuable research work in cider making is being done in this division and cold storage experiments with fruits are in progress. The division co-operates with farmers in orchard experiments and blueberry and cranberry investigations. Research in plant nutrition is also an important line of work.

Illustration Stations.—By comparative demonstration the Division of Illustration Stations is carrying forward a co-operative program of crop introduction and improvement on some 209 privately-owned farms. These stations are located in the different provinces, primarily in newly-settled agricultural communities, where the most suitable varieties and crops are not being grown, or in the older settled districts, which have developed acute problems in crop production, resulting from weed infestation, soil drifting, depletion of soil fertility, as well as many other varying factors, which limit crop growth. As centres for production of seed grain, seed potatoes, grasses and clover seeds from the most suitable and hardy varieties, the illustration stations have accomplished a great deal and have established leadership in the community in general farm improvement, including livestock, building and home beautification.

Poultry.—While past conditions called for work largely along practical demonstrational lines, the present demands more scientific investigation, particularly in the studies of nutrition, disease and breeding problems. To meet these requirements, trained men have been added to the staff and, through the co-operation of the Health of Animals Branch, additional assistance has been supplied for the study of disease, so that the division is equipped as never before to assist the industry as a whole and the individual poultryman in particular in solving the various problems that are continually arising in this rapidly growing field. In addition, the registration of poultry has increased throughout the whole Dominion.

Tobacco.—The Tobacco Division is concerned with investigational and research work in connection with the tobacco industry of Canada. This includes active research on problems of fertilizers and soils; breeding, selection and standardization

of varieties; cultural methods; curing and fermentation; diseases and insects; marketing; exhibitions and educational work. Through a closer co-ordination between Dominion, provincial and industrial agencies the industry has made great progress during the past five years, both in the domestic and export markets. The research work of the Dominion tobacco service was completely reorganized in 1929 and subsequently; a co-operative relationship has been developed with the Department of Trade and Commerce with a view to opening up new outlets for Canadian leaf; joint committees, consisting of Dominion and provincial officials, growers and members of the trade, have been set up in Ontario and Quebec to further the interests of the industry. In general, the Tobacco Division renders assistance in the development of Canadian tobacco production along sound economic lines.

In addition to the work done by the Divisions of Extension and Publicity and Illustration Stations, the results of the work of the Experimental Farms are made available to the farmer: (1) by correspondence; (2) by publications; and (3) by articles in the press. The farm officers devote considerable time each year to lecturing, demonstrating, judging at fairs and assisting at short courses in agriculture. Excursions to the various farms are also a valuable means of bringing the work to the attention of the farmer.

(B) Provincial Agricultural Colleges and Experimental Stations.

Under the above heading, outlines of the work done at provincial agricultural colleges and experimental stations were given by provinces at pp. 198-203 inclusive of the 1930 Year Book. The interested reader is referred to that volume, and to the following provincial publications for information concerning courses and programs of work at these institutions:—

Nova Scotia.—Annual Report of the Department of Natural Resources for Nova Scotia; College Prospectus of the College of Agriculture, Truro, N.S.

Quebec.—The Annual Report of Macdonald College, Ste. Anne de Bellevue, Quebec, and the prospectuses and annual announcements of the School of Agriculture, Ste. Anne de la Pocatière, and the Oka Agricultural Institute, Lake of Two Mountains, Quebec.

Ontario.—Annual Report of the Ontario Agricultural College and Experimental Farm, Guelph, Ont.

Manitoba.—Annual Report of the Manitoba Agricultural College, Winnipeg, Man.

Saskatchewan.—Annual Report of the College of Agriculture, University of Saskatchewan, Saskatoon, Sask.

Alberta.—Annual Report of the College of Agriculture, University of Alberta, Edmonton, Alberta.

British Columbia.—Annual Report of the Faculty of Agriculture, University of British Columbia, Vancouver, B.C.

Section 2.—Statistics of Agriculture.1

Gensus Statistics.—In addition to the statistics collected annually, which are the subject of this section, additional information is published, following each decennial census, on such subjects as the total number of farms, their tenure, acreage, value, mortgage debt, etc. In this volume of the Year Book, the latest information compiled to date on these subjects will be found in Appendix II.

Crop-Reporting Service.—The voluntary crop-reporting service of the Dominion Government, which has been in operation since 1908, has for its object the issue of accurate, timely and independent reports on crop conditions throughout the Dominion: first, in the interests of the general body of Canadian farmers: secondly, for the information and guidance of other interests allied to and dependent upon agriculture (interests represented by statesmen, economists, bankers, grain dealers, transportation agents and others); and thirdly, for reporting to the Institute of Agriculture at Rome (to which Canada is an adhering country), in return for reports on the production of other countries and of world totals which influence prices and consequently affect the interests of Canada. Supplementing the monthly reports from crop correspondents, the Bureau issues telegraphic crop reports utilizing the services of agriculturists throughout the Dominion. For the Prairie Provinces. these are issued every week from the first of June to the first of September, while the reports on a Dominion-wide basis are issued every two weeks during the same period. The program of reports for 1933-34 is given in the Monthly Bulletin of Agricultural Statistics, January, 1933, pp. 34-36 and is also issued as a special leaflet.

Annual Statistics.—In addition to the crop-reporting service, statistics of the areas under field crops and of the numbers of farm live stock are collected. These arrangements have been in force since 1918, and are carried out by the Dominion Bureau of Statistics in co-operation with the Provincial Governments. The statistics are secured by simple schedules which are at present returned by about one-fifth of the farmers of Canada. They form the basis of the estimates for the whole of Canada. The results for wheat, oats, barley, rye and flax in the three Prairie Provinces are ready for publication in August, while the results for the remaining crops and for the numbers of farm live stock are published in November and December. The areas, thus determined, when multiplied by the average yields per acre as reported by crop correspondents, form the basis of the total estimated production for each crop.

The June schedule covers the areas sown to field crops, the numbers of live stock and poultry on hand and breeding and marketing intentions with regard to live stock and poultry. The December schedule contains the same items with the exception of field crop areas.

In 1932, in eight of the provinces, the schedules were distributed and collected through the agency of the rural schools, under plans which have been found effective in securing a larger sample of the farms of the country than could be obtained in any other way. In British Columbia the schedules were sent direct to the farmer through the mail.

Revised under the direction of Dr. T. W. Grindley, Chief of the Agricultural Branch, Dominion Bureau of Statistics. This Branch is concerned with both primary and secondary statistics of agriculture, including statistics of the production and distribution of agricultural commodities. The primary statistics relate mainly to the reporting of crop conditions, crop and live-stock estimates, values of farm lands, wages of farm labour, and monthly and annual prices received by farmers for their products. The secondary statistics relate to the marketing of grain and live stock, and reports on the milling and sugar industries and cold-storage holdings. A list of the publications of this Branch is given in Chapter XXIX, Section I, under "Production".

Monthly Bulletin of Agricultural Statistics.—Originally established in 1908 as the "Census and Statistics Monthly", but changed to its present title in April, 1917, this publication is now in its twenty-sixth year. It is the official organ, not only for the monthly crop reports and annual statistics previously described, but also for statistics of dairying, fur farming, fruit, hives and honey, hops, tobacco, maple products, sugar beets, beet sugar, flax fibre, clover and grass seeds, exports, visible supplies, prices, values, foreign agriculture and other subjects in considerable variety.

Presentation of Agricultural Statistics.—In the current edition of the Year Book, statistics of agriculture are presented under the following headings: (1) Agricultural revenue and wealth; (2) Acreage, yield and value of principal field crops, distribution of the wheat and oat crops, etc.; (3) Farm live stock and poultry; (4) Fur farming; (5) Dairying; (6) Fruit production; (7) Special agricultural crops; (8) Farm labour and wages; (9) Prices of agricultural produce; (10) Agricultural statistics of the census; (11) Miscellaneous agricultural statistics; (12) Principal agricultural statistics of the world.

Subsection 1.—Agricultural Revenue and Wealth.

Revenue.—Table 1 shows under principal headings the gross agricultural revenue of Canada, by provinces, for the years 1928 to 1932. It is important to note that the figures represent gross values, as no distinction is made between crops used as materials for other kinds of production, such as the feeding of live stock, and no allowance is made for the costs of production.

1.—Estimated Gross Annual Agricultural Revenue of Canada, Itemized by Provinces, 1928-32. ("000" omitted.)

Item.	1928.	1929.	1930,	1931.	1932.
	\$			\$	\$
anada—	1 105 000	010 001	ec4 A41	432,199	416.587
Field crops		948,981	662,041	96,778	69.033
Farm animals	197,880	207,317	166,630 2,311	1,644	1.093
Wool	5,099	4,470	269,844	161.244	131.623
Dairy products	297,625	291,743	49,417	39.692	30,24
Fruits and vegetables	48,756	46,398	95, 227	65, 178	48, 824
Poultry and eggs		107,664		3.557	2,732
Fur farming	6, 106	6.791	4,925 5,251	3.538	2,747
Maple products	5,583	6,119	7,058	7,178	6.088
Tobacco	6,834 509	6,276 393	7,000	1179	170
Flax fibre			2,482	1,497	962
Clover and grass seed	2,957	2,123		2,246	1.65
Honey	3,015	2,806	2,004	2,210	1,00
Tetals	1,806,028	1,631,081	1,269,141	814,930	711,88
rince Edward Island—				4 540	
Field crops	12,444	16,940		6,829	6,393
Farm animals	2,353	2,405	2,212	1,005	75
Mool	146	122	50	35	24
Dairy products	3,804	2,955	2,500	1,933	1,50
Fruits and vegetables	253	253	149	118	9:
Poultry and eggs	1,637	1,523	1,461	992	70
Fur farming	1,641	1,741	1,010	779	59
Clover and grass seed	18 1	35 2	43 1	1	
Totals	22,297	25,976	18,399	11,695	10.07

1.—Estimated Gross Annual Agricultural Revenue of Canada, Itemized by Provinces, 1328-32. ("000" omitted)—continued.

Item.	1928.	1929.	1930.	1931.	1932.
No Clark		 -	*	\$	\$
Nova Scotia— Field crops	18,824	20,945	16,647	10,087	10.206
Farm animals.	4,615	4,687	4,186	2,313	1,909
Wool	391 11,802	364 11.464	197 10, 258	111 6,934	5, 608
Dairy products. Fruits and vegetables.	4.243	8,628	4,042	3,870	2,23
Poultry and eggs	1,761	1,905	1,819	1,851	1,00
Poultry and eggs. For farming Maple products. Clover and grass seed.	367 59	346 56	825 36	228 26	17: 41
Clover and grass seed	12	10	10	- I	-
Honey	6	7	7	9	. (
Totals	42,480	43,412	37,527	24,929	21,22
New Brunswick—					
Field crops	18,275	23,835	18,554	10,670	12,62
Farm animals	3,778 242	8,647 191	3,746 89	3,214 81	2,29 4
Dairy products. Fruits and vegetables.	8,662	8,784	7,730	6,333	4,42
Fruits and vegetables	1,011	999	1,027	966	69
Poultry and eggs. Fur farming	1,835 893	1,720 715	1,714 624	1,411 498	1,21- 38
Maple products	32	38	27	21	20
Maple products. Clover and grass seed. Honey.	16 17	18 22	12 11	ĭo	ŝ
Totals.	34,761	39,919	33,534	23,204	21,71
Ouebee—	32,142				
Field grons	130, 363	153,664	120,366	73,478	70,38
Farm animals	37,319	41,001	32,300	19,729 584	13,814 33
Wool	1,367 93,116	1,320 86,698	745 83,630	39.162	30,43
Dairy products. Fruits and vegetables.	7,577	7,974	7,325	6.465	4,777
routerv and eggs	16,180	14,407	13,518	9,243 693	7,50- 53:
Fur farming	1,506 3,604	2,104 4,767	1,258 3,612	1,817	1. 72
Tobacco	978	1,210	792	336	329
Maple products Tobacco Clover and grass seed Honey	151 611	I 15 438	89 455	154 595	110 216
Totals	232,772	315,698	264, 085	152,216	129,650
Ontario—					
Field crops	243,768	241,778 76,022	179,919 60,738	124,541	113,904
Farm animals	75,908 1,502	76,022 1,323	60,738 632	33,486 458	23, 22, 287
Deiry products	117.935	115,757	103.194	56,519	46.42
Dairy products. Fruits and vegetables.	19,658	19,2081	20, 207	16,424	11.969
Fruits and vegetables Poultry and eggs. Fur farming Maple products Tobacco Flax fibre	45,993 748	44,773 777	41,461 817	29,491 603	21,797 468
Fur farming	1,888	1.258	1,576	1,674	951
Tobacco	5,823	5,039	6,244	6,814	5,708
Flax fibre	509	398	371 1,855	179	170 618
Clover and grass seed	2,314 1,267	1,672 1,208	870	1, 110 824	800
	517,313	599,298	417,884	272,123	226,446
Totals					
Wanitaha	113.492	78.919	52.975	24.847	28,981
Manitoba — Field crops	113,492 14,172	78,919 14,367	52,975 11,846	24,847 6,911	4,704
Manitoba — Field crops	14,172 163	14,367 102	11,846 120	6,911	4,704 28
Manitoba — Field crops Farm autmals. Wool. Dairy products.	14,172 163 17,597	14,367 102 14,404	11,846 120 15,007 1,644	6,911 60 12,139 1,281	4,704 26 9,909 986
Hanitobs— Field crops. Farm autmals. Wool. Dairy products. Fruits and vegetables.	14,172 163 17,597 1,567 7,272	14,367 102 14,404 1,464 8,920	11,846 120 15,007 1,644 7,998	6,911 60 12,139 1,281 5,237	4,704 26 9,904 986 3,893
Hanitobs— Field crops. Farm autmals. Wool. Dairy products. Fruits and vegetables.	14,172 163 17,597 1,567 7,272	14,367 102 14,404 1,464 8,920 374	11,846 120 15,007 1,644 7,998 263	6,911 60 12,139 1,281 5,237	4,704 26 9,904 986 3,893 150
Manitoba — Field crops Farm animals. Wool. Dairy products.	14,172 163 17,597 1,567 7,272	14,367 102 14,404 1,464 8,920	11,846 120 15,007 1,644 7,998	6,911 60 12,139 1,281 5,237	28, 981 4, 704 28 9, 904 9,86 3,893 150 412

1.—Estimated Gross Annual Agricultural Revenue of Canada, Itemized by Provinces, 1928-32. ("000" omitted)—concluded.

Item.	1928.	1929.	1930.	1931.	1932.
	\$	\$	*	*	\$
Saskatchewan—					
Field crops	348,586	235,248	135,695	70,347	80,647
Farm animals	23,390	25,150	20,744	12,490	9,535
Wool	237	226	108	108	74
Dairy products	21,331	23,125	19,847	14,511	12,584
Fruits and vegetables	2,737	1,850	2,584	2,063	1,674
Poultry and eggs	12,934	13,454	10, 121	6,934	5,509
Fur farming Clover and grass seed	108	127	152	154	118
Clover and grass seed	260	50	85	10	62
Honey	78	74	108	73	46
Totals	199,661	299,304	189,444	106,652	109,649
Alberta-					
Field crops	220,786	157.254	110.284	98.916	83,331
Farm animals.	29.322	32, 271	24,422	14.584	10.898
Wool	794	519	250	228	195
Dairy products	14,980	18,928	17,676	16.573	14,661
Fruits and vegetables	1.858	1,800	2,173	1.741	1,426
Poultry and eggs	9,867	11.880	10,147	5,883	4, 115
Fur farming	289	340	303	298	229
Fur farming	77	176	171	83	77
Honey	67	78	99	92	44
Totals	278,040	223,246	165,525	138,398	114,976
British Columbis—					
Field crops	18,465	20,398	16,628	12,484	10,714
Farm animals	7.023	7.767	6,436	3,046	2,403
Wool	257	243	120	57	52,700
Doing and dusts	8.398	9.678	10,002	7, 140	6.085
Dairy products	9,852	9, 222	10,266	6,774	6,396
Fruits and vegetables	9, 802	9.082	6, 993	4,636	3.084
Poultry and eggs	9, 174	9,082 267	0, 993 173	109	3,084 84
Fur farming.	33		22	28	54 56
Tobacco		27	33	28 49	36 36
Clover and grass seed	6 217	158	128	126	36 121
Ноцеу	217	198	128	120	121
Totals.,,,,,	53,644	56,849	50,796	31,449	29,631

Table 1 shows that in 1932 the estimated agricultural revenue of Canada was \$711,898,000 as compared with \$814,930,000 in 1931, \$1,268,141,000 in 1930, \$1,631,081,000 in 1929 and \$1,806,020,000 in 1928. The total for 1932 shows a decrease of \$103,032,000 or 12.8 p.c. as compared with 1931. The upward movement of farm prices since the above valuations were made would suggest an upward revision for 1932 revenue when new figures are compiled in March, 1934.

Wealth.—Table 2 shows approximately, by provinces, the gross agricultural wealth of the Dominion in 1932.

2.—Estimated Gross Agricultural Wealth of Canada, by Provinces, 1932. ("'000" omitted.)

Province.	Lands.	Buildings.	Imple- ments and Ma- chinery.	Live Stock.	Poultry.	Animals on Fur Farms.	Agri- cultural Pro- duction.	Total,
P.E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia.	35,947 32,795 828,025 371,272 145,156 556,138 377,797	43,890 38,680 257,918 487,009 88,389 223,795 137,332	97,270 151,928 54,847 185,510	4, 289 10, 780 11, 057; 73, 949 114, 740 29, 983 63, 964 52, 966 13, 994	\$ 528 818 1,023 5,980 13,891 2,536 4,169 3,052 2,141	1,413 1,439 481 444	\$ 10, 078 21, 238 21, 711 129, 656 226, 446 49, 113 109, 649 114, 976 29, 031	1,143,669
Totals	1,948,070	1,342,924	650,664	375,722	34,138	6,514	711,898	5,069,930

In this table, full use is made of the recently published results of the census of 1931 giving the values of lands, buildings, and implements and machinery for 1930. The 1932 figures quoted for buildings and for implements and machinery correspond with the values quoted in the 1930 returns. These items change very little in value. The 1932 figures for value of lands are based on the 1930 census figures but are corrected to 1932 levels by the use of the annual estimates of farm land values. The other four items—live stock, poultry, animals on fur farms and agricultural production—are estimates for 1932.

The gross agricultural wealth of Canada for 1932 is estimated at approximately \$5,069,930,000 as compared with \$5,696,972,000, the revised estimate for 1931.

Subsection 2.-Acreage, Yield and Value of Field Crops.

The Chief Field Crops of the Last Twenty Years.—In Table 3 will be found a summary statement of the acreages, yields and values of wheat, oats, barley, rye, buckwheat, flaxseed, potatoes, hay and clover and alfalfa for the latest 10 years. Comparative figures back to 1908, given at pp. 230-232 of the 1929 Year Book, indicate the recent growth of Canadian agriculture. In particular may be noted the tripling of the wheat crop, the almost doubling of the oat crop, the tripling of the barley crop, the thirteenfold increase in the rye crop, the 40 p.c. addition to the hay and clover crop and the sevenfold increase in the alfalfa crop within the past 25 years, disregarding the 1931 and 1932 crops as not, by any means, representing maximum yields. On the other hand, the acreages and yields of the potato crop have not shown a wide variation throughout the period, presumably because this crop is produced mainly for home consumption. Those who desire figures for earlier years will find certain information on acreage, yield and value on page xxiv of the Statistical Summary of Progress at the beginning of this volume.

3.-Areas, Yields and Values of Principal Crops Grown in Canada, 1923-32.1

Crop and Year.	Area.	Yield.	Total Yield.	Average Price	Total Value.
	000	bush.	000	\$	000
	acres.	per acre.	bush.	per bush.	\$
Wheat—		• •		l	
1923	21,886	21-7	474, 199	0-67 l	316.995
1924	22,056	11.9	262.097	1.22	320,362
1925	20,790	19.0	395, 475	1 23	487.736
1926,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	22,896	17.8	407, 136	1.09	442, 221
1927	22,460	21.4	479,665	1.00	477,791
1928	24,119	23.5	566,726	0.80	451,235
1929	25, 255	12.1	304.520	1.05	819,715
1930.	24,898	16.9	420.672	0.49	204.693
1931,,,,,,	26,201	12.3	321,325	0.38	123,550
1932	27,182	15.8	428,514	0.30	129,105
Oats				i	
1923	14,388	39-3	563,998	0.33	184,857
1924	14,491	28.0	405, 976	0.49	200.688
1925	12,556	32.0	402, 296	0.42	167, 171
1926	12,741	30.1	383.416	0.48	184.098
1927	13,240	33.2	439,713	ě-šĩ	225.879
1928	13, 137	34.4	452, 153	0.47	210,956
1929	12,479	22.7	282,838	Ŏ-69	168,017
1930	13, 259	31.9	423,148	0.24	102,919
	12,871	25.5	328, 278	0.24	77,970
1981		29.8	391,561	Ŏ.18 I	71.538
1932	15,110	, 23.0	,		,

¹For footnote see end of table, p. 232.

3.—Areas, Yields and Values of Principal Crops Grown in Canada, 1923-321—continued.

					
Crop and Year,	Area.	Yield.	Total Yield.	Average Price.	Total Value.
	000 acres.	bush. per acre.	000 bush.	per bush.	000
Barley		1 -		per busii.	•
1923	2,785	27.8	76,998	0.42	32,571
1924 1925	3,407 3,524	26·1 24·7	88,807	0-70 0-58	61,760 46,014
1926	3.647	27-4	87,118 99,987 96,938	0.52	52.059
1927	8,506	27.7	96,938	0.68	52,0 5 9 64,19 3
1923 1929	4,881 5,926	27.9	136,391	0.56 0.59	76,112
1930	5,559	17·3 24·3	102,313 135,160	0-20	60,505 27,254
1931	3,768	17.9	67,383 80,773	0.26	17,465
1932	3,758	21.5	80,773	0.20	15,794
Rye—			İ	l	
1923	1,448	16.0	23,232	0.49	11,340
1924	891	15.4	23, 232 13, 751	0.99	13,679
1925. 1926.	643 754	14·2 16·2	9, 159 12, 179	0·77 0·77	7,048
1927	743	20.9	15.571	0.82	9,431 12,746
1928. 1929.	840	17.4	14,618 13,161	0.79	11,491 11,095 4,402
1929	992	13.3	13,16[0.84	11,095
1930 1931	1,448 778	15-2 6-8	22,019 5,322	0·20 0·28	4,402 1,476
1932	774	11-6	8,938	0.17	1,564
Buckwheat— 1923	440	22.3	9 744	0.84	8,192
1924	442	25.8	9,744 11,412 10,546	0.89	10,149
1925	474	22-2	10,546	0.85	10,149 8,965
1926. 1927	457 471	21.6 23.1	9,882 10,890	0.87 0.89	8,598 9,727
1928	503	21.7	10,899	0.93	1/1/1/19
1929	516	20.3	10.470	0.94	9,867 7,124
1930	490	22·2 : 20·6	10,903	0.65 0.50	7,124 3,454
1931 1932.	335 368	22.9	6,917 8,424	0.42	3,540
	•-•	i	- ,		•
Flaxseed— 1923	630	11.3	7,140	1.77	12 644
1924	1,277	7.6	9.695	1.94	12,644 18,849
1925	843	7.4	6.237	1-85	11,042
1926	738	8·1 10·3	5,995 4,885	1-62 1-55	9,688 7,562
1927 1928	476 378	9.6	3,614	1.59	5 758
1929	382	5-4	2,060	2 38	4.898
1930	582 627	8·7 3·9	5,069 $2,485$	0·94 0·79	4,741 1,944
1931 1932	454	5.4	2,446	0.52	1,282
		-			•
Potatoes—	561	cwt. 99-0	ewt. 55,497	per cwt. 1.02	56,398
1924	562	100-9	56.648	0.85	47 056
1925,	522	77.0	40,217 46,937	2.06	82,860
1926	523 572	89·7 81·2	46,937 46,458	1·47 1·17	\$2,860 69,204 54,341 40,874
1928	599	83.8	50.195	0.81	40,874
1929	544	73-4	39,930	1.59	68,872
1930	571 584	84·4 90·0	48,241 52,305	0.83 0.43	39,858 22,359
1931 1932	522	76.0	39,416	0.62	24,406
		! :	000		
Hay and clover—	9,726	tons. 1.55	tons. 14,845	per ton. 10.97	162,882
1924	9.875	1.51	14,960	11.07	165.587
1925	9,563	1.56	14,962	10 · 35 12 · 13	154,886 170,473
1926. 1927.	9,516 10,227	1·48 1·70	14,058 17,370	10 41	180.835
1928 1929	10.321	1.60	16,515	10-37	180,835 171,225
1929	10,560	1.50	17,370 16,515 15,833 16,397	11.65 9.83	184,528 161,122
1930 1931	10,618 8, 5 32	1.54 1.64	13,960	7.62	106.343
1932	8,812	1.54	13,559	7-10	96,278
	J	j l		j l	

¹For footnote see end of table, p. 232,

3.—Areas,	Yields and	Values	of	Principal	Crops	Grown	in	Canada,	1923-321
				-conclude	d.				

Crop and Year.	Area.	Yield.	Total Yield.	Average Price	Total Value.
	000 acres.	tons per acre.	000 tons.	\$ per ton.	000 \$
Alfalfa.— 1923 1924 1925 1926 1927 1928 1929 1930 1931	799	2·65 2·65 2·48 2·48 2·30 2·20 2·49 2·65	1,029 1,257 1,552 2,061 2,157 2,010 1,835 1,640 1,388 1,764	11.58 11.70 12.72 13.30 12.03 11.51 12.63 12.12 10.36 8.55	11, 914 14, 705 20, 120 27, 414 25, 946 23, 138 23, 183 19, 877 14, 381 15, 085

¹Comparative figures for the years 1908-20 are given in the Canada Year Book, 1929, pp. 230-232. The total value of wheat for 1912 should be \$139,099,000 instead of the \$19,090,000 shown on p. 230 of the 1929 Year Book, the error being due to the dropping out of a figure.

Total Areas and Values, 1927-1932.—Table 4 shows for Canada and the provinces, over stated years, the total estimated areas and values of field crops, Table 5 the field crops of Canada compared as to quantity and value for 1931 and 1932, and Table 6 the areas, yields and values of the principal field crops in Canada, by provinces, for the years 1931 and 1932.

4.-Total Areas and Values of Field Crops in Canada, by Provinces, 1927-32.1

Province.	1927.	1928.	1929,	1930.	1931.	1932.
	acres.	acres.	acres.	acres.	acres.	acres.
Canada	56,172,310	59,351,811	61,207,034	62,214,676	58,074, 9 05	59,633,500
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatohewan Alberta British Columbia	19,527,971	714,047 900,376 6,893,000 10,357,960 6,744,467 21,063,678 11,727,830	545,763 731,354 908,659 7,051,605 10,020,294 6,687,163 22,420,232 12,432,595 409,369	567, 180 735, 900 911, 490 7, 342, 400 10, 009, 200 6, 794, 700 22, 868, 300 12, 561, 400 424, 100	9,064,649 5,664,109 21,946,242 13,455,936	476, 200 536, 000 907, 500 5, 832, 100 9, 224, 300 5, 866, 800 22, 333, 900 14, 019, 000 437, 700
	\$	\$		\$	\$	\$
Canada	1,173,133,600	1,125,003,000	948,981,400	662,0 40,90 0	433, 199, 400	416,586,500
P.E. Island Nova Scotia New Brunswick. Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	18,597,000 18,413,500 144,273,000 255,900,000 82,280,000	18,824,000 18,275,000 130,363,000 243,768,000 113,492,000 348,586,000 220,786,000	20,945,000 23,835,000 153,664,000 241,778,000 78,919,000 235,248,000 157,254,000	16,646,500 18,554,000 120,366,000 179,919,000 52,975,000 135,695,000 110,284,400	10,087,000 10,670,000 73,478,000 124,541,000 24,847,000 70,347,100 98,916,600	10, 206, 000 12, 629, 000 70, 382, 000 113, 904, 000 28, 981, 000 80, 046, 900 83, 331, 000

For earlier figures see pp. xxiv-xxy of the Statistical Summary at the beginning of this volume.

5.—Field Crops of Ganada, Compared as to Quantity and Value, 1931 and 1932.

("000" omitted.)

Field Crop.	Actual Value, 1932.	Value at Prices of 1931.	Actual Value, 1931.	Increase (+) or Decrease (-).	or	Due to Larger (+) or Smaller (-) Quantities.
	\$		\$	\$	*	\$
Wheat Oats Barley Rye. Peas. Beana Buckwheat. Mixed grains Flarseed Corn for husking Potatoes. Turnips, etc Hay and clover Grain hay Allalla Fodder corn Sugar beets.	129, 105 71, 538 15, 794 1, 564 1, 288 629 3, 540 13, 068 1, 282 2, 276 10, 160 96, 278 20, 312 15, 085 7, 869 2, 393	162, 836 93, 975 21, 001 2, 503 1, 291 4, 212 14, 443 1, 932 2, 124 16, 949 10, 574 103, 320 20, 486 18, 270 111, 316 2, 750	123,550 77,970 17,465 1,476 1,160 941 3,454 14,453 1,944 2,274 22,359 8,109 106,343 22,130 14,381 11,416 2,774	+ 5,555 - 6,432 - 1,671 + 88 + 128 - 312 + 86 - 1,385 - 682 + 2,047 + 2,047 + 2,047 + 2,047 - 1,818 - 1,818 - 3,547 - 3,547 - 3,547 - 3,547 - 3,547	- 33,730 - 22,437 - 5,207 - 939 - 1939 - 672 - 1,875 - 650 + 152 - 7,457 - 7,042 - 7,042 - 3,185 - 3,447 - 3,357 - 72,215	+ 89,285 + 16,005 + 1,027 + 131 - 120 + 758 - 100 + 2,465 - 3,023 - 1,644 + 3,889 - 24 + 56,663
Increase or decrease	-	-	-	— 3·6 р.с.	— 16·7 p.e.	+ 13·1 p.c.

6.—Areas, Yields and Values of Principal Field Crops in Canada, Itemized by Provinces, 1931 and 1922.

		<u></u>	<u></u>			
Field Crop.	Үеаг.	Area.	Yield.	Total Yield.	Average Price.	Total Value.
Canada—	i i	acres	bush. per acre.	bush.	per bush.	\$
Fall wheat	1931	537,658	28-8	15,475,000	0·52	8,085,000
	1932	536,000	28-1	15,062,000	0·46	6,929,000
Spring wheat	1931	25,663,270	11.9	305,850,000	0·38	115,465,000
	1932	26,646,100	15.5	413,452,000	0·30	122,176,000
All wheat	1931	26,200,928	12·3	321,325,000	0·38	123,550,000
	- 1932	27,182,100	15·8	428,514,000	0·30	129,105,000
Oats	1931	12.871,341	25·5	328,278,000	0·24	77,970,000
	1932	13,148,400	29·8	391,561,000	0·18	71,538,000
Barley	1931	3,768,269	17·9	67,382,600	0·26	17,465,000
	1932	3,757,600	21·5	80,778,000	0·20	15,794,000
Fall rye	1931	598,511	6·5	3,873,000	0·28	1,079,000
	1932	613,900	11·6	7,132,000	0·17	1,237,000
Spring rye	1931	179,023	8·1	1,449,000	0-27	397,000
	1932	159,900	11·3	1,806,000	0-18	327,000
All rye	1931	777,534	6.8	5,322,000	0·28	1,476,000
	1932	773,800	11.6	8,938,000	0·17	1,564,000
Peas	1931	82,640	16-6	1,369,400	0·85	1,160,400
	1932	84,800	17-9	1,518,500	0·85	1,288,300
Веапз	1931	82,109	15·9	1,304,100	0·72	941,300
	1932	66,600	17·1	1,140,900	0·55	628,600
Buckwheat,	1931	335,339	20·6	6,916,700	0·50	3,454,000
	1932	368,400	22·9	8,424,000	0·42	3,540,000

6.—Areas, Yields and Values of Principal Field Crops in Canada, Itemized by Provinces, 1931 and 1932—continued.

					<u></u>	
Field Crop.	Year.	Агеа.	Yield	Total Yield,	Average Price.	Total Value.
		acres	bush. per acre.	bush.	\$ per bush.	\$
Canada—concluded,	li		i			
Mixed grains	1931	1,186,877	38 · 2	39,431,000	0·37	14,453,000
	1932	1,184,000	33 · 0	39,036,000	0·33	13,068,000
Flaxseed	1931	627,430	3.9	2,465,000	0·79	1,944,000
	1982	453,700	5.4	2,446, 00 0	0·52	1,282,000
Corn, husking,	1931 1932	131,695 130,000	41.4 38.9 cwt.	5,449,000 5,057,000 cwt.	0·42 0·45 per cwt.	2,274,000 2,276,000
Potatoes	1931	583,926	90.0	52,305,000	0.43	22,859,000
	1932	521,500	76.0	39,416,000	0.62	24,406,000
Turnips, etc	1931 1932	150,899 174,800	195.0 216.0 tons	29,392,000 37,766,000 tons	0·28 0·27 per ton	8,109,000 10,160,000
Hay and clover	1931	8,532,369	1.64	13,960,000	7.62	106,343,000
	1932	8,811,600	1.54	13,559,000	7.10	96,278,000
Alfalfa	1931	557,360	2·49	1,388,000	10-36	14,381,000
	1932	666,100	2·65	1,763,500	8-55	15,085,000
Fodder corn	1931	336,192	8·58	2,883,600	3·96	11,415,700
	1932	365,600	7·82	2,857,600	2·75	7,869,000
Grain hay	1931	1,800,000	2·00	3,613,000	6·13	22,130,000
	1932	1,899,500	1·76	3,342,000	6·08	20,312,000
Sugar beets	1931	49,997	9·08	454,000	6·11	2,774.000
	1932	45,000	1 0 ·00	450,000	5·32	2,393,000
Prince Edward Island—			bush.	bush.	per bush.	
Spring wheat	1931	20,291	16-2	328,000	0.85	279,000
	1932	23,300	18-5	431,000	0.66	284,000
Oats	1931	149,059	32·2	4,800,000	0·29	1,392,000
	1932	149,500	34·0	5,083,000	0·22	1,118,000
Barley	1931	3,732	22·8	85,000	0·51	43,000
	1932	4,000	25·2	101,000	0·42	42,000
Buckwheat	. 1931	1,868	26-6	49,700	0.50	25,000
	1932	2,600	27-4	71,000	0.56	40,000
Mixed grains	1931 1982	21,903 23,800	32·5 34·5	712,000 821,000	0.33 0.34 per cwt.	235,000 279,000
Potatoes	1931 1932	54,272 37,500	ewt. 90-0 85-0	cwt. 4,884,000 3,188,000		1,221,000 1,658,000
Turnips, etc	1931	8,512	211·0	1,796,000	0·20	359,000
	1932	8,900	300·0	2,670,000	0·22	587,000
Hay and clover	1931 1932	234,477 226,300	tons 1.55 1.40	tons 363,000 317,000	per ton 9.00 7.50	3,267,000 2,378,000
Fodder corn	1931 1932	237 300	7·00 6·60	1,700 2,000		7,700 7,000
Nova Scotia			bush.	bush.	per bush.	
Spring wheat	1931 1932	2,927 3,300	17·1 21·6	50,000 71,000		44,00 55,00
Oats	1931	83,743	34-7	2,906,000	0.50	1,453,00
	1932	85,100	35-4	3,013,000	0.46	1,386,00
Barley	. 1931	7,672	28·8	221,000	0-63	139,00
	1932	7,900	29·0	229,000	0-59	135,00

6.—Areas, Yields and Values of Principal Field Crops in Canada, Itemized by Provinces, 1931 and 1932—continued.

	_		· · · · · · · · · · · · · · · · · · ·			
Field Crop.	Ү еат.	Area.	Yield	Total Yield.	Average Price.	Total Value.
		acres.	bush, per acre.	bush.	\$ per bush.	\$
Neva Scotia-concluded.			per acre.			
Buckwheat	1931	4,041	21·9	88,400	0.78	69,000
	1932	4,100	24·2	99,000	0.68	67,000
Mixed grains	1931	3,878	33·5	130,000	0-50	65,000
	1932	4,800	35·6	171,000	0-55	94,000
Potatoes	1931 1932	21,394 20,600	cwt. 91·0 103·0	ewt. 1,946,000 2,122,000	per cwt. 0-50 0-70	973,000 1,485,000
Turnips, etc	1981	8,795	255·0	2,242,000	0-30	673,000
	1932	9,500	271·0	2,575,000	0-47	1,210,000
Hay and clover	1931 1932	375,287 400.200	tons 1·77 1·80	tons 664,000 720,000	per ton 10-00 8-00	6,640,000 5,760,000
Fodder corn	1931	532	9. 70	5,200	6·00	31.000
	1982	500	8-75	4,400	3·25	14,000
New Brunswick-			bush.	bush.	per bush.	
Spring wheat	1931	7,673	18·5	142,000	0-86	122,000
	1932	11,300	17·7	200,000	0-88	176,000
Oats	1931	216,516	31·0	6,718,000	0·38	2,553,000
	1932	216,500	31·3	6,776,000	0·33	2,286,000
Barley	1931	9,845	28·9	284,600	0·53	151,000
	1932	12,000	27·7	332,000	0·53	176,000
Beans	1931	826	18·2	15,000	1-95	29,000
	1932	1,000	17·5	18,000	1-25	23,000
Buckwheat	1931	41,637	17·2	714,600	0+60	429,000
	1932	42,100	20·5	863,000	0+ 55	475,000
Mixed grains	1931	1,938	28-8	56,000	0·40	22,000
	1932	4,300	30-2	130,000	0·43	56,000
Potatoes	1931 1932	59, 263 48, 200	ewt. 107-0 80-0	ewt. 6,341,000 3,856,000	per cwt. 0·25 0·80	\$ 1,585,000 1,928,000
Turnips, etc	1931 1932	8,898 10,300	247-0 250-0	2,198,000 2,875,000	0-20 0-40 per ton	440,000 1,030,000
Hay and clover	1931 1932	457,571 561,200	tons 1·66 1·57	tons 760,000 881,000	7·00 7·40	5,320,000 6,519,000
Fodder corn	1931	526	7·00	3,700	5·25	000,000
	1932	600	5·40	3,200	3·25	10,000
Quebec—			bush.	եսցե.	per bush.	
Spring wheat	1931	40,499	19·7	798,000	0·77	614,000
	1932	52,000	18·3	952,000	0·73	695,000
Oats	1931	1,680,525	28·1	47,223,000	0·38	17,945,000
	1932	1,735,500	29·4	51,024,000	0·36	18,369,000
Barley	1931	95,279	25·7	2,449,000	0-56	1,371,000
	1932	114,300	25·7	2,938,000	0-53	1,557,000
Spring tye	1931	5,456	15·7	86,000	0·70	60,000
	1932	6,200	15·8	98,000	0·68	67,000
Peas	1931	18,200	15·5	282,000	1-46	412,000
	1932	19,300	16·6	320,000	1-43	458,000
Beans	1931	6,200	18·9	117,000	1·82	213,000
	1932	2,200	16·5	36,000	1·55	56,000

6.—Areas, Yields and Values of Principal Field Crops in Canada, Itemized by Provinces, 1931 and 1932—continued.

 -					<u>_</u>	
Field Crop,	Year.	Area.	Yield,	Total Yield.	Average Price.	Total Value.
		acres.	bush.	bush.	per bush.	3
Quebec—concluded.		200203	per acre.		per sum.	•
Buckwheat	1931	106,200	22·2	2,358,090	0-58	1,368,000
	1932	116,900	23·9	2,794,000	0-48	1,341,000
Mixed grains	1931	107,903	24·9	2,687,000	0·52	1,397,000
	1932	99,000	30·4	3,010,000	0·46	1,384,000
Flaxseed	1931	1,529	10·2	16,000	2·01	32,000
	1932	1,400	9·9	14,000	1·83	25,000
Corn, husking	1931	7,200	25.4	183,000	0.92	168,000
Potatoes	1931 1932	144,400 132,500	ewt. 117·0 87·0	ewt. 16,897,000 11,475,000	per cwt. 0-51 0-63	8,617,000 7,229,000
Furnips, etc	1931	27,900	238 · 0	6,640,000	0·43	2,855,000
	1932	33,300	264 · 0	8,778,000	0·37	3,248,000
Hay and clover	1931 1932	3,404,866 3,455,100	tons. 1·65 1·40	tons. 5,618,000 4,837,600	per ton. 6.50 7.10	36,517,000 34,343,000
Alfalfa	1931	10,800	3·00	32,000	8·35	267,000
	1932	13,400	2·50	83,500	8·51	285,000
Fodder corn	1931	47,400	9-90	469,000	3·50	1,642,090
	1932	51,000	9-75	497,000	2·67	1,325,000
Ontario-			bush.	bush.	per bush.	
Fall wheat	1931	526, 136	28·9	15,205,000	0.52	7,907,000
	1932	536, 000	28·1	15,062,000	0.46	6,929,000
Spring wheat	1931	99,575	20·5	2,041,000	0-52	1,061,000
	1932	100,000	19·9	1,990,000	0-45	896,000
All wheat	1931	625,711	27 · 6	17,246,000	0·52	8,968,000
	1932	636,000	26 · 8	17,052,000	0·46	7,825,000
Oats	1931	2,343,884	33 · 5	78,520,000	0·25	19,630,000
	1932	2,338,000	32 · 3	75,517,000	0·25	18,879,000
Barley	1931	439, 483	30·7	13,492,000	0-37	4,992,000
	1932	456, 00 0	30·2	13,771,000	0-36	4,958,000
Fall rye	1931	56,398	17·7	998,000	0·42	419,000
	1932	57,500	17·8	1,024,000	0·37	379,000
Peas	1931	60,175	16-6	999,000	0·63	639,600
	1932	59,500	18-0	1,071,000	0·65	696,000
Beans	1931	73,883	15·6	1,152,000	0·58	668,000
	1932	62,000	17·1	1,060,000	0·49	519,000
Buckwheat	1931	178,093	20·5	3,651,000	0·42	1,533,000
	1932	197,000	22·9	4,511,000	0·35	1,579,000
Mixed grains	1931	999,568	34·7	34,685,000	0·36	12,487,000
	1932	986,000	33·8	33,327,000	0·33	10,998,000
Flaxseed	1981	7,065	10·7	76,000	1+05	80,000
	1932	6,300	9·8	62,000	0-90	56,000
Corn, husking	1931	124,495	42·3	5,266,000	0·40	2,106,000
	1932	130,000	38·9	5,057,000	0·45	2,276,000
Potatoes	1931 1932	169,604 156,000	cwt. 71·0 61·0	cwt. 12,042,000 9,516,000	per cwt. 0.39 0.69	4,696,000 6,566,000
Turnips, etc	1931	87, 431	172·0	15,038,000	0·20	3,008,000
	1932	100, 000	193·0	19,300,000	0·16	3,088,000

6.—Areas, Yields and Values of Principal Field Crops in Canada, Itemized by Provinces, 1931 and 1932—continued.

			1		 _	
Field Crop.	Үеат.	Area.	Yield.	Total Yield.	Average Price.	Total Value.
					\$	
Ontario—concluded.		acres.	tons per acre.	tons.	per ton.	
Hay and clover	1931	3,162,478	1 · 66	5,250,000	8·22	43,155,000
	1932	3,194,000	1 · 65	5,270,000	7·02	36,995,000
Alfalfa	1931	431,525	2·50	1,079,000	10·00	10,790,000
	1932	528,000	2·66	1,404,000	8·21	11,527,000
Fodder corn	1931	266,859	8·67	2,314,000	4.00	9,256,000
	1932	285,000	7·72	2,200,000	2.65	5,830,000
Sugar beets	1931	38,047	9·30	354,000	6·00	2,124,000
	1932	33,000	10·00	330,000	5·25	1,733,000
Manitoba			bush.	bush.	per bush.	
Spring wheat	1931	2,540,000	11·1	28,112,000	0·41	11,526,000
	1932	2,651,000	16·0	42,400,000	0·34	14,416,000
Oats	1931	1,495,944	17·0	25,500,000	0·19	4,845,000
	1932	1,463,500	25·2	36,826,000	0·14	5,156,000
Barley	1931	1,112,863	13-8	15,400,000	0·21	3,234,000
	1932	1,123,300	17-8	20,014,000	0·17	3,402,000
Fall rye	J931	33,799	14 · 2	480,000	0·24	115,000
	1932	30,100	13 · 8	415,000	0·18	75,000
Spring rye	1931	15,329	11·8	181,000	0·24	43,000
	1932	10,500	13·8	145,000	0·18	26,000
All rye	1931	49,128	13·4	661,000	0·24	158,000
	1932	40,600	13·8	560,000	0·18	101,000
Peas	1931	750	16·0	12,000	1· 0 5	13,000
	1932	2,000	14·0	28,000	0·60	17,000
Buckwheat	1931	3,500	15·8	55,000	0·55	30,000
	1932	5,700	15·0	86,000	0·44	38,000
Mixed grains	1931	11,324	20·5	232,000	0·21	49,000
	1932	17,000	22·1	376,000	0·19	71,000
Flaxseed	1931	97, 562	3·6	350,000	0·81	284,000
	1932	49,300	4·9	240,000	0·57	137,000
Potatoes	1931 1932	37,300 32,400	ewt. 75-0 59-0	cwt. 2,800,000 1,912,000	per cwt. 0.38 0.63	1,064,000 1,205,000
Turnips, etc	1931	2,450	118·0	289,000	0·44	127,000
	1932	4,400	102·0	448,000	0·53	237,000
Hay and clover	1931 1932	294,888 448,000	tons. 1.40 1.53	tons. 413,000 683,000	per ton. 7·75 5·50	3,201, 00 0 3,7 5 7, 0 00
Alfalfa	1931	10,900	1·70	19,000	10·00	190,000
	1932	16,200	1·70	27,000	8·50	230,000
Fodder cora	1931	7,500	3·70	28,000	4·50	126,000
	1932	13,400	4·20	67,000	3·75	214,000
Saskatchewan—			bush.	bush.	per bush.	
Spring wheat	1931	14,961,000	8.9	132,466,000	0-38	50,337,000
	1932	15,643,000	13-0	202,000,000	0-30	60,600,000
Oats	1931	4,368,735	15·5	67,700,000	0·18	12, 186, 0 00
	1932	4,364,700	24·6	107,400,000	0·11	11, 814, 0 00
Barley	1931	1,366,092	10-5	14,340,000	0·21	3,011,000
	1932	1,329,500	17-6	23,400,000	0·13	3,042,000

6—Areas, Yields and Values of Principal Field Crops in Canada, Itemized by Provinces, 1921 and 1932—continued.

Field Crop.	Year.	Area.	Yield.	Total Yield.	Average Price.	Total Value.					
		acres.	bush. per acre.	bush.	per bush.	\$					
Saskatchewan—concluded.			1								
Fail rye,	1931	415,152	4·3	1,785,000	0·23	411,000					
	1932	405,200	10·6	4,300,000	0·14	602,000					
Spring tye	1931	95,410	6·4	611,000	0-23	141,000					
	1932	77,300	11·5	890,000	0-14	125,000					
All rye	1931	510,562	4·7	2,396,000	0·23	552,000					
	1932	482,500	10·8	5,190,000	0·14	727,000					
Peas	1931	400	6.0	2,400	1.00	2,400					
	1932	500	11.0	5,500	0.60	3,300					
Beaus	1931	100	5·6	600	1 · 20	700					
	1932	100	9·0	900	0 · 72	600					
Mixed grains	1931 1932	$\frac{20,165}{20,800}$	12·0 16·8	242,000 349,000	0·19 0·11	46,000 38,000					
Flaxseed	1931	492,168	3·7	1,820,000	0·77	1,401,000					
	1932	381,200	5·2	1,980,000	0·50	990,000					
Potatoes	1931 1932	41,732 44,000	cwt. 58·00 67·00	ewt. 2,420,000 2,948,000	per cwt. 0.51 0.50	1,234,000 1,474,000					
Turnips. etc	1931	1,150	43·0	49,000	0·55	27,000					
	1932	2,100	72·0	151,000	0·50	76,000					
Hay and clover	1931 1932	171,538 150,000	tons. 1-17 1-46	tons. 201,000 219,000	per ton. 7·10 4·74	1,427,000 1,038,000					
Alfalfa	1931 1932	6,900 9,400	1·32 2·45	9,000 23,000	9·00	81,000 184,000					
Fodder corn	1931	5,700	1.56	9,000	4·70	42,000					
	1932	6,100	2.46	15,000	4·00	60,000					
Alberta			bush.	bush.	per bush.						
Spring wheat	1931 1932	7,938,000 8,201,000	per acre. 17·7 20·0	140,603,000 164,000,000	0·36 0·27	50,617,000 44,280,000					
Oats	1981	2,447,288	37·0	90,500,000	0·18	16,290,000					
	1932	2,704,800	37·5	101,500,000	0·11	11,165,000					
Barley	1931	723,772	28·7	20,800, 00 0	0·21	4,368,000					
	1982	701,300	28·1	19,700, 0 00	0·12	2,364,000					
Fall rye	1931	93, 162	6·5	610,000	0·22	134,000					
	1932	121, 100	11·5	1,393,000	0·13	181,000					
Spring rye	1931	58,857	8·3	490,000	0·22	108,000					
	1932	62,000	9·6	595,000	0·13	77,000					
All rye	1931	152,019	7·2	1,190,000	0·22	242,000					
	1932	183,100	10·9	1,988,000	0·13	258,000					
Peas	. 1931	400	15·0	6, 0 00	1·50	9,0 0 0					
	1932	400	16·0	6,000	0·60	4,00 0					
Beans,	. 1931	500	11.0	5,500	1·20	6,600					
	1932	500	11.8	6,000	0·70	4,000					
Mixed grains	. 1931	17,909	33·2	595,000	0·19	113,000					
	1932	25,300	28·9	731,000	0·14	102,000					
Flauseed	. 1931	28,831	6·9	200,000	0-72	144,000					
	1932	15,200	9·7	147,000	0-49	72,000					
Potatoes	. 1931 1932	35,596 31,000	ewt. 78·0 68·0	ewt. 2,776,000 2,102,000	per cwt. 0-42 0-64	1,166,000 1,345,000					

6.—Areas, Yields and Values of Principal Field Crops in Canada, Itemized by Provinces, 1931 and 1932—concluded

Field Crop.	Yеаг.	Агеа.	Yield.	Total Yield.	Average Price.	Total Value.
		acres,	cwt. per acre.	cwt.	\$ per cwt.	\$
Alberta—concluded.					İ	
Turnips, etc	1931	1,700	126-0	214,900	0·30	64,000
	1932	1,800	115-0	207,000	0·64	132,000
Hay and clover	1931 1932	287,721 231,300	tons. 1-37 1-54	tons. 394,000 356,000	per ton. 7.50 6.50	2,955,000 2,314,000
Alfalia	1931	56,650	2·19	124,000	10·00	1,240,000
	1932	56,800	2·45	139,000	8·00	1,112,000
Fodder corn	1931	3,600	3·55	13,000	4·00	52,000
	1932	4,500	5·81	26,000	3·50	91,000
Grein hay	1931	1,750,000	2·00	3,500,000	6-00	21,000,000
	1932	1,850,000	1·75	3,238,000	6-00	19,423,000
Sugar beets	1931	11,950	8·33	100,000	6·50	650,000
	1932	12,000	10·00	120,000	5·50	660,000
British Columbia—			bush.	bush.	per bush.	
Fall wheat	1931	11,522	23 - 4	270,000	0.66	178,000
Spring wheat	1931	53,305	24 · 6	1,310,000	0·66	865,000
	1932	61,200	23 · 0	1,408,000	0·55	774,000
All wheat	1931	64,827	24·4	1,580,000	0·66	1,043,000
	1932	61,200	23·0	1,408,000	0·55	774,000
Oats	1931	85,647	51·5	4,411,000	0·38	1,676,000
	1932	90,800	48·7	4,422,000	0·32	1,415,000
Barley	1931	9,531	32·6	311,000	0·50	156,600
	1932	9,300	31·0	288,000	0·41	118,600
Spring rye	1931	3,971	20·3	81,000	0·55	45,000
	1932	3,900	20·0	78,000	0·41	32,000
Peas	1931	2,715	25·1	68,000	1·40	95,000
	1932	3,100	28·5	88,000	1·25	110,000
Beans	1931	650	21-5	14,000	1·70	24,000
	1932	800	24-5	20,000	1·30	26,000
Mixed grains	1931	2,289	40·1	92,000	0·42	39,000
	1932	3,000	40·3	121,000	0·88	46,000
Flaxseed	1931	275	11·2	3,000	1.00	3,000
	1932	300	11·0	3,000	0.60	2,000
Potatoes	1931 1932	20,365 19,300	ewt. 108-0 119-0	cwt. 2,199,000 2,297,000	per cwt. 0.82 0.66	1,803,000 1,516,000
Turnips, etc	1931	4,063	228·0	926,000	0.60	556,000
	1932	4,500	236·0	1,062,000	0.52	552,000
Hay and clover	1931 1932	143,543 145,500	tons. 2-07 1-90	tons. 297,000 276,000	per ton. 13.00 11.50	3,861,000 3,174,000
Alfalfa	1931	40,585	3·08	125,000	14·50	1,813,000
	1932	42,300	3·25	137,000	12·75	1,747,000
Fodder com	1931	3,838	10·55	40,000	6·06	240,000
	1932	4,200	12·61	53,000	6·00	318,000
Grain hay	1931	50, 0 00	2·25	113,000	10.00	1,130,000
	1932	49,500	2·10	104,000	8.50	884,000

Acreages under Pasture.—Table 7 gives the estimated acreages under pasture in Canada, by provinces, for the years 1926 to 1932.

7.—Estimated Acreages under Pas	sture in Canada, 1926-32.
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Province.	1926.	1927.	1928.	1929.	1930.	1931,	1932.
P.E. Island. Nova Scotia. New Brunswick. Quebeo. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia. Indian Reserves.	467,081 3,672,360 3,077,424 222,039 382,403 288,963	843, 766 492, 425 3, 745, 807 3, 012, 786 240, 485 426, 927 285, 719 56, 141 36, 601	3,858,181 3,000,172 252,689, 408,670 289,973 62,192 39,202	866,204 487,840 3,944,443 3,134,614 253,950	866,818 490,500 3,950,000 3,149,460 264,300 419,000 396,400 66,604 39,889	866,500 474,600 3,686,100 3,031,717 239,800 400,300 384,900 69,272 39,913	704,100 518,300 2,669,600 3,012,500 232,100 444,900 350,500 76,500 46,000

The above figures are not entirely comprehensive since the figures for the four western provinces are "seeded pasture" only. Most of the area used for pasture in these provinces is "natural" and data on land used in this way can only be properly secured by the quinquennial census. At the 1926 census, the acreages of improved and natural pasture in the three Prairie Provinces were as follows:—

Province.	Improved Pasture.	Natural Pasture,
Manitoba	acres. 311,818 305,164 302,417	acres. 3,553,590 13,612,460 12,210,315

The figures for the Maritime Provinces, Quebec and Ontario include all pasture, seeded and natural.

The areas under grazing leases in the Western Provinces as at Mar. 31, 1932, are reported by the Provincial Lands Administration Branches as follows:—

Province.	Leases.	Area.
Manitoba. Saskatchewan Alberta. British Columbia.	No. 245 86,923 3,948 732	103,314 3,731,668 3,367,150 64,153
Totals	91,848	7,266,285

Average Yields per Acre.—Table 8 gives, for the years 1925 to 1932, the average yields per acre of the various field crops, together with the long-time average yields per acre.

8.—Annual Average Yields per Acre of Field Crops for Canada, 1925-32, with Long-time Averages.

Field Crop.	1925.	1926.	1927.	1928.	1929.	1930.	1931,	1932.	Long- time Average.
	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush,	bush.
Wheat Oats Barley Rye Peas Beans Buckwheat Mixed grains Flaxseed Corn for husking	19·0 32·0 24·7 14·2 18·4 22·2 38·5 7·4 44·2	17-8 30-1 27-4 16-2 18-2 21-6 35-5 8-1 37-3	21-4 33-2 27-7 20-9 18-5 15-5 23-1 10-3 32-4	23.5 34.4 27.9 17.4 16.8 10.7 21.7 35.8 9.6	12·1 22·7 17·3 13·3 15·8 17·3 20·3 32·0 6·4 34·1	16.9 31.9 24.3 15.2 18.3 14.6 22.2 36.9 8.7	12·3 25·5 17·9 6·8 16·6 15·9 20·8 33·2 41·4	15.8 29.8 21.5 11.6 17.9 17.1 22.9 33.0 5.4 38.9	17-1 32-3 25-2 16-1 16-9 16-8 22-4 34-6 8-8 49-3
Potatoes	cwt. 77·0	ewt. 89·7 172·9 tons. 1·5 8·8 11·2 2·5	ewt. 81·2 188·9 tons. 1·7 7·5 8·9 2·4	ewt. 83-8 215-5 tons. 1-6 8-3 8-4 2-4	cwt. 73.4 176.3 tons. 1.5 7.9 8.4 2.3	cwt, 84-4 181-8 tons. 1-5 8-2 9-0 2-2	ewt. 90.0 195.0 tons, 1.6 8.6 9.1 2.5	76.0 216.0 tons, 1.5 7.8 10.0 2.7	cwt. 89·0 189·0 tons. 1·5 9·0 9·4 2·4

Grain Yields of the Prairie Provinces.—Final estimates of the acreages and yields of the grain crops of the Prairie Provinces (Manitoba, Saskatchewan and Alberta) are given for 1932 in Table 9, together with comparative data for 1931 and 1930.

3.—Areas and Yields of Wheat, Oats, Barley, Rye and Flaxseed in the Prairie Provinces 1930-32.

							
- LA		Areas.		Yields.			
Province and Crop.	1930.1	I931.	1932.	1930.	1931.	1932.	
Prairie Previnces—	acres.	acres.	80Tes.	bush. 397,300,000	bush. 301,181,000	bush.	
Wheat. Oats. Barley. Rye. Flasseed.	24,764,000 7,314,000 4,398,000 1,106,000 649,000	25, 439, 000, 8, 311, 967 3, 202, 727 711, 709 618, 561	26,395,000 8,533,000 3,154,100 706,200 445,700	254,011,000 109,495,000 20,641,000	183,700,000 50,540,000 4,157,000	245,726,000 63,114,000 7,738,000	
Manitoba— Wheat. Oats. Barley. Rye. Flazseed.	2,150,000 1,338,000 1,782,000 87,000 93,000	2,540,000 1,495,944 1,112,863 49,128 97,562	2,651,000 1,463,500, 1,123,300 40,600 49,300	50,562,000 49,974,000 2,052,000	25,500,000 15,400,000 661,000	36,826,000 20,014,000 560,000	
Saskatchewan — Wheat	14,684,000 3,798,000 1,902,000 819,000 522,000	4,368,735 1,366,092 510,562	15,543,000 4,364,700 1,329,500 482,500 381,200	125,509,000 40,522,000 14,875,000	67,700,000 14,340,000 2,396,000	23,400,000	
Alberta — Wheat	7,930,000 2,178,000 714,000 200,000 34,000	7,938,000 2,447,288 723,772 152,019 28,831	8,201,000 2,704,800 701,300 183,100 15,200	18,999,000 3,714,000	90,500,000 20,800,000	1,988,000	

^{*} Based on preliminary compilations of the decennial census.

Stocks of Grain in Canada.—Table 10 shows the quantities of grain in farmers' hands on July 31, 1932, as compared with July 31, 1931 and 1930. Adding the stocks in the elevators and flour mills, Table 11 shows the total quantities of grain in store at the close of each of the crop years ended July 31, 1930, 1931 and 1932.

10.—Stocks of Grain in Farmers' Hands on July 31, 1932, as Compared with July 31, 1931 and 1930, with Total Production for the Previous Years.

Kind of Grain.	Total Pro- duction in 1929.	Hand	Farmers' s, July 31, 1930.	Total Pro- duction in 1930.	In Farmers' Hands, July 31, 1931.		Total Pro- duction in 1981.	Hand	Farmers' is, July 31, 1932.	
Canada— Wheat Oats Barley Rye Flazseed	000 bush. 304,520 282,838 102,313 13,161 2,060	I+75 4+25 2+98 1+26	12,020,000 3,050,000 166,000	423, 148 135, 160 22, 019	4 · 63 12 · 43 13 · 03		328,278 67,383 5,322	2·33 6·95 5·16 2·74	7,495,800 22,823,000 3,477,000 146,000	

		Wheat.			Oats.	
Quantities in—	July 31, 1930.	July 31, 1931.	July 31, 1932,	July 31, 1930.	July 31, 1931.	July 31, 1932.
	bush.	bush.	bush.	bush.	bush.	bush.
Farmers' hands	5,326,000	19,459,400	7,495,800	12,020,000	52,603,500	22,823,000
Western Division	16,820,322	34,149,352	33,508,4921	2,581,324	4,672,9771	1,464,0291
ern Inspection Division Eastern elevators Flour mills	47,892,399 21,374,632 6,902,393 12,779,166	56,710,132 14,344,612 2,138,330 ² 7,277,137	60,781,336 17,839,890 2,000,000 ² 9,323,383	1,802,928 2,785,443 1,471,070 922,015	2,327,038 1,786,218 761,097 ² 1,281,159	3,209,412 1,335,807 600,0003 540,076
Tetals	111,094,912		130,948,901	21,582,780	63,431,989	29,972,324
		Barley.			Rye.	
Farmers' hands Country, private and mill	3,050,000	17,618,400	3,477,000	166,000	1,403,600	146,000
elevators and mills in Western Division	2,671,951	2,507,5661	1,350,453 ¹ 1,441,804	543,098 5,416,868	1,271,857 ¹ 9,025,628	532,6631 2,550,290
Terminal elevators Eastern elevators Flour mills	13,818,834 1,856,514 94,882	6,582,571 1,070,315 85,298	369,709 45,000°	1,561,892 1,646	1,849,404 18,572	1,585,827
Transit	1,883,251	1,597,566	477,954	1,501,206	866, 734	616,099
Totals	22,875,432	29,461,716	7,161,920	9, 199, 705	14,435,795	5,280,879
					Flaxseed.	
Farmers' hands				3,600 48,853 486,895	35,800 235,130 ¹ 482,846 16,620	7,100 173,379 ¹ 1,041,394 33,790
Eastern elevators Transit				97,310	63,558	65,695
Totals	· • • • • • • • • • • • • • • • • • • •			638, 658	833,954	1,321,358

¹ Changes in the designations of elevators and mills between the taking of the 1930 and 1931 stocks result in the stocks of grain in mills and mill elevators in the Western Inspection Division being reported under this heading in 1931 and 1932, whereas they appeared under "flour mills" in 1930. ² Eastern Inspection Division only, estimated for 1982.

Distribution of Wheat and Oat Grops.—The distribution of the wheat crop of Canada for the years ended July 31, 1931 and 1932, is calculated in Table 12.

12.—Distribution of the Canadian Wheat Crops, by crop years, 1930-31 and 1931-32.

Note.—Flour is expressed as wheat on the basis of one barrel of flour, weighing 196 lb., being equal to 44 bushels of wheat. For similar calculations extending over a series of years both for wheat and oats, see the Year Book, 1920, pp. 263-266, and the April issues of the Monthly Bulletin of Agricultural Statistics for each of the years 1920 to 1933.

Item.	Crop year ended July 31, 1931.	Crop year ended July 31, 1932.	Item.	Crop year ended July 31, 1931.	Crop year ended July 31, 1932.
	000 bush.	000 bush.		000 bush.	000 bush.
Carry-over, Aug. 1, 1930 and Aug. 1, 1931	111,095 420,672 7,740 4,510 519,517 244 519,761	134,079 321,325 5,976 2,826 446,602 216 446,818	Exports as grain. Exports as flour Total exports. Relained as seed. Retained for feed. Milled for food. Carry-over July 31, 1931. and July 31, 1932. Balance otherwise disposed of.	228,536 30,157 258,693 39,172 40,690 41,916 134,079 5,211	182,803 24,226 207,029 36,888 26,502 41,750 130,949

Table 13 presents similar data for oats. The bulk of this crop is consumed as feed for live stock and the table shows approximately how the remaining portion of the crop is disposed of, including: the quantities exported as grain, oatmeal and rolled oats; the quantity retained for seed; and the quantity milled for home consumption, representing chiefly oatmeal and rolled oats used for human food. The carry-over represents grain in the elevators, in farmers' hands, in transit, etc., and the balance is the quantity used in Canada for feeding to live stock, this amount being estimated at 323,694,000 bushels in 1930-31 and 297,526,000 bushels in 1931-32.

13.—Distribution of the Canadian Oat Crops, by crop years, 1939-31 and 1931-32.

Item.	Crop year ended July 31, 1931.	Crop year ended July 31, 1932,	Item.	Crop year ended July 31, 1931.	Crop year ended July 31, 1932.
	000 bush.	000 bush.	-	000 bush.	000 bush.
Carry-over, Aug. 1, 1930 and Aug. 1, 1931	437,833 710 438,543	63, 432 328, 278 8, 044 383, 666 1, 936 385, 602 13, 611	Exports as meal, etc Total exports. Retained as seed Milled for home consumption. Carry-over July 31, 1931 and July 31, 1932. Balance for home consumption as grain	3,494 11,316 32,178 7,923 63,432 323,694	4,718 18,329 32,871 6,904 29,972 297,526

Per Capita Consumption of Wheat in Canada.—According to revised calculations, the average per capita consumption of wheat ground for human food in Canada during the ten years 1922 to 1931 was 4.4 bushels. The average range for the period was between 4.0 and 4.5 bushels. The average consumption in 1931 was estimated at 4.0 bushels. Details for the years 1919-27 were given at p. 241 of the 1929 Year Book, while annual estimates are published in the April number of the Monthly Bulletin of Agricultural Statistics.

Subsection 3.—Farm Live Stock and Poultry.

The growth of the live-stock and poultry industries in Canada from decade to decade is indicated in summary statistical form in Table 14, while some authoritative details will be found in the article "The Development of Agriculture in Canada", contributed by Dr. J. H. Grisdale to the 1921 Year Book, where it appears at pp. 202-210.

14.—Summary Statistics of the Numbers of Live Stock and Poultry on Farms in the Dominion of Canada, Censuses of 1871-1931.

							
	1871.	1881.	1891.	1901.	1911.	1921.2	1931.
	No.	No.	No.	No.	No.	No.	No.
Horses. Cattle. Sheep. Swine. All poultry. Hens and chickens. Turkeys. Ducks. Cocce	836,743 2,624,290 3,155,509 1,366,083 	1,059,358 3,433,989 3,048,678 1,207,619 - - -		5,576,451 2,510,239 2,353,828 17,922,658 16,651,337 584,569	31,793,261 29,773,457	3,610,494 8,519,484 3,203,966 3,040,730 50,325,248 48,021,647 1,096,721 603,152 603,728	3,113,909 7,973,031 3,627,116 4,699,834 65,184,689 61,277,229 2,223,197 749,930 902,281
Geese	144,791	=	199,288	189,986		185,530	215,349

'Includes 91,994 unspecified. 'Includes live stock elsewhere than on farms as follows: horses 158,742, cattle 149,995, sheep 3,499, swine 80,439, poultry 6,978,054, hives 37,425.

15.—Estimated Numbers and Values of Farm Live Stock in Canada, by Provinces, 1923-32.

		_						
Province and Item.	1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.
	No.	No.	No.	No.	000	000 \$	000	000
Canada— Horses. Milch cows. Other cattle. Totals, cattle. Sheep. Swine.	3,376,487 3,684,766 5,139,866 8,824,632 3,635,923 4,381,725	3,295,000 3,683,000 5,254,000 8,937,000 3,696,000 4,000,000	3,128,996 3,365,000 4,626,000 7,991,000 3,608,000 4,716,720	3,624,600 4,886,500 8,511,100 3,644,500	273,817 239,713 513,530 36,118	202,013 218,822 182,263 401,085 25,275 58,852	143,166 114,828 257,994 18,596	141,640 116,349 83,685 200,034 12,084 21,964
Totals	-			-	856,730	6 87,225	465,271	375,722
P. E. Island— Hovses. Milch cows. Other cattle. Totals, cattle. Sheep. Swine.	33,241. 44,728 51,881 96,609 97,367 54,285	35,570 43,200 56,300 99,500 87,000 54,000	29, 582 44, 800 55, 800 99, 800 76, 800 40, 807	57,900 102,800 68,000	2,728 1,920 4,648 844	3,272 2,290 1,802 4,092 609 864	2,189 1,540 1,210 2,750 304 280	1,644 1,347 869 2,216 214 215
Totals	-			_	9,588	8,837	5,523	4,289
Nova Scetia— Horses. Milch cows. Other cattle Totals, cattle Sheep. Swine.	52, 104 141, 207 145, 199 286, 406 277, 761 47, 458	51,530 140,000 144,900 284,900 289,600 43,600	108,000 113,000 221,000 195,000	42,720 112,800 125,900 238,700 155,700 53,400	8,324 5,510 13,834 2,020	5,050 7,280 4,637 11,917 1,738 741	3,834 4,536 2,825 7,361 975 437	3,418 3,835 2,518 6,353 575 434
Totals	_		_		22,076	19,446	12,697	10,780

15.—Estimated Numbers and Values of Farm Live Stock in Canada, by Provinces, 1929-32—concluded.

Province and Item.	1929.	1930.	1931.	1932.	1929.	1980.	1931.	1932.
Mary Thomas and also	No.	No.	No.	No.	000	000	000	000
New Brunswick— Horses. Milch cows. Other cattle. Totals, cattle. Sheep.	50, 199 105, 667 109, 919 215, 586 151, 257	49,800 107,300 121,700 229,000 153,300 67,400	101,000 113,000 214,000 143,000	221,000 131,000	6,129 3,567 9,646 1,210	5,030 5,258 3,651 8,909 920	5,079 3,838 2,486 6,324 572	4,234 3,607 1,899 5,506 468
Swine	66,467	67,400	84,737	98,300	1,896	1,213	847	849
Quebec—					17,975	16,072	12,822	11,057
Horses. Milch cows. Other cattle. Totals, cattle. Sheep. Swine.	369,060 1,055,770 953,627 2,009,397 865,000 803,644	367,200 1,023,700 995,000 2,018,700 870,800 702,800	304,537 892,000 828,000 1,720,000 732,000 725,398	297,410 932,800 944,100 1,876,900 751,400 667,300	73,904 36,466	34,708 55,302 29,611 84,913 5,609 11,240	26,495 33,896 17,388 51,284 4,392 7,254	26,767 27,984 12,273 40,257 2,254 4,671
Tetals					172,452	136,470	89,425	73,949
Ontario Horses Milch cows Other cattle Totals, cattle Sheep Swine	606,505 1,237,248 1,434,346 2,671,594 1,130,395 1,681,263	606,700 1,222,500 1,453,100 2,675,600 1,134,400 1,661,500	1,035,000	1,354,000 2,529,000	105,109 76,099 181,208 13,355	49, 151 80, 919 56, 671 137, 590 8, 795 22, 857	41,640 52,704 40,310 93,014 6,210 11,040	36,414 39,950 27,080 67,030 4,077 7,219
Totals					277,720	218,393	151,904	114,740
Manitoba— Horses. Milch cows. Other cattle. Totals, cattle Sheep. Swine.	361,111 222,672 461,782 684,454 182,240 295,330	359, 900 251, 569 483, 800 735, 300 223, 400 271, 700	326,529 237,000 441,000 678,000 214,000 387,646	341,500 257,000 477,500 734,500 199,100 337,900	23,084 15,325 21,490 36,815 1,756 4,817	18,784 13,502 16,260 29,762 1,299 3,896	13,714 9,006 10,143 19,149 856 2,326	12,977 7,453 7,640 15,093 561 1,352
Totals		-	-		66, 472	53,741	36,045	29,983
Saskatchewan— Horses. Milch cows. Other cattle. Totals, cattle Sheep. Swine.	420,004	1,071,800 429,000 785,900 1,214,900 209,900 497,900	1,004,156 424,000 764,000 1,188,000 279,000 940,436	963,000 453,600 874,000 1,327,600 313,700 898,000	27,300	53,590 24,882 25,149 50,031 1,259 7,966	36, 150 16, 536 16, 808 33, 344 1, 116 4, 702	32,742 13,154 13,984 27,138 941 3,143
Totals					134,950	112,846	75,312	63,964
Alberta— Horses. Milch cows. Other cattle. Totals, cattle Sheep. Swine.	733, 133 345, 566 944, 434 1, 290, 000 520, 000 770, 233	698,700 348,200 939,900 1,288,100 530,000 636,400	731,999 385,000 752,000 1,137,000 789,000 1,062,908	726,010 424,000 799,600 1,223,600 833,700 1,118,000	25,598 45,928	28,554 20,334 32,999 53,333 3,268 8,910	23,424 16,170 18,048 34,218 3,156 5,315	20,328 13,144 13,593 26,737 2,234 3,667
Totals					123, 133	94,065	66,113	52,966
British Columbia— Horses. Milch cows. Other cattle. Totals, cattle Sheep. Swine.	53, 772 111, 904 291, 769 403, 673 204, 352 63, 136	53,800 117,600 273,400 391,000 197,600 64,700	56,379 76,000 170,000 246,000 145,000 51,977	57, 700 115, 200 141, 800 257, 000 151, 900 51, 700	4,140 9,400 15,172 24,572 2,452 1,200	3,874 9,055 11,483 20,538 1,778 1,165	3,383 4,940 5,610 10,550 1,015 572	3,116 5,875 3,829 9,704 760 414
Tetals		-			32,364	27,355	15,520	13,994

16.—Average Values per head of Farm Live Stock in Canada, as Estimated by Crop Correspondents, 1921-32.

Province and Item.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
	\$	8	\$		-;	\$		\$	\$;	•	
Canada—		i		l	l	l				!	1	ĺ
Horses	83	72	63	64	69	72	76	76	70	61	50	46
Milch cows	51	48	47	46	51	52	61	72	74	59	43	32
Other cattle Totals, cattle	28 37	26 35	26 34	27 34	31	31	39 48	46 57	47 58	35	25	17
Sheep	or B	8	8	9	39 10	41 10	10	10	10	45	32	24 3.32
Swine	14	15	12	1ž	16	16	14	15	liš	15	32 5 7	4.73
Prince Edward Island			م ا	یہ ا	١	٠,	۱ ۸.	۱	۱			٠,
Mileh cows	84 38	92 48	80 43	85 42	84 50	91 50	91 51	101 62	96 61	92 53	74 35	56 30
Other cattle	21	26	22	24	28	28	32	35	87	32	22 28	15
Totals, cattle	28	34	30	38	39	39	41	49	48	41	28	22
Sheep Swine	5 16	7 19	6 11	8 15	20	9 15	9 15	10 16	1 16	16	4 7	3 · 15 5 · 19
Nova Scotia-		1.5	l **	**		10	**	١ ٠٠	10	10	ı .	1 2-13
Horses	98	95	96	93	94	93	107	111	102	98	86	80
Milch cows	44 27	45 26	44 28	43 28	46 30	48 27	51 29	61 37	59 38	52	42 25	34 20
Other cattle Totals, cattle	34	20 85	35	35	37	37	40	49	48	32 42	33	27
Sheep	4	6	6	7	7	7	7	8	7	6	5	3.69
Swine	18	18	16	15	14	18	18	17	19	17	10	8.13
New Brunswick— Horses	115	110	99	104	101	109	116	120	114	101	96	80
Milch cows	40	40	43	36	46	46	46	54	58	49	38	33
Other cattle	23	25	26	22	30	26	27	30	32	30	22 30	17
Totals, cattle	81	32 6	34	29	38	37 8	37	48	45 8	39	30	25 3.57
Sheep	17	17	16	16	19	22	20	22	21	18	10	8.82
Queb e c—		1					'			'		
Horses	89	100	97	98	98	101	106	108	106	95	87 38	90 80
Milch cows Other cattle	46 23	45 23	42 22	43 23	51 27	49 26	54 29	64 34	70 38	54 30	21	13
Totals, cattle	35	35	33	34	40	39	43	Ší	55	42	29	21
Sheep	6	.8	7	.8	9	9	9	10	9	6	.6	3
Swine Optario-	16	19	15	16	18	18	17	18	19	16	10	7
Horses	96	90	84	80	89	95	101	99	94	18	72	63
Milch cows	59	58	58	54	60	63	74	84	85	66	48	84
Other cattle	34 45	34 44	33 44	35 43	39 48	39 51	48 60	54 68	53 68	39 51	29 37	20 27
Totals, cattle Sheep	8	3	1 79	ii	12	12	12	12	12	8	6	3.92
Swine	13	14	12	12	15	15	13	14	15	14	8	5.25
Manitoba—	89	84	64	62	69	70	77	75	64	52	42	38
Horses	45	42	40	39	44	46	58	70	69	54	38 23	29
Other cattle	23	25	23	23	28	29	38	47	47	34	23	16
Totals, cattle	30	81	29 7	29	33 10	35	45	56 10	54 10	40	29 4	21 2 · 82
Sheep	14	14	11	111	16	16	13	15	16	14	7	4
Saskatchewan—		1										١,,
Horses	82	67	53	60 41	66	66	66 51	65 65	56 65	50 58	36	34 29
Milch cows Other cattle	49 28	40 23	39 21	23	41 26	41 27	37	46	45	32	22	16
Totals, cattle	33	28	26	28	31	82	42	53	52	41	29	20
Sheep	6	.7	6	.9	9	9	9	10	9	6	4	3 3.50
Swine	14	13	10	11	16	17	13	14	16	16	5	8.90
Horses	64	42	40	38	43	45	52	51	49	41	32	28
Milch cows	48	38	39	88	40	43	55	68	74	58	42	31
Other cattle	28 32	21 25	23 27	23 27	26 30	28 33	38 48	48 53	49 55	35 41	24 31	17 22
Totals, cattle Sheep	82	7	8	1 76	10	10	10	10	9	6	4	2.68
Swine	(1š	12	10	ĺiž	ĺŝ	15	13	13	15	14	5	3 ⋅ 28
British Columbia—	100	78	75	71	75	78	78	76	77	72	60	54
Horses Milch cows	100 85	69	75 70	65	66	68	75	84	84	77	65	51
Other cattle	l 40	33	27	83	36	35	43	51	52	42	65 33	27 38
Totals, cattle Sheep	50	41	39	42	44	43 12	51 12	60 12	61 12	53 9	48	38 5
Sheep Swine	17	16	10 14	11 14	13 17	12	19	19	19	18	l tí	8
DATE:	ı *′	ı •°	1 43	1 11	l ''	l •°	ιŤ	I **	ı	1	ı	lí

17.—Estimated Numbers and Values of Farm Poultry in Canada, 1931-32.

		1	1				
Province and Item.	No.	Average Value per head.	Total Value.	Province and Item.	No.	Average Value per head.	Total Value.
		\$	\$			\$	
Canada Hens and				Ontario— Hens and	1		
chickens1931	61.572.000	0.60	36,908,000	chickens1931	22,380,000	0.60	13,428,000
1932	59,842,800	0.50	36,908,000 29,838,000	chickens1931 1932 Turkeys1931	21,683,000	0.57	12,359,00
Turkeys1931	2,232,000	1.88	4,198,000 2,785,000	Turkeys 1931	399,000	2.55 1.70	1,017,000 704,000
ohickens	904,000	1.53	4,198,000 2,785,000 1,385,000	1932 Geese1981 1932	414,000 453,000	1.71	775,00
1932 Ducks1931	340.4W	I L*L144	991,000	1932 Ducks1931 1932	465,000	1 - 22	567,00
1932	760,000 810,700	0.65	l 524.000	1982	356,000 367,000	0.93	331,00 261,00
Totals, poultry 1931	65,468,000	· -	43,138,000 34,138,000	1982 Totals, poultry 1931	23,588,000	*-	15,551,00
1932	64,080,200	-	34,138,000	1932	22,929,000	-	13,891,000
P. E. Island—				Manitoba—			
Hens and chickens1931	827,000	0.85	708,000	Hens and chickens1931	5 002 000	0.56	2,802,000
1932	833,800	I 0-56	467,000	1932	4,928,700	0.39	1,922,00
1932 Turkeys1931	10,000	2-50 1-74	25,000	chickens1931 1932 Turkeys1931 1932	399.000	1.79	714,000
1932 Geese1931	11,100 30,000	1.74	19,000 54,000	i Geese 1931	I 88 000	0-99 1-18	495,000 104,000
1029	26,500	1.22	32,000	1932	118,600	0.73	87,000
Ducks	11,000 13,800	1·05 0·71		Ducks1931 1932	57,000 69,000	0.68 0.46	39,000 32,000
Totals, poultry 1931	878,000	-	794,000	Totals, poultry 1931	5,547,000	-	3,659,000
1932	885,200	~	528,000	1932	5,616,700		2,536,000
Nova Scotia				Saskatchewan—			
Hene and				Hens and			
chickens1931	1,232,000	0.79 0.64		chickens1931	10,651,000 10 644 000	0.44 0.32	4,686,000 8,406,000
chickens,,1931 1932 Turkeys1931	12,000	2.69	32,000	Turkava 1031	623,000	1.52	947,000
1932 Geese1931	9,400 14,000	1-92		1005	729,400 125,000		635,000 138,000
1932	12,800	1-51	19,000		140,600	0-67	86,000
Ducks 1931	9,000	l 1·08		Ducks1931	108,000 101,600	0·61 0·41	66,000 42,000
Totals, poultry 1931		0.84		1932 Totals, poultry 1931	11.507.000	0.41	5.837.000
1932	1,239,500	-	818.000	1932	11,603,200	-	4,169,000
New Brunswick—				Alberta—			
TT 1				Hone and			
chickens 1931 1932	1,264,000	0·79 0·66		chickens1931	8,269,000 7,676,100	0.46 0.32	3,804,000 2,456,000
1 urkeys1951	33,000	Z·03	94,000	Turkeys 1931	565,000	1.60	904.000
Geese	26,800 15,000	2·07 2·08	55,000 31.000	1932	582,900 96,000	0.84	490,000 117,000
1099	14,700	1.53	22,000	1932	94.300	0.68	64.000
Ducks1931	10,000	1.18	12,000	Ducks1931.	86,000	0-65 0-42	56.000
Totals, poultry1931	13,600 1,824,000	0.87	12,600 1,136,000	1932 Totals, poultry 1931	100,900 9,016,000	- 12	4.881.000
1932	1,470,100		1,023,000	1932	8,454,200	- i	3,052,000
Quebec—				British Columbia-	!		
Hens and				Hens and			
chickens1931	7,624,000 8,113,800	0.80 0.68	6,099,000 5,517,000	chickens1931	3 240 800	0·79 0·60	3,414,000 2,004,000
Turkeys 1931	150,000	2.40	360,000	chickens1931 1932 Turkeys1931	39,000	2.70	105,000
1932	162,500	1.76	286,000 118,000				83,000 19,000
Geese	74,000 78,700	1·60 1·27	100,000	1932	9,000 9,600	1.50	14.000
	84,000	l 0⋅95	80,000	Ducks1931	39,000 45,000	1.06	41,000 40,000
Ducks1931							
Ducks	90,100	0.86	77,000 6,657,000	1932 Totals, poultry 1931 1932	4,409,000	- 0.08	3,579,000 2,141,000

Production and Value of Wool.—The production of wool in Canada is placed at 20,518,000 lb. from 3,647,207 sheep and lambs in 1932, as compared with 20,365,000 lb. from 3,608,000 sheep and lambs in 1931. Table 18 gives the total estimated production and value of wool for the years 1915 to 1932.

18.-Estimated Quantities and Values of Canadian Wool Clip, 1915-32.

Nore.—Sheep on Indian reserves included.

Year.	Sheep.	Production of Wool.	Average Price per lb. of Wool.	Value.
	No.	lb.	cents.	\$
915	2,038,662	12,000,000	28	3,360,00
916	2,022,941	12,000,000		4,440,00
917	2,369,358	12,000,000	59	7,000.00
918	3,052,748	20,000,000	62	12,000,0
919	3,421,958	20,000,000	60	12,000.0
920	3,720,783	24,000,000	22	5.280.0
921	3,675,860	21,251,000	14	2,975.0
922	3,262,626	18,523,392	17.5	3,149,0
23	2,755,273	15,539,416	20	3,160.0
024,	2,686,367			3.774.0
925	2,757,199	15,553,045	25	3,961.0
026	3,144,343	17, 959, 896	23	4.131.0
927	3,265,727	18,672,766		4,108.0
)28	3,418,992			5,099.0
29.,,	3,638,972			4.470.0
30.	3,698,800			2.311.0
81	3,608,000			1,644,0
32	3,647,207			1,093,8

Egg Production.—Table 19 gives the results of calculations indicating approximately the numbers and values of eggs produced on farms in Canada for the years 1923-32. The estimates relate only to hens' eggs produced on farms, and therefore do not include eggs of urban poultry, or eggs of farm turkeys, ducks, etc. In 1930 the production of eggs elsewhere than on farms amounted to 20,450,000 dozen, or 9.3 p.c. of the total production of eggs in that year, as ascertained at the census.

19.—Annual Production and Value of Farm Eggs in Canada, 1923-32.1

Note.-Includes Indian reserves.

Year.	Egg- producing Hens on Farms.	Average Production per Hen.	Total Eggs Produced.	Average Value per dozen.	Total Value of Eggs Produced.
	No.	No.	dozen.	cents.	\$
1923. 1924. 1925. 1926. 1927. 1928. 1929. 1939. 1931. 1931.	31, 064, 992 32, 220, 067, 32, 837, 040, 34, 006, 290, 34, 722, 700, 34, 453, 000, 35, 044, 870, 30, 940, 616, 30, 062, 697	79 82 84 87 95 95 95	202, 186, 508 212, 648, 685 224, 778, 867 237, 080, 399 253, 277, 227 268, 868, 857 274, 317, 87 278, 255, 753 286, 882, 447 277, 604, 215	31 30 27 17	49,770,780 50,382,439 57,950,340 66,198,285 80,110,010 84,442,727 83,171,346 74,837,092 49,206,845 36,586,415

For details of egg production in 1931 and 1932, see Monthly Bulletin of Agricultural Statistics, April, 1933.

Subsection 4.—Fur Farming.1

Origin of Fur-Farming Industry.—A short account of the origin of the furfarming industry in Canada was given on p. 249 of the 1929 edition of the Year Book. A fuller description of the rise of the industry in Prince Edward Island, its

¹Revised by Miss F. A. Brown, Chief, Fur Statistics Branch, Dominion Bureau of Statistics. A list of publications of this Branch will be found in Chapter XXIX. For further particulars regarding fur farming the reader is referred to the Report on Fur Farms, 1931, which may be obtained from the Dominion Statistician, Ottawa.

original home, was given in the Census and Statistics Monthly for May, 1914, at p. 110, while a still more detailed account of the earlier history of the industry was given in a publication of the Commission of Conservation, Ottawa, entitled "Fur Farming in Canada", by J. Walter Jones, B.A., B.S.A., the second edition of which was published in 1914.

Fur Farms of Canada.—The term "fur farm" includes farms devoted entirely to the raising of fur-bearing animals (principally silver foxes), together with parts of farms where the raising of fur-bearing animals is carried on as a distinct branch of the operations. Such farms increased in numbers from 429 in 1919 to 6,369 in 1931, or, if muskrat and beaver farms are included, to 6,541, and the industry is still growing in number of farms and varieties of fur-bearing animals on these farms, although its revenue has suffered from the effects of the low level to which prices for live animals and pelts of all kinds dropped in 1931. Although the fox has proved the most suited to domestication, other kinds of fur-bearing wild animals are being raised in captivity—mink, raccoon, skunk, marten, fisher and rabbit. Mink farms are now the most numerous of the miscellaneous class, raccoon farms coming second and muskrat third. A few of the fox farms also raise miscellaneous fur-bearing animals in addition to the foxes.

Capital Investment.—The earliest Dominion-wide statistics of fur farms were collected for the year 1919, and since then annual statistics have been obtained. Statistics showing the increasing numbers and values of fur-bearing animals on fur farms are given in Tables 20 and 21, the former showing an increase of 524 p.c. since 1923, and the latter an increase of 34 p.c. from \$6,325,718 to \$8,497,237. The capital investment in lands and buildings in 1931 was \$7,095,111, making a grand total investment of \$15,592,348 in the industry in that year.

20.-Numbers of Fur-bearing Animals on Fur Farms in Canada at Dec. 31, 1923-31.

	-					· · · · · · · · · · · · · · · · · · ·			
Kind of Animal.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
Silver fox	25, 186		42,125	47,657		72,631	97, 190	105,894	93,734 8,369
Patch or cross fox	1,556 627 12	1, 5 96 720 216	1,736 1,196 735	1,742 1,163 1,050	1,747 1,198 1,713	1,489	2,563 2,848 1,576	3,335 3,018 1,755	2,879 1,219
Silver-blue fox	2 489	- 3 668	982	1,650	_	5,028	4 10,436	64 20,726	12 65 21,062
RaccoonSkunk	159 92	245 138	445 129	689 88	1,238 111	1,852 99	2,870 78	3,395 20	3,600 54
Marten Fisher Opossum	11 8 -	13 9 ~	35 15	69 46	87	152 136	187 184 -	228 195 3	272 244 -
CoyoteBadger. Lynr	9 - 2	22 -	59 3 3	4 - 3	29 - 2	30 113	73 726 10	135 55 9 13	72 307 16
Otter Fitch	- [-		~	-	ı 	2 25 5	150	826
Ferret	=	-	- -	-	_	-	11 -	6 10	11 27
Siberian hare Chinchilla rabbit. Rabbit, n.e.s	24 222	25 351 353	35 1,215 967	39 1,843 252	16 3,085 1,129	3,464 1,733	1,438 428	1,206 475	239 207
Karakul sheep Muskrat ² Beaver ²	883 10,820 23	1,545	1,209 28,105 155	177 35,838 360	1,082 55,390 505	94	96 711,111 698	7 193 425,525 1,112	140 119,285 806
Totals	40,125	37,102	79,149			250,692	832,053	563,018	250,446

Statistics not available.

Based on estimates lurnished by the operators of the farms.

21.—Values of Fur-bearing Animals on Fur Farms in Canada, at Dec. 31, 1923-31.

Kind of Animal.	1923.	1924,	1925.	1926.	1927.	1928.	1929.	1 9 30,	1931.
	<u></u> \$	\$	\$	*	\$	\$	2	\$	\$
Silver fox Patch or	6,119,651	8,095,181	9,536,097	10,652,304	12,824,787	14,922,378	18,047,124	13,386,171	7, 259, 148
cross fox	108.324	174,524	111,293	110.517	122,400	167,222	233,220	270,257	150.597
Red fox	100.875								
Blue fox	1,600			149.990					
Silver-blue	1,000	99,100	126,205	149,980	221,100	112,002	190,100	114,130	73,237
	i					1,520			650
Mhite fox	100	150	i	_		1,520		1,700	
Mink	10.679	20.042		79,145	148,005				
Raccoon	2,208	20,042	6,487	16,448				1,286,737	642,045 48,640
Skunk	784	2,735 857	877	778	1.100			72,242 73	187
Marten	950	1,200	2,805	4.870			17.340		
Fisher	770	1,240		6,600			28,585		
Opossum	110	1,240	2,000	0,000	12,010	24,620	20,000	25,510	29,170
Covote	111	650	715	55	490	480	850		836
Badger	111	000	60:		450	4,445			
Lvnr	50	140		150	100	880			
Otter	-	140	100	100	1 100	70			"
Fitch	_	I		_	l	1 10	550		13,478
Ferret]				I I		25		10,110
Weasel	_		_		1 [1	i -	50		28
Nutria				_	l I	1 -	"	700	
Siberian hare	100	100	220	188	80	· _			1,500
Chinchilla	100	100	220	150	50		-	_	_
rabbit	2,230	3,705	12,865	15.303	23,648	27,711	8,627	2,089	342
Rabbit.n.e.s	2,200	2,065	5,334	1,944					
Karakul	_	2,000	0,001	2,022	0,200	12,0,0	2,140	1,020	"
sheep	49,800	93,000	32,410	8,809	21.539	5,348	4.300	5,334	1,650
Muskrat ²	16,861	\$5,000	140,525	73,308				755,800	
Beaver ²	625	_	4,650	11,720	24,455				
						1	l	I 	L
Totals	6.325.718	8,389,387	10.043.194	11,153,838	13,618,258	16,401,453	21,303,035	16,197,747	8,497,237

¹Statistics not available. ²Based on estimates furnished by the operators of the farms.

Annual Revenue.—The annual revenue of the fur farmer arises from two sources, the sale of animals and the sale of pelts. Table 22 shows the sales of animals by kinds in the years 1923 to 1931 and Table 23 the sales of pelts. During the past two years the sales of pelts have exceeded the sales of live animals, while in former years the reverse was the case.

22.-Values of Fur-bearing Animals Sold from Fur Farms in Canada, 1923-81.

Kind of Animal.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
	8	\$	\$	\$	8	\$	\$	*	\$
Silver fox Patch or cross fox. Red fox Blue fox Silver-blue fox White fox Mink Raccoon	14,469 1,289 - - 4,081	27,423 3,116 19,100 100 8,353	28,687 2,828 65,620	19,803 2,663 20,225 25,692	23,350 5,079 28,115 — — 58,992	38, 675 12, 159 28, 530 550 140, 889	66,554 22,178 45,035 407,570	29,296 10,900 24,895 161 301,754	8,626 5,788 8,270 -
Skunk	10 - - -		242 400	188 230	190 700	350	90 1,270 4,825 20 4,984 100	2,075 4,899 20	905 7,495 124 485 6,724
Ferret. Nutria. Siberian hare. Chinchilla rabbit. Rabbit, n.e.s. Karakul sheep. Muskrat. Beaver.	-	1,595 3,800	16,384	14,412 133 16,000	11,860 2,689 4,215	18,355 7,861 150 16,206	1,071 200 44,308	677 1,500	175 58 172 70 3,881 380
Totals	1,314,683	2,553,430	2,899,294	2,298,402	2,652,150	3,837,420	4,474,953	1,828,545	492,000

Kind of Animal.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
		\$	\$	8		1 3	*	3	3
Silver fox	819, 429	620,810	736,289	1.174.700	2.067.170	2,278,611	2.195.253	2.921.885	2.835.470
Patch or cross fox	32,007	33,120	27,880	34, 177	49, 125				
Red for	5,849	8,817	14,585	13.055	21,257	21,774			
Blue fox		·	· -	60	8,053	13,516			
White fox	480		40				- '-	25	792
Mink	773	329	1,888	2,044	4,546	8,916	12,471	34.538	99.033
Raccoon	165	97	242		1,193	1,502	3.027	2,618	4.445
Skunk	9	71	65	252	30	23	48	11	4
Marten	l - i	-	_	-	173	30		100	79
Fisher	-		72	85	60:	112			
Coyote	301	· -	30	60	60	- 1	340		718
Badger	-	-		_	-	28	1,646	3,925	3, 101
Lyni	- 1	-	_	-	-	45	· -	100	· -
Fitch		- 1		-	_		-	l -	341
Weasel	-		- -	- _	-	_ '	-	7	
Siberian hare	-	200	97	7		-	-	-	_
Chinchilla rabbit.	15	85		178	1,701		806	45 22	65
Rabbit, n.e.s		91	195	28	182	246	263	22	
Karakul sheep	1,145	1,000			800			l	
Muskrat	295	-	1,930	896	8,564		9,335		
Beaver	-	-	-	215	100	25	550	150	126
Totals	861,468	661,629	783,313	1,228,052	2,163,014	2,389,926	2,394,918	3,096,270	3,071,460

23.-Values of Pelts Sold from Fur Farms in Canada, 1923-31.

The Provincial Distribution of Fur Farming.—The statistics of Table 24, showing the capital investment in the industry by provinces, indicate that Prince Edward Island no longer holds its earlier margin of supremacy in the industry.

In value of fur-bearing animals Ontario ranks in first place with 22·1 p.c. of the total, Quebec is next with 21·6 p.c. and Prince Edward Island, Alberta, New Brunswick, Manitoba and Saskatchewan follow with 12·2 p.c., 10·9 p.c., 7·7 p.c., 7·4 p.c. and 6·8 p.c., respectively. As regards value of land and buildings, Ontario takes first place followed by Quebec and Prince Edward Island.

24.—Numbers of Fur Farms, Values of Land and Buildings and Values of Fur-
bearing Animals, by Provinces, 1929-31.

Nova Scotia 456 New Brunswick 739 Quebec 1,587 Ontario 1,055 Manitoba 223 Saskatchewan 129				es of Land Buildings.	and	Values of Fur-bearing Animals,		
P.E. Island. 727 Nova Scotia. 456 New Brunswick. 739 Quebec. 1,587 Outario. 1,055 Manitoba. 223 Saskatchewan. 129 Alberta. 251 British Columbia. 379	1930.	1931.	1929.	1930.	1931.	1929.	1930.	1931.
N.W. Territories 5,513	566 789 1,996 1,203 308 213 304 409 15 2	621 753 2,043 1,218 311 204 319 412 11	290,508 603,742 1,597,628 1,893,933 1,125,935 671,304 618,116 768,791 42,825	656, 120 1, 698, 954 1, 841, 226 524, 572 738, 744 653, 712 763, 615 33, 250 3, 700	\$ 983,609 269,587, 451,417 1,314,061 1,687,221 508,585, 723,311 663,098 470,922 23,300	1,007,075 2,177,905 5,120,493 8,770,441 1,913,271 814,412 1,392,448 1,247,065 82,975	1,498,240 3,686,377 3,378,708 991,688 1,006,906 1,369,120 1,051,565	657,774 1,839,816 1,874,213 625,633 578,203 923,616 509,975 14,576

Subsection 5.—Dairying Statistics.1

This subsection deals with the dairy industry under the following divisions: creamery butter; factory cheese; condensed milk and milk powder; total production of dairy factories; the production of butter and cheese on farms; and closes with a summary of the total value of dairy production in the years 1925-31.

¹For fuller particulars see the Bureau's Report on Dairy Factories, obtainable from the Dominion Statistician.

Creamery Butter.—Butter reached its maximum exportation in the year ended June 30, 1903, with 34,128,944 lb. The latest figures, for the year ended Dec. 31, 1932, show an export of 3,505,700 lb. The quantity of creamery butter made in Canada in 1931 was 225,955,246 lb. (Table 25), valued at \$50,198,878, an increase in quantity over the preceding year of 40,204,185 lb. or 21.6 p.c. but a decrease in value of \$6,471,626 or 11.4 p.c. The average price per lb. for the whole of Canada was 22.2 cents in 1931 compared with 30.5 cents in 1930.

25.—Quantities and Values of Creamery Butter Production, by Provinces, 1929-31.

Province.		Quantities.		Values.			
I rovince.	1929.	1930.	193t.	1929.	1930.	1931.	
	lb.	lb.	lb.	8	\$	\$	
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	53,489,879 59,346,844 15,472,109 14,786,205	4,733,579 2,059,678 60,746,666 64,898,291 15,786,896 13,920,561 17,716,744	2,488,677 69,653,540 77,502,427 21,078,073	20,366,452 23,682,187 5,724,640 5,541,464 5,825,248	567,825 1,574,254 669,209 17,851,545 20,593,397 4,668,746 4,307,967 4,968,227 1,471,334	489,189 1,510,560 614,463 14,970,698 18,023,230 4,370,195 4,025,100 4,711,231 1,484,212	
Totals	170,810,239	185,751,061	225,955,246	65,929,782	56,670,504	50,198,878	

Factory Cheese.—In 1868 the quantity of cheese exported from Canada was 6,141,570 lb. In 1904 cheese reached its maximum exportation with 233,980,716 lb., and the exports of cheese for the year ended Dec. 31, 1932, amounted to 86,939,900 lb. The production of factory cheese in 1931 totalled 113,956,639 lb. with a value of \$12,824,695, a decrease in quantity from the previous year of 4·3 p.c. and a decrease in value of 29·1 p.c. (Table 26). The average prices per lb. were 11·2 cents in 1931 and 15 cents in 1930.

26.—Quantities and Values of Factory Cheese Production, by Provinces, 1929-31.

Province.		Quantities.		Values.				
r rovince.	1929.	1930.	1931.	1929.	1930.	1931.		
	lb.	lb.	lb.	\$	\$	\$		
Prince Edward Island	1,391,603	870,580	514,618	243,452	129,433	59,103		
Nova Scotia New Brunswick	18,867 578,493	606,956	528.002	3,794 109,218	98,422	62.355		
Quebec	35,169,815	34,059,680	25,907,691	6,239,139	5,106,866	2,905,855		
Ontario	79,904,131	81,322,611	84,440,199	14,529,309	12,372,397	9,471,427		
Manitoba	500,426	504,490	454,351	106,351	86,614	61,324		
Saskatchewan	142,024		320, 305	30,091	23,383	39,200		
Alberta	1,001,475	1,035,352	1,040,588	198,047	175,392	118,390		
British Columbia	39,452	564,833	750,885	11,929	97,363	107,041		
Totals	118,746,286	119, 105, 203	113,956,633	21,471,330	18,089,870	12,824,695		

Condensed Milk and Milk Powder.—The quantity of condensed milk made in Canada in 1931 was 15,485,643 lb., valued at \$1,562,710, a decrease in quantity of 7,874,812 lb. or 33·7 p.c., as compared with 1930. The quantity of evaporated milk made was 45,953,727 lb., valued at \$3,523,584, a decrease of 20·3 p.c. in quantity and of 29·5 p.c. in value compared with 1930. The quantity of milk powder and skim-milk powder made in 1931 was 15,391,049 lb., valued at \$1,566,356. Of the

26 condenseries in operation in Canada in 1931, 23 were situated in Ontario. The total value of products of condenseries in Canada was \$8,754,002. Table 27 shows the quantities and values of products other than butter and factory cheese for the years 1929-31.

27.—Quantities and Values of Miscellaneous Products of Dairy Factories, 1929-31.

Product.		Quantities.		Values.				
round.	1929.	1930.	1931.	1929.	1930.	1931.		
	lb.	łb.	lb.	\$	\$	\$		
Condensed milk	25,482,419	23,360,455	15,485,643	2,710,090	2,444,033	1,562,71		
Evaporated milk	53,995,117	57,630,875	45,953,727	5,060,229	4,997,590	3,523,58		
filk powder	2, 167, 333	2,354,222	2,412,621	533,904	481,071	477, 21		
kim-miik powder		14,307,056	12,978,428	1,242,837	1,278,250	1,089,14		
ream powder	115,614	90,134	36,903	59,281	45,067	18,6		
kim condensed milk	10,491,869	9,141,840	4,403,253		469,010	233,30		
ondensed coffee	247,833	200,394	169,707	43,768	30,800	23,2		
hey butter	1,309,337	1,397,513	1,384,348	456,431	379,345	257,8		
aseio	1,211,451	1,095,960	776,656	174,641	112,326	60,5		
се сгван	7,149,947	7,078,039	6,100,148	9,737,020	9,600,688	8,204,4		
lilk sold	46,979,921	44,956,336	42,209,472	20,894,287	20,332,269	17, 119, 9		
ream sold. (lb. butter fat)	16,916,547	16,767,448	13,587,286		10,225,844	7,564,14		
hey cream sold	- 1	-	-	253,224	191,201	125.0		
uttermilk sold	-	-	-	389,008	397,800	333,4		
undry				854,570	877,864	865,6		
Tetals		_	_	53,988,885	51,863,158	41,458,8		

Total Production of Dairy Factories.—In Table 28 are shown the total values of all products of dairy factories by provinces for the five years 1927 to 1931. For Canada as a whole, the figures show a decline in the latest year of 17.5 p.c. All of the provinces show decreases for 1931 as compared with 1930.

28.—Total Values of All Products of Dairy Factories, by Provinces, 1927-31.1

Province.	1927.	1928.	1929.	1930.	1931.	
	•	\$	\$	\$	\$	
Canada	135, 910, 930	144.378.614	141,389,997	126,623,532	104,482,400	
Prince Edward Island	1,143,554		1,096,630			
Nova Scotia	3, 186, 845					
New Branswick	1,683,065				1,538,95	
Quebec	29, 101, 969	31,784,255		25,469,504	20,079,92	
Ontario	73,788,538					
Manitoba	8,385,844					
Saskatchewan	6,414,373		8,471,388	7,083,895	6,573,42	
Alberta	6,888,049			8,343,576		
British Columbia	5,318,693	6,022,914	6, 149, 223	6,886,841	5,463,00	

¹The total values of dairy products in 1871 and various subsequent years are shown in the "Statistical Summary of the Progress of Canada", immediately following the Table of Contents.

Dairy Butter and Home-made Cheese.—The statistics of the foregoing tables relate entirely to the products of dairy factories. In addition, there is a large production of butter on farms, generally described as dairy butter, and a small production of home-made cheese. No annual statistics are collected of these products; the census of 1911, however, showed that the production of dairy butter in 1910 was 137,110,200 lb., value \$30,269,497, and of home-made cheese 1,371,092 lb., value \$154,088. According to preliminary figures of the census of 1931 the production of dairy butter in 1930 was 97,214,696 lb. The production of dairy

butter in 1931 is estimated at approximately 104,640,000 lb., with a value of \$21,723,000, thus making the total estimated production of butter, including dairy butter, in 1931, 330,595,246 lb., valued at \$71,921,878.

Total Values of Dairy Products.—The total value of the dairy products of Canada in 1931 is estimated at \$161,243,580, comprising: creamery butter \$50,198,-878; dairy butter \$21,723,000, factory cheese \$12,824,695, home-made cheese \$108,500, miscellaneous dairy factory products \$17,082,507 and milk consumed fresh or whole \$59,306,000. Details by provinces are given for 1931 in Table 29, with Dominion totals for the six preceding years.

29.—Values of the Dairy Production by Provinces, 1931, with Dominion Totals for 1925-31.

Province.	Daîry Butter.	Creamery Butter.	Home- made Cheese.	Factory Cheese.	Miscellaneous Factory Products.	Milk Consumed Fresh or Otherwise used.	All Products.
	\$	\$	\$	\$	\$	\$	\$
1930 1929 1928 1927	3,312,000 7,500,000 1,275,000 3,180,000 1,785,000 482,000 21,723,000 23,844,000 23,844,000 29,103,000 30,435,121	1,510,560 614,463 14,970,698 18,023,230 4,370,195 4,025,100 4,711,231	5,250 800 29,000 15,000 22,000 17,000 3,400 108,560 112,640 82,800 76,654	62,355 2,905,855 9,471,427 61,324 39,200 118,390 107,041 12,824,695 18,089,879 21,471,339 39,494,443 25,522,148	1,006,155 341,029 2,511,183 10,018,429 427,721 490,771 459,991	3,149,000 2,856,000 15,483,000 11,491,000 5,983,000 6,760,000 9,481,000 3,295,000 59,306,000	6,933,965 6,332,647 39,161,736 56,519,086 12,139,240 14,511,071 16,572,612

Subsection 6.—Fruit Farming.

The native fruits of Canada, with the exception of the blueberry and the cranberry, are not cultivated on a commercial scale. Among the introduced fruits, the apple holds the premier place in Canadian fruit growing, the value of the commercial production of this fruit ranging between six and twenty-one million dollars in the last ten years. An important subsidiary of the grape-growing industry is the manufacture of native wines, which has increased from an estimated value of \$706,000 in 1921 to \$3,276,847 in 1931.

For a fuller discussion of fruit farming in Canada the reader is referred to pp. 242-7 of the 1931 edition of the Year Book.

Census Statistics.—Statistics of the number of bearing and non-bearing fruit trees in 1921 were published on p. 252 of the 1925 edition, together with comparative figures for 1911 which were summarized on p. 244 of the 1931 edition. The figures for 1931 were not available at the time of going to press.

Annual Statistics of Fruit Production.—Table 30 shows the estimated quantities and values of commercial fruits produced in Canada in 1931 and 1932

Owing to changes in the method of collecting these statistics, in some instances they cannot be considered as strictly comparable with those published in previous editions of the Year Book. Figures for the years 1923-31 on the old basis will be found at p. 1054 of the 1932 Year Book.

30.—Estimated Quantities and Values of Commercial Fruit Production in Canada, 1931-32.

i		1931.		1932.			
Kind of Fruit.	Total Quantity.	Average Price.	Total Value.	Total Quantity.	Average Price.	Total Value.	
		\$	\$		\$	\$	
Apples	3,793,052 brl. 399,821 bush. 224,621 " 882,413 " 48,732 " 238,487 " 17,543,656 qts. 5,723,473 " 51,363,240 lbs.	2·28 1·16 1·03 1·33 2·15 2·40 0·10 0·15 0·016	8,632,014 464,773 234,930 1,172,527 104,841 574,214 1,755,235 842,106 835,803	2,789,447 brl. 394,268 bush. 211,750 " 793,750 " 41,823 " 44,823 " 242,531 " 23,909,752 qts. 7,416,512 49,000,000 lbs.	1.98 0.86 0.89 1.05 2.85 1.78 0.06 0.09	5,518,518 339,135 189,425 834,500 119,100 432,848 1,427,767 690,017 671,300	

The Tree Nursery Industry.—The first Canadian commercial nursery was established near Fonthill, Ont., and it was followed within a few years by the establishment of a nursery in Toronto by a Rochester, N.Y., firm. Since that time the industry has steadily spread as the country has developed, until to-day there are approximately 170 firms growing or dealing in nursery stock of all kinds, including fruit trees.

Table 31 shows the total numbers and values of fruit trees, bushes and plants sold by nurserymen for the four years 1929-32. For 1919 and 1920, see the Canada Year Book of 1921, p. 257; for 1921 and 1923, see the Canada Year Book of 1926, p. 241; for 1924 and 1925, see the Canada Year Book of 1929, p. 257; for 1926 and 1927, see the Canada Year Book of 1931, p. 246 and for 1928, see the Canada Year Book of 1932, p. 1055.

31.—Numbers and Values of Fruit Trees, Bushes and Plants, Sold by Nurserymen in Canada, years ended May 31, 1929-32.

Description of Tree, Bush or		Number	s Sold.			Total V	/alues.	
Plant.	1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.
	No.	No.	No.	No.	\$	\$	\$	\$
Apples— Early	52,850	45.587	42,455	46,575	20;295	16,466	17,225	15,752
Fall.,,,	62,892	63.354	42,352	65,567	23,014	24,408	13,964	19,740
Winter	151,503	159,361	151,831	175,383	51,824	54,592	57,171	59,887
Crab apples	18,702	12,281	8,328	9,179	6, 188	3,783	3,301	2,928
Totals, Apples.	285,947	280,583	244,966	296,504	101,321	99,249	91,663	98,314
Pears	34.863	35, 198	41.268	42,752	15,340	15,618	20,569	19,161
Plums	57,693	50,686	37,168	35.512	21,263	20,033	18,555	14,421
Peaches	88,180	53,466	72,190	80,471	22,200	14,271	17,814	17,798
Cherries	51,752	47,738	48,396	44,732	25,840	22,837	25,024	21,161
Apricots	312	556	926	608	154	276	496 86	182
Quinces	72	69	157	42	30	31 1,216	1.293	$\frac{21}{1,216}$
Blackberries	40,825	24,170	27,838	31.932	2,279	5.937	6,376	4.687
Currants	92,901	69,724	65,777	57,004	8,923 47,788	75,408	39.126	13,267
Grapes Gooseberries	750,083 39,859	1,047,647	483.734 30.866	208,825 34,917	6.740	5.411	5,004	3.674
Raspherries	506,290	35,742 520,504	603.076	681,256	27,267	25,715	26,666	27,395
Loganberries	2,155	1.862	7.143	1,168	198	179	2,539	113
Strawberries	2,004,258	1,593,353	1,539,159		17,833	17,076	14,660	12,365
Totals					297,176	303,257	269,906	233, 775

Floriculture.—The production and value of floricultural and decorative plants grown in Canada and sold during the year ended May 31, 1932, was \$1,607,096 as indicated by Table 32.

32.—Production and Value of Floricultural and Decorative Plants Grown in Canada and Sold during the year ended May 31, 1932.

Description.	Quantity.	Average Whole- sale Price per Unit.	Total Whole- sale Value.	Description.	Quantity.	Average Whole- sale Price per Unit.	Total Whole- sale Value.
	No.	\$	\$		No.	\$	\$
1.Outdoor roses 2. Ornamental trees (ever-	304,265		66,022	8. Flowering plants for indoor use 9. Decorative	351,182	-	102,806
green)	68,244	0.76	51,744	use	67,233	0.03	28,943 10,994
duous)	198,518 466,092		· ·	11. Cut flowers, grown indoors. 12. All other varie-	23,493,349		1,079,232
door planting 5. Perennials 6. Biennals	364,923 53,354	0.10	38,134	ties including			}
7. Bedding plants for transplant-		•••	2,142	outdoors		-	14,695
ing	2,359,942	-	82,049	Total Value	-		1,607,096

Subsection 7.—Special Agricultural Crops.

Maple Syrup and Sugar.—The Canada Year Book, 1924, contained a description of the process of maple sugar-making on pages 247 and 248. Table 33 gives the production and value of maple sugar and syrup in Canada for the years 1930, 1931 and 1932 as estimated by the Dominion Bureau of Statistics.

33.—Estimated Quantities and Values of Maple Sugar and Maple Syrup Produced in Canada, by Provinces. 1939-32.

	l M	Iaple Sugai	r.	IN	Iaple Syru	٠.	Total Value	
Province and Year.	Quantity.	Average Price per lb.	Value.	Quantity.	Average Price per Gallon.	Value.	of Sugar and Syrup.	
<u></u>	lb.	cents.	*	gallons.	\$	*	*	
Canada	1 5,484,100	17	1,381,513 930,8 06 692,480		1.98	3,8 69,167 2, 686,90 0 2,054,277		
Nova Scotia	1 63,600	29	27,355 18,400 27,610	3,100	2.28	8,799 7,000 21,143	25,400	
New Brunswick 193 193 193	1 58,500	28	21,348 16,400 12,197	2,200	2.11	5,668 4,600 7,628	21,000	
Quebec 193 193 198	1 4,726,000	16	1,212,193 756,000 585,000		1-44	2,399,590 1,061,300 1,142, 0 00	1,817,300	
Ontario	1 636,000	22	120,617 140,000 67,673	572,400	2.68	1,455,050 1,534,000 883,506	1,674,000	

¹For details, see Monthly Bulletin of Agricultural Statistics for June, 1932, p. 185.

The table shows that for the whole of Canada there were estimated increases of 1,733,200 lb. of maple sugar and 429,779 gal. of maple syrup and a decrease of \$790,943 in the combined value of the two products in 1932 as compared with 1931.

Sugar Beets and Beetroot Sugar.—A brief account of the development of the beetroot sugar industry in Canada will be found in the Canada Year Book, 1925, pp. 255-256. At the present time two companies are operating in Canada: the Canada and Dominion Sugar Co., Ltd., with factories at Chatham and Wallaceburg in Ontario, and the Canadian Sugar Factories, Ltd., with a plant at Raymond, Alberta. Table 34 shows the area, yield and value of sugar beets grown in Canada in the years 1921-31.

24.—Acreages, Yields and Values of Sugar Beets in Canada and Quantities of Refined Beetroot Sugar Produced, 1921-31.

Year.	ar. Grown per					Quantity and Value of Refined Bestroot Sugar Produced.			
	acres.	tons.	tons.	\$	\$	lb.	s	cents per lb.	
1921	25,535	7-80.	199,334	9.90	1,974,384	52,862,377	3,554,203	6-72	
1922	14,955	8-55	127,807	7.56	966,521	29,911,770	1,645,885	5-50	
1923	17,941	8-87	159,200	12.08	1,922,668	39,423 160	8,745,200	9.49	
1924	31,111	9.50	295,177	5.78	1,704,791	85,770,709	6,192,645	7.21	
1925	34,803	10.63	370,047	7.27	2,688,302	72,819,919	5,206,624	7-14	
1926	30,073	8.90	267,754	8.54	2,286,761	70,388,105	4,269,076	6.07	
1927	25,961	7.96	206,713	9.73	2,012,134	60,969,131	3,694,303	6.06	
1928	34,323	7.14	244,930	8.33	2,041,465	64,653,348	8,340,571	5.17	
1929	32.556	7.23	235,465	8.84	2,080,996	69,399,213	3,335,344	4.81	
1930,	40,532	9.80	397,576	8.25	3,278,625	94,624,700	4.529,944	4.79	
1931	43,337	10-06	435.992	7.32	3,190,198	107, 139, 129	4,794,551	4-48	

Note.—Corresponding figures for 1911-20 are given at p. 1057 of the 1932 Year Book,

The production in 1931 of the largest beet-growing countries, in thousands of short tons, was as follows: Russia, 13,411; Germany, 12,165; United States, 7,901; France, 6,828; Czechoslavakia, 5,775; Spain, 3,148; Poland, 3,043; Italy, 2,612; Great Britain and Northern Ireland, 1,860; Belgium, 1,615; Netherlands, 1,134; Austria, 1,077.

Tobacco.'—In 1932, the commercial tobacco erop of Canada amounted to 54,094,000 pounds, the highest production on record, from 54,138 acres, as compared with 51,300,000 pounds from 55,000 acres in 1931. The farm value of the tobacco crop in 1932 is estimated at \$6,088,300 as compared with \$7,177,540 in 1931.

Table 35 lists the acreages, quantities produced and average yields per acre for 1900, 1910, and 1920 to 1932. The acreages for 1911, 1921 and 1931 are also the comprehensive figures of the census. For the inter-censal years, the acreage and production statistics quoted relate to the commercial crop only. This distinction is much more necessary in Quebec than in Ontario, since a considerable part of the tobacco production of Quebec comes from small plots.

¹ For further details, see Monthly Bulletin of Agricultural Statistics for March, 1933, pp. 62-64.

35.—Acreages and Yields of Tobacco in Canada, by Provinces, 1909, 1919, 1911 at	nđ
1920-32.	

Year.	Quebec.	Ontario.	Canada.2	Quebec.	Ontario.	Canada.2	Quebec.	Ontario,	Canada
	acres.	acres.	acres.	000 Гъ.	000 lb.	000 lb.	lb. per	lb. per	lb. per
		ţ	l	ł		!	acre.	acre.	acre.
9001		3,144	11,906	7,565	3,504	11,267	881	1,114	94
9101	11.818	7,017	18,928	10,115	7,499	17,632	856	1.068	9
9111	12,134	13.591	25,826	_	_		_		1
9201	17,252	19,621	36,891	13,366	19,279	32,660	775	983	l 8
9211		6.663	16,628		,		**-	***	l š
21	5,256	6,553	11.809	6,127	7.122	13,249	1.166	1,091	1,1
22	16.573	9,189	25,762	14,916	11,032	25,948	900	1,201	1.0
923	15,302	8,630	23,932	10,500	21,297	10,797	680	1,251	1,8
924	8,044	13,273	21,817	6,576	12.135	18.711	817	914	8
925				8,632		29.266	910		
	9,554	18,261	27,825		20,623			1,130	1,0
926	9,808	28,493	33,356	8,693	20,064	28,824	886	854	8
927	10,018	33,650	44,028	7,824	35,622	43,910	769	1,095	9
928	10,368	32,654	43,138	8,546	33,266	41,976	824	1,019	9
929	9,300	26,910	36,310	8,380	27,419	29,886	901	795	l 8
930	8.450	32,805	41.444	8,021	28,617	36,717	901	876	l á
9311	7.330	47.360	55,060	6,340	44,770	51,300	865	945	l ĝ
932	8.520	45,106	54,138	7.952	45,760	54,094	933	1.014	l 9

¹ Census data. ² The totals for Canada include small amounts produced in other provinces, principally in British Columbia.

Flax Fibre.—Table 36, compiled from information furnished by the Economic Fibre Division of the Dominion Experimental Farms, shows the area, production and value of flax fibre and allied products in Canada for each of the years 1915 to 1932.

36.—Acreages, Yields and Values of Flax Fibre, etc., in Canada, 1915-32.

37		1	Production.	İ	Values.					
Year.	Area.	Seed.	Fibre.	Tow.	Seed.	Fibre.	Tow.	Total.		
	acres.	bush.	lb.	tons.	\$	\$	\$	\$		
15	4,000	48,000	1,600,000	80 75	76,800	320,000	2,800	399,60		
16,,	5,200	25,000	600,000	75 [75,000	180,000	15,000	270,0		
17,	8,000	72,000			396,000	1,540,000	-	1,936,0		
18	20,000	110,000	6,200,000	900	930,769	1,085,000	270,000	2,235,7		
19	20,262	90,000	4,416,000	1,162	967,500	3,975,400	581,000			
20	31,300	217,000		1,860	434,000	5,952,000	744,000			
21	6,515	62,120	1,824,200	372	469,080	1,650,570	148,800			
22	1,200	10,800	860,000	96.	21,600	72,000	11,520	105,1		
23	3,300	20,000	272,650	741	50,000	111,375	4,440	165.8		
24	5,760	69,120	1,785,600	184	172,800	535,500	3,750	712,0		
25	6,200	68,200	1,440,000	2,325	136,400	201,600	116,250	454,2		
26	4,025	48,300	-	2,075	96,600	-	111,250	207,8		
27	4,260	36,080		4,260	108,240	-	213,000	321,2		
28	6,880	41,280		6,880	165,120	-	344,000	509,1		
29	6,280	32,970	-	4,500	156,607	-	236,250	392,8		
80	6,143	62,232		6,086	96,684		273,870	370,5		
31	4,220	35,870	25,000	3,019	53,805	4,000	120,760	178,5		
32	5,135	35,945	200,000	3,552	56,156	18,000	95,964	169,9		

Hives and Honey.—A table on page 277 of the 1925 Year Book shows the production and value of honey and beeswax in 1920, according to the census of 1921. The principal honey-producing provinces were Ontario and Quebec, which between them produced in 1920 more than 94 p.c. of the recorded total of 6,461,450 lb., valued at \$1,633,251.

There are at present no uniform annual statistics of hives and honey for all the provinces, but a synopsis of the existing provincial estimates for recent years was given in the Monthly Bulletin of Agricultural Statistics for March, 1933, pp. 64-68. These estimates show a large increase since 1920, the total estimated honey production in 1931 being about 20,628,934 lb., the average value per lb. 8 cents and the total value \$1,651,175.

Subsection 8.—Farm Labour and Wages.

Average Wages of Farm Help.—The average wages paid to farm helpers in Canada for the year 1932 again show a considerable decrease as compared with the previous year. The cost of farm labour reached its highest point in 1920. In the next two years there was a rapid drop so that the average of yearly wages including board for male help in 1922 was nearly 28 p.c. less than in 1920. From 1923 until 1929, no very wide fluctuation occurred. In 1930, 1931 and 1932 continuous marked reductions were registered in the average value of yearly wages and board, following the downward trend of the prices of farm produce.

In Table 37 the value of wages and board is given for the years 1914, 1920, 1925, 1930, 1931 and 1932, both for the summer season and for the year, distinction being made in all cases between wages and board.

27.—Average Wages and Board of Farm Help in Canada, as Estimated by Crop Correspondents, 1914, 1920, 1925 and 1930-32.

Nove -	_M -	- Malae	F⇒Females.

		I	Per Mo	ntb in S	รินซาตา	r Seas	on.			Per '	Year.		
Province.	Year.	Wag	res.	Bos	rd.	Wa an Bos	d	Wages.		Board.		Wages and Board.	
		М.	F.	M,	F.	M.	F.	М.	F.	M.	F,	М.	F.
		*	•	\$	8	\$	•	\$	\$	\$	\$	\$	\$
Canada	1914 1923 1925 1930 1931 1932	21 60 40 34 25 19	8 27 22 20 15 11	14 26 23 22 18 15	11 20 19 18 15 12	36 86 63 56 43	19 47 41 38 30 23	155 543 383 326 240 176	57 275 244 210 159 120	168 278 258 233 199 165	132 217 218 199 163 135	323 821 641 559 439 341	189 492 462 409 322 255
P.E. Island	1914 1920 1925 1930 1931 1932	15 42 31 32 25 18	5 18 16 15 10	10 18 16 18 14 12	8 14 13 14 10 11	25 60 47 50 39 30	13 32 31 80 25 21	101 871 293 308 250 164	40 212 175 179 153 106	120 201 176 205 163 141	96 160 138 165 131 119	221 572 469 513 413 305	136 272 313 344 284 225
Nota Scotla	1914 1920 1925 1930 1931 1932	20 49 36 34 27 22	7 21 18 17 15 13	24 20 20 20 17 15	8 17 15 14 14 12	31 73 56 54 44 37	15 38 33 31 29 25	169 472 347 353 269 213	59 218 199 187 161 135	132 263 221 209 196 164	96 190 161 157 155 126	301 735 568 562 465 377	155 408 360 344 316 261
New Brunswick	1914 1920 1925 1930 1931 1932	21 56 37 34 27 20	7 19 18 16 14	11 23 17 20 16 13	8 16 13 15 12	32 79 54 51 43	15 35 31 31 26 22	170 531 370 335 276 175	69 213 210 181 161 121	132 254 191 215 184 145	96 178 151 164 143 115	302 785 561 550 460 320	165 391 361 345 304 236

37.—Average Wages and Board of Farm Help in Canada, as Estimated by Crop Correspondents, 1914, 1920, 1925 and 1939-32—concluded.

Note,-M=Males. F=Females.

		P	er Mon	th in S	ummer	Season	١.			Per ?	ear.		
Province.	Year.	Was	ges.	Bos	ırd.	Wa ar Bos	d	Wa _i	ges.	Bos	ır d .	Wages and Board.	
		М.	F.	М.	F.	М.	F.	М.	F.	М.	F.	М.	F.
-	į.	٠,	\$	\$	\$	\$	\$	*	\$	\$	•	\$	*
uebec	1914 1920	21 62	7 24	13 24	9 16	34 86	16 40	140 524	44 235	156 243	108 172	296 767	1
	1925 1930	37 33	19 17	19	13 13	56 52	82 30	340 316	190 175	196 194	14! 139	536 510	3
	1931	26	14	19 15	11	41	25	244	143	162	118	406	
	1932	18	10	12	9	30	19	158	104	126	98	284	1
ntario	1914 1920	19 52	7 25	13 23	10 19	32 75	17 44	141 474	52 259	156 262	120 211	297 736	
	1 1925	34	22	20	17	54	39	826	227	222	182	548	
	1930 1931	31 25	21 17	20 18	17 15	51 43	38 32	304 237	229 180	228 203	194 168	532 440	
	1982	18	12	15	12	33	24	178	130	163	130	341	
anitoba	1914	24	9	15	13	89	22	184	70	180	156	364	
	1920 1925	70 38	34 21	28 22	24 19	98 60	58 40	650 357	312 221	325 260	247 215	975 617	
	1980 1931	32 22	18 13	21 ·	18 15	53 39	36 28	298 213	194 134	238 197	204 162	536 410	
	1932	17	10	15	13	32	28	164	101	173	148	337	
skatchewan	1914	24	9	17	14	41	23	162	67	204	168	366	
	1920 1925	72 42	35 22	30 24	25 21	102 66	60 43	667 396	364 257	336 268	289 284	1,003 664	
	1930 1931	. 37 23	21 13	23 19	19 16	60 42	40 29	340 215	215 138	253 203	212 174	593 418	
	1932	18	10	15	13	33	23	158	98	166	142	324	
lberta	1914	24	10	16	14	40	24	173	68	192	168	365	
	1920 1925	76 44	36 27	31 24	26 22	107 68	62 49	697 421	360 277	341 280	278 244	1,038 701	
	1930	37 25	21	23	20 17	60 44	41 32	342 232	223 156	256 215	222 189	598 447	
	1931 1932	20	15 12	19 16	14	36	26	185	120	182	159	367	
ritish Columbia	1914	27	13	21	18	48	31	208	108	252	216	460	
	1920	64	36	31	27 21	95 72	63 47	684 470	431 282	849 800	311 232	1.033 770	
	1925 1930	46 46	26 25	26 26	21	72	46	450	270	291	242	741	
	1931 1932	35 25	20 15	23 19	19 15	58 44	39 30	358 250	228 168	275 217	228 180	633 467	

Subsection 9.—Prices of Agricultural Produce.

The average monthly cash prices of representative grades of Canadian wheat, oats, barley, flax and rye in the Winnipeg market—basis, in store at Fort William and Port Arthur—will be found for each month from January, 1930, to December, 1932, in Table 38. The average yearly prices of home-grown wheat, barley and oats in England and Wales are furnished in Table 39; in this table British currency is converted into Canadian currency at par rate of exchange $(\pounds = \$4.86\frac{1}{2})$. The average monthly prices of flour, bran and shorts at Montreal, Toronto, Winnipeg, Minneapolis and Duluth for 1932 are given in Table 40.

The yearly average prices per cwt. of Canadian live stock at Toronto, Montreal, Winnipeg and Edmonton are given for 1931 in Table 41 and the average yearly prices in 1932 at these centres and at Calgary in Table 42.

38.—Monthly Average Cash Prices per Bushel at Winnipeg of Representative Grades of Canadian Wheat, Oats, Barley, Flax and Rye—basis, in store at Fort William and Port Arthur—1938-32, and Yearly Average Prices for crop years ended July 31, 1926-32.

Year and Month.	Wheat, No. 1 N.	Oats. No. 2 C.W.	Barley, No. 3 C.W.	Flauseed, No. 1 C.W.	Rye, No. 2 C.W
1930.	ets.	cts.	cts.	cts.	ets.
January February March April May June July August September October November December	130·1 117·4 106·3 109·9 103·3 95·1 92·5 78·1 72·5 64·4 55·4	59.5 59.5 55.9 49.9 47.6 43.9 40.3 33.1 32.9 28.3 26.8	56.8 50.8 46.6 48.9 44.9 39.1 39.1 39.6 28.3 23.4 25.0	251-9 250-0 244-0 243-0 219-3 211-8 178-9 162-4 143-5 129-3 105-8 97-9	85.4 72.6 60.5 66.1 62.0 53.8 52.4 55.1 42.5 37.4 30.6 30.3
January. February. March. April. May. June. July. August September. October. November. December.	53 · 9 59 · 3 56 · 8 59 · 6 60 · 8 57 · 0 55 · 1 53 · 9 67 · 3 60 · 6	26·1 37·6 27·8 28·1 29·1 29·4 28·3 27·4 31·0 33·6	22·1 22·1 25·1 28·3 31·0 32·1 32·3 31·8 30·6 33·1 42·5 38·4	95-0 96-9 103-4 104-0 106-1 107-0 118-3 103-0 97-4 94-5 105-6 98-0	27 · 1 28 · 6 31 · 3 34 · 1 35 · 5 32 · 8 29 · 4 32 · 5 37 · 0 48 · 8 42 · 8
I932. February March April May Lune July October October November December	60·0 63·1 62·6 62·6 55·1 54·8 56·3 51·9 48·8 42·4	29 4 29 5 30 0 32 4 35 5 33 9 35 1 29 9 26 1 23 5 24 0 21 0	37-8 38-4 41-0 40-3 37-8 36-5 23-9 25-8 25-8 27-8	98-5 101-6 98-5 83-8 71-8 68-3 71-6 78-5 78-5 70-9	43 · 6 44 · 1 47 · 9 45 · 8 41 · 3 33 · 8 33 · 1 33 · 3 29 · 3 29 · 3 29 · 8
Averages, crop year ended July, 1926 " " " 1927 " " " 1928 " " " 1929 " " " 1930 " " " 1931	151-2 146-2 146-3 174-0 124-2 64-2 59-8	49.6 58.8 65.2 58.6 58.6 29.9 31.4	63-9 72-7 85-3 71-4 60-0 28-4 37-3	213-8 195-9 189-9 202-2 247-5 114-1 93-7	59-6 99-7 129-9 100-7 80-2 34-7 40-6

39.—Yearly Average Prices of Home-Grown Wheat, Barley and Oats in England and Wales, 1922-32.

Source: London Gazette, published pursuant to Sec. 8 of the Corn Returns Act, 1882, and the Corn Sales Act, 1921.

Note.—By the Corn Sales Act, 1921, the legal unit was changed from quarters of 8 bushels to long cwt., the change becoming compulsory on Jan. 1, 1923. The long cwt. is 112 lb.

	Wh	eat.	Bar	ley.	Qa	ts.		Wb	eat.	Bar	ley.	Oa	ts.
Year.	per qr.	per bush.	per qr.	per bush.	per qr.	per bush	Year.	per qr.	per bush	per qr.	per bush	per qr.	per bush
	s, d.	\$	s, d.	\$	8. d.	*		s. d.	\$	s. d.	\$	3. d.	\$
1902 1903 1904 1905 1906 1906 1908 1909 1910 1911 1911 1912 1913 1914 1915 1916 1916 1917	28 1 26 9 28 4 29 8 28 3 30 7 32 0 36 II 31 8 34 9 31 8 34 11 53 10 58 5 75 9 72 10	0-85 0-81 0-86 0-90 0-83 0-97 0-82 0-96 1-06 1-78 1-78 2-30 2-22	25 8 22 8 22 4 24 4 24 2 25 10 26 10 27 3 30 8 27 3 27 2 27 4 53 64 9 59 0	0.69 0.68 0.74 0.73 0.76 0.79 0.82 0.70 0.83 0.83 0.83 1.13 1.89	20 2 17 2 16 4 17 4 18 10 17 10 18 11 17 4 18 10 21 6 19 1 20 11 30 2 49 10 49 4	0.52 0.50 0.53 0.56 0.57 0.58 0.57 0.65 0.58 0.65 0.58 0.59 0.58	1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931	72 11 80 10 71 6 47 11 per long cwt. 9 10 11 6 12 2 11 6 10 2 9 11 8 0 5 91	2·46 2·17 1·46 per bush	75 9 89 5 52 2 40 3 per long cwt. 9 5 13 1 11 9 10 4 11 10 11 1: 10 0 8 0 7 8	1.52 1.18 per bush 0.98 1.36 1.23 1.08 1.23 1.15 1.05	52 5 56 10 34 2 29 1 per long cwt. 9 9 9 9 0 9 8 10 6 4 3 7 1	0.71 0.72 0.72 0.72 0.72 0.66 0.68 0.69

40 .- Monthly Average Prices of Flour, Bran and Shorts at Principal Markets, 1932.

Sources: For Montreal, the Gazette; for Toronto, dealers' quotations; for Winnipeg and U.S. cities, the Northwis'ern Miller, Minneapolis.

Note.—The ton=2,000 lb. and the barrel=196 lb.

		Mont	real.			Toro	onto.	
Month.	Flour First Patents.	Flour, Ontario, Delivered at Montreal.	Bran.	Shorts.	First Patents Flour (Jute bags).	First Patents Flour (Cotton bags).	Bran.	Shorts
	per brl.	per brl.	per ton.	per ton.	per brl.	per bri.	per ton.	perton.
January February March April May June July August September October November December	5.071 5.051 5.071 5.041 5.091 4.841 4.741 4.661 4.681 4.681 4.681	3-36 3-27 3-20 2-94 2-85 2-75 2-55 2-68 2-75 2-72 2-63	19 · 99 19 · 75 22 · 00 24 · 44 21 · 40 17 · 83 17 · 96 49 · 03 18 · 45 17 · 25 17 · 25 16 · 87	20-99 20-75 23-00 25-44 22-40 18-83 19-38 21-03 20-45 19-25 18-45 17-87	5.071 5.051 5.071 5.041 5.091 4.841 4.741 4.681 4.681 4.481 4.401	5·25 5·15 5·25 5·25 5·25 4·95 4·85 5·05 4·66 4·50	19-50 19-50 21-50 24-00 21-50 18-00 17-75 18-60 16-80 15-25	20 · 50 20 · 50 22 · 50 25 · 60 22 · 50 19 · 00 19 · 25 20 · 60 18 · 70 16 · 25 17 · 50

¹ Carload lots-Montreal rate points, which included the Toronto district also.

40.—Monthly Average Prices of Flour, Bran and Shorts at Principal Markets, 1932—concluded.

Sources: For Montreal, the Gazette; for Toronto, dealers' quotations; for Winnipeg and U.S. cities, the Northwestern Miller, Minneapolis.

Nors.—The ton=2,000 lb. and the barrel=196 lb.

37 43		Winnipeg.		ł	Minneapolis.		Duluth.
Month.	Flour.	Bran.	Shorts.	Flour.	Вган.	Shorte.	Flour.
	per brl.	per ton.	per ton.	per brl.	per ton.	per ton.	per bri.
Јавиагу	4-39	14.00	14-60	4-64-5-16	12-10-12-60	11-5012-10	4-61-4-76
February	4.30	14-00	15-00	4-65-5-18	11 - 13 — 11 - 38	10-5011-13	4-55-4-70
March	4.34	15-25	16-25	4-34-4-91	13 - 13 - 13 - 63	12-25—13-00	4-31-4-52
April	4.32	18-50	19-50	4-61-5-06	13-0013-75	12-8813-50	4 - 13 - 4 - 37
Мау	4.35	18-00	19-00	4-55-4-94	10-75—11-00	10-7511-00	4-08-4-38
June,	4.25	16-40	17-20	4-37-4-68	9-00 9-60	8-90 9-60	4-48-4-63
July	4.15	15-00	16-00	4-15-4-53	8-13 8-38	8-50 9-06	4-15-4-31
August	4.09	15-00	16.00	4-38-4-61	8-40— 8-75	9-00 9-35	4-14-4-31
September	3.67	15-00	16-00	4-35-4-59	8-00- 8-38	8-13- 8-63	4-13-4-28
October	3.52	13-00	14.00	4-10-4-34	7-60 7-90	7-60 8-00	3-84-3-99
November	3-40	13-00	14.00	3-89-4-18	7-81 8-06	7-88— 8-06	3-86-4-01
December	3.30	13-00	14-00	3-98-4-12	7-66 7-92	7-25 7-62	3·75—3·90

41.—Yearly Average Prices per Cwt. of Canadian Live Stock at Principal Markets, 1831.

SOURCE: Markets Intelligence Division, Live Stock Branch, Dominion Department of Agriculture.

Classification,	Toronto.	Montreal.	Winnipeg.	Edmonton
	\$	*	\$	\$
teers, up to 1,050 lb., good and choice	5-93	5.93	5.40	4.97
teers, up to 1,050 lb., medium	8-61	5.27	4.38	4.15
teers, up to 1,050 lb., common	4.61	3.98	3.20	3.35
teers, over 1,050 lb., good and choice	6.22	6.07	Š-4Š	4.87
teers, over 1,050 lb., medium	5.70	5.24	4.41	4.08
teers, over 1,060 lb., common		4.26	3.32	3.20
leifers, good and choice	5.92	5.24	4.93	4.83
leifers, medium		4.40	3.95	3.98
alves, fed, good and choice	7.79	7.32	5.86	5.64
		6.65	4.71	4-91
alves, fed, medium	6.90			
alves, veal, good and choice	8.24	7.05	6-67	6-74
alves, veal, common and medium	5.94	5 19	3.87	4.51
ows, good	4.10	4.03	3.42	3-34
ows, medium	3.53	3.36	2-62	2.74
Bulle, good	3.84	4 · 14	2.49	2-12
tocker and feeder steers, good	4.70		3.63	3 - 63
tocker and feeder steers, common	3.83		2-42	3.03
tock cows and heifers, good	_		2.92	3.58
tock cows and heifers, common	4.75	l -	2.07	2.67
loga, selects	7.94	7-64	6-53	6-25
logs, bacon	7.39	7.18	l š.ňš	5.57
logs, butchers	7.09	7.12	5.91	5.17
logs, heavies	6-15	7.00	6.07	5.03
logs, treatment from the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of the first treatment of t				
logs, lights and feeders	6.57	7·10 7·02	5.32	4.81
ambs, good handy weights	8.03		6.49	5-67
ambs, common, all weights	6-15	5-41	4.40	4.00
heep, good handy weights	3-77	3.33	3.19	3.98

42.—Monthly Average Prices per Cwt. of Canadian Live Stock at Principal Markets, 1932.

<u> </u>												
Classification.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Montreal-	-	<u> </u>		•	\$	-				\$	•	\$
Steers, up to 1,050 lb., good and choice	6.08	6.00	5.95	5.72	5.75	6-12	6.05	5 - 57	5 01	4.41	4.27	4.00
Heilers, good and choice	5.04	4 88	4.81	4.57	5.19	4.76	4.63	4 · 24	3-64	3.19		3.28
Calves, yeal, good and	8.50	8.43	6.26	4.04	4.00	4.40			6.26	6.65	6.39	6.44
choice	5.11	5.02	5.10	4 - 77	4.77 4.75	4 · 78 4 · 78	5.20	5.38	5 · 64 5 · 62	4·84 4·85	4.08	4·02 4·03
Hogs, butchers. Lambs, good handy	5.11	5.01	5.10							l		
weightsSheep, good handy	6-69	6-65	6.49]	4.75
weights	8.04	3.48	4.02	3.71	8.62	3.13	1.82	2-16	2.24	2.20	2.10	2.05
Toronto-												
Steers, up to 1,050 lb., good and choice	5.71	5.24	5-13	5 · 18	5.83	5.85	5.87	5-41	5.27	4.41	4.25	4-10
Heifers, good and choice	5-67	5 · 19	5.08	5.08	5.28	5.76	5.87	5.83	5-25	4:38	4-19	4 - 12
Calves, veal, good and choice	7.81	8-13	7.39	5.98	5.29	5 -13	5-46		6-90			6.03
Hogs, bacon Hogs, butchers	5·14	4·94 4·39	4 90 4 35		4.51 3.9€	4 · 58 4 · 03	5.03 4.48	5.21 4.66	5·11 4·56	4 · 50 3 · 95	3.92 3.37	3·97 3·42
Lambs, good handy weights	7.07	7.19	7.30	7.58	10-53	8-07	7.39	5.97	5-46	4.77	4.72	5.18
Sheep, good handy weights	3∙17	3 - 73	8.90	3.26	2.90	2-20	2.29	2-47	2.08	42 -14	2.17	1.93
									Į			
Winnipeg— Steers, up to 1,050 lb.,	'											
good and choice	5 ⋅ 28	4.91	5.08	5.02	5.12	5.26	4.98	4.77	4-27	3.76	3.66	3-47
Heifers, good and choice	4.95	4 · 63	4.93	4-69	4.80	4.84	4.50	4-11	3.77	3.47	3 - 64	3.37
Calves, veal, good and choice	6.86	6-69	5.76			4·24 3·87	8 · 90 4 · 38	4 · 46 4 · 69	4 · 71 4 · 87	4 - 58 3 - 78	5·13 3·16	5.60 3.08
Hogs, bacon Hogs, butchers	4 · 05 3 · 55	4·05 3·56	4·12 3·62	3.83 3.34	3 · 67 3 · 17	3.3€		4.17	4.40		2.66	2.53
Lambs, good handy weights	5.83	5-97	6.25	6-41	7.88	6-48	5.98	5 · 03	4 - 53	3.64	4.08	3.74
Sheep, good handy weights	2.95	2.83	3.00	3-00	3-14	2-64	1.96	1.88	2.00	1-81	1.58	1.50
						ļ						
Calgary— Steers, up to 1,050 lb.,												2.96
Heijers, good and	4.58	4.37	4.61	4.81	5.00	4.94		1		3.06	l	
choice	4 · 64	4.35	4.46	4.50				1	ŀ	3-16	' '	2-96
Hogs, bacon	5.42 3.90	5·25 3·84	5·46 3·79	5.39 3.50	5·22 3·37	4 · 73 3 · 46	3.80	4 · 03 4 · 08	3 · 85 4 · 47	3 · 73 3 · 62	8.41 3.01	3 · 40 2 · 85
Hogs, butchers Lambs, good handy	3.09	3.84	3.29	3.00	2.86	2.96	3.29	3.57	3.96	3-17	l	2.85
weights	4.65	4.75	4.98	4.89	6.24	6.32	4.34	4.23	4 · 15	4.09	3.75	3.75
weights	3.20	3.24	3.40	3⋅00	8.24	4.26	2.49	2.37	2.57	2.75	2.38	2.25
Edecoston												
Edmonton— Steers, up to 1,050 lb.,	4.82	4.63	4.68	4.71	4.82	5.02	4.75	3.60	3.84	3.39	3.25	3.50
good and choice Heifers, good and		4.50	4.59	4.57	4.67	4.56		l	3.72	3.03	3.16	3.04
choice. Calves, veal, good and	4.60		6.11						ļ	3.78		3-65
Hogs, bacon	6.00 3.82	6.37 3.75	3.67	3.40	3 - 25	3.80	3.67	3.92	4·25 3·75	3.37 2.86	2.70	2·71 2·21
Hogs, butchers Lambs, good handy	3.82	3.24	3.18	•		ł						3.58
weights Sheep, good handy	4.98	5.27	5.23	5.41	8-20	ĺ		3.94	4.15		'	2.75
weights	- 1	8.75		-	4 · 25	3.86	2.75	2 · 75	2.71	2-50	2.18	4.19

Index Numbers of Agricultural Prices.—Records of the average prices received by farmers for agricultural produce have been collected annually since 1909 through the crop correspondents of the Census and Statistics Office and the Dominion Bureau of Statistics. From these records, annual index numbers have been calculated for each crop and for the field crops as a whole. In calculating the index numbers in the present instance, the base period used is 1926. Index numbers have been calculated of the yields of the various crops from year to year. From these data index numbers of the value of all field crops, weighted according to the quantity produced in each case, have been obtained. The results of these calculations are presented in Table 43.

43.—Index Numbers of Producers' Prices of Agricultural Commodities, 1912-32.

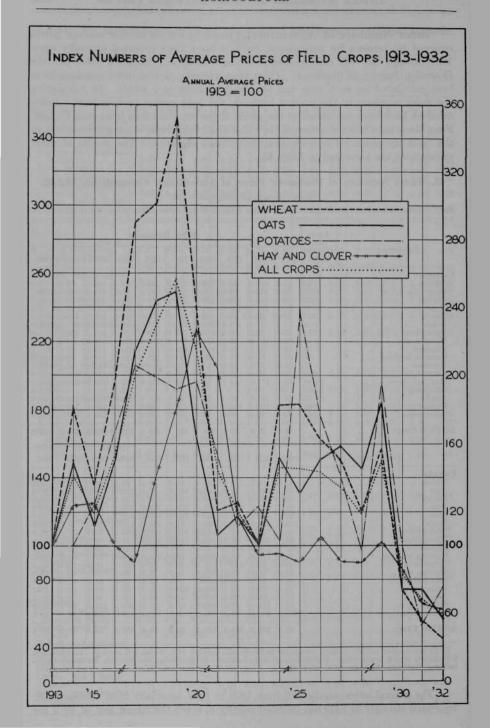
Note.—Average Prices, 1926 = 100.

For the formulæ used in the calculation see Monthly Bulletin of Agricultural Statistics, March, 1928, p. 94.

	Aver-				I	nder N	Jumber	18			
Field Crop.	Price 1926.1	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.
Canada—	\$										
Wheat	1.09	61.5	111-9	83-5	120 - 2	178-0	185 - 3	217-4	148-6	74.3	78-0
Oats	0.48	66.7	100∙0	75-0	106+3	143.8	162.5	166.7	110.4	70.8	79 - 2
Barley	0.52	80.8	115.3	100-0	158-8	207-7	192.3	236 5	159 6	90.4	88 - 5 75 - 3
Rye	0·77 1·75	85·7 63·4	107 8 83 4	100·0 94·8	142·9 126·9	210·4 202·3	193 · 5 170 · 9	181 · 1 163 · 4	172·7 138·3	93·5 112·0	105
PeasBeans	2.64	71.2	87.5	115.5	204.5	282-2	204-9	169.7	147.0		108-
Buckwheat	0-87	73 - 6	82.8	86.2	123.0	167.8	181-6	172 4	147 1	102 3	96-6
Mixed grains	0-66	83.3	100.0	86.4	133.3	175.8	172.7	206-1	136-4	93.8	90-1
Flarseed	1.62	59.9	63 6	93 - 2	125.9	163 - 6	193 - 2	254-9	119.8	88.9	106 - :
Corn for husking	1-00	64.0	71.0	71.0	107.0	184 - 0	175.0		116 0	83.0	83.0
Potatoes	1 - 47	55.8	55.8	68-0		115.0	110-9	107 - 5	110-2	87 1	61
Turnips, etc	0.60	93.3	90.0	80.0	130·0	153 - 3	141 - 7	163 - 3	138.3	111.7	90-0
Hay and clover	12.13	94.6	117.3	118-4	95-6	85⋅2	134.0			194.2	1111-
Grain hay	10.11	89-1	100 5	95·3	80-4	87·1	134-1	286 · 8 164 · 3	327 · 6 178 · 8	150-0	127 · 3
Alfalia Fodder corn	13-30 4-88	98.0	106·5 100·6	100-6	100.8	105.3	126 0	141.8	158.8	144-5	101
Sugar beets	6.45	94.9	92.9	85.3	96.1	104-7	158-9	168-4	198.4	100 8	122.2
Ougai Docto,						101		100 1		100 0	
All Field Crops	-	69-6	98-3	83 - 7	106-7	138-7	158-5	178-7	149-3	101-1	86-6
Field Crop.		1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
Canada—											
Wheat		61.5	111-9	112-8	100-0	91.7	73 - 4	96-3	44.9	84.9	27.5
Oats		68.8	102-1	87.5	100 · Ö	106.3	97.9	122.9	šô-č	50·0	37.8
Barley		80.8	134 - 6	101-9	100-0	126-9	107.7	113.5	35-5	50.0	38-1
Rye		63 - 6	128 - 6	100-0	100-0	106.5	102.6	109 · 1	26.0	36.4	22 1
Peas.,,		98.3	100.0	94 3	100 0	100 6	105 - 7	117.7	84.0	48.0	48-6
Beans		100 8	104 9	97.7	100.0	87.9	135 - 2	125.0	86.0	26-1	20 - 3
Buckwheat		96.6	102.3	97.7	100.0	102.3	106.9	108-0	74.7	57.5	48-3 50-0
Mixed grains,		89·4 109·3	107·6 119·8	98·5 114·2	100-0 100-0	109·0 95·7	107·8 98·1	115·2 146·9	63·6	56-1 48-8	32-1
Flasseed		92.0	119.0	94.0	100.0	99.0	112.0	106.0	87.0	42-0	45.0
Potatoes		69.4	57.8	140.1	100.0	79.6	54.4	108.2	56.5	29.2	42.2
Turnips, etc.		98.3	73 - 3	93.3	100.0	76.7	78.3	88.3	73.3	46.7	45-0
Hay and clover		90 4	9ĭ.3	85·3	100.0	85.8	85.5	96.0	81.0	62.8	58.5
Grain hay	,	34.3	91.5	91.5	100.0	100.0	99.7	95.0	66-6	60.6	60-1
Alfalfa		87 - 1	88 - 0,	95 - 6	100-0	90.5	86.5	94 - 1	91-1	78.0	64 - 8
Fodder corn		94 - 7	104-9	82-6	100.0	91.6	96-1	$106 \cdot 2$	101 0	81.4	56-4
Sugar beets		100.5	105-3	94.3	100.0	120.8	112 · 4	119.2	106.5	94.9	82.5
All Field Crops		72-4	102-3	102 - 1	100.0	96 ·5	84.6	104-9	56.3	46.5	40-4

¹Prices quoted are per bushel, except for potatoes and turnip¹, etc., which are per cwt., and the last five items, which are per ton. For details of index numbers by provinces, see Monthly Bulletin of Agricultural Statistics, January, 1933, pp. 13-29.

The general index number fell from 1924 to 1928, especially from 1926 to 1928, recovered strongly in 1929 but declined rapidly to reach the record low of $40\cdot4$ for



the period under review, in 1932. The commodities responsible for the decline from 1927 to 1928 were the cereals and potatoes. The root and forage crops held fairly steady and there were increases in peas, beans and buckwheat.

The severe decline of 1930 was accentrated in 1931 and marked by reductions in the prices obtained for all the agricultural commodities listed with the exceptions of oats, rye and barley. Reductions in the prices of wheat, flaxseed, corn and potatoes were again drastic; wheat, which has the greatest weight in the index, was mainly responsible for the decline of 55.4 points in the general index between 1924 and 1931, as well as for the temporary recovery in 1929. In 1932 prices of all crops continued to decline with the exceptions of potatoes, which showed a marked increase as compared with 1931, corn for husking and peas.

Subsection 10.-Agricultural Statistics of the Census

A selection of the more important agricultural statistics of the census of 1921 was published at pp. 269-271 of the 1929 edition of the Year Book. Further, certain agricultural statistics of the Prairie Provinces collected at their quinquennial census of 1926 were published at pp. 271-273 of the same volume. The complete agricultural statistics of the census of 1921 are published in Volume V of the publications of the census of that year, while the detailed agricultural statistics of the census of the Prairie Provinces of 1926 will be found in the reports of the census of that year, issued separately for the provinces of Manitoba, Saskatchewan and Alberta.

Such agricultural statistics of the census of 1931 as are available at the time of going to press will be found in Appendix II at the end of this volume.

Subsection 11.-Miscellaneous Agricultural Statistics.

Agricultural Irrigation. The surface waters in Alberta are vested in the Crown and are administered by the Water Resources Office under the Water Resources Act. All matters affecting the control of water supply generally, as well as the inspection and authorization of works for the use of water for domestic, municipal, industrial, irrigation and other purposes and the granting of licences for such purposes are dealt with thereunder. The Director of Water Resources at Edmonton is responsible for all field administration. The Irrigation Districts Act of Alberta (R.S.A., 1922, c. 114) and amending statutes provide for the formation of irrigation districts, and authorize the raising of loans under by-laws adopted by the voters of the district. Table 44 gives statistics of the larger irrigation projects in Alberta for the year 1931.

44.—Major Irrigation Pro	jects in Southern	Alberta, 1931.
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Project.	Source of Supply.	Irrigable Area.	Length of Canals.	Area Irrigated in 1931.
C.P.R. Western Section C.P.R. Eastern Section C.P.R. Lethbridge Section C.P.R. Lethbridge Section Canada Land and Irrigation Co., Ltd Taber Irrigation District Lethbridge Northern Irrigation District United Irrigation District New West Irrigation District Magrath Irrigation District Magrath Irrigation District Raymond Irrigation District	Bow river St. Mary river Bow river St. Mary river Oldman river Belly river Bow river Bow river Bow river	34,235 4,501	miles. 1,566 2,500 196 431 96 573 175 23 90	ncres. 47, 593 90, 724 68, 086 26, 015 19, 914 70, 408 12, 983 3, 156 3, 400 9, 000
Totals		1,020,229	5,665	351,282

Revised by L. C. Charlesworth, Director, Water Resources, Province of Alberta.

The Canadian Pacific Railway Co. has constructed, and is operating in Alberta, three large projects known as the Eastern, Western and Lethbridge sections, the last named being the oldest irrigation project in Alberta. The area irrigable by these projects is 707,980 acres. By agreement with the Canadian Pacific Railway Co., the Taber, Magrath and Raymond irrigation districts procure their water supply from the main canal of the Lethbridge section, a further 43,603 acres being served by the canals of these districts.

The total irrigable area served by the Canada Land and Irrigation Co.'s project is 130,000 acres, while the New West irrigation district, by agreement with the Canada Land and Irrigation Co., receives a water supply for a further irrigable area of 4,501 acres.

In addition to the irrigated tracts enumerated in the above table, there were, at Dec. 31, 1931 about 335 privately owned projects in Alberta, with a possible irrigable area of 56,019 acres.

Average Value of Farm Lands.—Statistics showing the average value of farm lands in Canada in 1910 and from 1915 to 1932, are given in Table 45. The values are as estimated by crop correspondents and show the rise in land values between 1915 and 1920, the general decline with moderate fluctuations since the latter date and the rapid fall since 1929 to a point below the 1910 level for the country as a whole.

45.—Average Values per Acre of Occupied Farm Lands: in Canada, as Estimated by Crop Correspondents, 1910, 1915-32.

									_										
Province.	1910	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1980	1931	1932
	\$	\$		\$	\$	\$	\$;	\$	\$	\$		\$	\$	8	\$	\$	\$	\$
Canada	33	35	36	38	41	46	48	44	40	37	37,	38	37	38	38	87	32	28	23
P.E.I	31	38	39	44	44	51	49	46	45	51	40	45	4€	41	44	43	42	34	31
N.S	25	28	34	34	3€	41	43	35	34	31	33	37	3€	37	34	36	30	29	28
N.B	19	22	29	29	35	32	35	28	32	82	27	34	31	30	31	35	28	26	24
Quebec	43	51	52	5 2	57	72	70	59	58	5 €	53	54	52	57	54	55	48	40	37
Ontario	48	52	53	55	57	6€	70	63	64	64	65	67	62	65	62	60	52	46	33
Manitoba	29	30	32	31	82	35	39	35	32	28	28	29	29	27	27	26	22	18	16
Sask	22	24	23	2€	29	32	32	29	28	24	242	24	25	26	27	25	22	19	16
Alberta	24	23	22	27	28	29	32	28	24	24	25	20	2{	26	28	28	24	20	17
B.C	74	125	119	149	149	174	175	122	120	100	96	88	80	89	90	90	76	74	65
	,	<u> </u>																	_

¹ Orehards and fruit lands, 1932, with 1931 in brackets: Nova Scotia \$35 (\$94); Ontario \$83 (\$110); British Columbia \$275 (\$300).

Subsection 12.—International Agricultural Statistics.

World Production of Cereals and Potatoes.—Table 46, constructed from data published by the International Institute of Agriculture, shows the areas and yields of wheat, oats, barley, rye, corn and potatoes for the years 1931 and 1932 in countries of the Northern Hemisphere, and for the years 1931-32 and 1932-33

³ Actual returns were not collected from crop correspondents in Saskatchewan for 1924, and the estimate of 1924 is interpolated.

in countries of the Southern Hemisphere. The annual average acreages and yields are also given for the five-year period, 1926-30 (1926-27 to 1930-31), and the areas and yields of 1932 (1932-33) are compared in percentages with those of the five-year period.

Wheat.—For 49 countries the production of wheat in 1932 was 3,677,411,000 bushels from 334,147,000 acres, as compared with 3,768,440,000 bushels from 340,693,000 acres in 1931 and 3,684,530,000 bushels from 319,148,000 acres, the five-year average, 1926-30 (1926-27 to 1930-31). Due to a decrease in wheat acreage between 1931 and 1932 the total production decreased 91,029,000 bushels or 2·4 p.c. As compared with the five-year average, the 1932 acreage was 4·7 p.c. greater and the production 0·1 p.c. less.

Oats.—The statistics of 38 countries show a total production in 1932 of 3,638,766,000 bushels from 137,264,000 acres, as compared with 3,269,816,000 bushels from 144,024,000 acres in 1931 and with 4,629,455,000 bushels from 146,508,000 acres, the five-year average. The 1932 area was $4\cdot7$ p.c. less and the production $11\cdot3$ p.c. greater than in 1931. As compared with the five-year average, the 1932 area was nearly $6\cdot3$ p.c. less and the production $21\cdot4$ p.c. less.

Barley.—In 45 countries, the total yield in 1932 was 1,478,091,000 bushels from 77,589,000 acres, as compared with 1,293,938,000 bushels from 79,728,000 acres in 1931 and 1,695,902,000 bushels from 79,995,000 acres, the five-year average. The area in 1932 was 2·9 p.c. less and the yield 14·2 p.c. greater than in 1931 and, compared with the five-year average, the acreage in 1932 was 3·0 p.c. less and the yield 12·8 p.c. less.

Rye.—The statistics available for 31 countries show that the production in 1932 was 1,069,235,000 bushels from 112,257,000 acres, as compared with 836,574,000 bushels from 115,428,000 acres in 1931 and 1,817,573,000 bushels from 113,457,000 acres, the five-year average. The area in 1932 was $2 \cdot 7$ p.c. less and the production 27 · 8 p.c. greater than in 1931. Compared with the five-year average, the 1932 acreage was $1 \cdot 1$ p.c. less and the production $41 \cdot 2$ p.c. less.

Corn.—In 23 countries, the production in 1932 was 3,802,216,000 bushels from 156,959,000 acres, as compared with 3,370,121,000 bushels from 156,060,000 acres in 1931 and 3,429,249,000 bushels from 146,943,000 acres, the five-year average. The area for 1932 was $0.6~\rm p.c.$ more and the production $12.8~\rm p.c.$ more than in 1931 and, compared with the five-year average, the 1932 area was $6.8~\rm p.c.$ more and the production $10.9~\rm p.c.$ greater.

Potatoes.—In 32 countries, the total yield in 1932 was 5,627,186,000 bushels from 44,586,000 acres, as compared with 5,425,816,000 bushels from 45,697,000 acres in 1931 and with 6,670,768,000 bushels from 43,149,000 acres, the five-year average. The 1932 acreage is $2 \cdot 4$ p.c. less and the production $3 \cdot 7$ p.c. greater than in 1931 while, as compared with the five-year average, the 1932 acreage was $3 \cdot 3$ p.c. more and the production $15 \cdot 6$ p.c. less.

46.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1931 and 1932, with Five-Year Average for 1926-30.

		Acre	ages.		<u> </u>	Yiel	is.	
Crop and Country.	1931.	1932.	Aver- age 1926-30,	1932 in p.c. of Aver- age.	1931.	1932.	Aver- age 1926-30.	1932 in p.c. of Aver- age.
Wheat— Northern Hemisphers.	000 acres.	000 acres.	000 acres.	p.c.	000 bush.	000 bush.	000 bush.	p.c.
EUROPE. Austria Belgium Bulgaria Czechoslovakia Denmark Estonia Finland France Germany	517 381 3,053 2,047 259 99 47 12,840 5,356	536 386 3,078 2,064 245 128 50 13,235 5,634	508 384 2,754 1,899 257 74 40 13,052 4,181	105-5 100-5 111-7 108-7 95-3 172-3 126-6 101-4 134-8	11,009 13,817 63,830 41,232 10,053 1,738 1,161 264,116 155,545	13,007 15,376 50,553 63,736 10,655 2,085 1,260 331,357 183,829	11,576 14,551 43,668 48,428 10,475 1,178 923 270,906 123,964	112-4 105-7 115-8 111-0 101-7 177-0 136-5 122-3 148-3
Germany Great Britain and Northern Ireland Greece Hungary Irish Free State Italy Latvia Lithuania Luxemburg Malta Netherlands Norway Poland Portugal Roumania Russia* Scotland Spain Sweden Switzerland Turkey Yugoelavia	1,200 1,496 4,011 11,884 215 4,215 23 29 192 1,271 8,566 92,074 11,245 179 8,773 5,289	1, 291 1, 496 3, 897 22, 237 255 22, 22 293 28 4, 266 6 7, 091 85, 940 11, 249 11, 249 182; 8, 555	1,465 1,300 3,953 30 12,063 151 401 30 27 27 3,477 1,082 7,625 74,445 175 6,135	88-1 115-1 98-6 71-0 101-3 108-7 128-1 123-7 103-1 122-7 93-0 115-4 91-9 104-8 137-2 103-8 137-2 103-8	35, 993 16, 961 72, 550 781 244, 782 3, 388 8, 340 407 6, 751 592 83, 220 12, 999 135, 299 134, 426 18, 048 5, 489 102, 426 98, 789	41, 374 11, 228 58, 593 276, 127 5, 292 9, 359 49, 472 18, 138 59, 660 2, 240 184, 206 26, 501 5, 647 69, 344	47, 483 11, 920 82, 075 1, 208 22, 679 7, 287 551 598 6, 100 692 64, 197 10, 437 110, 736 840, 238 2, 225 143, 901 17, 126 5, 619 75, 484 81, 322	87-7 142-3 71-4 68-8 123-8 197-6 128-4 90-0 101-0 224-5 113-4 77-1 173-8 53-9 100-7 128-8 154-7 100-5 91-9
America. Canada. Mexico. United States.	26,201 1,501 55,344	27, 182 1, 066 55, 177	23,926 1,278 59,445	113·6 83·4 92·8	326,325 16,226 900,219	428,5[4 8,921 726,831	435,744 11,207 858,926	98·3 79·6 84·6
ASIA. Cyprus. India. Japan. Korsa. Syria and Lebanon	183 82,189 1,228 817 1,167	172 33,749 1,247 1,087	181 31,485 2,185 882 1,118	94·9 107·2 105·2 - 97·2	347,387 30,892 8,340	1, 182 336, 971 31, 336 8, 305 9, 825	1,824 332,005 29,699 9,037 13,971	64-8 101-3 105-3 91-8 70-3
Africa. Algeria. Egypt. Eritres. French Morocco. Kenya. Tunis.	3,640 1,649 22 2,537 43: 1,977	3,703 1,762 15 2,450 41 2,100	3,738 1,583 23 2,699 67 1,774	99·1 111·3 65·8 90·8 60·5 118·4	25,649 46,072 29 29,783 290 13,962	32,518 52,586 145 21,965 317 14,697	29,592 40,766 73 27,588 674 11,508	109 · 9 129 · 0 198 · 6 79 · 6 47 · 0 127 · 7
SOUTHERN HEMISPHERE. Argentine. Australia. Chile. New Zealand. Union of South Africa. Uruguay.	16,029 14,500 1,517 550 1,736 1,080	17,789 15,585 1,570 294 	19,401 14,387 1,635 490 966 1,056	91-7 108-3 86-1 60-0 79-8	21,187 6,583 13,713	235, 376 200, 000 10, 000 9, 333	251,255 155,748 27,661 8,229 8,175 11,693	93 · 7 128 · 4 121 · 5 114 · 2
Totals	340,693	334,147	319,148	104 - 7	3,768,449	3,677,411	3,684,530	99.1

¹ The statistics of the Southern Hemisphere are given for the years 1931-32 and 1932-33; the averages are for the five-year period 1926-27 to 1930-31 and the percentage columns give 1932-33 figures as percentages of the averages.

² Russia not included in totals.

46.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1831 and 1932, with Five-Year Average for 1926-39-continued.

		Acre	ages,			Yiek	ls.	
Crop and Country.	1931.	1932.	A ver- age 1926–30.	1932 in p.c. of Aver- age.	1931.	1932.	Aver- age 1926-30.	1932 in p.c. of Aver- age,
Oats—	000 acres.	000 acres.	000 acres.	p.c.	000 bush.	000 bush.	000 bush.	p.c.
Northern Hemisphere.	ı -		·) :				
Europe.								
Austria. Belgium. Bulgaria. Czechoslovakia. Denmar k. Estonia. Finland. France. Germany Great Britain and Northern	777 729 293 2,031 937 367 1,149 8,564 8,310	784 712 281 2,020 983 356 1,119 8,418 8,118	759 682 335 2,073 999 356 1,100 8,584 8,634	103 · 4 104 · 4 83 · 9 97 · 4 98 · 4 100 · 0 101 · 8 98 · 1 94 · 0	7,060 84,368 64,448 11,296 45,886 316,288	31,312 52,385 7,777 114,628 72,339 8,966 45,539 353,388 458,160	30, 141 47, 013 7, 272 96, 276 66, 832 8, 772 40, 475 341, 352 450, 653	103.9 111.4 106.9 119.1 108.2 102.2 112.5 103.5 101.7
Great Britain and Northern Ireland. Greece. Hungary Irish Free State. Italy. Latyia. Lithuania. Lithuania. Norway. Poland. Portugal. Roumania. Russia* Spain. Sweden. Switzerland. Yugoslavia.	2,773 344 596 623 1,146 795 900 237 5,369 2,154 42,492 1,986 1,590 45	2,730 367 575 575 622 1,113 802 931 350 235 5,496 5,496 35,149 1,926 1,579 41	3,007 279 665 655 1,255 735 828 72 378 241 5,126 443 2,757 43,286 1,902 1,729 937	90-8 131-4 86-4 95-8 88-6 109-1 112-4 102-9 97-4 107-0 71-0 811-2 91-3 81-4 86-4	36, 457 89, 467 23, 611 28, 965 2, 721 19, 784 9, 494 159, 109 6, 831 46, 175 41, 670 2, 308	150, 993 6, 910 19, 510 43, 904 41, 805 22, 252 24, 940 3, 514 20, 916 13, 282 164, 714 7, 735 44, 276 57, 215 81, 845 2, 042 18, 548	168, 487 4, 985 24, 227 45, 713 40, 974 17, 644 22, 846 3, 076 22, 946 112, 889 163, 668 76, 107 1, 070, 551 41, 680 88, 835 2, 894 22, 759	95-0 138-6 80-5 96-0 102-1 109-2 114-2 91-2 103-1 100-6 128-2 58-2 137-3 101-2 81-0 81-5
Ambrica.								
Canada United States	12,871 39,800	13,148 41,224	12,971 40,202	101 · 4 102 · 5		416,034 1,242,437	421,014 1,189,317	98 · 8 104 · 5
Asia,								
Syria and Lebanon	27 13 405	28 11 294	42 14 336	83.8		934 126 8,729	897 266 7,380	104 · 1 47 · 5 118 · 3
Africa.			<u> </u>			İ		
Algeria. French Morocco. Tunis.	557 60 67	504 63 86	605 82 109	77.2	8,212 1,660 2,274	7,096 1,591 1,929	13,028 1,992 2,429	54·5 79·9 79·1
Southern Hemisphere.								
Argentina Chile New Zealand Uruguay	3,470 166 433 148	3,652 174 407 135	3,535 203 407 141	103 · 3 86 · 0 100 · 0 95 · 6	4,923 3,435	69,583 5,302	62,603 6,785 4,459 2,504	111-1 118-9
Totals	144,624	137,264	146,598	93 - 7	3,269,816	3,638,766	4,629,455	78 6

¹ The statistics of the Southern Hemisphere are given for the years 1931-32 and 1932-33; the averages are for the five-year period 1926-27 to 1930-31 and the percentage columns give 1932-33 figures as percentages of the averages.
² Russia not included in totals.

46.—Acreages and Yields of Cercals and Potatoes in Countries of the World, 1931 and 1932, with Five-Year Average for 1926-38—continued.

		Acre	ages.			Yield	s.	
Crop and Country.	1931.	1932.	Aver- age 1926-30.	1932 in p.c. of Aver- age.	1931.	1932.	Aver- age 1926-30.	1932 in p.e. of Aver- age.
Barley	000 acres.	000 acres.	000 acres.	p.c.	000 bush.	000 bush.	000 bush.	p.e.
Northern Hemisphere. Europe,	i 							
Austria Belgium Bulgaria Czechoslovakia Denmark Estonia	416 70 605 1,775 889 279 276	428 89 568 1,759 851 266 300	387 78 591 1,753 863 283 276	110 · 6 113 · 4 96 · 3 100 · 3 98 · 6 93 · 9 108 · 8	9,948 3,552 15,861 49,357 43,974 5,918 6,430	13,862 4,701 14,102' 69,121 45,471 4,654 8,015	11,523 3,879 13,765 59,057 43,882 5,233 6,708	120-3 121-2 102-5 117-0 103-6 88-6 119-5
France Germany Great Britain and Northern	1,865	1,859 3,875	1,721	108 · 0 103 · 8	47.732 138,627	53,680 147,653	49,801 134,011	107-8 110-2
reland. Greece Hungary Irish Free State Italy Latvia Lithuania Luxemburg Maltz Netherlands Norway Poland Portugal Roumania Russia ² Scotland Spain Sweden Switzerland Yugoslavia America. Canada	1, 030 1, 165 116 538 451 474 11 77 71 133 3, 144 1,702 16,854 88 4,644 311 1,065	964 574 1,165 103 530 4577 495 10 6 50 1377 2,982 4,416 16,329 4,837 293 17 1,006	436 499 7 71 142 2,905 175 4,494 18,169 112 4,481 333 16 986	98-2 89-9 61-6 107-9 87-9 102-0	2, 025 64, 964 3, 453 90, 727 10, 716 18, 000	35,846 9,862 32,498 4,974 11,537 8,849 10,173 276 24,710 55,578 64,341 2,398 132,569 10,904 17,982 80,773	42,376 6,945 27,765 6,122 10,933 7,213 9,992 240 4,084 4,877 65,598 1,845 87,906 271,024 4,685 94,304 11,237 17,464	142-0 117-0 81-3 105-3 102-7 101-8 114-4 98-1 130-0 76-8 140-6 97-6 108-9 108-9
United States	11,419	13,213			198,389	299,950		
Asia. Japan	2,097 2,410 818 93 3,769	· 2,107 766 94 3,401	2,252 746 118	102·7 79·8	41,862 14,193 1,387	77, 744 44, 086 9, 163 976 53, 499	80,980 36,702 17,291 2,314 54,290	120 53 42
Africa. Algeria. Egypt Eritrea French Morocco. Tunis.	3,178 306 62 3,222 1,223	366 99 2,930	364 54 2,998	100 · 4 183 · 5 97 · 8	9,694 928 59,032	29,855 12,067 1,286 37,254 15,616	35,181 11,206 299 45,695 8,465	429· 81·
Southern Henisphere.1		ļ						
Argentina	1,439 106 45 10	111	167	66.7 40.4 117.0	3,097 560 148	32,151 490	4,980 933 138	52
Totals	79,728	77,589	79,995	97-0	1,293,938	1,478,091	1,695,902	87

¹The statistics of the Southern Hemisphere are given for the years 1931-32 and 1932-33; the averages are for the five-year period 1926-27 to 1930-31 and the percentage columns give 1932-33 figures as percentages of the average.

²Russia not included in totals.

46.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1931 and 1932, with Five-Year Average for 1926-39-continued.

		Acre	eages.	[Yield3.					
Crop and Country.	1931.	1932.	A ver- age 1926-30.	1932 in p.c. of Aver- age.	1931.	1932.	A ver- age 1926-30.	1932 in p.c. of Aver- age.		
Rye	000 acres.	000 acres.	000 acres.	p.c.	000 bush.	000 bush.	00# bush.	p.c.		
Northern Hemisphere. Europe.		<u> </u>								
Austria Belgium Belgium Bulgaria Czechoslovakia Denmark Estonia Finland France Germany Graece Hungary Italy Latvia Lithuania Luxemburg Netherlands Norway Poland Portugal Roumania Russia (Goviet Union) ² Spain Sweden Switzerland Turkey Yugoslavia America	553 600 2,470 332 356 554 1,760	562 544	942 569 521 2,584 415 351 1,616 131 1,631 1,631 1,631 1,64 11,64 14,978 407 779 65,482 1,658 696 497 611 542	98 8 104 4 99 4 71 3	18, 931 20, 483 10, 683 54, 631 8, 406 5, 820 11, 792 29, 519 262, 982 11, 890 21, 673 378 224, 504 13, 962 11, 402 13, 961 7, 614	23, 853, 23, 662, 10, 13, 641, 13, 641, 13, 641, 13, 641, 10, 512, 25, 905, 17, 800, 8, 328, 328, 328, 328, 328, 328, 328,	21,182 8,422 65,651 10,593 6,277 11,898	111.7 120.3 130.5 81.8 113.3 114.7		
CanadaUnited States	778 3,060	774 3,271	955 3,312	81·0 98·8	5,322 32,026	8,938 39,655	15,509 40,542	57·6 98·3		
Aprica.	:						:			
Algeria French Morocco	3	4 2	4 2	109 · 6 105 · 3	37 14	35 -	49 19	71.8		
SOUTHERN HEMISPHERE. ¹ Argentina	1,378 7	1,624 7	1,065 8	152-4 92-1	9,744 82	12,992 -	6,311 127	205.9		
Totals	115,428	112,257	113,457	98-9	836,574	1,069,235	1,817,573	69·8		
Copn Northern Hemisphere. Europe.					·					
Austria. Bulgaria. Czechoslovakia. France. Greece. Hungary. Italy. Poland. Portugal. Roumania. Russia (Soviet Union)*. Spain. Switzerland. Yugoslavia.	152 1,682 344 855 618 2,720 3,450 243 939 11,749 9,741 1,053 6,168	148 1,829 331 813 587 2,877 3,581 240 - 11,775 9,084 1,102 2 6,442	145 1,693 347 843 513 2,652 3,740 222 861 10,851 8,483 1,044 3 5,734	102 · 4 108 · 0 95 · 6 96 · 5 114 · 5 108 · 5 95 · 7 108 · 5 107 · 1 105 · 9 112 · 4	4,990 34,989 8,965 24,623 6,248 59,749 76,620 4,099 17,543 238,704 - 26,389 114 126,113	4,803 41,511 12,178 17,924 3,900 95,894 128,705 213,771 27,286 177,940	4,479 27,212 9,415 17,312 6,423 64,102 97,529 3,516 14,673 181,374 124,325 23,598 117,711	107-2 152-5 129-3 103-5 61-3 149-6 121-7 108-9 117-9 115-6 77-1 151-2		

¹The statistics of the Southern Hemisphere are given for the years 1931-32 and 1932-33; the averages are for the five-year period 1926-27 to 1930-31 and the percentage columns give 1932-33 figure; as percentages of the average.

*Not included in totals.

46.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1931 and 1932, with Five-Year Average for 1926-39—concluded.

		Acre	ages.			Yield	is.	
Crop and Country.	1931.	1932.	A ver- age 1926-30.	1932 in p.c. of Aver- age.	1931.	1932.	Aver- age 1926-30.	1932 in p.c. of Aver- age.
Corn—concluded.	000 acres.	000 acres.	000 acres.	p.e.	000 bush.	000 bush.	000 bush.	p.c.
Canada	132 8,346 105,306	130 7,945 107,729	159 7,692 99,456	81·9 103·3 108·3	84,196	5,057 76,458 2,908,045	5,665 73,196 2,573,710	89·3 104·5 113·0
Asia. Syria and Lebanon	65	44	120	37∙0	1,303	719	2,415	29.8
Africa. Algeria. Tunis. Eritres. Kenys. Italian Somaliland.	24 45 22 161 53	16 44 7 166 24	24 41 16 199 39	68-6 108-2 47-6 83-7 61-0	197 429 2,724 931	181 217 118 4,989 380	257 194 174 5,008 745	70-4 111-3 67-9 99-6 51-0
Egypt Southern Hemisphere. Argentina ²	2,194 23,899	2,043 24,958	2,066 21,893	98·\$ 114·0	11,111	76,060	76,079 314,634	100.0
Chile	156,061	156,959	146, 943	106.8	3,370,121		3,429,249	110-9
Polatoes-					-,,			
Northern Hemisphere. Europe.								
Austria. Belgium Bulgaria. Czechoslovakia. Denmark Estonia. Finland. France Germany. Great Britain and North-	479 425 31 1,775 157 268 174 3,533 6,979	511 435 37 1,807 172 166 192 3,480 7,114	459 410 28 1,793 169 166 173 3,589 6,943	106-8 134-3 100-8 101-8 99-9 111-1	131,425 2,231 357,375 32,236 31,398 26,661 598,904	83,723 163,103 3,556 340,841 49,236 28,762 36,945 583,041 1,727,529	87,542 123,567 1,576 324,594 33,793 27,813 29,030 514,588 1,440,527	95.7 132.0 225.7 105.0 145.7 103.4 127.3 113.3
ern Ireland Greece Hungary Irish Free State Italy Latvia Lithuania	701 346 1,019 247 409	7	658 363 870 207 347 40	118.5 110.9 96.0 117.5 122.0 223.0 99.0	2,306 53,185 72,132 72,184 42,880 72,089 7,882	2,849 61,927 112,576 103,750 44,280 67,134 8,524	68,781 89,341 71,389 31,075 56,072 6,086	188.3 90.0 126.0 145.4 142.5 119.7 140.1
Malta. Netherlands. Norway. Poland. Roumania. Russia (Soviet Union) ² Spain.	6 726	123 6,709 471	120 6,250 484	101.5 103.0 107.3 97.3	100,535 28,451 1,138,609	135,215 38,029 1,101,357	1,017,513 72,437 1,650,221	125·7 108·2
Spain Sweden Switzerland America.	327	1,042 338	832 354	125 - 2 95 - 3	55,033	78,397 24,688	142,623 60,846 24,952	132 · 2 128 · 8 98 · 9
Canada	584 3,375	522 8,368	562 3,097		87,175 375,310	65,693 356,589	77, 252 356, 671	100-0
Cyprus Syria and Lebanon Java and Madura Turkey.	20	18 57	16 50	115-6 114-6	1,619 2,936	1,224 4,042	1,818 3,421	67 5 118 2
AFRICA.	53	52	55	94 - 5	2,787	3,306	2,987	110-
Totals	45,697	44,586	43,141	103-3	5,425,816	5, 627, 186	6,670,765	84-

¹The statistics of the Southern Hemisphere are for the years 1931-32 and 1932-33; the averages are for the five-year period 1928-27 to 1930-31 and the percentage columns give 1932-33 figures as percentages of the average.

²Not included in totals.

World Exports and Imports of Wheat and Flour.—Statistics showing the exports and imports of wheat and wheat flour for the principal countries of the world in the crop year ended July 31, 1932, with comparative figures for the previous crop year, are shown in Table 47. This information is taken from data published by the International Institute of Agriculture. During the crop year 1931-32, a total of 705,799,000 bushels of wheat is shown as exported, as compared with 705,140,000 bushels in the previous year.

The four chief exporting countries made the following contributions during the crop year 1931-32, the figures for the previous year being shown within brackets, in bushels: Canada 182,803,000 (228,536,000); Argentina 136,725,000 (119,540,000); Australia 122,987,000 (127,506,000); United States 88,007,000 (77,175,000). Exports of flour amounted to 31,658,000 barrels and 37,154,000 barrels during the crop years 1931-32 and 1930-31. Shipments from the United States totalled 7,699,000 barrels in 1931-32 as compared with 11,786,000 barrels in 1930-31; from Australia 7,140,000 and 5,308,000 barrels and from Canada 5,383,000 and 6,702,000 barrels respectively. Canada was the largest exporter of wheat and of wheat and wheat flour combined, occupying third place as exporter of wheat flour in 1932.

The total imports of wheat by the leading importing countries for the crop year ended July 31, 1932, amounted to 637,971,000 bushels, as compared with 634,128,000 bushels for the previous year. Great Britain and Northern Ireland imported 229,435,000 bushels as compared with 207,580,000 bushels in 1930-31; France 88,566,000 bushels as against 77,660,000 bushels; Belgium 52,462,000 bushels as against 51,973,000 bushels; Italy 37,599,000 as against 83,524,000 bushels; Germany 35,009,000 as against 31,342,000 bushels. Great Britain and Northern Ireland imported 5,726,000 barrels of wheat flour as compared with 6,539,000 barrels in the previous year; Irish Free State was next with 2,034,000 barrels as compared with 1,883,000 barrels and Egypt 1,232,000 barrels as compared with 1,666,000 barrels

47.—Exports of Wheat and Flour from the Principal Wheat-Exporting Countries and Imports of Wheat and Flour to the Principal Wheat-Importing Countries, crop years ended July 31, 1931 and 1932.

Wheat.	Twelve Aug. 1-		Flour.	Twelve months, Aug. 1-July 31.		
	f 93 0-31.	1931-32.		1930-31.	1931-32.	
Exports	000 bush.	000 bush.	Exports—	000 brl.	000 brl.	
United States Canada Argentina Australia India Hungary Roumania Yugoslavia Other countries	77, 175 228, 536 119, 540 127, 506 3, 731 8, 745 15, 090 5, 412 119, 405	88,007 182,803 136,725 122,987 305 13,187 35,336 14,660 111,789	United States Canada Argentina Australia India Hungary Roumania Japan Other countries	11,786 6,702 1,048 5,308 526 2,046 215 1,606 7,918	7,69 5,38 77 7,14 42 1,08 43 1,34 7,36	
Totals	705,140	705,799	Totals	37,154	31,65	

47.—Exports of Wheat and Flour from the Principal Wheat-Exporting Countries and Imports of Wheat and Flour to the Principal Wheat-Importing Countries, crop years ended July 31, 1931 and 1932—concluded.

Wheat.	Twelve Aug. 1-		Flour.	Twelve months, Aug. 1-July 31.		
mucat.	1930-31.	1931-32.	Flour.	1930-31. 4	1931-32.	
Imports -	000 bush.	000 bush.	Imports—	000 brl.	000 brl.	
Germany	31,342	35,009	Germany	121	117	
Belgium	51,973	52,462	Austria	1,581	65	
France	77,660	88,566	Denmark	802	650	
Great Britain and Nor-			Finland	1,097	81	
thern Ireland	207,580	229,435	Great Britain and Nor-			
Irish Free State	10,725	10,615	thern Ireland	6,539	5,72	
Italy	83,524	37.599	Irish Free State	1,883	2,06	
Netherlands	27,612	28,028	Norway	712	69	
Sweden	4,758	6.757	Netherlands	1,962	36	
Switzerland	18,493	21,138	Czechosłovakia	1,241	60	
Czechoslovakia	11,798	21,998	Egypt	1.666	1,23	
Japan	20,708	22,751	Other countries	2,173	1,80	
Other countries	87,955	83,613				
Totals	634,128	637,971	Totals	19,777	14,78	

World's Live Stock.—The Statistics of Table 48, compiled from data published by the International Institute of Agriculture, show as nearly as possible, the world situation with regard to live stock about 1931. For many countries, the figures are the result of careful enumeration, while for others, they represent only quite approximate estimates.

48.—Numbers of Live Stock in Principal Countries, circa 1931.

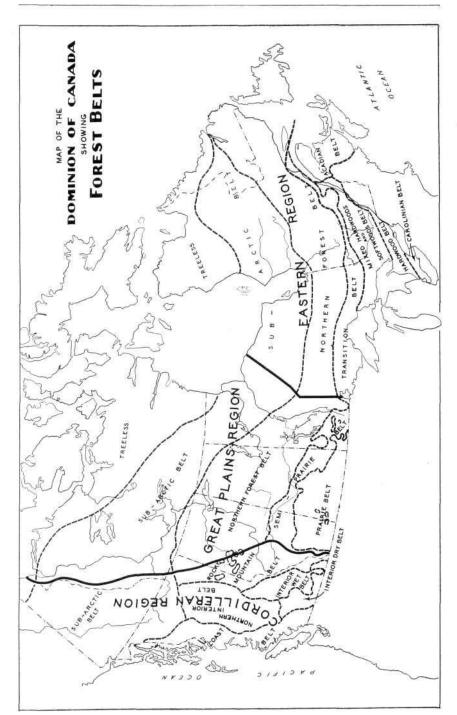
Continent and Country.	Horses.	Cattle.	Sheep.	Swine.
		 ,		
Europe-	0.45 808	0.040.740	252 000	T 00F 047
Austria	247,727	2,312,549	272,228	1,965.367
Belgium	241,989	1,767,536	185,37311	1,235,214
Bulgaria	482,180	1,817,437	8,739,803	1,002,089
Czechoslovakia	747,650	4,450,9852	531,125	2,575.921
Denmark	499,0452	3,208,275	190,984	5,453,480
Finland	356,650	1,810,030	923,999	394,554
France	2,919,700	15,433,840	9,844,690	6,397,970
Germany	3,450,995	19,123,658	3,499,341	23,807,945
Great Britain and Northern Ireland	1,193,879	7,954,539	26,373,856	3,180,883
Greece	325,294	867,612	7,071,725	422,521
Hungary	864,571	1,807,429	1,440,409	2,714,635
Irish Free State	449,697	4,029,084	3,575,376	1,227,003
Italy	967,406	6,892,722	9,896,038	3, 157, 434
Latvia	366,300	1,116,900	923, 100	712, 100
Lithuania	597,050	1,297,376	1,212,4543	1,568,543
Netherlands	299, 152 1	2,366,066	484,987	2,017,781
Norway ²	176,823	1,309,656	1,692,406	317,343
Poland	4,123,5454	9,786,389	2,598,621	7,320.898
Portugal	83,883	852,269	3,720,549	1,157,097
Roomania	1,988,126	4,079,467	12,356,015	3,221,472
Spain	562,877	3,653,667	20,046,582	5, 102, 165
Sweden	656,200	3,109,200	634,800	1,724,408
Switzerland	140,023	1,609,073	183,838	924,271
Union of Soviet Socialist Republics in				
Europe and Asia	30,236,800	49,900,000	79,500,0002	15,900,000
Yugoslavia ¹	1,168,768	3,871,556	8,425,634	3,133,164
		l		
Northern and Central America—		5 404 60A	0.000.000	4 510 500
Canada	3,128,996	7,991,000	3,608,000	4,716,720
Cuba	757,774	4,864,775	101,737	590,812
Dominican Republic	138,600	700,720	161,913	1,019,836
Mexico*	1,035,782	5,584,892	2,697,668	2,902,949
United States1	12,679,000	62,407,000	53,912,000	59,511, 00 0

For lootnotes see end of Table, p. 277.

48.—Numbers of Live Stock in Principal Countries, circa 1931—concluded.

Continent and Country.	Horses.	Cattle.	Sheep.	Swine.
South America—				
Argentina	9,858,111	32,211,855	44,413,221	3,768,738
Brazil	5,253,699	34,271,324	7,933,437	16, 168, 549
Chile	441,027 929,100	2,387,940 7,343,300	6,263,482	331,156
ColombiaPeru	432,108	1.805.853	809,550 11,209,235	1,434,300 688,696
Uruguay	613,299	7,127,912	20,558,124	307.924
Venesuela	167,708	2,278,000	113,439	512,086
Asia			i	
British India	2,218,803	159,763,471	44,628,474	_
Formosa	325	93,322	341	1,750,464
Indo-China	98,384	1,764,237	7,267	2,361,114
Įraq	- 400 -		5,463,674	
Japan Java and Madura	1,489.979	1,498,260	23,702	742,311
Korea.	250, 187 55, 544	3,755,672 1,611,585	1,291,677	98,211 1,386,891
Philippines	341.1697	1,145,921	1,561 124,844	2,454,286
Siam.	303,451	4.773.551	124,014	864.247
Syria and Lebanon	52,602	418.361	2,969,478	4,707
Turkey in Europe and Asia	480,833	4,868,609	11,762,343	1,101
Africa—	!			
Algeria	166,827	872,238	4,670,735	83,207
Egypt	35,714	792,123	1,239,111	18,404
French Morocco	206,527	1,968,525	6,612,615	91,132
French Soudan	46,000	1,400,000	3,100,000	28,500
Kenya	2,403	5,192,824	3,227,772	15, 23010
Madagascar Nigeria	2,157 190,443	7,048,373 2,910,752	262,630 (2,250,160	531,606
Southern Rhodesia	2,759	2,582,460	375.502	27,424 67,880
Territory of S.W. Africa	20,399	465.274	1,397,193	9,381
Tanganyika	20,999	5,099,438	2,283,287	3,300
Tunis.	99.273	539,638	2,474,855	25, 156
Union of South Africa	836,008	10, 573, 869	48,358,349	940, 904
Oceania—	I			
Australia	1,792,734	11,719,084	110,568,279	1,071,679
New Zealand	295,743	4,080,525	29,792,516	476, 194

On farms only. In rural districts only Sheep and goats. Exclusive of animals belonging to the Army. Incomplete data. Foreign and cross-bred cattle and zebus. Horses and mules. Exclusive of animals belonging to the British Army. Number registered for fiscal purposes. Swine belonging to Europeans only.



CHAPTER IX.—FORESTRY.1

Section 1.—Physiography, Geology and Climate as Affecting the Forests.

The Dominion of Canada may be roughly divided into three main drainage areas—the Pacific slope west of the Rocky mountains; the Great Plains region draining into the Arctic ocean and Hudson bay; and the basin of the Great Lakes and the St. Lawrence, together with the Maritime Provinces. Each of these three regions supports a distinct type of forest growth.

The Pacific Slope.—The Pacific slope is characterized by several systems of mountains running approximately parallel and extending from the southeast to the northwest. The Rocky mountains vary in elevation from 5,000 to 13,000 feet above sea-level, with numerous peaks extending well above 10,000 feet. Between this system and the Pacific are: the Columbian system, comprising the Selkirk, Monashee and Caribou mountains; the Interior Plateau system; the Cassiar and Yukon systems; the Pacific system comprising the Cascade, Coast and lesser ranges, terminating with the sunken Insular system whose upper elevations form Vancouver island, the Queen Charlotte group and other coast islands. The chief rivers follow the valleys between these ranges, breaking through in some cases along the shorter cross valleys from east to west.

The Rocky mountains are formed chiefly of Palæozoic rocks, as are also the islands off the coast. The Coast range is almost entirely granitic and the Selkirks are Precambrian or Cambrian. The intervening ranges are of mixed formations, varying from rocks of sedimentary origin to granites. The best soil in British Columbia is concentrated in valley bottoms or alluvial deltas, and the purely agricultural area has been estimated at about 10 p.c. of the land area.

The climate along the coast is mild and humid, with a mean annual temperature varying from 44° to 49° F. The precipitation is the heaviest in Canada, varying from 40 to 120 inches. The greater part of this precipitation falls during autumn and winter, only 30 p.c. falling during the growing season, to which fact is sometimes ascribed the scarcity of deciduous-leaved forest growth, which requires more moisture during the growing season. In any case, coniferous tree growth in this region is the most luxuriant in Canada, and the forests have the most rapid rate of growth, the largest individual trees and the heaviest stands of timber extending from sea-level up to elevations of 3.500 or 4.000 feet. The Interior Dry belt of British Columbia has a low annual precipitation, varying from 10 to 20 inches. Extremes of temperature from 100° F, to -45° F, make this a region unfavourable to tree growth. The winds from the Pacific, which precipitate most of their moisture on the Coast and Cascade mountains, cross this interior plateau, leaving its southern part in a semi-arid state, and give up a large part of what moisture remains when they reach the Selkirk and Rocky mountains, forming what may be termed the Interior Wet belt, centred in the Columbia valley. Here the precipitation averages over 30 and sometimes reaches 60 inches, taking the form of snow in higher altitudes. Temperatures vary from 100° F. to -17° F. In the Rocky Mountain range itself the climate is more extreme and variable than to the westward.

¹ Material in this chapter has been prepared in co-operation with Roland D. Craig, F.E., of the Forest Service of the Department of the Interior, by R. G. Lewis, B.Sc.F. Chief of the Forest Products Branch of the Dominion Buresu of Statistics. This Branch collects and compiles statistics relating to forest production and publishes four annual printed reports covering the lumber industry, the pulp and paper industry and the wood-using and paper-using industries of Canada. These printed reports are usually preceded by a number of preliminary mimeographed reports, one for each important industry or group of industries. For detailed list of publications see Chapter XXIX.

The Great Plains.—East of the Rockies lies the Great Plains region, composed of a variety of topographical types. From the foothills of the Rockies, the country slopes gradually eastward and northward. The prairie country extends from the International Boundary to the 55th parallel along the foothills, gradually tapering down toward the east to a point near the lake of the Woods. Of this area, 105,000 square miles is now almost entirely treeless, with rich fertile soil, and is at present a purely agricultural or pastoral country. Whether its present treeless condition is due to climatic or other causes is problematical, but the presence of isolated patches of tree growth in situations well protected from fire, the ease with which these natural groves can be increased and new plantations established by artificial planting and protection from prairie fires, would seem to indicate that repeated burning accounts, at least in part, for its present treeless state. The underlying rocks are of the Cenozoic and Mesozoic eras. The climate of Alberta is extremely variable in winter, due to a warm, dry wind known as the Chinook, which blows from the south and southwest and extends its influence from the International Boundary to the Peace river and eastward to Regina in Saskatchewan. the isotherms run almost due north and south in Alberta. Rainfall varies from 15 to 20 inches. The temperature in Manitoba has an absolute recorded range of 150° F., with a mean range of 71° Saskatchewan and Alberta are more temperate, especially where they are affected by the Chinook. North of the treeless prairies is a region largely unexplored, covered at first by a comparatively light forest growth which toward the north and east gives way to the sub-Arctic "tundra"—a region of muskeg and bare, glacier-worn rocks of the Laurentian and Precambrian types.

These Laurentian rocks in Canada form the Archæan or Canadian Shield, with a distinct type of topography. This rock formation covers a huge irregular triangle with its apex near the Thousand islands in the St. Lawrence, from which point one arm extends northwesterly to the mouth of the Mackenzie river and the other northeasterly down the St. Lawrence valley to include the Labrador peninsula. This region has been reduced to a peneplainated condition by repeated glacial action which has worn down the high elevations and scoured out most of the soil except in isolated depressions. It is covered with innumerable lakes, muskeg or bog, and rivers. The southern portion of the Shield is to a great extent agricultural land, actual or potential, much of which is still heavily forested. Toward the north tree growth becomes lighter and the climate as a rule becomes too severe for continuous successful agriculture. Still farther toward the north, tree growth ceases and the region merges into the same belt of sub-Arctic "tundra" already mentioned.

The St. Lawrence Basin and the Atlantic Slope.—The basin of the St. Lawrence and Great Lakes contains a variety of topographical and geological types. The north shores of lake Superior and Georgian bay, the upper Ottawa River valley and the southern part of Labrador, are part of the Laurentian Shield already described. Here the climate is tempered in part by the presence of the lakes and the gulf of St. Lawrence but is, nevertheless, severe and variable. To the south, soil and climate improve, and the southwestern peninsula of Ontario, the north shore of lake Ontario and the St. Lawrence valley are all essentially agricultural land. The rock here is of sedimentary origin, mostly of Palæozoic age.

The Maritime Provinces, with a general slope towards the Atlantic, are varied in topography and geology. The climate resembles that of southern Ontario, being modified by the presence of the ocean. Precipitation is above 35 inches annually. This region supports a type of forest similar to that of the southern portion of the Archean Shield.

Section 2.—Main Types of Forest Growth.

Physiographic, climatic and soil conditions in Canada favour the coniferous type of forest. While the more fertile portions of Ontario, Quebec and the Maritime Provinces support a heavy virgin growth of hardwoods, the greater part of Canada's forest area is covered with spruce, pine, balsam, Douglas fir and other coniferous softwoods. Three main groups of forest growth in Canada follow the main physiographic divisions already mentioned. These groups are the Cordilleran, the Great Plains and the Eastern forests.

The Cordilleran Forests.—The Cordilleran forest, which covers the greater part of the Pacific slope, may be subdivided into the Coast belt, the Interior Dry belt, the Interior Wet belt and the Rocky Mountain belt. The Coast belt includes several distinct forest types, their character being determined by variations in climatic and topographic conditions, among which altitude and precipitation have had the greatest effect on forest growth. In the southern portion of the belt Douglas fir and red cedar are the principal species at altitudes below 2,000 or 2,500 feet. With these are associated hemlock, white pine, amabilis and lowland fir. Toward the north and at higher altitudes, Douglas fir disappears and red cedar and hemlock are the important trees, with amabilis fir and yellow cypress as subsidiaries. In the Queen Charlotte islands and along the northern part of the coast Sitka spruce and western hemlock form a lowland type.

In the Interior Dry belt, western yellow or "bull" pine predominates at low altitudes bordering on the grass lands. Douglas fir gradually increases in importance until it predominates at elevations up to 3,500 and 4,500 feet. Western larch covers a limited area usually between the true yellow pine and Douglas fir types. At the northern latitudinal and upper altitudinal limits of the Douglas fir type, an Engelmann spruce type develops, which merges into a spruce-alpine fir type at still higher altitudes. Lodgepole pine has taken the place of Douglas fir, Engelmann spruce and, in some cases, yellow pine on burned-over areas and has become, to a considerable extent, established as a distinct type.

Forest types similar to those of the coast have developed in the Interior Wet belt. In the southern portion of this belt, red cedar predominates in the wetter situations, mixed with Douglas fir, Engelmann spruce, white pine, hemlock, western larch, alpine fir, lowland fir and cottonwood. On the benches and lower valley slopes, hemlock and cedar are the important species. Engelmann spruce replaces hemlock at higher elevations, cedar gradually disappears and the spruce-alpine fir type stretches up to timber line. To the north, Engelmann spruce and alpine fir are more prominent and the other species are gradually eliminated.

The Rocky Mountain belt includes portions of the Dry Belt types to the south and those of the Interior Wet belt further north. Otherwise the typical forest of the Rocky mountains is made up of Engelmann spruce and some white spruce, with an increasing proportion of alpine fir as the altitude increases. This type has suffered so severely from fire, especially on the dry eastern slopes, that lodgepole pine has established itself permanently in some cases and temporarily in others on burned-over areas.

In the sub-Arctic belt, comprising the Yukon plateau and that part of the Rocky Mountain system north of 58°, the general elevation is over 4,000 feet, the climate is severe, the growing season short and precipitation scant. As a result, tree growth is slow and confined to favourable sites in valleys. The timber is

small and of poor quality. It is, however, of great local value in the mining industry and to trappers. The principal type is the spruce-alpine fir, with lodgepole pine on poorer sites, and poplar and willow on richer soils on burned-over areas.

Most of the commercially important species of the Cordilleran region are confined to British Columbia. The spruce-fir-lodgepole pine type of the northern interior extends across the Rockies into the foothills of Alberta. Certain species, such as Douglas fir, Engelmann spruce, alpine fir and lodgepole pine, are also found in western Alberta, but in few cases do they extend any great distance eastward.

The Forests of the Great Plains.—The Great Plains region may be divided into the Prairie, Northern Forest and Sub-Arctic belts. There are no great variations in altitude in the region, and latitude and soil conditions, especially drainage. determine the distribution of forest types. The Prairie belt in southern Alberta, Saskatchewan and Manitoba extends north from the International Boundary for 200 to 400 miles. Patches of tree growth in protected situations are made up chiefly of aspen poplar, with some white spruce and jack pine. North of this purely agricultural and pastoral area is the great Northern Forest belt, from 300 to 400 miles wide, which extends from Alaska to Labrador, covering the greater part of the Laurentian Shield as far as the limits of commercial tree growth. white spruce predominated over this entire belt and it still forms the most important type commercially, although it has suffered severely through forest fires. In the East, balsam fir is an important associate, and the spruce-balsam fir type makes up most of the pulpwood resources of Eastern Canada. The black spruce type, frequently associated with eastern larch (tamarack), occupies poorly-drained areas within this belt. Enormous areas have been burned over by forest fires. Aspen poplar has replaced the spruce and balsam on the best soil in these areas, and is now the most prevalent species, although it will eventually be replaced by conifers where natural reproduction is possible. Over vast areas, however, there is no immediate prospect of securing a return to coniferous forest by natural agencies. Jack pine has taken possession of the drier, lighter soils, in some cases permanently. Paper birch comes in with aspen poplar toward the east, and balsam poplar occurs in the moister situations. Jack pine, aspen and balsam poplar reach a higher development along the Peace river in northern Alberta than they do elsewhere in America. Along its northern margin this belt merges into the sub-Arctic "tundra", with tree growth confined to narrow strips along waterways. Vigorous tree growth and fairly large timber are found along these shallow valleys as far north as 67°, indicating that soil conditions, especially drainage, are more important than climate in defining the limits of tree growth. To the northward, balsam fir disappears early from the forest growth, followed by balsam poplar, jack pine, aspen and paper birch, leaving white spruce, black spruce, tamarack or larch, and willow to define the northern limit of tree growth. This may be roughly indicated by a line drawn from the mouth of the Mackenzie river on the Arctic ocean to the mouth of the Churchill river on Hudson bay and across the Labrador peninsula at about 58° N. latitude.

The Eastern Forests.—In southeastern Canada a number of belts of forest growth with distinctive characteristics are recognized. The hardwood belts include the Carolinian zone, confined to the north shore of lake Erie and the western part of lake Ontario. This is important only as forming the northern fringe of a type which covers a large area in the central Eastern United States, and includes a number of species such as tulip, sassafras, etc., not found elsewhere in Canada.

North of this zone, still in the purely agricultural and pastoral area, the original forests were of the commercially important hardwoods, such as maple, elm, basswood, oak, yellow birch, hickory and beech, with patches of pine, hemlock and other conifers on the lighter soils. This area has been largely cleared and devoted to agriculture, and the original forest type is to be seen only on farmers' woodlots.

Since the beginning of the lumbering industry in Canada, the region north of this belt, extending, roughly speaking, to the height of land between the St. Lawrence and Hudson Bay waters, has been the centre of the most extensive exploitation, and still occupies that position as far as Eastern Canada is concerned. The forest types which still exist in this region vary considerably owing to soil and other conditions, but generally speaking white pine occupies the better situations on the lighter soils, and reaches its highest development in this belt. With it is frequently associated the red or Norway pine. On heavier soils, spruce, hemlock and the tolerant hardwoods also form an important part of the stand. Cedar, tamarack and black spruce form typical stands in poorly drained situations. Hardwood ridges, carrying chiefly maple and yellow birch, occur in the southern part of this belt. These, with hemlock, extend north to a line running approximately from the northeast corner of lake Superior to the mouth of the Saguenay river, The extensive lumbering operations of the past century, together with repeated forest fires, have greatly modified these original types. The exclusive cutting of white and red pine, practised until recently, has resulted in the displacement of these species by spruce, balsam fir, jack pine and the hardwoods, the spruce-balsam fir pulpwood areas being the most valuable type remaining. Jack pine has come in extensively on burned-over areas on lighter soils and in some cases has taken permanent possession of such sites. On account of its value for railway ties and pulpwood and the ease with which it can be grown it is not at all an undesirable species to perpetuate. Aspen and paper birch are also rapidly becoming established as temporary types. Along its northern border, this mixed hardwood and softwood type merges into the northern forest belt already described, with the disappearance of first the hemlock and the tolerant hardwoods and then the white and red pines.

The Acadian belt covers the Maritime Provinces and the south shore of the St. Lawrence in Quebec. The forest is similar to that of the New England States, being characterized by red spruce. With this are found varying proportions of white spruce and balsam fir. In the mixed softwood and hardwood type, which also occurs in this belt, white pine and hemlock occur, with yellow birch, maple and beech representing the commercial hardwoods. Cedar is fairly abundant in the western portion of this region. Burned-over areas in the Acadian belt are chiefly occupied by aspen and white birch as temporary species.

Section 3.—Important Tree Species.

In Canada there are approximately 130 species or distinct varieties of trees. Only 33 of these are conifers commonly known as "softwoods", but they comprise over 80 p.c. of the standing timber and 70 p.c. of the wood utilized for all purposes. While the number of deciduous-leaved or "hardwood" species is large, only about a dozen are of a commercial importance comparable with twice the number of conifers. The principal use for the hardwoods is for fuel, though increasing amounts are being manufactured into lumber, railway ties and veneers. A detailed description of the more important species of Canadian forest trees was given on pp. 282-285 of the 1924 Year Book.

Section 4.—Forest Resources.

Areas.—The total land area of Canada, revised according to the Labrador Boundary Award of 1927 and the latest surveys, is estimated at 3,457,484 square miles, of which 550,000 square miles is considered as being suitable for agricultural or pastoral purposes. According to the 1931 census about 255,094 square miles of this agricultural land was occupied and about 133,220 square miles was improved.

The total area covered by existing forests has been estimated at 1,153,000 square miles, including 26,652 square miles of occupied agricultural land still forested. Most of this will no doubt be left under forest cover in the form of farmers' woodlots. There is also a considerable area of forest land which is of agricultural value and will eventually be cleared but it is estimated that 1,100,000 square miles is essentially forest land which can best be utilised for forest production. (See Table 8, p. 42.)

The accessible and productive forest area is estimated to be 791,670 square miles of which 378,945 square miles carries timber of merchantable size and on 412,725 square miles there is young growth which if protected from fire will eventally produce merchantable timber. The remaining area of 361,330 square miles carries forests of value either because of their influence on water control, climatic conditions, game conservation, or by reason of their attraction to tourists and their value as a source of wood for local use. On account of their geographical location or because of unfavourable growth conditions these forests at present are considered as non-productive from a commercial viewpoint.

As a result of the constant and inevitable improvement in conditions affecting profitable exploitation, such as the extension of settlement and transportation facilities, the increasing world scarcity of forest products, and the ever increasing demand for these products, due to the development of industry, the discovery of new uses for wood, and the improvements in the methods, equipment and machinery used in logging and manufacturing forest products, most of this inaccessible timber will eventually become commercially exploitable. It is estimated that of the accessible forest area 481,790 square miles is producing softwood or coniferous timber, 213,590 square miles, mixed softwoods and hardwoods and 96,290 square miles, hardwood or broad-leaved species.

In Canada as a whole about 8.4 p.c. of the total forest area has been permanently dedicated to forest production. Previous to the transfer of the natural resources to the western provinces in 1930, some 33,023 square miles of this reserved area comprised national forests but these have now in large part become provincial forests. The distribution of provincial forests, provincial parks and national parks among the various provinces is shown in the following statement.

FOREST RESERVES AND PARKS IN CANADA, 1983.

Province.	Provincial Forest Reserves.	Provincial Parks.	National Parks.
Nova Scotia New Brunswick	sq. miles.	sq. miles.	sq. miles. 0.05 0.10
Quebec	28,960 19,607 3,808	7,288 4,889	15·00 1,148·00
Manitoba. Saskatchewan Alberta. British Columbia	9,217 19,433 15,964	177 3 2,221	1,869.00 24,616.00 1,715.00
Totals	96,989	14,578	29,363 15

Of the total forest area 9.6 p.c. has been permanently alienated, being owned in fee simple by private individuals or corporations. The Crown still holds title to 13.2 p.c. of the area but has alienated the right to cut timber thereon under lease or licence. So far 77.2 p.c. has not been alienated in any way. It may be said that 90.4 p.c. of Canada's forest area is still owned by the Crown in the right either of the Dominion or the provinces and, subject only to certain temporary privileges granted to limit-holders, may at any time be placed under forest management and dedicated to forest production.

Volume of Standing Timber.—In 1932 the total stand of timber in Canada was estimated to be approximately 267,733 million cubic feet, of which 217,776 million cubic feet was of coniferous species and 49,957 million cubic feet of broad-leaved species.

During the years 1926-30 the average annual depletion due to use was approximately 2,000 million cubic feet of conifers and 970 million cubic feet of hardwoods. The average annual loss from fire is estimated at 185 million cubic feet of conifers and 45 million cubic feet of hardwoods. Though no widespread epidemics of insects or fungous diseases have occurred in recent years, local infestations which cause considerable loss develop practically every year. In Nova Scotia in 1931, the balsam suffered severely from "gout" induced, it is believed, by minute sucking insects of the genus Dreyfusia, previously undescribed. In the Gaspé peninsula the spruce saw-fly became a serious menace. In the absence as yet of any basic data on which to estimate the annual depletion from these causes, it may be taken as 700 million cubic feet. The total annual depletion during the five-year period is therefore estimated to have been about 3,900 million cubic feet. To what extent this loss has been replaced by growth increment is not known but, considering the preponderance of the younger age classes in the reproduction, it is believed there has been a considerable net depletion in the merchantable age classes.

Another real difficulty is the division of the existing stand into merchantable timber and that which is inaccessible or unprofitable, since merchantability depends not only on the location but on the density of the stand, the demands of the market for certain species or qualities of product, and the regulations as to cutting. Light stands covering large areas may in the aggregate carry very large amounts of timber and still not be exploitable at a profit. For some species, such as aspen and white birch, which comprise three-quarters of the hardwoods, there is very little demand, and therefore these cannot properly be classed as merchantable, though accessible as far as location is concerned.

In June, 1929, a conference of the Dominion and provincial forest authorities was held in Ottawa and it was decided to undertake a national inventory of the forest resources of Canada, each authority conducting the necessary stock-taking surveys on the land under its jurisdiction. In connection with the inventory definite data are being secured regarding the depletion due to use, fire, insect damage, etc., and the increment accruing. Five years was set as an objective for the completion of an inventory of at least the more accessible parts of the area. This national inventory is being organized under the direction of the Department of the Interior and related studies of increment and decrement should shortly begin to throw new light on many problems.

Under present conditions it is doubtful whether more than 135,000 million cubic feet of conifers and 30,000 million cubic feet of hardwoods can be considered as accessible.

1.—Estimate of Total Accessible Stand of Timber in Canada, by Regions and Classes, with Estimate of Grand Total Stand, 1932.

	• • •								
1	Conifers.			Broad-leaved.			Totals.		
Region.	Saw Ma- terial.	Small Material.	Total Equi- valent in Standing Timber.	Saw Ma- terial.	Small Ma- terial.	Total Equivalent in Standing Timber.	Saw Ma- terial.	Small Material.	Total Equivalent in Standing Timber,
	million feet b.m.	1,000 cords.	million cubic feet.	million feet b.m.	1,000 eords.	million cubic feet.	million feet b.m.	1,000 cords.	million cubic feet. •
Eastern Provinces Prairie Provinces British Columbia	90,315 12,480 154,610	62,615	10,059,075	7,810	76,820	9,008,290		139,435	
Totals. Inaccessible		,	135,367,17f 82,408,575	i .	l '	' '			165,846,045
StandGrand Totals	146,119 143,524						 -	<u> </u>	267,733,084

Section 5.—Forest Administration.

Subsection 1.—Adminstration of Dominion and Provincial Timber Lands.

In Canada the general policy of both the Dominion Government and the Provincial Governments has been to dispose of the timber by means of licences to cut, rather than to sell timber land outright. Under this system the State retains the ownership of the land and control of the cutting operations. Revenue is derived in the form of stumpage bonuses (either in lump sums or in payments made as the timber is cut), annual ground rent, and royalty dues collected as and when the wood is removed. Both ground rent and royalty dues may be adjusted at the discretion of the Governments so that the public may share in any increase in stumpage values or, as has happened, reductions may be made in the rates if conditions demand them.

The Maritime Provinces did not adopt this policy to the same extent as did the rest of Canada. In Prince Edward Island all the forest land has been alienated and is in small holdings, chiefly farmers' woodlots. In Nova Scotia 76 p.c. of the forest land is privately owned; nearly half of this is in holdings exceeding 1,000 acres. In New Brunswick nearly 50 p.c. has been sold, and 20 p.c. is in holdings exceeding 1,000 acres. The percentage of privately-owned forest land in the other provinces is as follows: Quebec, 7 p.c.; Ontario, 3-3 p.c.; Manitoba, 11-3 p.c.; Saskatchewan, 10-4 p.c.; Alberta, 15-7 p.c. and British Columbia, 13 p.c.

Until 1930 the Dominion Government administered the Crown lands, including timber lands, in the provinces of Manitoba, Saskatchewan and Alberta, in the Railway Belt and Peace River Block of British Columbia, and in Yukon and the Northwest Territories, but the forests as well as the other natural resources in the western provinces have now been transferred to provincial control. In all cases timber lands are now administered by the provinces in which they lie. As new regions are explored their lands are examined and the agricultural land disposed of. Absolute forest land is usually set aside for timber production, and the policy of disposing of the title to lands fit only for the production of timber has been virtually abandoned in every province in Canada. The ownership of forests by towns and

communities, so common in Europe, is now beginning in Canada. Efforts are being made, especially in Quebec and Ontario, to encourage the establishment and maintenance of forests on this basis.

Timber Lands Under Dominion Control.—The National Parks of Canada Branch of the Department of the Interior administers the Dominion parks, now embracing about 29,360 square miles. These are primarily national playgrounds and game preserves, the timber being practically withdrawn from commercial use. The Dominion Lands Administration of the Department of the Interior administers and protects forest land lying north of the provincial areas. The Department of Indian Affairs administers, in trust for the Indians, all timbered areas within their reservations. The Board of Railway Commissioners has charge of fire protection along practically all the railway lines in Canada.

Forest Administration in the Prairie Provinces.—Upon the transfer of the natural resources in 1930, each province took steps toward the creation of an adequate forest service with a Provincial Forester in charge. In Manitoba the service is under the Department of Mines and Natural Resources and in its forest regulations, framed under the Manitoba Forest Act, the former Dominion Forest Reserves and Crown Timber Regulations are very largely incorporated. In Saskatchewan and Alberta a closely similar policy is being followed. In every case the central object of policy is to safeguard the regeneration of valuable species in the natural forest types. The national forests in these provinces have practically all been retained as provincial forests and some additional reserves have been established, making a total area of 32,458 square miles. Approximately 27,335 square miles of forest lands in the Prairie Provinces are privately owned.

British Columbia.—In the province of British Columbia, the Forest Branch of the Department of Lands has administered timber lands since 1912. All unalienated lands in the province which are found to be better suited to forest than to agricultural production are dedicated to forest production, and all timber lands carrying over a specified quantity of timber are withdrawn from disposal until examined by the Forest Branch. During the last few years 15,964 square miles have been set aside permanently for forest purposes. The present practice is to sell cutting rights for a stated period by public competition but licences to cut, which are renewable annually in perpetuity, have been granted for a large proportion of the accessible timber. The royalties are adjusted periodically on the basis of prevailing industrial conditions. About 18,150 square miles of timber land are privately owned.

Ontario.—Forest administration is carried out in Ontario under the Department of Lands and Forests, which is subdivided into two divisions each under a Deputy Minister. The Lands and Forests Division controls timber sales and the Forestry Division has charge of reforestation, protection, air service, forest surveys and investigations. The Forestry Board, consisting of representatives of forest industries, the University of Toronto Faculty of Forestry and the Deputy Minister of Forestry, acts in an advisory capacity.

In recent years the sale of saw timber has been by tender after examination, with conditions covering the removal within a specified period, disposal of débris, etc. Much of the merchantable timber is at present held under licences granted in the past and renewable indefinitely. Pulpwood areas are usually disposed of by individual agreements for longer periods than in the case of saw timber. Manufacture in Canada was made a condition in the disposal of all softwood saw timber in 1897, of all pulpwood in 1900 and of all hardwood in 1924. In some individual

pulpwood agreements the licensee must undertake not only to erect a pulp-mill but also a paper-mill within the province, the type of mill being stipulated in the agreement. In this province about 7,972 square miles of forest land have been disposed of outright. Provincial forest reserves cover 19,607 square miles.

Quebec.—The Forest Service of the Department of Lands and Forests administers the timber lands in Quebec. Its powers include classification of land, disposal of timber and regulation of cutting operations. Forest protection has been since 1924 under a separate organization, the Forest Protective Service. Licences are granted after public competition and are renewable from year to year, subject to changes in royalty by the Government at any time. Grants of land in fee simple, made in some cases under the French régime in Quebec, are responsible for the private ownership of about 34,173 square miles of forest land. An area of 28,960 square miles has been reserved for forestry purposes.

New Brunswick.—The Forest Service, under the Department of Lands and Mines, and a special Forestry Advisory Commission are the forest authority in New Brunswick. The Forestry Advisory Commission, consisting of the Minister of Lands and Mines, the Deputy Minister, the Chief Forester, a lumberman representing the licensees of Crown lands, and one representing the private timberland owners is appointed to advise on matters of policy. At present timber lands are disposed of as in the other provinces, but in the past several grants of forest land were made to railway companies, private concerns and individuals, who now own in fee simple about 10,675 square miles of forest land.

Nova Scotia.—In Nova Scotia the greater part of the forest land, amounting to 12,000 square miles, has passed into private ownership, but the system of disposal of timber by licences to cut is now being followed. What remains vested in the Crown is administered by the Chief Forester under the Minister of Lands and Forests. Under the Minister, the Chief Forester has charge of forest protection, surveying and scaling throughout the province.

Subsection 2.—Forest Fire Protection.

The protection of forests from fire is undoubtedly the most urgent and most important part of the work of the different agencies administering forest lands in Canada. Except for the forests of the National Parks and the Northwest Territories and Yukon, which remain under Dominion control, the administration of forest lands is now the function of the individual provinces. Up to the end of the fire season of 1930, the Forest Service of the Department of the Interior was responsible for fire protection in the Prairie Provinces of Manitoba, Saskatchewan, and Alberta, and the Railway Belt of British Columbia. However, by reason of the transfer of natural resources from Dominion to provincial control, their administration is now a matter of provincial concern.

Each of the Provincial Governments, except that of Prince Edward Island, maintains a fire protection organization co-operating with owners and licensees for the protection of all timbered areas, the cost being in part distributed or covered by special taxes on timber lands. In each province, with the exception just mentioned, provincial legislation regulates the use of fire for clearing and other legitimate purposes, and provides for closed seasons during dangerous periods. An interesting development in this connection in the province of Quebec is the organization of a number of co-operative protective associations among lessees of timber limits. These associations have their own staffs which

co-operate with those of the Board of Railway Commissioners and the Provincial Government. The latter contributes money grants and also pays for the protection of vacant Crown lands lying within the area of the associations' activities.

In the matter of forest fire protection along railway lines, the provincial services are assisted by the Dominion Railway Act administered by the Board of Railway Commissioners. This Act gives to that body wide powers relating to fire protection along railway lines under its jurisdiction in Canada. Certain officers of the various forest authorities are appointed ex officers of the Board of Railway Commissioners. These officers co-operate with the railway fire-ranging staffs employed by the various railway companies, the compulsory control of all lines coming under the jurisdiction of the Board being one of the requirements of the Dominion Railway Act.

The most important single development of late years in forest fire protection has been the use of aircraft for the detection and suppression of incipient forest fires. Where lakes are numerous flying boats can be used for detection and for the transportation of fire fighters and their equipment to fires in remote areas. Where safe landing places are few and no other lookout system has been developed, as in northern Alberta, land machines are used for the detection and inspection of fire only; but in the Laurentian area, where lakes are numerous, flying boats are used both for observation and control. Specially developed aircraft equipped with wireless are employed on forest fire-protection operations; these enable the observer to report the location of the fire as soon as it has been detected. are now being used extensively for exploring remote areas and mapping forest lands by means of aerial photography. Waste lands and the various forest types can be mapped more accurately and more economically by this means than by ground surveys. As a general rule aircraft are used in the more remote districts, while lookout towers, connected by telephone lines or equipped with wireless, are established in the more settled and more travelled forest areas. While these agencies have to a large extent supplanted the old canoe, horseback and foot patrol for detection of fires, a large ground staff with its equipment stored at strategic points will always be necessary for the fighting of larger fires and the maintenance of systems of communication and transportation, and of fire lanes and fire guards in the forest.

The most important improvement in forest fire-fighting equipment has been the portable gasolene pump. These pumps, which each weigh from 45 to a little over 100 pounds, can be carried to a fire by car, canoe, motor boat, automobile, aircraft, pack saddle or back pack. They can deliver efficient water pressure as far as seven thousand feet from a water supply and, when used in relays, at a much greater distance. Smaller hand pumps are also used effectively in many cases.

In addition to these improved measures, the enactment of legislation has tended to reduce the fire menace. The establishment of close seasons for brush burning, and seasons during which permits are required for setting out fires and for travel in the forest during dangerous dry periods, have been of enormous value as preventive measures.

Since its beginning in 1900, the Canadian Forestry Association has played an important part in securing popular co-operation in reducing the fire hazard. By means of its attractive magazine, which has a circulation of over 16,000, railway lecture cars and motor trucks provided with motion picture equipment, and by co-operation with radio broadcasting stations and the press, the Association reaches a large proportion of the population of the Dominion. Special efforts are made

through the schools, by specially appointed junior forest wardens and other means to educate the younger generation as to the value of the forests, the devastation caused by fire and the means of preventing such destruction.

Prepared lectures illustrated by slides and films are distributed to volunteer lecturers and other educational work is carried on in schools and at public meetings. The different Dominion and provincial forest authorities also carry on extensive publicity work independently and in co-operation with the Canadian Forestry Association.

Another interesting development in forest protection has been the establishment of special meteorological stations for the study of the effects of weather conditions on the fire hazard, and the broadcasting of special forecasts of hazardous fire weather.

Subsection 3.—Scientific Forestry.

Up to the present the practice of forestry in Canada has consisted chiefly in the administration and protection of existing forest areas. About 35 square miles is now being planted out annually, largely in connection with farmers' woodlots, shelter belts, and reclamation work, while several commercial reforestation projects are being carried on by paper companies and by the Ontario Government on denuded Crown lands. The great forestry problem in Canada, however, is the management of Crown forests, first under provisional and later more intensive working plans, so as to ensure a sustained yield. To this end, forest research activities are now assuming great importance. Silvicultural investigations are receiving marked attention both from the Dominion services and some of the provincial services.

About 200 technical foresters find employment either under the Dominion and provincial forest services or with paper and lumber companies. In addition to administrative work, these men carry on forest surveys either for the estimation of timber stands and making of maps, or to determine natural growth and reproduction conditions and factors. They also direct any planting or nursery work and direct the regulation of commercial logging operations along forestry lines.

The Research Division of the Dominion Forest Service has established permanent forest experiment stations at Petawawa, Ontario, and at Lake Edward, near Grand'Mère, in Quebec, and carries on similar experimental work at other points throughout Canada. A considerable amount of this work is done in cooperation with provincial forest services and with pulp and lumber companies.

The Forest Service of the Department of the Interior is now conducting a National Forest Inventory in co-operation with the various Provincial Governments (see p. 285). It is expected that, in so far as the commercially accessible timber is concerned, this inventory will be completed by 1935. An important feature is that the Forest Service is conducting special rate-of-growth surveys in each province to determine the nature and extent of the natural reproduction and the annual increment now being secured under varying conditions of site and type, following cutting or forest fires. The valuable silvical data thus obtained will provide a sound basis for future forest policies.

Another important phase of forest research is found in the work of the Dominion Forest Products Laboratories in determining the best methods of forest utilization, that is, the converting of standing timber into saleable commodities with a minimum

of waste. These Laboratories, established by the Dominion Forest Service at Ottawa and in connection with the University of British Columbia at Vancouver, carry on investigatory work in forest products, covering the strength, durability and other mechanical, physical and chemical qualities of Canadian woods, methods of seasoning, preservation from decay, and chemical utilization in wood distillation and other industries. A special pulp and paper division of the laboratories is located in Montreal, the recognized business centre of the industry, in the Cellulose Institute of the Canadian Pulp and Paper Association. The division is in close co-operation in this connection with the Association and with McGill University. Much credit is due to the forestry departments of some of the pulp companies for pioneering work in forest research.

Education in forestry and allied subjects and opportunities for research are offered by four Canadian universities and by other agencies. The University of Toronto, the University of New Brunswick and the University of British Columbia, provide four-year courses leading to a professional degree. The School of Forestry and Surveying in connection with Laval University at Quebec provides, in the French language, a combined course of four years' duration leading to diplomas in both sciences. The Government of Quebec has established a school in papermaking at Three Rivers in the heart of the paper industry; several agricultural colleges provide short courses in farm forestry and a school for forest rangers has been established at Berthierville by the Quebec Forest Service.

The practice of forestry by individuals and private concerns is encouraged by the furnishing of expert advice by Dominion and provincial services and by the distribution of tree-planting material. The Dominion Department of Agriculture maintains two nurseries in Saskatchewan, one at Indian Head and the other at Sutherland near Saskatoon. Over 7,000,000 trees are distributed annually to farmers and ranchers in the Prairie Provinces for planting woodlots and windbreaks. If certain conditions are fulfilled, the material and instructions are provided free except for transportation charges. A total of over 120,000,000 trees has been distributed.

The province of Ontario provides material under similar conditions and distributes to woodlot owners at least 7,000,000 trees annually from its five nurseries. As many more are being provided for the creation of county forests, demonstration forests and plantations on denuded Crown lands. To encourage the establishment of communal forests by towns and other municipalities, the Provincial Government undertakes to plant free of charge any area purchased by the municipality for this purpose. The Government also assists counties that purchase areas of not less than 1,000 acres of land for forest purposes. As a result of these inducements there are at present scattered throughout the province 50 communal forests owned by municipalities and eight of the larger county forests. Farm land used for forestry purposes, while so used, is exempt from taxation up to 10 p.c. of the total farm area but not exceeding a total of 20 acres.

In Quebec, a forest nursery at Berthierville serves as a demonstration station for the School of Forestry and as a location for the forest ranger school. It provides trees for sale and distribution in the province, comprising seedlings and transplants for forest planting and larger trees for ornamental purposes. The capacity of the nursery is about 10,000,000 trees. Provision is made by legislation for the creation of communal forests and there are now 76 of these, covering 594,059 acres.

Section 6.—Forest Utilization.1

Historical.—The forest has always played a large part in the life of the pioneer in Eastern Canada, providing him with building material and fuel but opposing his agricultural efforts. The material removed in clearing the first fields was usually more than sufficient for his needs, and in many cases what would now be considered valuable timber was burned by the early settler. Local trade in lumber began in New France shortly after 1650. The first attempts at forest conservation took the form of setting aside areas of timber for the use of the navy, and the first exports were of shipbuilding material and spars. Sawmills were established along the St. Lawrence before the close of the seventeenth century. While there was no recorded transatlantic trade in forest products other than naval supplies, shipments of lumber and staves were made to the French West Indies during the French régime. Shipbuilding became an important local industry and gave rise to considerable forest exploitation.

Transatlantic trade began to develop after the Conquest, stimulated by bounties and tariff privileges granted with the object of reducing England's dependence on Baltic supplies, especially in connection with naval material. This trade, however, did not develop satisfactorily until the beginning of the nineteenth century, when Napoleon succeeded in interfering seriously with British imports of wood from the Baltic. The export of timber from Canada increased enormously, and the square timber trade in white pine and oak spread from the St. Lawrence and Richelieu valleys to lake Champlain and Upper Canada, especially the Ottawa valley. This trade reached its height in the '60's and has steadily declined since that time.

Sawmilling on a large scale followed the square timber trade and the establishment of small custom mills followed in the wake of the settler. The building of wooden ships in the St. Lawrence valley and the Maritime Provinces developed hand in hand with the lumber industry, providing a local demand for timber and a means of exporting it overseas. The British preferences were reduced and finally abolished about 1860.

The export trade in sawn lumber to the United States developed from 1820 to 1830 and gradually replaced the more wasteful overseas square timber trade, but it was not until after Confederation that the export of sawn lumber by sea exceeded that of square timber.

Encouraged by the free entry of raw materials into the United States, an important trade developed, especially in Ontario, in the exportation of saw logs to be sawn into lumber in United States mills. The Provincial Government prohibited the exportation of this material, when cut on Crown lands, about 1900 and effectively checked this economic loss. Similar legislation has since been passed by the Dominion and the other Provincial Governments and has been extended to pulp-wood and other raw or unmanufactured forest products.

The lumber industry which began in Quebec and New Brunswick and extended into Upper Canada has since moved gradually through "Old" Ontario, along the Upper Ottawa and its tributaries, around Georgian bay into "New" or northern Ontario and through the Lake of the Woods and Rainy River districts. It is still an important industry in these regions. Lumbering to the north of the prairies, where the timber was never particularly large nor abundant, has progressed with the settlement of the district but the production does not usually exceed the local demand. In 1908 British Columbia provided less than a fifth of Canada's lumber

¹ An article on "The History of the Canadian Lumber Trade", by A. R. M. Lower, M.A., appears at pp. 318-323 of the 1925 edition of the Canada Year Book.

production but in 1931 this proportion had increased to 54 p.c., showing the rapid westward movement of the centre of production. British Columbia has added several new tree species to the lumber market and at present possesses the heaviest stands and the largest individual trees in Canada.

Remarkable developments in the manufacture of pulp and paper in the twentieth century have led to a remarkable increase of forest exploitation in Eastern Canada, giving rise to an industry which has already surpassed the manufacture of lumber and is to-day the most important manufacturing industry in Canada and the source of the greatest single item in our exports next to wheat.

Subsection 1.—Woods Operations.

Differences in forest conditions throughout Canada give rise to differences in logging methods. Generally speaking, throughout Eastern Canada the climate is such that the cutting and hauling of logs can be carried on most economically during the fall and winter months. The trees are felled and the logs hauled to the nearest stream or lake, where they are piled on the ice or sloping banks. The presence of connected systems of lakes and streams makes it possible in most cases to float the logs from the forest to the mill at a minimum cost during the annual spring freshets. The logging industry east of the Rocky mountains is therefore almost entirely seasonal. In many cases lumbermen co-operate in river-driving operations and improvement companies, financed by the logging operators, build river improvements to facilitate the passage of the floating logs, the logs being finally sorted and delivered to their respective owners. In British Columbia the scarcity of drivable streams and the greater average size of the logs give rise to entirely different logging methods. Logs are assembled by cable systems operated by donkey engines and are transported to the mills or to water chiefly by logging railways and in some cases by motor trucks. These operations are more or less independent of frost, snow or freshet and are carried on in most cases throughout the entire year.

In Eastern Canada logging operations are usually carried on by the mill owners or licensees of timbered lands, often through the medium of contractors, sub-contractors and jobbers. In the better settled parts of the country a considerable quantity of lumber is sawn by custom sawmills or small mills purchasing logs from the farmers. Unmanufactured pulpwood, poles, ties and other forest products have a market value, but saw-logs, being as a rule the property of the mill-owner, are not generally marketed as such in Eastern Canada. In British Columbia logging is carried on more frequently as a separate enterprise by limit-holders, who cut and sell logs on the market. In many cases mill operators are not limit-holders but buy their entire supply of raw material from logging concerns.

In connection with operations in the woods it should be borne in mind that the forests not only provide the raw material for the sawmills, pulp-mills, wood distillation, charcoal, excelsior and other plants but that they also provide logs, pulpwood and bolts for export in the unmanufactured state, and fuel, poles, railway ties, posts and fence rails, mining timber, piling and other primary products, which are finished in the woods ready for use or exportation. There are also a number of minor forest products, such as maple sugar and syrup, balsam gum, resin, cascara, moss and tanbark, which all go to swell the total.

Table 2 gives the total value of the products of woods operations in Canada for the years 1926 to 1930 inclusive. The imports and exports of forest products in the fiscal years ended Mar. 31, 1929-32, are shown in Tables 12 and 13 of the chapter on External Trade.

2.-Value of of Woods Operations, by Products, 1926-39.1

Product.	1926.	1927.	1928,	1929.	1930.
	\$	\$	\$	*	\$
Logs and bolts	75,791,932	74,270,067	76,431,481	79,278,543	75,563,041
Pulpwood	68,100,303	70,284,895	74,848,077	76,120,063	67.529,612
Firewood	40,032,804 6,792,087	40.582.774	41,164,270	41,764,507	48,786,064
Square timber	2,643,543	6,242,865 2,865,906	5,871,724 3,772,137	5,730,423 4,179,077	5,038,899 2,945,748
Poles	3.828.193	3,948,723	4.934.371	6,677,559	6,733,259
Round mining timber	1.566,938	965, 185	998.146	1.028.126	885.343
Fence posts	1,318,291	1,281,633	1,506,050	1.674.489	1.585.98
Wood for distillation	462,818	482.277	476,726	455.957	335,330
Fence rails	440,097	431,057	463,469	477,569	624,968
Miscellaneous products	3,459,322	3,584,368	2,484,348	2,183,816	1,825,248
Totals	204,436,328	294,939,750	212,959,799	219,570,129	206,853,494

The value of woods operations for 1931, made available at the time of going to press, is \$141,123,930.

It has been estimated that operations in the woods in Canada in 1930 involved the investment of \$246,000,000 in logging equipment, gave employment for a part of the year to 90,000 men and distributed over \$67,000,000 in wages and salaries. In estimating the annual drain on our forest resources, certain converting factors have been used. Each of these factors represents in cubic feet the quantity of standing timber that must be cut in the forest to produce one unit of the material in question, based on the total cubic contents of the tree. By the use of these factors it has been estimated that the total drain on our forest resources in 1930 due to consumption for use amounted to 3,056,930,373 cubic feet. To this total must be added the volume of material destroyed by fire, insects and fungi, which would bring the average annual depletion for the period 1926-30 to approximately 3,970,000,000 cubic feet of standing timber—as compared to 4,408,000,000 cubic feet for the period 1922-26 and 4,740,000,000 cubic feet for 1917-21. Table 3 gives the reported or estimated quantity of wood cut, by chief products, together with the respective converting factors, the equivalent in standing timber and the estimated value in each case for 1930. Table 4 shows the extent of the drain on our forest resources in 1929 and 1930, by provinces.

3.—Quantity of Wood Cut in Woods Operations in Canada, Equivalent in Standing Timber and Total Value, by Chief Products, 1930.

Product.	Quantity Reported or Estimated.	Converting Factor.	Equivalent Volume in Standing Timber,	Total Value.
Logs and bolts. M (t. b.m. Pulpwood. cords Firewood. number Square timber M (t. b.m. Poles number Round mining timber cubic ft. Posts number Wood for distillation cords Fence rails number Miscellaneous products cords Totals	5,379,492 5,977,183 10,148,960 7,417,629 153,567 1,258,437 5,301,458 16,185,930 38,139 5,753,810 178,420	219 117 95 12 219 18 1-3 2 123 2 117	cubic feet. 1,178,108,748 699,330,411 964,151,200 89,011,548 33,631,173 16,359,681 6,891,895 32,371,866 4,691,097 11,507,620 20,875,140 3,056,336,373	\$ 75, 563, 041 67, 529, 612 43, 786, 064 5, 035, 899 2, 945, 748 6, 733, 259 885, 343 1, 585, 985 335, 330 624, 988 1, 825, 245 246, 883, 494

4.—Equivalent Volumes of Standing Timber Cut in Canada and Values of Products of Woods Operations, by Provinces, 1929 and 1939.

Province.		Volumes in Timber.	Total Values.		
I toveres.	1929,	1930.	1929.	1930.	
	cubic feet.	cubic feet.	\$	\$	
Prince Edward Island		11,001,310 128,377,416	529,666 7,716,067	533,931 8,589,205	
New Brunswick	195,588,102	179,844,960	15,788,394	13,991,127	
Quebec	810,931,266 776,378,800	1,000,825,308 719,125,633	65,537,957 60,999,481	73,493,851 53,381,944	
Manitoba	92,235,022	94,913,732	4,964,348	5,015,898	
Saskatchewan	102,912,066	109,262,403	4,878,995	5,100,417	
Alberta	142,474,289 839,106,052	116,647,253 696,932,358	6,244,173 52,911,098	5,896,861 40,850,260	
Totals	3,090,614,617	3,856,930,373	219,570,129	206,853,494	

The following statement summarizes the quantities and values, in the calendar year 1930, of the main products of the woods which are sold without further manufacture and of the two principal industries utilizing the forest resources, and shows the value of the forests as a source of wealth. It is estimated that in the further manufacture of wood and paper into such products as sash, doors, furniture, caskets and paper goods, at least \$75,000,000 is added to the value of these products.

QUANTITIES AND VALUES OF CHIEF FOREST PRODUCTS IN CANADA, 1980.

Item.	Quantity.	Value of Product.	Number of Persons Employed.
Lumber Industry— Lumber	2,497,553 228,050 1,453,277	\$ 46, 136, 340 576, 080 3, 331, 229 50, 043, 649	22,36
Pulp and Paper Industry— Paper manufactured tons Pulp exported " Totals	2,926,787 760,320	173,626,383 39,059,979 212,666,362	33,207
Woods Operations— Logs and timber exported. Mft. b.m. Pulpwood exported cords Polee. pcs. Mining timber cu. ft. Posts. pas. Fence rails. " Railway ties. " Fuelwood cords Distilled wood. " Miscellaneous. "	386,446 1,330,466 1,258,437 5,301,468 16,185,480 5,753,810 7,417,629 10,148,960 38,639 5,753,810	5,744,391 13,611,617 6,733,259 885,343 1,585,985 624,968 5,038,899 43,786,064 335,330 624,968	
TotalGrand Total		78,970,824 341,700,885	

Subsection 2.—The Pulp and Paper Industry.

The manufacture of pulp and paper is a comparatively recent development in Canadian industry. Paper was first manufactured in Canada about a hundred years ago but prior to 1860 no wood-pulp was used or produced. Rags, straw, esparto grass, cotton waste and other substances were the raw materials used. The first paper-mill was established at St. Andrews in Quebec (then Lower Canada) in 1803 by a party of Americans who obtained concessions from the seigneurs. Upper Canada's first mill, which is still in operation, was built in 1813 at Crook's Hollow (now Greensville) near Hamilton, and the Maritime Provinces entered the industry in 1819 with a mill at Bedford Basin near Halifax.

In 1866, Alexander Buntin installed at Valleyfield, Quebec, what is claimed to have been the first wood grinder in America and began the manufacture of woodpulp by the mechanical process. During the same year Angus Logan and Co. built the first chemical wood-pulp mill in Canada at Windsor Mills in Quebec. During the next decade the use of wood-pulp in paper-making was extensively developed and in 1887 Charles Riordon installed the first sulphite mill in Canada at Merritton in the Niagara Peninsula; by the beginning of the century the output of the industry had exceeded \$8,000,000. In 1907 the Brompton Pulp and Paper Co. built, at East Angus in Quebec, the first mill in America to manufacture chemical pulp by the sulphate or kraft process.

The gross output of the industry increased rapidly and steadily until the boom years following the Great War, when it jumped to a peak of over \$232,000,000 in 1920. This was followed by a drop in 1921, following which there was a steady recovery, resulting in a total for 1929 of \$243,970,761 exceeding the abnormally high total value reported in 1920. There was a decrease of 11.6 p.c. in 1930 and of 19 p.c. in 1931.

The rapid development of this industry was due chiefly to the existence in Canada of abundant water powers adjacent to extensive forest resources of pulpwood species. Summary statistics for the combined pulp and paper industry are given on p. 304.

There are to-day three classes of mills in the industry. These in 1931 numbered 32 mills making pulp only, 43 combined pulp and paper-mills, and 28 mills making paper only. The present tendency is toward the merging of individual companies into a comparatively small number of large groups.

The industry in Canada includes three forms of industrial activity, the operations in the woods with pulpwood as a product, the manufacture of pulp and the manufacture of paper. These three stages cannot be treated as entirely distinct nor can they be separated from the different stages of the lumber industry. Some of the important pulp companies operate sawmills to utilize the larger timber on their limits to the best advantage, and many lumber manufacturers divert a proportion of their spruce and balsam logs to pulp-mills. So far as operations in the woods are concerned, it is often impossible to state whether the timber being cut will eventually be made into lumber or into pulpwood.

On account of legislation already referred to, pulpwood cut on Crown lands must, in every province, be manufactured into pulp in Canadian pulp-mills. The pulpwood which is exported to the United States is cut from private lands. Table 5 shows the annual production of this commodity from 1920 to 1931, together with the quantities used by Canadian pulp-mills and the quantities exported. For figures for the years 1908 to 1919 inclusive, see the 1931 Year Book, p. 288.

V	Apparent Total Production of Pulpwood in Canada.		Canadian Pulpwood Used in Canadian Pulp-mills.		Expo	Pulpwood orted actured,1	Imported Pulp- wood Used in Canada.		
Year.	Quantity.	Total Value.	Average Value per cord.	Quantity.	Per cent of Total Produc- tion.	Quantity.	Per cent of Total Produc- tion.	Quan- tity.	Per cent of Total Produc- tion.
	cords.	\$	\$	cords.	p.e.	cords.	p.c.	eords.	p.c.
1920 1921 1922 1923 1924 1924 1925 1926 1927 1928 1928 1929 1930	4,024,826 3,273,131 3,923,940 4,654,663 4,647,201 5,621,305 5,929,466 6,295,912 6,536,335 5,977,183 5,046,291	61,183,060 52,900,872 50,735,361 57,119,596 57,777,640 62,181,537 68,100,303 70,284,895 74,587,833 76,120,063 67,529,612 51,973,243	16 · 16 12 · 93 12 · 27 12 · 43 12 · 23 12 · 14 11 · 85 11 · 85	2,180,578 2,912,608 3,270,433 3,316,951 3,668,959 4,229,567 4,387,687 4,763,646 5,241,340 4,646,717	86.6 74.2 70.3 71.4 72.0 75.2 74.0 78.2 77.7	1,092,553 1,011,332 1,384,230 1,330,250 1,423,502 1,391,738 1,541,769 1,532,260 1,294,995 1,330,466	33.4 25.8 29.7 28.6 28.0 24.8 26.0 24.3 19.8	No. Rep. 32,674 37,082 94,632	0.7 1.6

5.—Production, Consumption, Export and Import of Pulpwood, calendar years 1920-31.

In 1908 almost two-thirds of the pulpwood cut in Canada was exported in the raw or unmanufactured form but by 1916 the proportion had declined to two-fifths. In 1931 the proportion exported was less than a fifth.

The manufacture of pulp is the second stage in this industry. This is carried on by mills producing pulp alone and also by paper manufacturers operating pulp-mills in conjunction with paper-mills to provide their own raw material. Such mills usually manufacture a surplus of pulp for sale in Canada or for export.

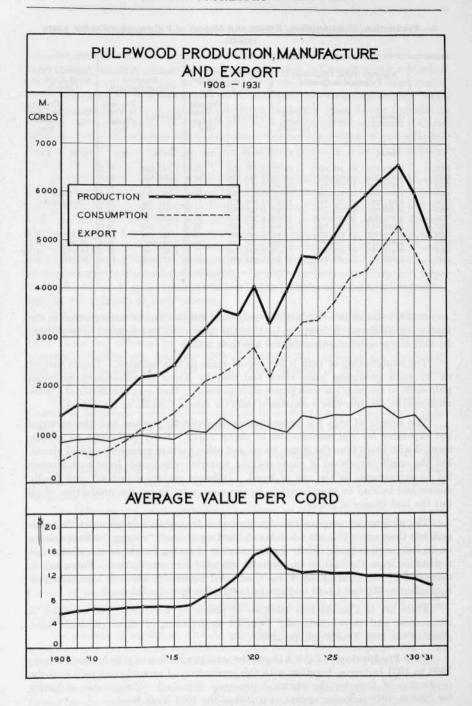
The supply of rags for paper-making is distinctly limited and the material too expensive for the manufacture of cheap paper. Early paper-makers experimented with fibres from the stems, leaves and other parts of numerous annual plants, but the small proportion of paper-making material recoverable from such sources led to experiments in the use of wood. Different species were tried, and finally spruce and balsam fir were found to be the most suitable for the production of all but the best classes of paper.

The preliminary preparation of pulpwood is frequently carried on at the pulpmill, but there are in Canada a number of "cutting-up" and "rossing" mills operating on an independent basis, chiefly for the purpose of saving freight on material cut at a distance from the mill or on material intended for exportation. Pulpwood is measured by the cord (4' by 4' by 8' of piled material), which is approximately equivalent to 500 feet board measure or to 90 cubic feet of solid wood.

There are in Canada four methods of preparing wood-pulp, one of which is mechanical and three chemical. Detailed descriptions of these processes were given in the 1931 Year Book, pp. 290-1.

Pulp Production.—Table 6 shows the total production of pulp in Canada from 1920 to 1931 inclusive, together with the production of groundwood pulp and the production of fibre by the chemical processes described. Comparable statistics for 1908 to 1919 inclusive appear at p. 293 of the 1931 Year Book.

¹ Exports of pulpwood in the calendar year 1932 were 529,019 cords.



	Total Pr	roduction.1	Mechani	ical Pulp.	Chemical Fibre.		
Year.	Quantity. Value.		Quantity.	Value.	Quantity.	Value.	
1920 1921 1922 1923 1924 1924 1925 1925 1927 1927 1928 1929 1930	1,960,102 1,549,082 2,150,251 2,475,904	141,552,862 78,338,278 84,947,598 99,073,203 90,323,972 100,216,383 115,154,199 114,442,550 121,184,214 129,033,154 112,355,872 84,780,609	1,090,114 931,560 1,241,185 1,419,547 1,427,782 1,621,917 1,901,268 1,922,124 2,127,699 2,420,774 2,283,734 2,016,480	49,890,337 32,313,848 31,079,429 37,587,379 36,166,901 39,130,117 44,800,257 44,174,811 47,549,324 51,617,360 48,317,494 37,096,768	848,528 612,467 897,533 1,012,092 986,242 1,084,992 1,125,178 1,278,572 1,392,755 1,501,273 1,265,057 1,151,480	90,053,999 45,929,513 53,615,692 60,674,518 53,313,823 59,969,673 69,220,427 69,169,002 72,500,188 76,198,051 63,156,351 47,684,041	

6.—Pulp Production, Mechanical and Chemical, calendar years 192)-31.

The growth of this industry was steady up to 1920, when 1,960,102 tons of pulp were produced. There was a drop in production in 1921, but production in 1922 more than overtook the previous year's drop. Since then, with the exception of 1924, each year up to 1929 showed consistent growth in the annual production, 1929 creating a record for the industry with a production of 4,021,229 tons. The 1931 figure of 3,167,960 tons marks a decrease of 12 p.c. from 1930.

During 1931 there were 32 mills manufacturing pulp only and 43 combined pulp and paper-mills. These 75 establishments turned out 3,167,960 tons of pulp, valued at \$84,780,809, as compared with 3,619,345 tons of pulp, valued at \$112,-355,872 in 1930. Of the 1931 total for pulp 2,423,300 tons, valued at \$54,004,119, were made in the combined pulp and paper-mills for their own use in manufacturing paper. Of the remainder, 94,172 tons, valued at \$3,864,000, were made for sale in Canada, while 650,488 tons, valued at \$26,912,690, were made for export. As in the case of pulpwood, a part of the product at this stage of the industry provides raw material for the later stages, while the remainder has a definite market value as pulp.

Over 63 p.c. of the production in 1931 was groundwood pulp and over 20 p.c. unbleached sulphite fibre, these two being the principal components of newsprint paper. Bleached sulphite, sulphate and soda fibre made up the remainder, with screenings, for which a considerable market has developed in recent years in connection with the manufacture of rigid insulating boards. Table 7 shows the production of pulp by provinces in the last six years.

7.—Production of Wood-Pulp in Canada, by Chief Producing Provinces, 1926-31.

Year.	Qu	ebec.	Ont	tario.	Canada.1		
rear.	Quantity.	Value.	Quantity.	Value.	Value. Quantity.		
	tons.	tons.		\$	tons.	*	
1926. 1927. 1928. 1929. 1930.	1,672,339 1,749,965 2,018,566 2,174,806 1,833,000 1,513,688	69,286,498 58,703,067	1,007,118 1,050,335 1,255,010 1,043,559	31,463,873	3,278,978 3,608,045 4,021,229	114,442,550 121,184,214 129,033,154 112,355,872	

¹ Includes production in British Columbia, Manitoba, New Brunswick and Nova Scotia.

[?] These totals include some unspecified pulp and screenings.

Pulp Exportation.—The following table gives the quantities of pulp exported by the principal pulp-producing countries of the world in 1931. Figures for 1913, the year immediately preceding the War, and for 1930 are shown for comparison. Figures of the exports of wood-pulp from Canada in the fiscal years ended Mar. 31, 1929-32, will be found in Table 12 of the chapter on External Trade. In the calendar year 1932 the exports of wood-pulp from Canada were 452,293 tons.

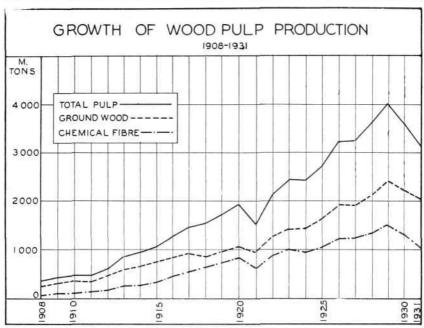
The total exports of the eleven principal pulp-exporting countries of the world in 1931 were 5,058,446 short tons, of which Canada contributed about 12 p.c.

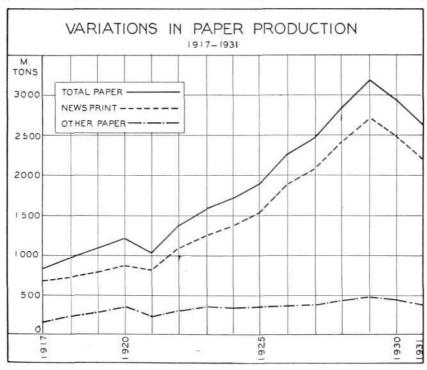
8.—Exports of Wood-Pulp from Principal Wood-Pulp Producing Countries of the World, calendar years 1913, 1930 and 1931.

		Year	s ended Dec.	31—	
Constant	1913.	1930.	1931.	Proportion, 1931.	
Country.	Total Wood- Pulp.	Total Wood- Pulp,	Total Wood- Pulp.	Chemical.	Mechanical
	tons.	tons.	tons.	tons.	tons.
Sweden	1,112,313	2,073,072	2,000,778	1,455,653	545,125
Finland	132,674	869,864	1,061,603	775,232	286,372
Norway	779,025	939,723	716, 119	145,393	570,726
Canada	298,169	760,221	622,537	452,527	169, 610
Germany	206,042	322,414	316,062	307,964	8,098
Austria	112,714	128,786	133,411	115,988	17,422
Czechoslovakia	23,935	112,181	128,736	128,736	
United States	19.776	48,426	53,307	51,227	2,080
Poland		13,245	17,330	17,330	ļ
Switzerland	, 7,328	8,769	8,563	5,890	2,673
Newfoundland,	57,165				
Totals, Eleven Principal Countries.	2,749,141	5,276,701	5,058,446	3,456,340	1,402,166

Paper Production.—The paper-making stage of the industry involves the consumption of wood-pulp and other paper stock in the manufacture of paper and other pulp products. Accurate annual statistics for this part of the industry are available only for the years 1917 to 1931 inclusive. These are given in Table 9.

During 1931 there were 43 combined pulp and paper-mills and 28 mills making paper only. These 71 establishments produced 2,611,225 tons of paper, together with certain miscellaneous pulp products, with a total value of \$143,957,264, as compared to 2,926,787 tons, valued at \$173,626,383 in 1930. Newsprint paper forms about 85 p.c. of the annual paper production in Canada. In 1931, the production of newsprint paper was 2,227,052 tons, valued at \$111,419,637, reaffirming Canada in the position of largest producer of newsprint in the world. The preliminary estimate for 1932 is 1,907,566 tons.





5.—Summary of Paper Production in Canada, calendar years 1917-31.

Year.	Newspri	int Paper.	Book and W	riting Paper.	Wrapping Paper.		
ı ear,	Quantity. Value.		Quantity.	Value.	Quantity.	Value.	
	tons.	\$	tons.	\$	tons.	\$	
17	689,847	38,868,084	48,141	9,310,188	50,360	5,646,75	
18	734,783	46,230,814	48,150	10,732,807	61,180	7,341,37	
19 <i></i> .	794,567	54,427,879	58,228	12,571,000	59,697	7,979,41	
20,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	875,696	80,865,271	73,196	21,868,807	77,292	12,161,30	
21,,	805,114	78,784.598	53,530	12,550,520	52,898	6,634,21	
22	1,081,364	75,971,327	64,808	12,500,504	81,793	8,219,84	
23	1,251,541	93,213,340	76,789	13,582,135	84,912	7,666,1	
2 4 .	1,388,081	100, 276, 903	67,934	12,605,623	89,441	8,027.9	
25,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.536.523	106, 268, 641	74,724	13,145,407	91,417	8, 130, 1	
26,	1,889,208	121,064,946	80,403	14,765,725	97,057	8.552.4	
27	2.082,830	132.286.729	75.072	12,916,469	102,707	9.607.8	
28	2,414,393	144,146,632	79,138	14,008,406	111.667	10,424,2	
29	2,725,331	150,800,157	73,502	13,636,562	91,374	9.725.8	
30	2.497.952	136, 181, 883	69.468	12,261,659	78,320	7.880.2	
31	2,227,052	111,419,637	59,580	10, 154, 171	77, 194	7,479.9	

Year.	Воз	ords.	Other Prod		Totals, Paper,		
	Quantity.	Value.	Quantity,	Value.	Quantity.	Value.	
	tons,	\$	tons.	\$	tons.	\$	
1917	54,080	3,543,164	11,261	1,382,205	853,689	58,855,258	
1918	87,749	5,551,409	35,862	3,267,142 3,882,500	967,724 1,090,235	73,123,544 87,752,843	
1919	137.678	8,892,046	49,065			132.022.767	
1920	158,041	12,904,662	30,726	4,222,724	1.214,951		
1921	89,120	6,225,948	18,285	2,358,658	1,018,947	106,553,935	
1922	113,200	7,000,081	25,650	2,508,325	1.366,815	106, 260, 078	
1923	130.582	8,480,233	45,479	4,242,488	1.589.303	127, 184, 370	
1924	135,252	8,228,760	38,033	4,180,293	1,718,741	133,319,497	
1925		8,378,621	37,395	4.237.904	1.884.705	140.169.675	
1926,	155,469	8,825,804	44,006	4.973.352	2.266.143	158, 277, 078	
1927	161,497	8.985.788	46.585	4.433.926	2,468,691	168, 445, 548	
1928	193,061	10,656,200	50,940	5.069.950	2,849,199	184,305,405	
	250.061	13,539,645	56.881	5,287,012	3,197,149	192.989.252	
1929		12, 193, 829	47.830	4.785.279	2.926.787	173,626,383	
1930	233,217					143, 957, 264	
1931	202,854	10,225,732	44,545	4,350,356	2,611,225	143, 937, 204	

Newsprint made up about 85 p.c. of the total paper production in 1931, with nearly 8 p.c. of paper boards, 3 p.c. of wrapping paper, over 2.3 p.c. of book and writing paper and nearly 1.7 p.c. of other miscellaneous papers.

10 .- Production of Paper in Canada, by Provinces, 1931.

Province.	Quantity.	Value.
Quebeo	tons. 1,275,105 792,011 244,397 299,712	\$ 71,385,954 45,535,894 12,182,112 14,853,304
Totals	· — —	143,957,264

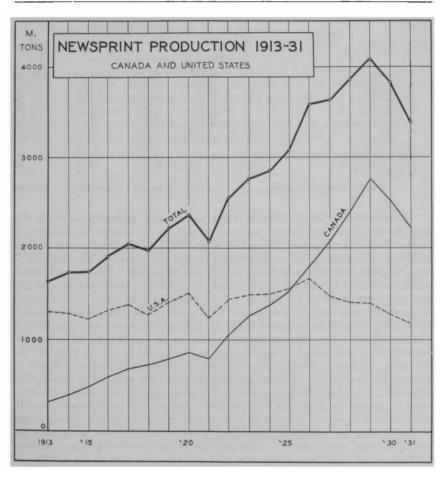
Quebec produced 49 p.c. of the total quantity, Ontario 30 p.c., British Columbia 9 p.c. and Nova Scotia, New Brunswick and Manitoba the remainder.

World Production of Newsprint.—The world production of newsprint in 1931 has been estimated at 6,622,000 short tons, of which North America supplied over 55 p.c. and Canada alone over a third. The estimated production in the leading 23 countries, compared with 1930, and the five-year average 1927-31, was as follows:—

11.—Estimated Quantities of Newsprint Produced in 23 Leading Countries, 1939 and 1931, and the Five-Year Averages, 1927-31.

Norz.—Countries by order of importance according to five-year average, 1927-31.

G	Production.		Five-	Country.	Produ	Five-	
Country.	1930.	1931.	A verage.	Country.	1930.	1931.	year Average.
14	tons	tons.	tons.		tons.	tons.	tons.
Canada	2,504,000	2,221,000	2,384,000	Italy	69,000	69,000	55,000
United States	1,282,000	1,157.000	1,344,000	Russia	90,000	100,000	51,000
Great Britain	608,000	719,000	645,000	Belgium	50,000	44,000	50,000
Germany	590,000	540,000	584,000	Switzerland	47,000	49,000	45,000
Japan	285,000	258,000	268,000	Czechoslovakia	44,000	42,000	44,000
Newfoundland	287,000	295,000	254,000	Spain	32,000	62,000	35,000
Sweden	240,000	265,000	251,000	Poland	27,000	27,000	23,000
Finland	223,000	241,000	219,000	Estonia	29,000	17,000	23,000
France	240,000	243,000	190,000	Mexico	14,000	15,000	16,000
Norway	202,000	104,000	177,000	Denmark	10.000	10,000	13,000
Netherlands	84,000	79,000	79,000	Latvia	4,000	3,000	3,000
Austria	64,000	62,000	59,000			150.00	
		SMECHING.	F08/18/50	Totals	7,025,000	6,622,000	6,812,000



Exportation of Newsprint Paper.—In the fiscal year 1908, exports of printing paper were for the first time separately recorded, and valued at \$2,833,535. In the fiscal year 1913, when quantities were first shown, Canada exported 256,661 short tons valued at \$9,980,378. In 1931 our exports of newsprint amounted to 2,008,241 tons valued at \$107,233,112 and ranked second only to wheat among the exports of the Dominion. For exports of newsprint and other paper in the fiscal years ended Mar. 31, 1929-32, see Table 12 of the chapter on External Trade.

As early as 1913 Canada led the world in the exportation of newsprint, and since that date her exports have increased almost eight-fold in quantity. The following table shows the exportation of newsprint from the 13 principal exporting countries in 1913, 1929, 1930 and 1931. Canada contributed to the total over 61 p.c. or more than all the other 12 countries combined in 1931. Canada's exports of newsprint paper for the calendar year 1932 were 1,276,764 tons.

12.—Exports of Newsprint Paper from Principal Paper-Producing Countries of the World, 1913, 1929, 1939 and 1931.

Rank	Country.	Year ended Dec. 31—						
in 1931.	Country.	1913.	1929.	1930.	1931.			
_		tons.	tons.	tons.	tons.			
1 2 3 4 5 6 7 8 9	Canada Newfoundland Germany Finland Sweden Norway United Kingdom Japan Austria Notherlands	256, 661 49, 755 75, 761 77, 213 67, 938 108, 507 105, 153 3, 270 14, 855	2,515,495 243,923 254,395 191,395 217,682 189,210 107,673 57,658 54,000 32,019	2, 332, 510 279, 482 203, 527 206, 970 193, 022 188, 624 88, 377 72, 530 58, 492 35, 327	2,088,241 299,511 229,238 210,350 201,834 96,539 66,340 61,823 59,729 28,713			
11 12 13	United States Czechoslovakia. Switzerland.	43,301	18,696 13,105 10,594	10, 204 10, 026 9, 638	9,652 8,648 3,678			
	Totals, Principal Countries	902,426	3,505,786	3,689,229	3,284,288			

Note.—Countries arranged in order of importance of exports, 1931.

Statistics of the Combined Pulp and Paper Industries.—While the manufacture of pulp and that of paper are properly two industries, the existence of combined pulp and paper-mills makes it impossible to separate many of their statistics. Considering the manufacturing part of the industry as a whole, there were altogether 103 mills in operation in 1931 and 109 in 1930. The capital invested in 1931 amounted to \$630,176,540, the employees numbered 26,669 and their salaries and wages amounted to \$34,792,113. If we disregard pulp made "for own use" in combined pulp and paper-mills, the total value of the raw materials used in the industry as a whole amounted to \$63,947,678 and the gross value of production to \$174,733,954. The difference between these two, or the net value of production, represents the value added by manufacture and amounted in 1931 to \$110,786,276. The pulp and paper industry, now the leading single manufacturing industry in Canada, has been first in wages and salaries paid since 1922, when it first exceeded the sawmills. It has been the leading industry in gross value of production since 1925, when it replaced the flour mills, and also first in net value of production since 1920, when it outstripped the sawmills in this respect. Only the manufacturing stages of the industry are considered in these comparisons, no allowance being made for capital invested, men employed, wages paid nor primary products sold in connection with the woods operations which form such an important part of the industry as

a whole but cannot be separated from woods operations carried on in connection with sawmills and other industries. If the \$9,359,592 worth of exported pulpwood be taken into consideration, the gross total contribution of the pulp and paper industry toward a favourable trade balance for Canada in 1931 amounted to \$139,844,299, representing the difference between exports and imports of pulpwood, pulp, paper and paper products.

The United States market absorbs annually all of Canada's pulpwood exports, about 79 p.c. of her pulp and 85 p.c. of her paper shipments. The remainder goes to the United Kingdom and other widely distributed overseas markets. About half of the paper consumed in the United States is either of Canadian manufacture or is made from wood or wood-pulp imported from Canada.

Subsection 3.—The Lumber Industry.

The manufacture of lumber, lath, shingles and other products of the sawmill is the second most important industry in Canada depending on the forest for its raw materials. Annual statistics covering this and other forest industries were collected and published by the Forest Service of the Department of the Interior from 1908 to 1916, since when the work has been carried on by the Dominion Bureau of Statistics, in co-operation with the Forest Service.

The production of sawn lumber in Canada in 1920 reached a total of over four billion feet board measure, the highest cut recorded since 1912. Owing to the subsequent depression the production of lumber in 1921 decreased by over a third and the average value by over \$10 a thousand feet. Since that year there have been annual increases in cut for Canada as a whole except in 1927, 1930 and 1931. British Columbia now produces over half the total. Table 13 gives the production of lumber, lath and shingles in each year from 1920 to 1931; comparable figures for 1908 to 1919 inclusive are given at p. 300 of the 1931 Year Book.

13.—Quantities and Values of Lumber, Lath and Shingles Produced in Canada, calendar years 1920-31.

Year.	Lumber Cut.		Shingle	s Cut.	Lath Cut.	
1 ear,	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	M ft. b.m.	\$	М	;	M	\$
920 921 922 923 924 925 925 927 927	4,298,804 2,869,307 3,138,598 3,728,445 3,878,942 3,888,920 4,185,140 4,098,081 4,337,253 4,741,941	84,554,172 108,290,542 104,444,622 99,725,519 101,071,260 97,508,786	2,855,706 2,986,580 2,506,956 2,718,850 3,129,501 3,156,261 3,299,397 2,837,261 2,865,994 2,707,235	14,695,159 10,727,096 10,397,080 9,617,114 10,406,293 11,154,773 10,521,723 8,716,085 10,321,341 9,423,363	762,031 804,449 1,031,420 1,153,735 1,165,819 1,292,963 1,378,366 1,322,665 1,138,417 835,799	5,248,87 4,188,12 5,660,32 6,324,74 5,975,25 6,415,92 6,527,06 5,603,30 4,802,61 2,860,79
930 931	3,989,421 2,497,553	87,710,957	1,914,836 1,453,277	5,388,837 3,331,229	398,254 228,050	1,154,5 576,0

The total number of sawmills, tie, shingle, lath, veneer, stave, heading and hoop mills, and mills for cutting-up and barking or rossing of pulpwood operating in 1931 was 3,562, as compared with 3,531 in 1930. The capital invested in these mills in 1931 was \$121,336,176, the employees numbered 22,361 and their wages and salaries amounted to \$16,409,674. The logs, bolts and other raw materials of the industry were valued at \$37,379,034 and the gross value of production was \$62,927,750. The net production, or the value added by manufacture, in 1931 was \$25,548,716.

The production of sawn lumber decreased in quantity from 1930 to 1931 by 37·4 p.c. Lath production decreased by 42·7 p.c., and shingle production by 24·1 p.c. Decreases were reported in the production of all but a few of the minor products. The total gross value of production decreased from \$121,142,985 in 1930 to \$62,927,750 in 1931; for production by provinces for the latter year see Table 14.

14.—Quantity and Value of Lumber and Value of Other Sawmill Products Made in Canada, by Provinces, 1931.

Province.	Lumber Production.		Other Sawmill Products.	Total.
	Quantity.	Value.	Value.	Value.
	M [t. b.m.		\$	\$
Prince Edward Island. Nova Scotia. Nova Scotia. New Brunswick. Quebec. Ontario Manitoba. Saskatchewan. Alberta. British Columbia.	103,816 130,412 399,581 417,959 29,654 18,416	101, 177 1,645,244 2,445,087 8,778,618 10,855,605 511,703 320,953 756,810 20,721,143	14,287 815,509 1,089,355 6,554,576 1,934,079 35,884 14,058 64,818 6,268,844	115,464 2,460,753 3,534,442 15,333,194 12,788,684 547,587 335,011 821,628 26,989,987
Tetals	2,497,553	46, 136, 340	16,791,410	62,927,750

British Columbia comes first in total production, contributing 53·7 p.c. of the total cut in lumber and 80·1 p.c. of the shingles. Quebec comes second in total production, Ontario third and New Brunswick fourth. Douglas fir was the most important kind of lumber sawn, being produced almost entirely in British Columbia. Spruce is sawn in every province and comes second, with white pine, hemlock and yellow birch next in order of importance. Cedar is the most important shingle wood sawn. The conifers usually form about 95 p.c. of the total cut of all kinds of wood in this industry, only 5 p.c. being deciduous-leaved trees or hardwoods.

Lumber Exportation.—The square timber trade reached its maximum development in the '60's, thereafter declined gradually and has now almost entirely disappeared. Simultaneously with its decline came the increased exportation of deals and other sawn lumber, first to Great Britain and later to the United States. Our trade with the latter country has been from the first largely confined to planks, boards and dimension stock. During the American Civil War our exports of forest products of all kinds to the United States for the first time exceeded those to Great Britain, but in late years this has become invariable. The total quantity of sawn lumber exported from Canada changed little during the first 30 years of the century, averaging about two billion feet board measure per annum. The exports in 1931 amounted to 937,733 feet board measure, valued at \$20,116,020, of which the United States took the greater part. The exports of lumber, lath and shingles decreased in 1931 as compared with 1930.

Subsection 4.—Summary of Primary Forest Production.

For the purpose of comparing primary industries such as agriculture, fishing, forestry and mining, forestry production is here understood to consist of the total value of the products of woods operations, together with the value added by manufacture in sawmills and pulp-mills, but not in paper-mills. Forestry production

under this system of classification, amounted to \$303,145,169 in 1930 or about 20 p.c. of the total primary production for the Dominion, which was estimated at \$1,525,528,806. Forest production, therefore, stood in second place in this respect, being exceeded by agriculture with \$758,791,743 or 50 p.c. and followed by mining, with \$279,873,578 or 18 p.c.

Subsection 5.—Other Forest Industries.

Sawmills and pulp-mills draw their raw material directly from the forest in the form of logs and pulpwood, and produce sawn lumber, other sawmill products and pulp and paper. There are also a number of important industries which use these products as raw material for further manufacture. Some of them produce commodities made almost entirely of wood, wood-pulp or paper, others manufacture articles in which wood is the most important component, and others produce articles in which wood is necessary but forms only a small proportion of the value. There are, in addition, a number of industries which use wood indirectly in the manufacture of articles which do not contain wood as a component part. The first class includes the manufacture of paper, sash, doors and other millwork and planing-mill products; boxes, baskets, cooperage and other containers; canoes, boats and small vessels; kitchen, bakers' and dairy woodenware; wooden pumps. piping, tanks and silos; spools, handles, dowels and turnery. The second class includes the manufacture of furniture, vehicles and vehicle supplies, coffins and caskets, etc., and the use of paper in printing and the manufacture of paper boxes, bags, stationery and paper goods. The third class, where wood has a secondary importance, includes the manufacture of agricultural implements, railway rolling stock, musical instruments, brooms and brushes, etc. The fourth class can be said to include practically every form of industrial activity, as few, if any, of these are entirely independent of the use of wood, directly or indirectly.

Subsection 6.-Manufactures of Wood and Paper.

A classification based on the chief component material in the products of each manufacturing establishment is now largely used in comparing manufacturing industries and for external trade purposes. Under this system most of the forest industries fall in the wood and paper group. In 1931 the gross value of production for all classes of manufactured products amounted to \$2,698,461,862 of which total the wood and paper group contributed \$484,237,930 or nearly 18 p.c. It was exceeded in this respect by the vegetable products with nearly 20 p.c. Of the ten groups of the industrial census the wood and paper group, which includes the manufacture of lumber, pulp and paper as well as the wood- and paper-using industries, was highest in number of establishments with 7,767, in capital invested with \$1,053,064,435 in total number of employees with 121,672, and in salary and wage distribution with \$140,349,106.

In few industries did manufacture add, in 1931, a higher percentage to the raw material used than in the wood- and paper-using industries; in the manufacture of pulp and paper this percentage is 173 and in the lumber industry, 68. By the manufacture of lumber into planing-mill products its value is increased by 91 p.c. For the wood and paper group as a whole the net value of production, or the value added by manufacture, in 1931 was \$291,858,015, or 152 p.c. of the value of raw materials used. In respect also of the net value of production the wood and paper group of industries surpasses any other group of manufactures. Further details are given in the Manufactures chapter of the present volume.

The forests of Canada contribute an important part to her export trade. During the fiscal year ended Mar. 31, 1932, exports of forest origin amounted to \$175,740,269 and made up 30.4 p.c. of the total value of exports for the period, amounting to \$576,344,302. Exports of forest origin were exceeded only by those of farm origin, which made up 35.4 p.c. of the total and were followed by products of mineral origin with 17 p.c. Forest products are also prominent among the individual items of exportation. Newsprint paper is second only to wheat on the list, with wood pulp third and sawn lumber sixth. The gross contribution of the forest toward a favourable trade balance for Canada amounted to \$144,054,459 during the same period, exceeding all other groups in this respect.

Subsection 7.—Forest Depletion and Increment.

Fire Losses.—No accurate summing up of forest fire losses in Canada's forests has ever been made, but it has been estimated that 60 p.c. of the original forest has been burned, 13 p.c. has been cut for use and 27 p.c. remains. Though the loss of merchantable timber has been greatly reduced in recent years by forest protective services and the education of the public, it still constitutes a serious drain on our resources. At a low estimate fire destroys annually about 230,000,000 cubic feet of merchantable timber and the young growth on 550,000 acres.

Since the historic Miramichi fire, which burned along the valley of the Miramichi river in New Brunswick in 1825, there have been a number of disastrous forest fires. About 1845 vast areas, west of lake Superior, were burned over. Some years later a very extensive fire burned along the height of land from lake Timiskaming to Michipicoten. In 1871 a fierce fire swept over more than 2,000 square miles of forest from lake Nipissing westward along the north shore of Georgian bay. About the same time the greater part of the Saguenay and Lake St. John district, in Quebec, was swept by one of the most destructive fires on record. Two other fires in 1891 and 1896 devastated more than 2,000 square miles of country in the southern Algoma district; in Quebec, the country along the line of the Quebec and Lake St. John Railway also suffered by a number of disastrous forest fires about this time.

During more recent times a series of disastrous fires swept over northern Ontario. A number of isolated fires around the mining camp of Porcupine culminated, on July 11, 1911, in a conflagration which resulted in the loss of 72 lives and property damage estimated at \$3,000,000. In 1916, fires in the same general region were responsible for the deaths of at least 224 people. In 1922 a third fire destroyed the town of Haileybury and other centres. In 1908, a fire originating in the forest around Fernie, B.C., destroyed that city. Every year thousands of acres are devastated by fires of less individual importance, which in the aggregate are rapidly depleting our forest resources. In 1923 there were unusually disastrous fires, chiefly in Eastern Canada. A total area of over 6,000,000 acres was burned over with a loss of approximately \$46,000,000.

Speaking generally, there are annually two periods in Canada when the forest fire hazard is highest—in the spring, after the disappearance of the snow, when the forest floor is dry and the green underbrush has not yet developed, and again in the fall when the herbaceous growth is dead and the ground covered with dry leaves.

Statistics compiled by the Dominion Forest Service from reports received from the various provincial and private forest protective organizations, show that during the last ten years—from 1922 to 1931—86.5 p.c. of all fires reported were due to

human agencies and were therefore preventable. The remainder were attributed to lightning. Campers, settlers and railways are responsible for most of the fires whose origin is determined. Other causes, including lumbering operations, lightning and incendiarism, account for smaller proportions.

Losses through Insects and Fungi.—From 1912 to 1923 the spruce budworm caused tremendous damage to the spruce and balsam fir forests in Eastern Canada. In Quebec it was estimated that 100 million cords of pulpwood were destroyed by this insect, and in New Brunswick the loss was placed at 15 million cords. In this region the active stage of the infestation is now practically over, but the insect is causing damage in northern Ontario and Cape Breton island. Other insects, though not as destructive as this one, entail a heavy drain on the forest. The hemlock looper and a new species closely related to the spruce bud-worm are causing considerable damage in eastern coniferous forests. During the last few years dusting by aeroplane has been developed on a practical basis by the Entomological Branch of the Department of Agriculture and promises to be effective in the control of defoliating insects. The loss caused by the various forms of rot and other fungous diseases is probably not less than that caused by insects under normal conditions. The butt rot is especially prevalent in balsam fir, and the value of the hardwoods is also greatly decreased by rot.

Summary of Losses and Increment.—The annual consumption of standing timber for use amounts to about 2,970,000,000 cubic feet. During the last few years fire has destroyed annually about 230,000,000 cubic feet of merchantable timber and the young growth of various ages on 550,000 acres. The destruction occasioned by insects, fungi and windfall is not known, but is estimated at 700,-000,000 cubic feet per annum. It may be safely estimated that the forests of Canada are being depleted at the rate of upwards of 3,900,000,000 cubic feet per annum. With about 600,000 square miles of accessible timber in a growing condition, an average annual increment of 10 to 11 cubic feet per acre would be quite possible under forest management and would cover this depletion. In view of the destruction of young growth which occurs and the deterioration of the forests and the soil, caused by repeated fires, there is little hope that this increment is being produced at the present time throughout Canada, although particular areas are producing greatly in excess of this quantity. Extensive reproduction and rate of growth surveys being conducted by the Dominion Forest Service indicate that the increment is greater than previously estimated.

CHAPTER X.—THE FUR TRADE.1

Historical Sketch.—The place which the fur trade held during the French régime in Canada, when for a century and a half it was at once the mainspring of discovery and development and the curse of settled industry, is familiar history. Later, the Hudson's Bay Company may be said with truth to have held the West until the Dominion had grown to absorb it, bequeathing to the civilization which followed a native race accustomed to the white man and an example of organization and discipline that was of lasting value. The salient facts in the story are given in the following paragraphs.

From the earliest times the Basque and Breton fishermen from the "Banks' had traded for furs. As the French court demanded more and more furs, adventurers came for the fur trade exclusively. Pont-Gravé and Chauvin built Tadoussac in 1599 as a centre for this trade with the Indians of the Saguenay and, when trade routes were discovered farther inland, the founding of Quebec and Montreal followed. The French Government from the first granted monopolies of the fur trade, always on the condition that the company should bring to Canada a stated number of settlers. But settlement and the fur trade could never go together—settlement, by driving fur-bearing animals farther afield, made trade increasingly expensive, and the great profits of the fur trade, together with its freedom and romance, took the more adventurous from the rational pursuits of settlers. Trade spread west and south by the river routes, convoys bringing the furs yearly to Montreal and Quebec. The de Caen Company, in the seventeenth century, sent yearly to France from 15,000 to 20,000 pelts. "Beaver" was made the Canadian currency.

In the meantime, English navigators had been seeking a Northwest Passage to the Orient. By 1632 their efforts came to an end with little practical result. Hudson bay, however, had been accurately charted, so that when the first English fur-trading ships came some 30 years later, they sailed by charted routes to a safe harbour. The first expedition came at the instigation of Radisson and Groseilliers, two French coureurs des bois who had travelled in the rich fur country north of lake Superior. They had sought aid in France but, being repulsed, turned to England. The charter of the "Adventurers of England trading into Hudson's Bay" was obtained in 1670 by Prince Rupert, uncle of Charles II, who became first Governor of the company (whence the name Rupert's Land). During the struggle with the French, beginning about 1685, no dividends were paid but with the English victory the company resumed payments. Forts were built on Hudson bay and James bay at the mouths of rivers; the company, as monopolist, waited for the furs to be brought to its posts.

With the Seven Years' War, the fur trade from the south passed out of the hands of the French, and until 1771 the English were busy re-discovering the old French routes to the West. A period of open competition followed. The discoverer of a new fur district was soon followed by competitors who undersold him and were undersold by him until some or all were ruined and left for new fields. The Northwest Company, founded in 1783-4, was a result of such competition. No capital was deposited, but each party supplied a proportion of the articles needed for trade. The Northwest Company pursued a vigorous policy, founding posts to control all the best fur districts. The Hudson's Bay Company felt the keenness of the competition, and was forced to abandon its ancient policy of waiting for furs to be brought to the bay. By 1816 the rivals had absorbed or ruined

^{&#}x27;Revised by Miss F. A. Brown, Chief of the Fur Statistics Branch, Dominion Bureau of Statistics. This Branch publishes a detailed Annual Report on the Production of Raw Furs (Wild Life), obtainable from the Dominion Statistician.

eleven other partnerships and were themselves on the verge of ruin. Finally, in 1821, the two were joined under the name of the older company. The Northwest Company brought with it the control of the Pacific and Arctic watersheds, to be added to the lands draining into Hudson bay, and over the whole region the Hudson's Bay Company secured legal recognition of its monopoly of the fur trade. There followed 40 years of great prosperity. The company's rights of exclusive trading in Indian territory expired in 1859, and ten years later it surrendered its other privileges. In return, Canada granted £300,000 to the company, as well as lands about its trading posts, and one-twentieth of the land in the fertile belt between the North Saskatchewan river and the International Boundary. The Hudson's Bay Company thereupon became a trading company, with no extraordinary privileges.

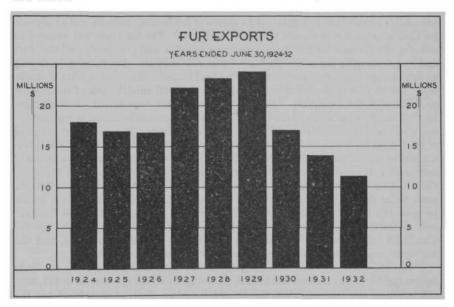
The Modern Industry.—Great changes have come over the fur trade in recent years. The railway has revolutionized conditions wherever its influence reaches. Vessels now ply the larger lakes and rivers and the aeroplane is frequently used in transporting furs from the more inaccessible districts. Competition has increased and new territory is eagerly sought as in the days prior to 1821. Increase in trapping and improved methods of capture, together with the advance of lumbering, mining and agricultural settlement, have driven fur-bearing animals farther and farther afield, and to conserve the fur resources of the country the Provinces have found it necessary to enact laws to regulate the capture of fur-bearing animals and to provide for close seasons during certain periods of each year. The fur trade has assisted in meeting the demand for furs by popularizing common and previously despised furs and by encouraging the use of the furs of domestic animals. Fur farming is playing an increasingly important part in the fur trade of Canada, the value of pelts of ranchbred animals now representing about 26 p.c. of the total annual value of the raw fur production of the Dominion. The fox has proved the best suited for domestication, although other kinds of fur-bearers are being successfully raised in captivitymink, raccoon, skunk, marten, fisher, muskrat and beaver. The successful breeding of the fox on fur farms came in the period of rising prices after 1890 and the introduction of woven wire fencing. About the middle of the last century Persian lamb, astrachan and broadtail, the product of the Karakul sheep, a native of Bokhara, Central Asia, came into general use. A few of these sheep were imported into Canada some years ago, but the industry as a source of supply for pelts has not shown progress in this country. Experiments in the breeding of rabbits for their fur have resulted in the production of several valuable kinds, chief among which are the Chinchilla rabbit, whose fur resembles that of the Bolivian Chinchilla, and the castorrexi, named on account of the likeness of its fur to that of the beaver.

The important markets for Canadian furs are London and New York: the trade figures for the twelve months ended June 30, 1932, show that of the total of \$11,495,-086 worth of raw furs exported, the United Kingdom received \$6,316,529 and the United States, \$3,908,773. At the close of the Great War Montreal took a position as an international fur market, holding the first Canadian fur auction sale in 1920 when 949,565 pelts, valued at \$5,057,114, were sold. The most recent figures show that at the auction sales held in Montreal during 1931 there were 1,381,130 pelts disposed of, with a total value of \$4,731,648. Sales are also held at Winnipeg and Edmonton. An important industry in Canada in connection with the fur trade is that of the dressing and dyeing of furs. In 1931 the number of fur skins treated in Canadian plants was 7,034,498 and the amount received for the work, \$1,571,740. The plants in operation numbered 10.

¹ Castor is the French word for beaver.

Exports.—Though the bison is gone forever and the beaver and the marten are slowly following, the fur trade of Canada is in no immediate danger of extinction. A century ago the value of the export trade in furs exceeded that of any other product. This has been greatly changed, yet the total output has not declined and Canada may be described as one of the great fur preserves of the world. In 1667 exports of furs to France and the West Indies were valued at 550,000 francs. In 1850, the first year for which trade tables of the Province of Canada are available, the value of raw furs exported was £19,395 (\$93,872); for the twelve months ended June 30, 1920, the value was \$20,417,329; for 1925, \$17,131,172; for 1930, \$15,357,386 and for 1931, \$13,544,088. Raw furs to the value of \$11,495,086 were exported during the twelve months ended June 30, 1932, the British market taking \$6,316,529 worth and the United States most of the rest. The chart below shows the fluctuation of fur exports between the seasons 1924 and 1932. The area which will continue to furnish the historic peltries when settlement has planted its furthest outpost will still have to be reckoned by the hundreds of thousands of square miles. It is the function of the fur trade to turn this vast domain to perpetual economic use.

For a review of the fur-farming industry of Canada, see Chapter VIII, pp. 248 to 251.



Conservation.—The conservation of the wild life of Canada has been made a special object of government policy through the organization, in 1916, of the Advisory Board on Wild Life Protection, to co-ordinate the efforts of various Departments and Branches of the Dominion Government in matters relating to the conservation of the wild-life resources of Canada. The Northwest Game Act and the Migratory Birds Convention Act are the most important subjects to which the attention of the Board is specially directed and upon which it makes recommendations. In addition, the Board investigates and studies all problems relating to the protection and better utilization of all fur-bearing animals, "big game" mammals and to bird life, whether game birds, insectivorous birds or others. The Board

serves entirely without remuneration and during the whole period of its existence has incurred no expenditure.

In all provinces and territories of the Dominion, regulations governing the taking of fur-bearing animals are in force, and most kinds are protected during certain seasons of the year. In cases where special protection is necessary to avoid extermination of the species, the killing of the animals is prohibited over a period of years. Licences are required for trapping and trading, and direct revenue is derived by the provinces and territories from raw furs. The activities of the Dominion as a whole, with respect to wild life, are co-ordinated through biennial conferences of provincial and Dominion game protection officials. These conferences are called by the Department of the Interior and have assisted in evolving efficient plans for the preservation of Canada's wild-life resources.

Fur Trade Statistics.—Statistics of the number and value of raw furs and skins taken were collected at the decennial census of 1881 and thereafter till 1911, the figures showing a value of \$987,555 taken in 1880, \$768,983 in 1890, \$899,645 in 1900 and \$1,927,550 in 1910. In 1920 the Dominion Bureau of Statistics commenced the annual collection of returns from fur traders, but arrangements were subsequently made with the provinces whereby the provincial game departments undertook to supply annually to the Bureau statements of the number and value of pelts taken in the respective provinces, the information being based on royalties, export taxes, etc. The figures of pelts taken and their values are given for the available years in Table 1. The high value shown for 1920 is due to the inflated prices of that time.

 Summary of the Numbers and Values of Pelts of Fur-bearing Animals Taken in Canada, years ended June 30, 1928-32.

Year ended June 30.	Pelts.	Value of Pelts.	Year ended June 30.	Pelts,	Value of Pelts.
1920. 1921. 1922. 1923. 1924. 1925.	No. 3,600,004 2,936,407 4,366,790 4,963,996 4,207,593 3,820,326 3,686,148	\$ 21,387,005 10,151,594 17,438,867 16,761,567 15,643,817 15,441,564 15,072,244	1927 1928 1929 1930 1931 1931	No. 4,289,233 3,601,153 5,150,328 3,798,444 4,060,356 4,415,715	\$ 18,804,126 18,758,177 18,745,473 12,158,376 11,681,221 10,156,225

¹ Fur prices in this year were abnormally high. Any comparison of this figure with those of later years should take this into account.

Details by provinces of the numbers of pelts taken in the two latest years are given in Table 2.

 Numbers and Values of Pelts of Fur-bearing Animals Taken in Canada, years ended June 30, 1931 and 1932.

Province.	Numbers	of Pelta.	Values of Pelts.	
rroyace.	1930-31.	1931-32.	1930-31.	1931-32.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Northwest Territories Yukon	16, 331 75, 628 58, 013 383, 108 944, 711 407, 297 614, 238 941, 399 186, 518 371, 281 61, 832	20,696 62,546 74,779 410,900 952,850 577,607 593,486 1,121,728 201,522 341,922 57,679	\$ 760, 764 427, 351 504, 160 2, 106, 108 2, 188, 586 698, 261 1, 132, 718 1, 121, 533 650, 779 1, 945, 737 145, 224	\$ 693,314 403,882 549,329 2,334,262 1,857,397 689,391 1,043,739 877,333 576,102 999,203 132,268
Totals	4,060,356	4,415,715	11,681,221	10, 156, 225

Among the provinces Quebec occupies first place in value of raw fur production, its output in 1931-32 being valued at \$2,334,262. Ontario is second with \$1,857,397, and Saskatchewan third with \$1,043,739. The relation of raw fur production in each province to the total of Canada in 1931-32 is shown by the following percentages: Quebec, 22.98; Ontario, 18.27; Saskatchewan, 10.27; Northwest Territories, 9.83; Alberta, 8.63; Prince Edward Island, 6.82; Manitoba, 6.78; British Columbia, 5.67; New Brunswick, 5.48; Nova Scotia, 3.97; and Yukon, 1.30.

The silver fox occupies first place among the fur producers of Canada, the value of the pelts of this kind in the season 1931-32 representing 30 p.c. of the total raw-fur production. Although the silver fox is of first importance in Canada as a whole, other fur bearers take the lead in some of the provinces. In the Maritime Provinces and Ontario the silver fox is first, in Quebec and the Northwest Territories the white fox leads, in the Prairie Provinces, the muskrat, and in British Columbia and Yukon, the beaver.

The following table gives details of raw-fur production by kinds.

 Kinds, Numbers, Total Values and Average Values of Pelts of Fur-bearing Animals Taken in Canada, years ended June 30, 1931 and 1932.

Kind.	Numbers of Pelts.		Total Value	es of Pelts.	Average Values per Pelt.	
Amu,	1930-31.	1931-32.	1930-31.	1931-32.	1930-31.	1981-32.
Badger. Bear, black and brown. Bear, grizzly Bear, white. Beaver. Coyote or prairie wolf. Ermine (weasel). Fisher or pekan. Fitch. Fox, cross. Fox, red. Fox, silver. Fox, blue. Fox, white. Fox, white. Fox, unspecified. Lynx. Marmot. Marmot. Marmot. Myren or sable. Mink. Muskrat. Otter. Rabbit (Chinchilla). Rabbit (other). Raccoon. Skunk. Squirrel. Wolf. Wolverine or carcajou. Deer. Moose. Panther or cougar. Domestic cat.	8,089 4,634 1 201 51,313 21,190,545,763 3,282 28,671 71,816 1,127 71,877 71,877 411 25,879 97,083 2,639,083 2,639,083 7,999 99,145 17,265 89,186 248,564 404 404 7,063 272 272 272 273 491 183	4,968 2,754 130 64,473 23,542 827,646 2,739 11,333 36,590 107,473 312 8,283 21,778 131,920 2,601,660 8,214 115,901 119,840 113,901 1288,793 800 6,876 536 487 10,404 10,404 114,901 115,901 116,901 117,901 118,901 118,901 118,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 111,901 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 119,840 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Gopher	4,060,356	4,415,715	31 11. \$81,22 1	10.156,225	0.05	

Coyote or prairie wolf pelts for Manitoba are included with wolf pelts.

CHAPTER XI.—THE FISHERIES.1

Section 1.—The Early Fisheries.

Fishing is one of the earliest and most historic industries of Canada. From a date which precedes authentic record, the Normans, the Bretons and the Basques were on the cod banks of Newfoundland. Cabot, in 1498, when he first sighted the mainland of North America, gave it the name of "Bacalaos", the Basque word for cod fish which he found already in use among those hardy seamen. Cane Breton, one of the oldest place-names in America, is another memorial of the early French fishermen—and the Spaniards and the Portuguese were but little behind. Fernandez de Navarrete mentions all three as frequenters of the Grand Bank The fishing was by hand lines over barrels made fast to the bulwarks to prevent fouling, the vessels remaining during fine weather then returning to France with from 30,000 to 50,000 cod. Voyages along the coast soon showed the cod as plentiful inshore as on the outer banks, and it became common for a crew to anchor in a bay, erect a hut on shore, and make daily excursions to the fishing grounds. The product was salted and dried on land and at the end of the season shipped to France. In 1534 Jacques Cartier found traces in the gulf of St. Lawrence of these early "Captains Courageous" and their rivalries in arms, as well as in the capture of the teeming product which had tempted them so far from home. An establishment of the kind just mentioned was founded at Tadoussac by Chauvin in 1599. Soon the fishermen began to stay all winter and thus to erect permanent fishing settlements. Fishing, therefore, may well be regarded as the first industry to be systematically prosecuted by Europeans in what is to-day the Canadian domain. It has never since ceased to yield a perennial harvest to both Europe and America.

By the Treaty of Utrecht in 1713, Britain became the owner of Newfoundland and excluded France from fishing and drying fish on certain sections of the coast, but France retained rights of fishing and of drying fish on other sections of the Newfoundland coast together with the fisheries of Cape Breton and the Gulf. These French rights resulted in the French shore question which remained unsettled for nearly two centuries. The Seven Years' War (1756-63) put a stop to continuous fishing. At its close the Robin family of Jersey came to Canada and gradually acquired the former French fishing stations. Until the arrival of the Loyalists all other fishing but cod was neglected. Inshore fisheries alone (including those of the Labrador coast) were developed during this phase; no deep-sea fishing vessel put out from Lunenburg, now the chief centre of the deep-sea fishery, until 1873.

Section 2.—The Canadian Fishing Grounds.

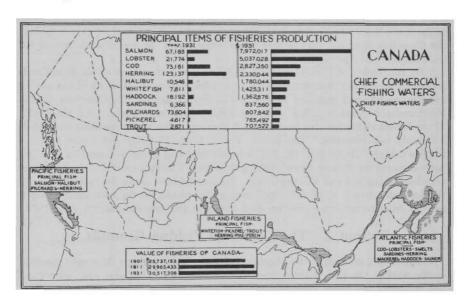
The fishing grounds of the Dominion of Canada are perhaps the most extensive in the world. On the Atlantic, from Grand Manan to Labrador, the coast line, not including the lesser bays and indentations, measures over 5,000 miles. The bay of Fundy, 8,000 square miles in extent, the gulf of St. Lawrence, fully ten times that size, and other ocean waters comprise not less than 200,000 square miles, or over four-fifths of the area of the fishing grounds of the North Atlantic.

¹ Revised by Miss F. A. Brown, Chief, Fisheries Statistics Branch, Dominion Bureau of Statistics. This Branch publishes an Annual Report on the Fisheries Statistics of Canada, together with advance summaries on Fish Caught, Marketed and Prepared, by provinces. These may be obtained from the Dominion Statistician.

In addition there are on the Atlantic seaboard 15,000 square miles of inshore waters controlled entirely by the Dominion. Large as are these areas, they represent only a part of the fishing grounds of Canada. The Pacific coast of the Dominion measures 7,180 miles in length and is exceptionally well sheltered. Throughout the interior is a series of lakes which together contain more than half of the fresh water on the globe—Canada's share of the Great Lakes alone amounts to over 34,000 square miles, a total which of course does not include lake Winnipeg (9,457 square miles), lake Manitoba and others of even greater area.

Still more important than the extent of the Canadian fishing grounds is the quality of their product. It is an axiom among authorities that food fishes improve in proportion to the purity and coldness of the waters from which they are taken. Judged by this standard, the Canadian cod, halibut, herring, mackerel, whitefish and salmon are the peers of any in the world. It is possible, therefore, to state that by far the most valuable fisheries of the western hemisphere, if not of the globe, belong to Canada.

It will be seen from the above that it is impossible to deal adequately with the Canadian fisheries in the aggregate; they are those of a continent rather than of a country, and are of corresponding diversity. Omitting the enormous Hudson Bay and peri-Arctic region, which extends from Ungava to Alaska and the fish resources of which are not known, the Canadian fisheries may be divided into Atlantic, inland and Pacific fisheries.



A detailed description of these respective fishing grounds of Canada, of the fish caught on these grounds, and of the methods of fishing, will be found at pp. 222-5 of the 1932 Year Book.

Lobstering is another distinctive industry. In 1870, there were three lobster canneries on the Atlantic coast of Canada; in 1930 the canneries numbered 333 and gave work to 6,000 people: 30,000,000 lobsters is a normal catch. The difficulty

of enforcing regulations as to the capture of undersized and spawning lobsters offers a constant problem in connection with the output, but with the co-operation of the fishermen there is hope that the fishery may be maintained and the annual harvest show no decline. In New Brunswick the canning of "sardines" (locally young herring and not a distinct type of fish) is second only to lobstering. Oysters, once plentiful everywhere, are now found in diminished quantities, but the Government is working towards the restoration of the industry through the development of oyster farming; favourable areas in Prince Edward Island waters have been seeded and the work in connection with oyster culture is being carried on under the direction of experts.

Section 3.—The Government and the Fisheries.

Upon the organization of the Government at Confederation, the administration of the Canadian fisheries and marine was placed in the charge of a Department of the Dominion Government, which then exercised complete jurisdiction over the fisheries under the supervision of a Minister, with a large staff of inspectors, overseers and guardians to enforce the fishery laws. Early in 1930 a change in departmental organization was effected, whereby two Departments, each in charge of a Minister, were created to administer respectively the Marine and the Fisheries.

In 1882, 1898, 1913 and 1920, decisions in the courts considerably altered the status of jurisdiction as between the Dominion and the provinces. The Dominion now controls the tidal fisheries of the Maritime Provinces and British Columbia and the fisheries of Yukon and the Northwest Territories, and the Magdalen islands. The non-tidal fisheries of the Maritime Provinces, the Prairie Provinces and Ontario, and both the tidal and non-tidal fisheries of Quebec (except the fisheries of the Magdalen islands) are controlled by the respective provinces, but the right of fisheries legislation for all provinces rests with the Dominion Government. [See the Fisheries Act (R.S.C. 1927, c. 73)]. The expenditure of the Dominion on the fisheries in the fiscal year 1931-32, including Civil Government salaries, contingencies, etc., was \$2,045,891, and the revenue \$105,937.

Conservation.—River and lake fisheries certainly, and sea fisheries probably, if left to themselves, conform to the economic law of diminishing returns. The Canadian Government, accordingly, has had for a main object the prevention of depletion, the enforcement of close seasons, the forbidding of obstructions and pollutions and the regulation of nets, gear and fishing operations generally. In addition, an extensive system of fish culture has been organized; the Dominion, in 1931, operated 23 main hatcheries, 9 subsidiary hatcheries and 7 salmon-retaining ponds at a cost of \$271,160, and distributed 133,654,169 eggs, fry or older fish, mostly salmon and trout. The young fish are distributed gratis if the waters in which they are to be placed are suitable and are open to public fishing.

Investigations and experiments directed toward the culture of the oyster have been carried on since 1929 at Malpeque bay, P.E.I., by the Dominion Department of Fisheries. Extension of oyster-farming, as it is called, to New Brunswick waters is in prospect as a result of an agreement entered into in 1932 between the Dominion and New Brunswick authorities, whereby control of the oyster areas in the Westmorland County portion of Shediac bay was vested in the Department of Fisheries. Investigational work is now under way there with a view to introducing a farming plan similar to that followed in Prince Edward Island. The knowledge gained in these fields will doubtless be applied in other parts of the country which are found suited to commercial oyster culture.

Direct Assistance.—Since 1927 fish collection services have been operated on several stretches of the Atlantic coast by the Fisheries Branch of the former Department of Marine and Fisheries and by the present Department of Fisheries. Fishermen in the waters covered by the fish-collection boats are thus enabled to sell their catches promptly and have them delivered to purchasers at central points at small cost. They are also able to spend their time in catching fish instead of in preparing their catches for the dried and cured-fish markets. Again a system has been established of broadcasting radio reports as to weather probabilities, bait and ice supplies, ice conditions along the coast and prevailing prices. Further, under authority of the Fish Inspection Act (R.S.C., 1927, c. 72), systems of instruction in improved methods of fish curing and barrel making have been in operation for several years.

Scientific Research.—Stations under the direction of the Biological Board of Canada for the conduct of biological research into the numerous complex problems furnished by the fisheries are established at Halifax, N.S., St. Andrews, N.B., and Nanaimo and Prince Rupert, B.C. The biological stations at St. Andrews and Nanaimo are concerned chiefly with problems of fish life, while at the fisheries experimental stations at Halifax and Prince Rupert, attention is devoted to the practical problems of the fishing industry. A marine biological station, chiefly for oyster investigation work, is conducted at Ellerslie, P.E.I., and a sub-station for salmon investigations at Cultus Lake, B.C. The Biological Board employs a permanent staff of scientists, and in addition, Toronto, McGill, Queens, Manitoba, British Columbia and the chief Maritime Province universities send workers to the several stations, chiefly professors and trained scientists. The life-histories of edible fishes, the bacteriology of fresh and cured fish, improved methods of handling and preparing fish, and numerous other practical problems have been taken up and scientific memoirs and reports issued.

International Problems.—The chief international fisheries problem is the question of the rights of the United States, whose fishermen were granted, by the Treaty of Versailles, certain privileges in the Canadian inshore fisheries. Losing these by the war of 1812, the United States, after 1818, surrendered all but their right to call at Canadian ports for shelter, wood, water, or to make repairs, and to fish around the Magdalen islands and on the north shore of the gulf of St. Lawrence from Point Joli eastward, and to dry and cure their fish in any of the unsettled bays on this portion of the North Shore.

Questions of interpretations to be placed on certain parts of the Treaty of 1818 were set at rest for the years 1854-66 by the Reciprocity Treaty. This treaty provided for the free admission into either country of the fish products of the other, and fishermen of each country were allowed to fish in the Atlantic territorial waters of the other, with the exception of specified rivers and other grounds.

In 1871, the Treaty of Washington revived the fishery provisions of the Reciprocity Treaty of 1854, and provided for a commission to determine the compensation to be paid by the United States as the difference in the value of the concessions mutually granted. This commission sat at Halifax in 1877, banding down the "Halifax Award", the amount of which was \$5,500,000. In 1885, however, the United States terminated the fisheries articles of this treaty and a period of disagreement followed. A settlement was negotiated in 1888, when the plenipotentiaries of the two nations agreed to the "Unratified Treaty of 1888", which provided that United States fishing vessels were to be granted, without fee, annual licences author-

izing them to purchase provisions and outfits in Canadian ports, to tranship catches and to ship crews. Out of this treaty grew the so-called modus vivendi licences. Since it was recognized that the treaty could not receive official sanction before the commencement of the fishing season, it was agreed that United States fishing vessels, on payment of \$1.50 per registered ton, should receive annual licences conveying the above privileges. The treaty was rejected by the United States Senate but Canada continued to issue modus vivendi licences up to 1918, when arrangements were made for reciprocal privileges in the ports of either country. The arrangement was discontinued in the United States on July 1, 1921. In the following year the modus vivendi licences were revived in Canada but this system was terminated on Dec. 31, 1923, and United States fishing vessels are now limited to the provisions of the Treaty of 1818.

On the Great Lakes also, the more important fishery problems, such as restocking and marketing, are necessarily international in character, and are complicated by the number of State Governments interested. Much the same situation has developed in British Columbia, where the sockeye of the Fraser are taken by the canners of Puget sound in quantities that largely exceed the catch of the Canadian canners, and by trap nets and other methods forbidden in Canadian waters. In 1906 an International Commission first discussed the question, while in 1922 the prohibition of sockeye fishing in the Fraser for five years, with a view to conservation, was recommended by a Parliamentary Commission.

The Halibut Fishery.—The halibut fishery on this side of the Pacific is engaged in only from Canadian and United States ports, but, owing to the fact that it is largely carried on beyond territorial waters, neither country alone can control it. At the same time it is in the interests of both countries that the fishery should be permanently maintained in a flourishing condition. The question of finding an adequate method of dealing with the matter was therefore referred to the Canadian-American Fisheries Conference that was appointed in 1918 by the Governments of the two countries to consider the settlement of outstanding fishery questions between Canada and the United States. In 1922 Canada proposed that the halibut question should be considered by itself. This was agreed to, and resulted in the treaty signed Mar. 2, 1923, "For the Protection of the Pacific Halibut" this treaty a close season in each year was provided for halibut fishing. A further convention, signed by the plenipotentiaries of both countries at Ottawa on May 9. 1930, and ratified by the Governments of the two countries on May 9, 1931, provided certain additional regulations in connection with the division of the waters into fishing areas, changing of dates for close seasons, etc. This revised convention provides a simpler and more responsive system of control than was previously possible.3

Fishing Bounties.—An important though indirect aftermath of the Washington Treaty remains. By an Act of 1882 (45 Vict., c. 18), for the development of the sea fisheries and the encouragement of boat-building, provision was made for the distribution annually among fishermen and the owners of fishing boats of \$150,000 in bounties, representing the interest on the amount of the Halifax Award. An Act of 1891 (54-55 Vict., c. 42), increased the amount to \$160,000, the details of the expenditure to be settled each year by Order in Council. For the year 1931 payment was made under authority of the Deep Sea Fisheries Act

PLicences are being issued to United States' vessels for the fishing season of 1933, and these confer the privilege of entering Canadian ports to buy bait or to obtain supplies of water.

For a pamphlet containing the text of this revised convention application should be made to the Department of Fisheries, Ottawa.

(R.S.C. 1927, c. 74) on the following basis: to owners of vessels entitled to receive bounty, \$1 per registered ton, payment to the owner of any one vessel not to exceed \$80; to vessel fishermen entitled to receive bounty, \$6.80 each; to owners of boats measuring not less than 12 feet keel, \$1 per boat; to boat fishermen entitled to receive bounty, \$5.80 each. The claims paid numbered 11,157, compared with 10,308 paid in the previous year. The total amount paid in 1931 was \$159,432. Details of the distribution of bounties for the years 1928 to 1931 are as follows:—

Province.	Number of Men who Received Bounties.				Amount of Bounties Paid.			
	1928.	1929.	1930.	1931.	1928.	1929.	1980.	1931.
	No.	No.	No.	No.	\$	*	\$	\$
Prince Fdward Island Nova Scotia New Brunswick Quebec	1,309 9,470 2,240 6,214	1,473 10,036 2,504 6,294	1,400 10,024 2,849 6,745	1,498 10,512 3,221 7,606	9,334 79,078 19,388 43,611	10,745 83,459 20,311 45,248	9,809 80,050 23,414 46,501	9,671 76,748 24,643 48,370
Totals	19,233	20,307	21,018	22,837	151,411	159,763	159,774	159,432

Fisheries Statistics.—The fisheries statistics of Canada are issued under an arrangement for statistical co-operation between the Dominion Bureau of Statistics, the Dominion Department of Fisheries and those branches of the different Provincial Governments having jurisdiction with regard to fisheries. The Fisheries Department of the Dominion Government exercises jurisdiction over the fisheries of the Maritime Provinces, the Northwest Territories, Yukon and British Columbia; and the Fisheries Branches of Ontario, Quebec, Manitoba, Saskatchewan and Alberta have jurisdiction over the fisheries of their respective provinces, excepting that in the case of Quebec the fisheries of the Magdalen islands are under the jurisdiction of the Dominion authorities. The province of British Columbia has a Fisheries Branch, but it does not engage in independent statistical work. Under the arrangement above referred to, the statistics of the catch and of the products marketed in the fresh state or domestically prepared are collected by the local fishery officers, checked in the Department of Fisheries and compiled in the Dominion Bureau of Statistics. In the case of manufactured fish products, schedules similar to those of other sections of the Census of Industry are sent by the Bureau to the operators of canneries, fish-curing establishments, etc., the fisheries officers assisting in securing expeditious and correct reports.

Section 4.—The Modern Fishing Industry.

The existing fishing industry of Canada is in the main the growth of the past half century. No comparable figures of production are available prior to the Confederation of the provinces, but about 1836 the production of fish in what are now the three Maritime Provinces had an estimated value of something like \$1,500,000, while the production of Lower Canada was probably worth \$1,000,000. In 1870 the total was \$6,600,000 and this was more than doubled by 1878. In the '90's it passed \$20,000,000 and in 1912, \$34,000,000. The highest figure was reached in 1918, with over \$60,000,000, but this was in a period of greatly inflated prices. Between that year and 1921 the total value of the products of the fisheries decreased and in the latter year was back to \$34,000,000. From 1921 to 1926 a steady increase to \$56,000,000 took place and in the following three years the value fluctuated around

the \$50,000,000 mark. The prevailing world-wide depression has affected the markets for fish products; the value dropped to \$48,000,000 in 1930 and to \$30,500,000 in 1931. These figures represent the total values of fish marketed, whether in a fresh, dried, canned, or otherwise prepared state.

The number of employees, which was 80,450 in 1929 and 79,558 in 1930, fell to 74,903 in 1931 and the capital invested in the industry which was \$60,000,000 in 1918 and \$62,579,000 in 1929, reached \$64,026,297 in 1930 but decreased to \$45,350,514 in 1931.

Among individual fish products the cod and the salmon long disputed the primacy; if the record is taken back to early times, the cod is the most valuable fishery; in the past 30 years, however, the salmon has definitely taken the lead, and the heavy pack and relatively high price of lobsters have more than once sent cod down to third place as in 1927, 1929 and 1930. Halibut, for a number of years prior to 1931, occupied fourth place among the chief commercial fishes but in 1931 dropped to fifth place, yielding fourth place to herring. These changes have, of course, affected the relative standing of the provinces, British Columbia now occupying the leading place that in earlier times belonged to Nova Scotia, and producing in recent years fish products to nearly half the total value. The yearly record of production since 1870, the total production by provinces for the past six years, and the record by values of principal fish products for the past five years in descending order of importance, are shown in Tables 2, 3 and 4. The aggregate value of production in 1931, \$30,517,306, shows a decrease of 36.2 p.c. from the figure of \$47,804,306 in 1930. The wide variations in prices from year to year make total values misleading. On the other hand, the quantities of different kinds of fish are stated in many different units and the total volumes of production are difficult to compare. An effort is made to overcome these difficulties in Table 7 by working out what the values would be in 1931 if prices had remained the same as they were in 1930. On this basis, the decrease due to smaller quantities was 21.2 p.c. and that due to lower prices 15.0 p.c.

For detailed historical statistics of the fisheries, see pp. 53-56 of Fisheries Statistics of Canada, 1931, obtainable from the Dominion Statistician.

2.—Total Values of the Products of the Fisheries of Canada, 1870-1931.

Notz.—From 1870 to 1906 inclusive, years ended June 30; from 1908 to 1917 (a) inclusive, years ended Mar. 31; since and including 1917 (b), calendar years. No statistics are available for the nine months' period ended Mar. 31, 1907.

Үеаг .	Value.	Year.	Value.	Year.	Value.	Year,	Value.
			\$				*
1870	6,577,391 7,573,199 9,570,116 10,754,997 11,681,886 10,380,385 11,117,000 12,005,934 13,215,678 13,225,678 14,499,979 15,817,162 16,958,192 17,766,404	1888 1899 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899	17,665,256 17,714,902 18,977,878 18,941,171 20,686,661, 20,719,573 20,199,338 20,407,425 22,783,546 19,667,121 21,891,706 21,557,639	1903 1904 1905 1906 1908 1910 1911 1912 1913 1914 1915	21, 959, 433 23, 101, 878 29, 479, 562 29, 479, 562 26, 279, 485 25, 449, 349, 25, 451, 985 29, 629, 469, 29, 965, 433 34, 667, 872 33, 389, 464 33, 207, 748 31, 254, 667, 872 389, 208, 378 39, 208, 378	1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930	60, 259, 744 56, 508, 473 49, 241, 331, 935 41, 800, 210 41, 800, 210 56, 565, 545 44, 534, 236 49, 122, 609 53, 518, 521 47, 804, 218 30, 517, 306

3.-Total Values of the Products of the Fisheries, by Provinces, calendar years 1926-31.

Province,	1926.	1927.	1928.	1929.	1930.	1931.
		\$	\$	\$	\$	\$
Prince Edward Island Nova Scotia. New Brunswick Quebec. Ontario. Manitoba. Saskatchewan Alberts. British Columbia. Yukon.	3,110,964 3,152,193 2,328,803 444,288 749,076	1,367,807 10,783,631 4,406,673 2,730,450 3,670,229 2,089,738 503,609 712,469 22,890,913 12,090	1,196,681 11,681,995 5,001,641 2,996,614 4,030,753 2,240,314 563,533 725,050 26,562,727 51,665	1,297,125 11,427,491 5,935,685 2,933,339,19,144 2,745,205 572,871 732,214 23,930,692 24,805	1, 141, 279 10, 411, 202 4, 853, 575 2, 502, 998 3, 294, 629 1, 811, 962 234, 501 421, 258 23, 103, 302 29, 510	1,078,901 7,986,711 4,169,811 1,952,881 2,477,131 1,241,575 317,963 153,897 11,108,873 29,550
Totals	56,360,633	49,123,609	55,050,973	53,518,521	47,804,216	30,517,306

4.—Quantities¹ and Values² of the Chief Commercial Fishes, calendar years 1927-31.

Kind of Fish,	1927.	1928.	1929.	1930.	1981.	Increase (+) or Decrease (-) 1931 compared with 1930.
Salmoncwt.	1,541,447 15,065,063	2,286,151 17,867,058	1,550,780 15,008,825	2,362,529 17,731,891	1,343,701 7,972,017	- 1,018,828 - 9,759,874
Lobsterscwt.	316,831 5,426,176	332,437 5,183,988	372,820 5 ,696,542	407,265 5,214,648	435,490 5,037,028	+ 28,225 - 177,615
Codewt.	1,978,803 4,881,980	2,150,078 6,285,777	1,979,440 5,394,686	1,662,421 4,288,813	1,463,626 2,827,350	- 198,795 - 1,461,463
Herringcwt.	2,724,113 3,358,098	2,396.054 3,104,911	2,817,806 3,186,669	2,190,776 2,623,174	2,462,751 2,330,044	
Halibutcut.	299,854 3,945,312	329,923 3,812,321	335,824 4,832,296	282,605 2,871,455	210,926 1,780,044	- 71,679 - 1,091,411
Whitefishewt.	185,664 2,192,738	180,695 2,192,567	196,386 2,453,703	169,747 1,818,941	156,215 1,425,311	
Haddockewt.	421,709 1,483,844	481,708 1,733,781	545,400 1,951,642	486,344 1,851,724	368,850 1,362,876	
Sardines brl.	174,695 1,046,575	285,990 1,291,722	249, 194 1, 626, 764	129,459 1,074,487	68,660 837,560	65,799 236,927
Pilchards,ewt.	1,368,582 1,838,867	1,610,252 2,563,137	1,726,851 2,199,834	1,501,404 1,589,609	1,472,085 807,842	
Pickerel or dorécwt.	140,019 1,347,589	142,610 1,616,442	128,500 1,453,847	103,146 939,762	92,349 765,492	
Troutewt.	92,007 1,397,294		90,854 1,324,775	69,809 1,031,979	57,420 707,522	
Smelts,.cwt.	82,762 1,117,330	91,877 1,241,452	83,984 1,190,908	66, 121 853, 034	74,522 652,837	
Mackerelcwt.	158, 797 582, 705	123,768 528,267	152,756 536,021	178,464 598,019		
Ling codcwt.	49,916 401,259	50,772 366,101	48,489 415,776	49,591 383,564	50,987 239,014	
Swordfishewt.	7,299 120,692		6,336 98,241		12,629 236,617	

Quantities caught. * Values marketed.

4.—Quantities: and Values: of the Chief	Commercial Fishes, calendar years					
1927-31—concluded.						

Kind of Fish.	1927.	1928.	1929.	1930.	1981.	Increase (+) or Decrease (-) 1931 compared with 1930.
Perchcwt.	34,573 272,687	53,176 763,315	67,055 616,722	43,762 346,649	51,415 231,736	
Clams and quabaugs bri.	57,712 274,287	63,320 322,874	67,739 346,772	64,709 319,469	56,058 227,614	
Oystersbrl.	21,650 197,781	21,493 214,180	24,959 226,876	23.942 205.019	24,337 193,563	
Hake and cuskewt.	177.370 232,404	253,244 368,237	339,217 517,311	294,376 431,566	171,748 191,898	
Tullibeecwt.	121,7 64 633,150	104,145 612,931	97,669 687,731	62,041 461,676	42, 804 190, 421	
Blue pickerelcwt.	31,173 187,038	21,496 257,952	25,831 333,220	59,284 420,917	54,048 178,359	
Pikecwt.	70,473 356,992	62,701 362,922	82,546 409,970	56,464 228,905	45,452 161,674	
Eelscwt.	15,926 139,932	25.661 227,751	14,539 133,542	16,388 147,114	20,083 125,981	

¹ Quantities caught. 2 Values marketed.

Operations in 1931.—Detailed Record of Production.—The total value of the products of the Canadian fishing industry in the calendar year 1931 was \$30,517,306, as compared with \$47,804,216 in 1930, \$53,518,521 in 1929, \$55,050,973 in 1928, \$49,123,609 in 1927, \$56,360,633 in 1926, \$47,942,131 in 1925 and \$44,534,235 in 1924. In Tables 5 and 6 will be found statements for the whole of Canada of each fish and fish product marketed in 1931, with comparative figures for the preceding year—Table 5 dealing with sea fish and Table 6 with products of the inland fisheries. In Table 7 an analysis is made of the change in the value of each product from the preceding year due to variations in price and quantity respectively. On the whole, prices were lower in 1931. In Tables 8 and 9 the numbers of the fish-canning and curing establishments are shown, together with the materials used and values of the products.

 Quantities and Values of Sea Fish and Products Marketed, calendar years 1930 and 1931.

Kind of Fish or Product.	1930.		1931.	
And of Fight of Frontiet.	Quantity,	Value.	Quantity.	Value.
		•		\$
Cod, used fresh. ewt. " fresh fillets	112,866	434,553	94,152	322,604
	27,386	315,701	22,906	230,767
green-ealted	149,076	599, 122	158,921	545,446
	33,564	395, 701	21,936	216,003
" smoked " dried "	322,960	2,116,889	137 275.814	822 1,247,684
" boneless " canned	24,760	252,524	22,539	185,313
	5,793	28,394	555	3,585
"-liver oil, medicinalgsl. "oil	84,596	65,046	51,651	31,639
	181,326	80,883	142,733	43,487

5.—Quantities and Values of Sea Fish and Products Marketed, calendar years 1936 and 1931—continued.

***************************************	198	30.	193	1.
Kind of Fish or Product.	Quantity.	Value.	Quantity.	Value.
		3		\$
	100 010	F7F 001	101 000	201 404
Haddock, used fresh cwt.	136,816 59,357	575,831 743,924	131,306 44,189	534,404 508,019
" canned cases	15,123	95,014	13,612	75,094
" smoked	34,589 4,122	293,282 48,161	26,495 1,876	204,748 19,077
" oreen-salted "	10,208	26, 116	2.024	4,334
" dried	18,049 1,751	55,160 14,236	4,756 443	14,410 2,790
Hake and cusk, used fresh	8,453	14,284	8,864	11,941
" fresh fillets" "	8,453 37,849	76,109 86,556	5,020 30,557	33,339 55,771
" canned cases	1,193	6.562	157 1	864
smoked filletscwt.	9,641 50,900	83,341	4,611 25,387	32,510 53,321
" honeless"	1.867	151,033 13,681	664	4,152
Pollock, used fresh.	8,023	16,844	2,840	7,162
" iresh fillets"	14	14	41	410
rean unets. boneless green-salted dried Whiting, used fresh Contact when we will be a contact """ """ """ """ """ """ """	6,699	15,588	9,274	24,677
Whiting used fresh	10,301	48,098 211	9,675 87	30, 140 405
UMUBH, 1168H	1,886	4,571	1,588	6,803
" fresh fillets" Halibut, used fresh"	282,416	32 2,869,961	210,769	63 1,779,189
" emoked "	6	130	77	699
" canned	185 11,389	1,364 48,088	26 7,753	156 27,383
" fresh fillets"	11,808	121	44	505
" smoked"		0.070	3,317	60 13,917
Solor used freeh	3,387 19,069	8,870 97,619	9,023	46,632
" fresh fillets	-	- 1	254	3,810 223,778
Herring, used fresh	205,096 2,740	365,456 11,335	135,317 2,467	9,911
" fresh filets. " Herring, used fresh cwt. " canned (round) cases " canned (kippered). "	-	· -	400	4,000
asmoked (kippered). smoked (round). smoked (boneless). kippered. dry-salted. pickled. used as bait.	74,489 688	263,265 6,810	60,285 600	148, 262 4, 790
" kippered	l –	· -	5,076	52,348
" dry-salted"	805,973 20,846	961,364 122,409	788,227 22,755	776,442 124,186
" used as bait"	183,915	381,524	195.979	325,765
	102,792 98,038	83,192 25,488	104,721 131,270	74,093 15,090
" meal ton	2,899	114,449	4,986	209.324
" apples cwt	182	447 162,699	545 74,334	1,550 222,592
Mackerel, used fresh cwt. canned cases	35,809 469	2,386	578	2,783
" emoked CWL	131	846 432,088	30 (10	18 259, 484
" pickled brl. " fillets (salted) " " used as bait "	47,354	432,065	38,419 1,268	15,573
" used as bait"		250 200	995	2,027 810,838
Sardines, canced cases sold fresh and salted bri	244,238 79,349	979, 299 95, 188	202,520 31,263	26,722
	25	154	4,091	1,773
canned cases used as bait brl.	55,166 926	220,468 2,415	17,836 1,552	69,344 3,315
	3,204,058	678, 115	2,551,914 14,200	299,928
" oil. gal. " meal ton Alewives, used fresh. cwt. " fertilizer. brl. " salted. " " amoked. cwt. " used as bait. brl.	13,934 15,130	688,457 24,673	14,200 22,719	433,482 31,129
" fertilizer brl.	1.875	937	_	-
salted	14,593 1,165	71,534 4,280	14,375 2,274	56,087 6,385
amoked cwt.	6.011	9,786	185	370
	119	2,083	211 1,038	2,762 4,143
Perch, used fresh	1,733	15,576 2,951,304	264,397	176,887
Salmon, used fresh "canned cases	2,223,469	13,924,037	686,697	5,219,757

5.—Quantities and Values of Sea Fish and Products Marketed, calendar years 1938 and 1931—concluded.

		<u>-</u>	<u> </u>	
Kind of Fish or Product.	198	60.	193	1.
	Quantity.	Value.	Quantity.	Value.
		\$		*
Salmon, smoked	1,383	20,253	249	4,91
" mild cured "	116,223 25,095	292,782 463,394	386, 693 9, 149	793,51 127,90
" pickled	2,462	19,068	2,085	10,43
" roe "	729 19,333	2,837 24,040	1,464 11.447	2,20 22,92
Shad, used fresh	3,909	35,351	4,509	38,95
" salted brl. Smelts, used fresh cwt	58,944	796,700	252 67,906	6,25 620,09
Smelte, used fresh	526	7,368	800	4,09
	139	2,914	100 53	11- 1.29
Trout, used fresh cwt. Black cod, used fresh	13,414	86,705	1,111	7,17
" dried " green-salted "	156 51	2,956 943	310	4.65
" smoked "	1.584	29,979	2, 173	27,69
Ling cod, used treath	48,591	333,564	49,746 454	229,49 6,62
" smoked" " smoked fillets"	I 	~	រី ដែ <u>ប</u> ិ	2,90
Red cod, used fresh	4,248 2,666	24,577 16,761	2,735 1,561	10,989 7, 5 60
Caplin, used fresh brl.	3.639	9,014	6,216	13,06
Eels, used fresh	2,474 355	23,235 2,569	2,216 233	16,21 ⁴ 1,15
Oulschons, used fresh "	899	4.214	198	47
Octopus, used fresh. Oulschons, used fresh. Squict, used as bait. Swordfish, used fresh. cwt.	6,572 11,933	31,374	1,713 12,629	6, 114 236, 617
Tom cod, used fresh. "	15,253	214,806 52,219	18,389	230,01 51,36
Mixed fish, used fresh	5,919	29,359	7,363	36.66
Clams and quanaugs, used fresh	19,677 44,708	57,111 262,358	33,077 28,177	82,244 145.37
Tom cod, used fresh. Mixed fish, used fresh. Clams and quahaugs, used fresh. canned. caned. dases	350	3,500	421	4,21
" used fresh brl. Cockles, used fresh cwt.	ļ -		14 88	5: 21:
Craps, used fresh "	4,539	26, 276	5,068	26.52
" canned	295 125,136	3,141 2,283,808	204 143.083	1,690 2,307,47
" meat " " canned cases	392	26.370	543	28.91
" tomalley	139,109 3,261	2,873,796 30,669	146.338 3.021	2,673,411 27,22
Mussels, fresh	_	· -	29	104
Oystere, used fresh	23,942 36,707	205,019 £3,699	24,337 23,392	193,56 41,20
cannedcases	195	1,823	44	444
scallope, angled	1,578 578	20,426 1,108	1,188 913	15,771 1,73
Dulse, dried	765	1,108 10,306	483	4,27
Seal skins, fur	1,555 2,291	5,838 13,746	1,830 1,463	5,435 7,00
" hair	10,544	18, 190	10, 129	14,29
Whalebone meal ton	273	76 6,775	103	310
Whale fortiliser	581	29,050] <u>,</u>	4
Seal oilgal. Porpoise eilgal	22,377 300	9.786 152	21,576 4,590	4,541 91
Whale oil	525.533	192,168		
Grayfish oil	114,558 99,127	22,229 34,342	170,271 83,804	19,36: 10,54
Graynan oil. " Fish oil, n.e.s. " Grayfish meal. ton Fish meal, s.e. " Fish fertilizer " Fish skins and bones cwt.	899	45,165	1,010	34,869
Fish fertilizer	3,841 390	238,950 14,120	11,316 354	217.303 12,120
Fish skins and bones cwt.	31,574	30,784	17.509	23,947
Fish offalton Other products	11,055	31,059 46,919	4,850	11,182 52,276
	ļ			
Tetals	1 -	41,451,977	-	25,783,101

6.—Quantities and Values of Inland Fish Marketed, calendar years 1930 and 1931.

Kind of Fish or Product.	198	10.	1931.		
Table of Floates.	Quantity.	Value.	Quantity.	Value.	
Alewives, Iresh	257 104 639 12,084 8,954 13,914 3,666 3,266 65,113 65,113 147 41,652 13,189 42,029 103,146 59,284	\$ 579 712 10, 374 67, 179 79, 829 123, 879 3, 139 94, 428 287, 435 151, 273 23, 413 331, 073 939, 762 420, 917 228, 905	197 70 669 16,003 9,942 17,867 65 2,136 59,508 895 187 37,538 3,015 50,377 92,349 54,048	\$ 446 380 8,700 68,507 81,310 109,762 38,117 360,505 930 4,167 140,351 8,518 227,508 765,492 178,359 161,674	
Salmon, fresh. " Saugers, fresh. " Shad, fresh. " Smelts, fresh. " Sturgeon, fresh. " caviar lb. Suckers. cwt, Trout, fresh. " Tullibee, fresh. " "smoked. " Whitefish, Iresh. " Totals. "	1,830 8,961 2,023 7,177 4,451 3,647 5 69,670 62,016 15 169,747	34, 236 62, 482 16, 573 56, 334 101, 607 3, 647 15 1, 029, 965 461, 676 400 1, 818, 941 6, 352, 239	1, 788 18, 279 2, 947 6, 616 4, 209 3, 893 3, 418 57, 367 42, 792 7 156, 215	29, 472 74, 194 19, 366 32, 744 90, 752 3, 883 6, 257 706, 227 190, 368 1, 425, 311 4, 734, 305	

7.—Yields of the Fisheries of Canada, Compared as to Quantity and Value, for 1930 and 1931. ("000" omitted.)

			l	[ue to		Due to
	Actual	Value	Actual	Increase (+) Hig		Lar	
Kind of Fish or Product.	Value.	at Prices	Value,	or or	. l т	or wer (—)	e	or aller (—)
	1931.	of 1930.	1930.	Decrease(-)		rices.		aner (—) antities.
!	'		 	<u>'</u>	<u> 1 </u>	11000+	(Q	anticice.
a, l	3	\$	1 .			*)	- B
Salmon	7,972	10,085	17,732	9,760		2,113	17	7,647 361
Lobsters	5,037	5,576	5,215 4,289	178		539 949	l±	513
Cod.,	2,827	3,776		- 1,462 - 293	1=	619	ΙŦ	326
Herring	2,330	2,949 2,143	2,623 2,871	$\begin{bmatrix} - & 293 \\ - & 1.091 \end{bmatrix}$		363	Ι <u>Τ</u>	728
Halibut	1,780 1,425	1,674	1.819	- 1,091		249	ΙΞ	145
Whitefish	1,420	1,074	1.852	_ 489		22	ΙΞ.	467
Haddock	1,503 838	528	1.074	236		810	ΙΞ	546
SardinesPilchards	808	1,558	1,590	782	ľ	750	I	32
Pickerel or doré	765	841	1,940	- 175		76	I	99
	708	849	1.032	1- 324		141	l_	183
Smelts	653	961	853	- 200		308	l_	108
Mackerel	502	658	598	- 296		156	 +	60
Ling cod	239	343	834	- 95		104	ŀ∔	ġ
Swordfish	237	227	215	+ 22		10	۱÷	12
Perch	232	407	347	1 115		175	Ι∔	60
Clams and quahaugs	228	277	319	i		49	-	42
Oysters	194	208	205	ì→ ii		14	l+	3
Hake and cusk	192	252	432	- 240		60	۱÷	180
Tullibee	190	319	462	- 272		129	I–	143
Blue pickerel	178	384	421	- 243	. l—	206		37
Pike	162	184	229	→ 67		22	I–	45
Eels	126	180	147	21		54	+	83
Sturgeon	99	102	112	_ 13		3	I-	10
Alewives	95	106	112	- 17	·	11		6
Catfieh	88	90	84	+ 4	· -	2	+	. 6
Carp	69	107	67	 2		38	+	40
Pollock	62	78	81	- 19		16	I÷.	. 3
Tom cod	51	63	52	}1		12	+	1 Î 48
Soles	50	50	98	- 48			I-	36
Scallops	42	60	96	- 54		18	I-	30 78
Biack cod	40	43	121	- 81		. 3		41
Goldeyes.,,	39	57	98]- 59		18	1-	91
Seals	26	38	42	[- 16		12 261	<u> </u>	111
Other products of the fisheries.	870	1.131	1.242				1=	
Totals	30,517	37,689	47,804	17,287] —	7,172	-	10,115
Increase or Decrease per cent .	-	'	<u> </u>	36-2	•	15.0	<u>'-</u>	21.2

8.—Numbers of Fish-Canning and Curing Establishments, by Provinces, 1936 and 1921.

Classification.	P.E.I.	N.S.	N.B.	Que.	B.C.	Total for Canada.
1930.	No.	No.	No.	No.	No.	No.
Lobster canneries. Salmon canneries. Clam canneries. Sardine and other fish canneries. Fish-curing establishments. Reduction plants.	-	106 1 6 6 101 8	98 10 8 48 3	44 7 - 84 1	- 60 3 1 46 19	333 68 23 10 234 31
Tetals,,,	95	228	162	86	128	699
1931.						
Lobster canneries. Salmon canneries. Clam canneries. Sardine and other fish canneries. Fish-curing establishments. Reduction plants.	87 4 6	97 1 4 7 94 4	103 - 8 3 48 8	50 12 - - 31 1	35 2 - 49 13	337 48 18 10 228 21
Totals	97	207	165	94	99	662

Values of Materiais Used and of Products of Fish-Canning and Curing Establishments, 1927-31.

Material and Product.	1927.	1928.	1929.	1930.	1931.
Matarialsd	\$	\$	\$	\$	\$
Materiale used— Fish. Salt. Containers. Other.	14,379,521 360,056 3,290,932 334,337	15,617,194 444,471 4,144,425 372,677	17,061,702 413,722 3,802,791 218,644	15,939,137 348,201 4,569,026 225,125	9,137,505 351,781 2,220,770 210,778
Totals	18,364,846	20,578,767	21,496,859	31,461,489	11,920,834
Products— Fish marketed for consumption, fresh Fish canned, cured or otherwise prepared	7,123,490 23,961,119	8,275,669 27,992,063	9,057,253 25,909,007	7,639,557 25.333,751	5,168,401 13,658,492
Totals	31,084,509	36,267,782	34, 985, 260	33,973,508	18,826,893

Capital and Employees.—In 1931 capital investments in the fisheries were as follows: (a) in vessels, boats, nets, weirs, traps, wharves, ice-houses, etc., used in the primary operations of capturing the fish, \$26,265,001, of which \$21,283,241 was invested in the sea fisheries and \$4,981,760 in the inland fisheries; (b) in fish-canning and curing establishments (land, buildings, machinery, supplies on hand, cash and operating accounts), \$19,085,513—grand total \$45,350,514. The number of employees engaged in the primary operations of fishing was 61,832 in 1931, and in canning and curing establishments, 13,071, a total of 74,903. The total salaries and wages bill in canneries and fish-curing establishments was \$3,182,875. Tables 10 and 11, herewith, show the items included in the above totals, with comparative figures for 1930, while Table 12 analyses the salaries, wages and earnings of the employees in canneries, etc.

10.—Numbers and Capital Values of Fishing Vessels, Boats, Nets, Traps, etc., Used in the Fisheries of Canada, 1930 and 1931.

· 17	193	30.	1931.	
Equipment.	Number.	Value.	Number. 1	Value.
		\$		\$
Sea Fisheries—		450 000	_	
Steam trawlers. Steam fishing vessels.	8	479,000 156,000	7 2	265,0
Sailing and gasolene vessels	1,216	7,854,044	911	6,00 3,861,65
Boats (sail and row)	14,571	589.415	14,393	468.0
Boats (gasolene) Carrying smacks and scows.	16,737	7,475,369	17,160	6,844,8
Carrying smacks and scows	642	875,945	787	741,0
Gill nets	67,279 $12,619$	984,138	70,993 11,880	992,8
Salmon drag nets	12,019	1.433,228 10,875	29	1,005,4 17,3
Salmon trap nets	312	103,215	405	122,1
Trap nets, other	1,121	668,858	1,028	638, 1
Oulachon nets			28	8
Smelt nets	18,482	627,629	18,656	515,7
Pound nets	73 346	14,600	73 335	12.7 324.7
Salmon purse seines	399	352,329 767,775	242	481.2
Weirs. Salmon purse seines. Seines, other.	3,470	422,255	783	229,8
Inshore drags	-	-	41	5,2
Tubs of trawl	20,859	306,672	21,031	287.8
Skates of gear	2,461	54,636	3,853	65,4
Otter trawl Hand lines	59 63,699	15,625 153,785	64,203	1,1 148,0
Crab traps	4,870	16,930	6,080	21,4
Eel traps	416	1,847	465	1,1 2,088,1
Lobster trans	1,593,584	2,116,828	1,623,295	2,088,1
Lobster pounds	77	63,640	51	59.5
Oyster rakes	1,449 322	5,841 9,760	1,416 303	4,8 8.9
Scallop drage	279	8,760 653	784	۰,3
Quahang rakes Oyster plant and equipment. Fishing piers and wharves	1	21,208	l il	21,2
Fishing piers and wharves	1,793	811,655	1,769	844.8
Freezers and ice-houses. Small fish and smoke-houses.	603	282,680	657	249, [
Small fish and smoke-houses	6,946	917,323	6,972	930.9
Other gear				17.0
Total Values, Sea Fisheries		27,534,258		21,283,2
nland Fisheries—				
Steam vessels or tugs	136	1,103,695	121	967,7
Boats (sail and row) Boats (gasolene)	3,722 1,480	151,770 966,020	3,300 1,376	117,5 826,0
Scowe	1,400	42,500	1,0,0	30,0
Scows. Gill nets.		1,720,632	i"-	1.523.4
Seines.	183	22,747	182	22,5 605,8
Pound nets	1,182	622,525	1,151	605.
Hoop nets Dip or roll nets	887	28,767	876	27.0
Dip or roll nets	135 1,668	1,263 15,216	79 1,525	1, (10, 3
Weira	1,169	122, 269	1,240	119,
Eel traps	80	200	60	1
Eel traps. Fish wheels.	6	900	7	1,(
Fish wheels. Spears Fishing piers and wharves.	93	680	.60	100
Fishing piers and wharves	483	229,275	457	188,8
Freezers and ice-houses. Small fish and smoke-houses.	958 225	527,435 108,538	805 233	451.6 88,1
Total Values, Inland Fisheries		5,664,432		4,\$81,3
rish-Canning and Curing Establishments!—		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Labeter conneries	383	1,257,185	337	1,440,4
Salmon canneries	68	17,927,102	48	8,556.
Clam canneries	23	204,969	. 18	190,
Sardine and other fish canneries	10	1,405,921	10	1,554.
Fish-curing establishments	234	7,562,694 2,469,736	228 21	6,131, 1,212,
Reduction plants	31	2,409,736	<u>z</u> :	1,212,0
Totals of Fish-Canning and Curing Establishments	639	30,827,607	662	19,085,
ESCHARISMINATOS""""""""""""""""""""""""""""""""""""				
Grand Totals, Capital Invested in Fisheries		64,626,297		45,350,

¹ Comprises values of land, buildings and machinery, products and supplies on hand, accounts and bills receivable, and cash.

11.—Numbers of Persons Employed in the Fisheries of Canada, 1923-31.

P112-	S	ea Fisherie	₃.	Inl	and Fisheri	es.
Employed in—	1929.	1930.	1931.	1929.	1930.	1981.
	No.	No.	No,	No,	No.	No.
Steam trawlers Vessels Boats Carrying smacks Fishing, not in boats	182 7,070 40,101 540 2,821	142 6,745 40,508 649 2,837	141 4,929 42,172 690 2,764	727 7,576 30 5 ,036	658 7,514 20 4,763	504 6,921 20 3,691
Totals	50,714	50,881	50,695	13,369	12,955	11, 136
		Fish-Cann	ing and Cur	ing Estab	lishments.	
Employed in—		1980.			1931.	
	Male.	Female.	Total.	Male.	Female.	Total.
	No,	No.	No.	No.	No.	No.
Lobster canneries	2,450 3,340	3,159 2,504	5,609 5,844	2,617 1,644	3,345 1,509	5,962 3,153

12.—Employees and Salaries and Wages in Fish-Canning and Curing Establishments, 1920-31.

100

183

430

2.810

9,313

73,149

199

310

6,409

6,409

268

395

455

3. ĬŽÕ

15,722

79,558

69

202

219

7,507

69,339

173

5,564

5,564

242

381

3,108

13,071

74.903

Clam cameries.....

Reduction plants.....

ardine and other fish canneries...

Fish-curing establishments.....

Totals.....

Grand Totals, All Figheries

Year.	On Sal	arice.	Ов Т	Vages,		act and Vorkers,	To	tals.
	No.		No.	\$	No.	\$	No.	\$
20	. 651	759, 176	13, 137	3, 180, 701	4,711	916, 413	18,499	
21 22	487 614	551,330 682,535	10,534		3,083	399,016 600,415	14, 104 16, 577	2,973,38 3,641,73
23	585	681, 101	11,848 11,265	2,358,780 2,443,971	4,115 3,597	644,842	15.447	
24	574	755, 631	10,583	2,588,717	4.879	890,413	15, 536	
25	632	806,418	10,687	3,166,045	4,953	998,704	16,272	
26	546	733,760	11,579	3,807,533	5,283	1,081,544	17,408	
027	639	871,211	11,343		4,715	732,849	16,697	5, 373, 95
28	630	853,800	10,579	3,539,070	4,225	868, 226	15,434	
29	660	951,669	11,122	3,668,802	4,585	791,384	16,367	5,411,8
30	591	918, 952	9,967	3,383,902	5, 164	1,023,609	15,722	
)31	540	692,270	9,577	2,069,153	2,954	421,452	13,075	3,182,8

Trade.—For reasons already noted, the domestic consumption of fish is relatively small in Canada, and the trade depends largely upon foreign markets. From 60 to 70 p.c. of the annual catch is an average export. In the fiscal year 1932 fish worth \$10,651,233 went to the United States and \$5,481,301 to the United Kingdom. The most important single export is canned salmon (to Great Britain and European markets), followed closely by cod, dry-salted (to the West Indies, South America, etc.), and canned lobsters to Great Britain, the United States and France. For fresh fish, especially whitefish and lobsters, the United States is the chief market. Canadian imports of fish in the fiscal year 1932 amounted to \$2,398,677. A general review of the import and export trade in fish for 31 years past is given in Table 13,

while Table 14 gives a comparative record of exports by countries during 1931 and 1932. Table 15 shows the leading items of export for the calendar years 1929-31. For a complete analysis of imports and exports, as well as of production, see the annual report "Fisheries Statistics", issued by the Dominion Bureau of Statistics.

13.—Values of Exports and Imports of Fish and Fish Products, fiscal years 1902-32.

Note.—In this table "Exports" include seal skins and fish oils, and "Imports" include turtles, whale-bone, shells, mother of pearl, seal skins, fish oils and ambergris, in addition to fishery products as shown in Tables 12 and 13 of the External Trade chapter of this volume.

Year.	Exports, Fisheries,	Imports of Home Cons		Year.	Exports, Fisheries,	Imports of Home Cons	
20	Domestic.	Dutiable.	Free.	T Cui	Domestic.		Free.
	\$	*	\$		\$	*	*
1902. 1903. 1904. 1905. 1906. 1907. 1908. 1910. 1911. 1913. 1914. 1915. 1916.	11, 800, 184 10, 759, 029 11, 114, 318 16, 025, 840 10, 362, 142 13, 867, 367 13, 319, 66 15, 675, 544 16, 704, 678 16, 336, 721 20, 623, 560 19, 687, 067	659, 717 734, 800 752, 558 814, 540 735, 045 828, 037 784, 176 962, 522 1, 175, 072 1, 261, 096 1, 608, 663 1, 155, 863 1, 155, 863 1, 155, 71	525, 459 743, 703 856, 945 751, 402 1,224, 563 924, 046 1, 103, 649 925, 173 820, 183 820, 019 1,148, 522 910, 923 773, 109 701, 112 695, 702 1,128, 768	1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931	32,602,151 37,137,072 42,227,996 33,615,119 29,578,392 27,816,935 30,925,769 33,967,009 37,487,517 36,366,454 35,660,23 37,982,929 37,183,185 29,693,978 24,854,088	2,416,152 2,172,850 2,066,300 1,878,336 2,064,222 1,949,269 2,347,890 2,595,591 2,956,182	1,884,041 2,128,970 1,446,493 1,876,303 996,763 899,531 648,696 997,059 641,240 909,188 1,181,067 1,218,386 1,100,296 981,534 697,826

[!] Nine months.

14.—Exports of the Fisheries, the Produce of Canada, by Principal Countries, fiscal years ended Mar. 31, 1931 and 1932.

Exports to—	1931.	1931. 1932. Exports to—		1931.	1932.
British Empire.	\$	\$	Foreign Countries.	\$	\$
United Kingdom	5,051,110 121,828	5,481,301	BelgiumBrazil	245,117 184,863	234,989 112,693
Africa, South, British Africa, West, British	55.033	7,250	Chile	110.548	2,48
Bermuda	59.396	41.482	China	581,271	335,377
British India	51,606	23, 105	Cuba	521,044	202,56
Straits Settlementa	15,737	6,634	Denmark	169,030	119,850
British Guiana	104,341	66,564	France	1,144,432	682, 11
Barbados	99,774	99,955	Germany	575,904 943,669	304,44 530,36
Jamaica Trinidad and Tobago	803,344 432,255		Italy Japan	740.173	1.167.38
	355.117		Mexico	22.164	7.69
Hong Kong Newfoundland	64,300	41.815	Netherlands	222.321	194,60
Australia	1,052,628		Panama	59,088	30,14
Fiii	44,029	32, 191	Portugal	44,214	39,89
New Zealand	324,605	199, 181	San Domingo	131,281	163,68
			Sweden	363,714	283, 23 10, 651, 53
			United States	12,953,060 609,975	425,94
Totals, British Empire	8,817,140	8,641,182	Puerto Rico	000,570	160, 61
Totals, Dirella Empire	0,011,110		Totals, Foreign Countries.	20,077,843	15,795,890
			Grand Totals, Exports?	29,693,978	24,854,68

¹ Include other countries. ² Grand totals include exports of seal skins and fish oil. These amounted to \$758,995 in 1931 and \$417.010 in 1932, not separated by countries.

15.—Exports of the Fisheries of Canada, by Quantities and Values, calendar years 1925-31.

(Notg.o.tion	19:	29.	19	30.	19	31.			
Classification.	Quantity.	Value.	Quantity.	Value.	Quantity,	Value.			
Fish—		\$		\$		\$			
Alewives, salted	30,706 1,714	94,875 56,907	33,830 1,484	101,524 45,697	25,346 2,029	70,378 49,739			
Clams, canned	12,894	204,753	9,024	137,317	1,774	23,598			
Clams, fresh	11,522	24,067	16,842	26,561	36,772	54,235			
preserved, n.o.pcwt.	30,906	315,975	20,767	205,749	20,035	200,642			
Codfish, fresh and frozen	514,998	4.74X.47%	# 448 200	3,774,333	374,500	2,422,723			
Codish creen-selted (nickled) cut	12,113 79,400	107,253 369,830	21,278 113,424	225, 206 497, 432	5,108 72,067	39,095 277,469			
Codfish, smokedewt.	79,409 12,950	168,423	U 11 45A	148,909	5,033 10,786	57.304			
Eels, fresh and frozen	10,173 207	136,987 2,837	10,954 203	133,657	10,766	1 89.414			
Haddock, driedcwt.				2,468 151,011	13, 179	70,679			
Haddock, driedcwt. Haddock, fresh and frozencwt.	4.649	26.095	13,961	163,703	30.518	295 971			
Haddock, smoked	15,476 48,514	667 543	13,928 35,517	157,364 484 870	12,148 38,394 20,684	124,400 301 641			
Halibut, fresh and frozen	1 17, 113	195,054	22,974	464,870 249,117	20,684	391,641 247,780			
Herrings, sea, canned	1 400 047	90	11 2	! ?∩	1	28			
Herrings, sea, dry-saited	1,090,267 291,446	234.979	925,270 162,721	1,567,974 139,463	884,354 92,104	1,145,738 94,110			
Herrings, sea, pickledcwt. Herrings, sea, smokedcwt.	291,446 46,351 80,849	234,979 177,906 328,905	162,721 52,678 69,054	191,653 252,938	92,104 33,268 53,844 67,724 95,770	114, 167 184, 885			
Herrings, sea, smokedcwt. Lobsters, cannedcwt.	80,849 50,385	328,905	69,054 54,785	252,938	53,844	184,885			
	00 105	2,266,008	96.330	3,234,892 2,279,238	95,770	3,113,392 1,875,817			
Mackerel, fresh and frozenewt.	18,076 73,033 6,383	124,111	13.590	75 241		110,085			
Mackerel, pickled,,,,,cwt.	73,083 A 383	462,424 60,088	86,454 4,710	502,115 40,053	88,932 4,642	408,434			
Pilchards, canned	18,361	173,621	10,931	502, 115 40, 953 107, 049	5,260	41,108 47,463			
Mackerel, fresh and frozen	054	1 710		1	i				
Pollock, hake and cusk, dried owt.	254 61,223	1,716 382,269	52,682	660 328,786	50, 136	175 228,479			
Pollock, hake and cusk, driedewt. Pollock, hake and cusk, fresh and					1				
frozen	967	4,314	910	2,662	2,557	11,119			
saltedowt	24,325	50,498	15,482	35,405	4,807	10,820			
		1 1 000	138	1,721		-			
Salmon, canned cwt. Salmon, dry-salted (chum) cwt. Salmon, iresh and frozen cwt. Salmon, pickled cwt. Salmon, smoked cwt. Salmon trout or lake trout, fresh and frozen cwt.	605,053 89,963	8,865,089 315,341	457, 279 144, 729	1,721 6,479,255 395,371	410,307 424,124	5,909,948 750,311			
Salmon, fresh and frozencwt.	69,407	1,119,617	94,328	j 1,514,429	95.827	1,121,335			
Salmon, pickledewt.	22,817	536,691	22,040	426,316	16,528	209.346			
Salmon trout or lake trout fresh	957	11,817		3,668	234	3,743			
and frozencwt.	44,984	523,319 578,015	36,484 42,360	402,086 412,786	27.516 33.584	261,696			
	57,856 3,591	578,015	42,360	412,786	33,584 2,301	291,698 40,236			
Shell fish, other, fresh	67,583	56,394 989,916	3,366 53,292	810.121	64,094	814.917			
Sturgeon, fresh and frozenowt. Swordfish, fresh and frozencwt.	1.871	989,916 65,522	1,142	41,507	1,386 10,756	814,917 40,905			
Tongues and sounds	5,981 887	78,093 9,085	10,350 900	102,352 4,010	10,756 894	169,691 2,925			
Tullibee, fresh and frozencwt.	87,859	723,022	63,570	514,842	31,423	183,282			
Whale meat, canned or preserved,	523	2,008		1 000					
Whitefish, fresh and frozen	114,927		100,709	1,903 1,215,118	94,170	1,003,826			
n.o.p				1 ' '	'				
frozencwt.	317,365	2,748,526	283,971	2,285,320	282,435	2,003,831			
Other fresh water fish, salted, dried, smoked or pickled,cwt.	1,035	4,324	62	522	469	2,868			
	6,547	55,086	7,064	68,107	3,934	39,402			
out smoked or pickled cyt.	5.311	37,105	7.625	46.011	3,667	20,715			
Other sea fish, canned or pre-					· '	-			
Other sea fish, salted, dried, smoked or pickled cwt. Other sea fish, canned or preserved, n.o.p cwt. Fishery Products—	120	1,634	60	1,105	26	389			
Fish meal	324,451	826,260	322,666	884,430	317,252	661,468			
Fish offal or refusecwt.	29,395	64,772	18,590	36,596	11,685	19,741			
Oils— Cod-liver oilgal.	169,457	120 011	172,423	194 960	232 420	115,244			
Seal oilgal.	87.603	129,911 19,920	3,696	124, 260 1, 761	232,420 200	ା ନେ			
Whale oil al	l 641 585	I 2120 NR9.	I 309 K27	112,675	f 68.806	13,474			
Other fish oil gal. Seal skips, undressed No. Other articles of the fisheries	2,934,461 24,146	1,098,669	2,591,177 6,924	555, 247 24, 993	2,211,762 10,118	284,595 18,398			
Other articles of the fisheries		45,945	-	24,998 31,753		18,398 56,374			
Totals, Fish and Fishery Products	<u> </u>	37,546,393		31,869,350		25,848,585			
	<u> </u>			,010,000	L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

CHAPTER XII.—MINES AND MINERALS.1

An article on the geology of Canada, referring to the chief mineral-bearing areas of the Dominion, will be found at pp. 18-28 of the present edition of the Year Book. This is followed by an account of the chief discoveries and investigations of mineral-bearing ores in 1931, at pp. 29-37; similar articles for earlier years were published in previous editions. These articles furnish references to more detailed sources of information in the publications of the Dominion and Provincial Governments and in the scientific journals.

The Mines and Minerals chapter of the Year Book is divided into six sections: (1) a sketch of the administration of mineral lands and mining laws, (2) a summary of general production, (3) the industrial statistics of the mining industries, (4) production of metallic minerals, (5) production of non-metallic minerals, (6) production of clay products and structural materials.

For more detailed information on the mineral production of Canada the reader is referred to the various reports issued by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics.

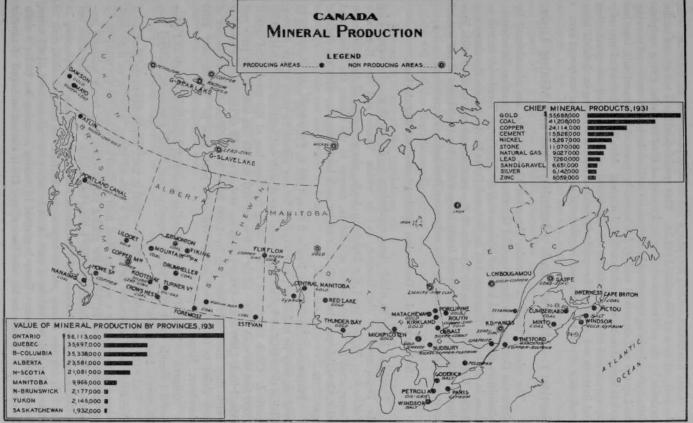
Statistics of Mines and Minerals.—The compilation and publication of statistics of the production of mines and minerals in the Dominion is carried out by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics, which works in close co-operation with the Mines Departments of the various Provincial Governments, collecting the data in collaboration with these Departments. Questionnaires sent out to the mining producers are designed to meet the requirements of both the Dominion and the provincial authorities, thus eliminating duplication of labour.

Annual and Monthly Statistical Reports.—Detailed statistics of the mineral production of the Dominion are published annually in a comprehensive report of over 300 pages which includes tables of Dominion-wide production, capital invested in the mining industry, number of employees, salaries and wages, fuel and machinery used in mining, together with tables showing imports and exports of minerals and their products, and a résumé of general mining conditions. The latest of these reports available for distribution at the time of writing covers the calendar year 1931 and may be obtained from the Dominion Statistician on request.

A summarized report on mineral production giving fairly detailed preliminary figures for the preceding calendar year is issued about March 15 of each year, and the salient points are reviewed at the Annual Meeting of the Canadian Institute of Mining and Metallurgy held in the first week of April. (The 1932 report is now available.) Further, a bulletin issued each year at the beginning of January gives the most accurate estimate then possible for the mineral production of the year just closed. In addition to the above, annual bulletins giving the detailed production of each mineral are issued as soon as the final figures become available in each case.

Monthly statistics of the physical production of 16 of the leading minerals of Canada have been compiled for the past four years and are published separately in monthly bulletins. These figures indicate the current trend of activity in mining operations.

Revised by W. H. Losee, B.Sc., Chief of the Mining, Metallurgical and Chemical Branch, Dominion Bureau of Statistics. A complete list of the publications of this Branch appears in Chapter XXIX, Section 1, under "Production"



VALUE OF MINERAL PRODUCTION BY PRODUCTS AND PROVINCES

Coal Statistics.—Coal is perhaps the most important of all minerals, from the point of view of the general public. This special position is recognized in the statistics by the publication of an annual report on Coal Statistics, giving complete details of coal-mining operations in the various coal-producing provinces and showing the imports and exports of coal by kinds and by ports of entry and exit, together with industrial statistics in relation to coal mining. Monthly bulletins and quarterly reports on coal and coke statistics are also issued, giving coal and coke production and imports and exports, the quarterly printed reports showing in detailed form production of coal by areas, and imports and exports by ports of entry and exit.

Section 1.--Mineral Lands Administration and Mining Laws.

The mineral lands of Canada, like other Crown lands, are administered by either the Dominion or the Provincial Governments. The Dominion Government administers the mineral lands of Yukon and the Northwest Territories as well as those in all Indian Reserves, and in National Parks in the Prairie Provinces and British Columbia. Since the transfer of the natural resources to the Prairie Provinces in 1930, all other mineral lands lying within the boundaries of the several provinces are administered by the respective Provincial Governments.

Subsection 1.—Dominion Mining Laws and Regulations.

Dominion lands to which these regulations apply are those administered by the Department of the Interior, and lie within Yukon and the Northwest Territories. Titles issued for Dominion lands, the property of the Dominion Government in the territories of Canada, reserve to the Crown the mines and minerals which may be found on or under such lands, together with the right of operation.

Placer.—Claims 500 feet long and from 1,000 to 2,000 feet wide, according to location, may be staked out and acquired by any person 18 years of age or over. Claims to be marked by two legal posts, one at each end, and the line joining them marked. Creek claims are staked along the base line of the creek, and extend 1,000 feet on each side. River claims are 500 feet on one side of the river and extend back 1,000 feet. Other claims are staked parallel to the creek or river on which they front, 500 feet long by 1,000 feet. Expenditure in development of each claim to be incurred and proved each year, \$200 in Yukon and \$100 elsewhere. Royalty 2½ p.c.

Quartz.—"Mineral" under this heading means all deposits of metals and other useful minerals other than placer deposits, peat, coal, petroleum, natural gas, bitumen and oil shales.

Under the new regulations, effective April 2, 1932, applicable to the Northwest Territories, any prospector or locator of a mineral claim, whether an individual, mining partnership or a company must hold a miner's licence, the fee being \$5 for an individual, from \$5 to \$20 for mining partnerships, and larger amounts proportionate to their capitalization for mining companies. A licensee may stake out 6 claims on his own licence and 12 more for two other licensees, not exceeding 18 in all in any one licence year in any mining division. A mineral claim shall be rectangular and marked by a post at each corner—maximum area 51.65 acres, being 1,500 feet square. Entry is granted by mining recorder, fee \$5 for a claim located by a licensee on his own licence, and \$10 if located on behalf of another

licensee. Grant is renewable from year to year, subject to representation work being done on the location each year to the value of \$100. When prescribed representation work has been done and confirmed, discovery of mineral in place shown to have been made, a survey made by a Dominion land surveyor at grantee's expense and certain other requirements met, a lease is issued for a term of 21 years, renewable, the rental for the full term being \$50. The cost of the survey, reckoned as \$100, may be counted as work done on the claim. A maximum of 36 claims may be grouped for purposes of representation work. When the profits of a mine exceed \$10,000 in any calendar year, there is a royalty of from 3 to 6 p.c. or higher, proportionate to profits. Miners' licences are not required in Yukon under the Yukon Quartz Mining Act, but the general provisions of the Act are similar to those of the Quartz Mining Regulations above, except that the fee for a grant is \$10 and only 8 mineral claims can be grouped for operation.

In addition to these Quartz and Placer Mining Regulations applicable to the Northwest Territories and the Yukon Quartz and Placer Mining Acts, the following regulations regarding minerals are in force: Yukon.—Dredging Regulations; Petroleum and Natural Gas Regulations.—Yukon and Northwest Territories.—Alkali Mining Regulations; Carbon-Black Regulations; Coal Mining Regulations; Potash Regulations and Domestic Coal Permits.—Northwest Territories.—Dredging Regulations; Oil and Gas Regulations; Quarrying Regulations and Permits to remove sand, stone and gravel from beds of rivers.

For copies of any of the regulations above referred to, application may be made to the Dominion Lands Administration, Department of the Interior, Ottawa.

Subsection 2.—Provincial Mining Laws and Regulations.

Nova Scotia.—All minerals in Nova Scotia, except limestone, gypsum and building materials, are the property of the Crown. They are dealt with under the provisions of the Mines Act (c. 22, R.S.N.S., 1923) and amending Acts of 1927 (c. 17) and 1929 (c. 22), and are administered by the Minister of Public Works and Mines, at whose office in the Parliament Buildings, Halifax, all records of mining titles are kept.

The chief mineral product of Nova Scotia is coal, which is subject to a royalty of 12½ cents per long ton. Coal used in mining operations, or used for domestic purposes by workmen employed about the mine, is exempted from royalty. Other important minerals of Nova Scotia are gold, salt, lead, zinc, copper, diatomaceous earth, manganese, antimony, gypsum and limestone.

Licences to search for mineral, good for a year, are issued at a nominal fee. More permanent holding is obtained by lease, which, in the case of minerals other than gold and silver, is granted for 20 years (subject to payment of an annual rental and the performance of work), the lease carrying the right to three successive renewals of 20 years each. A lease for gold and silver is given for 40 years, subject to a small annual rental and performance of work.

Full information concerning minerals and mining laws may be obtained by writing the Department of Public Works and Mines at the above address.

New Brunswick.—In grants of Crown land with few exceptions since about the year 1805, all mines and minerals are reserved to the Crown and regarded as property separate from the soil. Prior to that time, most of the grants reserved only gold, silver, copper, lead and coal. Royalties levied are 10 cents per long ton on coal and 5 p.c. on the value at the well's mouth for petroleum and natural gas Prospectors must obtain a licence costing \$10 and good for the calendar year. It entitles the prospector to stake up to 10 claims of 40 acres each. Claims must be registered within 30 days and 25 days' work done on each claim within the year, after which a mining licence, renewable annually on the payment of \$10 per claim, will be granted. Administration is carried on under the provisions of the Mining Act (c. 35, R.S.N.B., 1927). For full information apply to the Department of Lands and Mines, Fredericton, N.B.

Quebec.—The mining lands of Quebec are administered by the Minister of Mines, subject to the provisions of the Quebec Mining Act (c. 80, R.S.Q., 1925) and amendments.

In townships the Crown retains full mining rights on lands granted subsequently to July 24, 1880, and, in the case of gold and silver, on lands granted previous to that date. All mining rights belong to the Crown in most of the seigneuries.

Mining lands up to 200 acres in extent can be acquired by staking the ground as prescribed by the Mining Act. Claims must be recorded and 25 days' work per claim done within 12 months, when a mining licence is granted upon payment of 50 cents an acre and a recording fee of \$10. The licence is renewable annually. When a mineral occurrence of importance has been found, the mining rights can be purchased as a mining concession for \$5 per acre for superior minerals and \$3 per acre for inferior minerals.

Mining operators must make annual returns to the Minister. Taxes are payable on annual profits at rates graduated up from 3 p.c. A mining inspector is appointed in each mining division for the administration of the mining laws and regulations.

Information and statistics on mining operations and geological explorations are to be found in the Annual Report of the Quebec Bureau of Mines.

Ontario.—Ontario owns and administers for mining purposes, through her Department of Mines, all the Crown lands within her boundaries except Indian lands. Mining lands are subject to the provisions of the Mining Act (c. 45, R.S.O., 1927). Title is a grant in fee simple, except in provincial forests, where the lands are leased. A resident mining recorder is appointed for each mining division created in the mineral areas. There is a tax on mining lands in unorganized territory of 5c. per acre per annum. Other taxation is on the net profits, the rate being 3 p.c. up to \$1,000,000; 5 p.c. from \$1,000,000 to \$5,000,000 and 6 p.c. on the excess above \$5,000,000. The first \$10,000 of profit is exempt. There is no apex law, all claim boundaries extending vertically downwards. Disputes are settled by the Recorder, or, on appeal, by the judge of the Mining Court of Ontario.

A miner's licence is necessary to stake out or acquire Crown lands for mining purposes, fee \$5 per year for an individual; for companies, \$100 on each million dollars capital. The holder may stake out for himself three claims in any and every mining division, and six additional for other licence holders, but not more than three for any such other licensee. A mining claim in unsurveyed territory is a square of 20 chains to a side (40 acres) with lines N.-S. and E.-W. astronomically. Where land is subdivided into lots a claim may be an eighth, a quarter or a half lot, i.e., up to 50 acres.

There are special provisions regarding petroleum, natural gas, coal and salt on the James Bay slope, where these substances may be searched for under authority of a boring permit. A total of 1,920 acres may be taken up by an individual in blocks of 640 acres. Certain areas have been withdrawn from staking.

Full information concerning the mineral resources of the province and the mining laws may be obtained by writing the Department of Mines, Parliament Buildings, Toronto, Ontario.

Manitoba.—With the transfer of the natural resources to the province of Manitoba on July 15, 1930, control of most of the public lands passed to the Department of Mines and Natural Resources of the Manitoba Government.

The Mines Act (c. 27, 1930) and regulations thereunder govern the administration and leasing of: (1) Mineral claims—gold, silver, copper, zinc, etc.; (2) Boring permits—coal, natural gas, oil shale, petroleum and salt; (3) Quarrying locations—granite, limestone, marble, slate or any building stone, gypsum, gravel, marl, peat and sand.

A miner's licence is necessary to stake out Crown lands for mining purposes; fee is \$5 for an individual and larger amounts for mining partnerships and mining companies. A licensee may stake out for himself three mineral claims and six more for two other licensees, not exceeding nine in all in any mining division. He may also obtain one boring permit or one quarrying location.

A mineral claim in unsurveyed territory is a square of 1,500 feet (51.65 acres) with lines N.-S. and E.-W. astronomically. A boring permit allows 640 acres to be taken up and a quarrying location may cover an area up to 40 acres. The fee is \$5 for recording a claim located by the licensee and \$10 if recorded on behalf of another licensee. After recording, 25 days' work per claim must be done per year for 5 years. A maximum of nine claims may be grouped for the purpose of this work. When 125 days' work has been done, and certain other requirements complied with, a lease is granted. The cost of the survey may be reckoned as one year's work done on the claim.

A boring permit good for one year is necessary to search for oil, coal, gas or salt. If mineral is discovered a 21-year lease may be obtained subject to annual rental and certain annual work.

Lands containing granite, limestone, marble, slate or any building stone, together with clay, gravel, gypsum or sand may be leased at an annual rental, provided \$2.50 per acre per annum be expended in taking out the material.

For a copy of the regulations governing the disposal of mineral rights, apply to the Director, Mines Branch, Department of Mines and Natural Resources, Winnipeg, Manitoba. Mining recorders' offices are located at Winnipeg and The Pas.

Saskatchewan.—On Oct. 1, 1930, the province of Saskatchewan came into control of its natural resources, which had previously been controlled and administered by the Dominion. By the Mineral Resources Act of 1931, regulations, differing somewhat from those of former Dominion laws, have been brought into force dealing with coal, petroleum and natural gas, and placer. Except for these changes, the regulations are similar to the former Dominion ones.

Coal.—The area which may be taken is now from 40 to 640 acres. Application may be made by mail or in person and any eligible person may apply for three locations. The length of a location must not exceed three times the breadth. The minimum required to be mined annually is 5 tons per acre. Prior to commencing, a lessee must secure a permit to operate.

Petroleum and Natural Gas.—Application for locations may be made by mail or in person. The area of a location may be 160 to 1,920 acres but, while one applicant is allowed three locations, the total area must not exceed 1,920 acres. A permit must be obtained before commencing operations and all drillers must secure a

licence of competency to ensure that drilling will be efficiently carried out. The record of a driller may be obtained by payment of a fee. Operators are required to furnish a substantial bond to guarantee compliance with the regulations.

Permits to prospect for oil and gas are granted under similar regulations except that a cash rental of 20 cents per acre is required and a bond of 30 cents per acre which is forfeited if work to determine structure is not carried out within one year.

Placer.—These regulations remain as under Dominion administration except that 30 instead of 10 adjoining claims may now be grouped.

The Saskatchewan Mines Act provides for the competency of mine managers and pit bosses, for the reporting of accidents and generally for the welfare and safety of those employed in the production of minerals.

For further information apply to the Department of Natural Resources, Regina, Saskatchewan.

Alberta.—Since the Dominion Government in 1930 transferred control of the natural resources lying within the boundaries of Alberta to the Provincial Government, the leasing or disposal of mineral lands or rights is administered under provincial laws and regulations. However, for the present, mineral lands or rights within the province are being administered by the Provincial Government in accordance with the Dominion mining laws and regulations in force at the time of the transfer.

The Coal Mines Regulation Act of the province of Alberta and regulations made thereunder make provision for the safe operation of mines in the province, applying to mines of coal, ironstone, shale, clay and other minerals. Operations must be under the control of officials who hold certificates granted after suitable examination. A staff of inspectors is provided to administer the regulations. Monthly reports of operations must be returned to the Minister.

The Coal Sales Act requires that all coal mines shall be registered by name and all coal produced in Alberta sold under the registered name. The Coal Miners' Wages Security Act requires all coal operators to provide bond to insure the payment of wages, unless exemption is obtained through the Board of Public Utility Commissioners.

British Columbia.—The Department of Mines, organized under the provisions of c. 163, R.S.B.C., and amendments, administers mineral lands, and has charge of all matters relating to mining, including the Bureau of Mines and all offices established under the Bureau of Mines Act and all Government offices in connection with the mining industry.

The terms of the mining laws are favourable to the prospector, fees and rentals being small. On a lode mine of 51 acres an expenditure of \$500 in work, which may be spread over 5 years, is required to obtain a Crown grant, while surface rights are obtainable at a figure in no case exceeding \$5 per acre. Any person over the age of 18 and any joint stock company can obtain a "free miner's certificate" on payment of a fee, which for the individual is \$5 per annum and for a joint stock company either \$50 or \$100 per annum depending on capitalization. Mineral claims located under the provisions of the Mineral Act must not exceed 1,500 feet square.

Placer.—Placer mining is governed by the Placer Mining Act and, by the interpretation clause, its scope is defined as "the mining of any natural stratum or bed of earth, gravel, or cement mined for gold or other precious minerals or stones".

Placer Claims.—Placer claims are of 3 classes, as follows: (1) Creek diggings—250 feet long and 1,000 feet wide, 500 feet on each side of the stream; (2) Bar diggings—250 feet square on a bar covered at high water, or a strip 250 feet long at high water, extending between high-water mark and extreme low-water mark; (3) Dry diggings, over which water never extends—250 feet square.

A placer claim must be worked by the owner, or someone on his behalf, continuously during working hours. Discontinuance for 72 hours, except in close season, lay-over, leave of absence, sickness or other reason satisfactory to the Gold Commissioner is deemed abandonment. To hold a placer claim more than one year, it must be again recorded before expiration of the year.

Placer Leases.—Leases of unoccupied Crown lands may be granted by the Gold Commissioner of the district. Placer leases are of 4 classes, as follows:—
(1) Creek lease—on rivers or on abandoned or unworked creeks, half a mile in length; annual rental, \$37.50; annual expenditure required on development, \$250.
(2) Bench lease—80 acres; annual rental, \$25; annual expenditure required on development, \$250.
(3) Dredging lease—on the bed of any river below low-water mark, 5 miles; annual rental, \$25 per mile; annual expenditure required on development, \$1,000 per mile; the value of any new plant or machinery employed to count as money expended in development. (4) Precious stone diggings—10 acres.

Section 2.—Summary of General Production.

Since 1886, the first year that the Geological Survey issued complete returns of mineral production, Canada has shown a fairly steady growth in mineral output. In that year the per capita production was only \$2.23; in 1901, five years after the Yukon discoveries, production totalled \$12.16 per capita, but there was a falling-off from 1902 to 1904. Thereafter, owing to the discovery of silver in the Cobalt area, the development of the copper and nickel ores of the Sudbury district, the opening up of the gold mines of Porcupine and Kirkland Lake in Ontario, the improvements in metallurgical practice which led to the recoveries of large quantities of lead and zinc from British Columbian ores, and the discoveries and developments in Quebec and Manitoba, the per capita production rose to \$31 in 1929, although owing to the current depression it has since dropped to \$17.35 in 1932.

In 1931, the latest year for which the world figures of the Imperial Institute are available, Canada stood first in the production of asbestos and nickel, second in the output of gold, zinc and cobalt, third in silver and copper, fourth in lead, and eleventh in the production of coal. During that year Canada produced 83 p.c. of the world production of nickel, 57 p.c. of the asbestos, 33.4 p.c. of the cobalt, 15.5 p.c. of the zinc, 12.6 p.c. of the gold, 10.6 p.c. of the silver, 9.6 p.c. of the copper and 8.9 p.c. of the lead.

The annual preliminary survey of the Canadian mining industry shows a total estimated valuation of \$182,320,150 for 1932; this is a decrease of 20 p.c. from 1931, reflecting the prolonged and intensified economic depression that has spread over the world in the last three years. Producers of base metals and structural materials were adversely affected by record-breaking low prices for metals combined with an extraordinary decline of industrial activities.

In contrast to the severe reductions in most mineral outputs was the pronounced increase of gold from Canadian mines. The 1932 gold production constituted a new high record for the Dominion and for the third consecutive year established Canada in the position of the second gold-producing country in the

world. Since the suspension of specie payments by Great Britain in September, 1931, there has been a heavy discount on the Canadian dollar in New York. This continues to react to the benefit of the Canadian gold producer. In order to facilitate the meeting of maturing obligations abroad the Canadian Government, in October, 1931, arranged for the purchase of Canadian gold produced after that date.

Field activity during 1932 was chiefly concentrated in the search for new gold deposits. In Ontario the recent gold discoveries of the Swayze area were extensively explored, while in Quebec various new gold properties were developed in the Rouyn area, including the new Cadillac-O'Brien and Bussières mines, which have commenced production. One gold mine in Ontario and one in Manitoba were also brought into production—the Ashley mine located in the Matachewan area of Ontario and the San Antonio situated in the Rice Lake area of Manitoba. British Columbia experienced a wide-spread search for gold properties and alluvial gold production was increased. In the Northwest Territories commercial shipments of silver-radium ores were made for the first time from the deposits of these metals discovered at Great Bear Lake in 1930.

Subsection 1.-General Statistics of Mineral Production.

In Table 1 will be found the total values of the minerals produced in Canada in each year since 1886, while Table 2 gives the details of the mineral production of 1930 and 1931, with the percentage of increase or decrease in the latter year.

1.—Value of Mineral Production in Canada, calendar years 1886-1932.

Calendar Year.	Total Value.	Value per capita.	Calendar Year.	Total Value.	Value per capita.	Calendar Year.	Total Value.	Value per capita.
	\$	-\$		\$	8		\$	\$
1886	10,221,255	2 · 23	1902	63,231,836	11-51	1918	211,301,897	25-93
1887	10,321,331	2 · 23	1903	61,740,513	10-90	1919	176,686,390	21.26
1888	12,518,894	2.67	1904	60,082,771	10.31	1920	227,859,665	26-63
1889	14,013,113	2.96	1905	69,078,999	11.51	1921	171,923,342	19.56
1890	16,763,358	3.51	1906	79,286,697	12.86	1922	184,297,242	20.66
1891	18,976,616	3 ·93	1907	86,865,202	13.55	1923	214,079,331	23.76
1892	16,623,415	3.40	1908	85, 557, 101	12.92	1924	209,583,406	22.92
1893	20,035,082	4.06	1909	91,831,441	13.50	1925	226,583,333	24.38
1894	19,931,158	4-00	1910	106,823,623	15-29	1926	240,437,123	25-44
1895	20,505,917	4.08	1911	103,220,994	14.32	1927	247,356,695	25-67
1896	22,474,256	4.42	1912	135,048,296	18-28	1928	274,989,487	27.97
1897	28,485,023	5.56	1913	145,634,812	19.08	1929	310, 850, 246	31.00
1898	38,412,431	7-42	1914	128,868,075	16-36	1930	279,873,578	27.42
1899	49,284,005	9-41	1915	137, 109, 171	17 · 18	1931	228,029,018	21.97
1900	64,420,877	12-15	1916	177, 201, 534	22-15	19321	182,320,150	17.35
1901	65,797,911	12-25	1917	189,646,821	28 · 53			

Subject to revision.

2.-Mineral Production of Canada, calendar years 1930 and 1931.

Item.	19	30.	193	31.	P.C. Incre or Decre	ease (+) ase (-).
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Metallic.		\$		\$	p.c.	p.c.
Arsenic (As ₇ O ₂)lb. Bismuth	4,524,220 12,732	129,527 6,366	3,575,936 118,207	135,170 157,650	-21:0	+4.4
Cadmium \$ Cobalt "Copper "	_	337 871	·	180,958		-46-4
Copper "	694,163 303,478,356 2,102,068	1,144,007 37,948,359 43,453,601 18,102,635	521,051 292,304,390 2,693,892	651,179 24,114,065	-24·9 - 3·7	-43·1 -36·5
Gold	2,102,068 332,894,163	43,453,601	2,693,892 267,342,482	24,114,065 55,687,688 7,260,183	+28·2 -19·7	+28·2 -44·6
Manganese ore tons Molybdenite (concentrates)	273	1,356	1,222	2,893 2,893	-57·1	+113.8
Nickel	103,768,857	24,455,133	65,666,320	15,267,453	-36.7	-37 ⋅6
iridium, etc fine oz. Platinum"	34,092 34,024	895,867 1,543,261	46,918 44,775	1,217,717 1,596,900	+37·6 +31·6	+35·9 + 3·5
Selenium lb. Silver fine oz. Titanium ore tons	26,443,823	10,089,376	21,500 20,562,247	40,850 6,141,943	-22.2	-39-1
Titanium oretons Zinctb.	412 267,643,505	1,239 9,635,166	1,509	6,141,943 10,261 6,059,249	$^{+266\cdot3}_{-11\cdot4}$	+728·2 -37·1
Totals, Metallic Minerals \$	207,040,000	142,743,764	201,240,401	118,524,439	-1174	-17·8
reserve meranic minerals +	—— <u> </u>	114,110,141		110,002,193		-11.0
Non-Metallic,						
Fuels.						
Coaltons Natural gas M. cu. ft.	14,881,324 29,376,919	52,849,748 10,289,985	12,243,211 25,874,723	41,207,682 9,026,754	-17·7 -11·9	-22·0
Peattons	2,847	10.932	1,674	7,033	-41.2	-12·3 -35·7
Petroleum, crude brl.	1,522,220	5,033,820	1,542,573	4,211,674	+ 1.3	-16·3 -20·1
Totals, Fuels \$	—— <u> </u>	68,184,485		54,453,143		-20-1
Other Non-Metallic Minerals.						
Actinolitetons Asbestos	34 242,114	437 8,390,163	35 164,296	456 4,812,886	+2.9 -32.1	+ 4·3 -42·6
Barytes	66 2,067	1.484	16	363 4,060	-75·8 -50·9	-75·5 -50·9
Distomite" I	554	8,268 13,247	1,015 1,610 18,343	32,789 186,961	+190.6	+147.5
Feldspar	26,796 80	$268,469 \\ 1,240$	18,343 40	สูงกา	-31·5 -50·0	-30·4 -50·0
Granhite " l	1,535	96,392	548	32,149	-64·3 -25·2	- 66-6 -38-6
Grindstones" Gypsum"	830 1, 07 0,968	62,021 2,818,788	621 863, 752	38,103 2,111,517	−19 ·3	-25·1
Iron oxides	6, 5 96 13,336	83,873 336,162	5,520 11,411	49,205 295,579	-16·3 -14·4	-41·3 -12·1
Manganese, bog "	275	1.650	77	462	−72·0	$-72 \cdot 0$
Mineral water gal.	1,170 227,141 40	96,004 24,481 760	1,339 217,408 -	54,066 13,324	+14·4 - 4·3	-43·7 -45·6
Unosphate tons Quartz " Salt "	226,200 271,695	418,127 1 694 631	195,724 259,047	803,158 1,904,149	-13·5 - 4·7	$-27.5 \\ +12.4$
Silica brick M	2,418	1,694,631 97,379	900	1,904,149 35,746	-62·8	-63·3 -31·4
Soapstonetons	364	50,168 4,550	712	34,439 7,351	+95.6	+61.6
Sodium sulphate Sulphur ¹ tons	37,730	293,847 314,835	50, 107	421,097 429,457	+32.8	+43·3 +36·4
Fale	11,841 242	136,048 4,840	11,836 128	122,644 2,560	-0·04 -47·1	- 9·9 -47·1
Totals, Other Non- Metallic Minerals. \$	-	15,217,864	-	10,893,141	-	-28-4
Totals, Non-Metallic Minerals \$	_	83,402,349	_	65,346,281		-21·6

¹Includes sulphur content of pyrites at its sale value and estimated figures for quantity and value of sulphur in smelter gases used for acid making.

2.-Mineral Production of Canada, calendar years 1930 and 1931-concluded.

	····					
Item.	193	30.	195	1.	P.C. Incre or Decre	ase (+) ase (-),
Item.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS.		\$		*	p.c.	p.c.
Clay Products.					}	
Brick— Soft mud process— {Face	11,350 56,487	247,220 861,805	5,476 41,177	116,316 619,857	51·8 27·1	-53·0 -28-1
Face M Common M	99, 284 105, 225	2,135,871 1,480,965	77, 135 81,930	1,752,947 1,205,464	-22·3 -22·1	-17-9 -18-6
Dry press— {Face M (Common M	29,434 16,915	604,197 208,495	20,149 8,688	423,357 107,213	-31·5 -48·6	-29 · 9 48 · 6
Fancy or ornamental brick. M Sewer brick. M Paving brick. M Firebrick. M Fire clay. tons Bentonite. " Fire clay blocks and shapes Hollow blocks. tons Roofing tile. No. Floor tile (quarries). sq. ft.	339 804 9 3,789 2,870 74 165,359 3,056 179,786	27, 649 15, 299 177, 608 25, 975 1, 396 147, 309 1, 667, 783 556	2,253 19 2,248 1,233 187 - 105,635 6,935 107,499	20,773 43,692 682 107,597 14,857 83,039 1,046,634 720 31,415	- 1·2 +180·2 +111·1 -40·7 -57·0 +152·7 -36·1 +126·9 -40·2	-24-6 +185-6 +129-6 -39-4 -42-8 -33-6 -43-6 -37-5 +102-5 -44-1
Drain tile	25,291 - - -	687,070 1,721,815 294,866 281,372	12,518	328,410 1,508,803 257,125 171,952	-50·5	-52·5 -12·4 -12·4 -12·5 -25·5
Totals, Clay Products\$		10,593,578	_ !	7,841,288		-26.0
Other Structural Materials.	44 000 500	4 hr m-n Ac-	10 101 000	12 000 8.0	,	-10-7
Cement brl. Lime tons Sand and gravel " Slate " Stone "	11,032,538 490,802 28,547,511 150 9,994,506	17,713,067 4,038,698 8,844,913 3,000 13,034,209	10, 161,658 344,785 21,748,586 250 8,397,860	15,826,243 2,764,415 6,651,165 5,000 11,070,184	- 7.9 -29.8 -23.8 +66.7 -16.0	-107 -31-6 -20-3 +66-7 -15-1
Totals, Other Structural Materials\$		43,133,887	-	36,317,007	_	-15-8
Totals, Clay Products and Other Structural Ma- terials\$		53,727,465	-	44,158,296		-17-8
Grand Totals\$	_	279,873,578	_	228,029,018	-	-18-5

An interesting comparison of the mineral production of the two years, 1930 and 1931, as to quantities and values, is furnished in Table 3.

The percentage increase or decrease in quantity production of individual minerals is shown in Table 2 above, but owing to the many different units in which the quantity of different minerals is expressed the total volume of production from year to year is difficult to compare, while the wide variations in prices make comparisons of total values misleading. Table 3 is an attempt to overcome these difficulties by working out what the values would be in the later year if prices had remained the

same as in the earlier, thus obtaining the increases or decreases due to changes in quantity alone; these are shown in the last column. Thus, of a total decrease of 18.5 p.c. in the value of mineral production from 1930 to 1931, declining prices accounted for 8.7 p.c., while decreased quantities accounted for 9.8 p.c. In the metallic group decreased production amounted to only 2.7 p.c.; in fuels to 15.5 p.c.; in other non-metallics to 22.5 p.c.; in clay products to 27.4 p.c.; and in other structural materials to 15.4 p.c.

 Mineral Production of Canada, Compared as to Quantity and Value, calendar years 1936 and 1931 ("600" omitted).

Item.	Actual Value 1931.	Value at Prices of 1930.	Actual Value 1930.	Actu Increa (+) c Decre (-)	ase ase	Lov	Oue to ligher +) or ver (-) rices,	Lar or a	Oue to ger (+) Smaller (-) antities.
Metallic.	\$	\$	\$	\$			\$		\$
Arsenie Bismuth Cadmium Cobalt Copper Gold Lead Niekel Palladium, rhodium, etc. Platinum Silver Zine Other metallics	135 158 181 651 24,114 55,688 7,260 15,267 1,218 1,597 41 6,142 6,059	102 59 212 858 36,560 55,688 10,518 15,480 970 2,030 41 7,840 8,542	130 6 338 1,144 37,948 43,454 13,103 24,455 896 1,543 10,089 9,635	+ + + + - 3	5 152 157 493 ,884 ,234 ,188 322 54 41 ,976 ,576		33 99 31 207 12,446 - 3,258 213 248 433 - 1,698 2,483 8	1+11+11+++11+	28 53 126 286 1,388 12,234 2,585 8,975 74 487 41 2,249 1,093
Totals, Metallic Min- erals	118,524	138,905	142,744	- 24	,220	_	20,381	_	3,839
Non-Metallic. Fuels.									
Coal. Natural gas. Petroleum, crude. Peat. Totals, Fuels	41,208 9,027 4,212 7	43,460 9,665 5,100 6	52,849 10,290 5,034 11	- 1 - -	.641 .263 822 4		2,252 38 888 1 3,177	-+	9,389 1,225 66 5
Other Non-Metallic Minerals.					_		•		
Asbestos Diatomite Feldspar Graphite Grindstones Gypsum Iron oxides Magnesite Mica Mineral water Quartz Salt Silica brick Soapstone Sodium sulphate Sulphur Tale Other non-metallics	4,813 33 187 32 38 2,112 296 54 13 303 1,904 421 429 123 16	5,696 38 184 46 2,270 288 110 23 362 1,615 36 419 419 413	8,390 13 268 96 62 2,819 84 836 97 25 418 1,695 97 50 294 315 136	1+1:111111+11++11	707 20 81 64 24 707 35 40 42 115 209 61 16 127 114 13	11+1111+111+ 1++11	883 5 3 2 2 88 566 59 289 4 21 13 1	t+111111+1111++ 1	2,694 25 84 62 16 549 14 48 14 2 56 80 12 125 103
Totals, Other Non- Metallic Minerals	20,893	11,800	15,218	- 4	, 325	_	907	_	3,418

 Mineral Production of Canada, Compared as to Quantity and Value, calendar years 1939 and 1931 ("000" omitted)—concluded.

	==								
Item.	Actual Value 1931.	Value at Prices of 1930.	Actual Value 1930.	In (ctual crease (+) or ecrease (-).	Lo	Oue to ligher +) or wer (-) rices.	or	Oue to ger (+) Smaller () antities.
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS.	\$	\$	\$		\$		\$		\$
Clay Products.									
Brick—Soft mud Face process Common. Stiff mud Face process Common. (wire cut)	116 619 1,753 1,206	119 628 1,659 1,153	247; 862; 2,136; 1,481	=	131 243 383 275		- 3 9 94 53		128 284 477 328
Dry press {Face Common. Fancy or ornamental Sewer brick	428 107 21 44 108	414 107 27 43 105	604 209 28 15 178		181 102 7 29 70	+ - +	9 6 1 3 2	+	190 102 1 28 73
Fireclay blocks, etc. Hollow blocks. Floor tile. Drain tile. Sewer pipe, copings, etc. Pottery, glazed or not.	1,047 1,047 31 828 1,509 267	81 1,066 34 340 1,481 252	147 1,668 56 687 1,722 295	1 1 1	64 621 25 359 213 38	+ - -	19 3 12 28 5	- 1 - I - I	66 602 22 347 241 43
Other clay products	189	185 7. 63 4	259	<u> </u>	70 2,753	_	<u>4</u>	_	2,900
Totals, Clay Products.	7,841	7,634		_	2,795			_	2,590
Other Structural Materials.									
Cement Lime Sand and gravel Stone	15,826 2,765 6,651 11,075	16,330 2,838 6,360 10,955	17,713 4,039 8,345 13,037	_	1,887 1,274 1,694 1,962	+	504 73 291 120		1,383 1,201 1,985 2,082
Totals, Other Struc- tural Materials	36,317	36, 4 83	43,134	_	6,817	_	165	_	4,651
Grand Totals	228,929	252,513	279,874	_	51,845	_	21,484	_	27,361
Increase or Decrease, p.c				_	18.5	_	8.7	_	9.8

Subsection 2.—Provincial Distribution of Mineral Production.

The principal mineral-producing province of Canada in 1931 was Ontario, with an output valued at \$96,113,235. Ontario took the leading position with the development of the Cobalt camp in 1907. British Columbia, which prior to that time was the leading mineral province, continued in second position until 1931 when its production was slightly exceeded by that of Quebec, largely owing to developments in the new northwestern district of that province. Alberta and Nova Scotia, because of their large resources of coal, are also important mineral producers, while in recent years valuable deposits of metallic minerals have been developed in Manitoba. The record of the respective provinces from 1899 is given in Table 4.

4.—Mineral Production of Canada, by Provinces, calendar years 1893-1932.

							·		
Calendar Year.	Nova Scotia. ¹	New Bruns- wick.	Quebec.	Ontario.	Manitoba.	Saskat- chewan.	Alberta.	Yukoo.²	British Colum- bia.
	*	*	\$	\$		•	\$		\$
1899 1900 1901 1902	6,817,274 9,298,479 7,770,159 10,686,549			11,258,099 13,970,010		28,45 19,29	98,707 62,230 97,940 97,400		12,482,605 16,680,526 20,531,833 17,448,031
1904 1905	11,431,914 11,212,746 11,507,047 12,894,303	580,495 559,913 559,635 646,328	3,585,938 3,688,482 4,405,975 5,242,058	12,582,843 18,833,292	ļ	12,71 11,38	12,986 3,613 7,642 2,726		17,899,147 19,325,174 22,386,008 25,299,600
1908 1909	14,532,040 14,487,108 12,504,810 14,195,730	664,467 579,816 657,085 581,942	6.205,553 6,372,949 7,086,265 8,270,136		584,374 1,198,377	413,212 456,246	6,047,447	3,669,290 4,032,678	25,656,056 23,704,035 22,479,006 24,478,572
1912 1913 1914	15,409,397 18,922,236 19,376,183 17,584,639 18,088,342	771,004 1,102,613 1,014,570	9,304,717 11,656,998 18,475,534 11,836,929 11,619,275	42,796,162 51,985,876 59,167,749 53,084,677 61,071,287	1,791,772 2,463,074 2,214,496 2,413,489 1,318,387	1,165,642 881,142 712,313	6,662,673 12,073,589 15,054,046 12,684,234 9,909,347	5,933,242 6,276,737 5,418,185	21,299,305 30,076,635 28,086,312 24,164,039 28,689,425
1917 1918 1919	20,042,262 21,104,542 22,317,108 23,445,215 34,130,017	1,435,024 2,144,017 1,770,945		80,461,323 89,066,600 94,694,093 67,917,998 81,715,808	1,823,576 2,628,264 3,120,600 2,868,378 4,223,461	860,651 1,019,781 1,521,964	13,297,543 16,527,535 23,109,987 21,087,582 33,586,456	4,482,202 2,355,631 1,940,934	39,969,962 36,141,926 42,935,333 34,865,427 39,411,728
1922 1923 1924	28,912,111 25,923,499 29,648,898 23,820,352 17,625,612	1,901,505 2,263,692 2,462,457 1,969,260 1,743,858	17,646,529 20,308,763 19,136,504	57,356,651 65,866,029 80,825,851 86,398,656 87,980,436	1,934,117 2,258,942 1,768,637 1,534,249 2,276,759	1,255,470 1,047,583 1,128,100	30,562,229 27,872,186 31,287,536 22,344,940 25,318,866	1,785,573 2,972,823 952,812	33,230,460 39,423,962 43,757,388 52,298,533 64,485,242
1927 1928 1929 1930	28, 873, 792 30, 111, 221 30, 524, 392 30, 904, 453 27, 019, 367 21, 080, 746 16, 234, 882		46,358,285 41,215,220 35,696,563	84,702,296 89,982,962 99,584,713 117,662,505 113,530,976 98,113,235 79,239,578	3,073,528 2,888,912 4,186,853 5,423,825 5,453,182 9,965,854 8,695,961	1,455,225 1,719,461 2,253,506 2,368,612 1,931,880	26, 977, 027 29, 309, 223 32, 531, 416 34, 739, 986 30, 427, 742 23, 580, 727 21, 163, 727	1,789,044 2,709,957 2,905,736	68,162,878 54,953,320 35,337,756

Includes a small production from Prince Edward Island.
 Includes a small production from the Northwest Territories in 1932.

* Figures for 1932 are subject to revision,

The quantities and values of the minerals produced in each province during 1931 are shown in Table 5. Coal accounted for 90 p.c. of the value of mineral production in Nova Scotia, with gypsum the item of next importance. Coal and gypsum were likewise the most important mineral products of New Brunswick, which was also one of the provinces with a production of natural gas and petroleum. Quebec was the only province in which asbestos was produced. In 1929 this was her principal mineral, but since then asbestos production has been much curtailed. In 1931 cement was the chief mineral product, followed by gold, stone and copper and Quebec led all the provinces in the value of cement and stone produced. Gold represented 45 p.c. of the value of Ontario's mineral production in 1931 and with other metals, of which nickel, copper, silver, the platinoids and cobalt were the chief, made up 76 p.c. of the total for the province. As the most populous province, Ontario had a large production of the various structural materials, and there was also a large production of natural gas, sait and gypsum. Cement and other structural materials were, until recently, the principal mineral products of Manitoba, but developments in the Precambrian formations of the north and east of this province have made it an important producer of metals. Copper and gold

were the chief minerals in 1931, while there was also production of zinc, silver, cement and gypsum. Saskatchewan's mineral production was small and coal constituted about half the total, the remainder being sodium sulphate and structural materials. Coal was the principal product in Alberta, accounting for 55 p.c. of the total, while natural gas, petroleum and cement were the other most important products. The metals, chiefly lead, copper, zinc, gold and silver, made up the greater part of the value of the minerals produced in British Columbia, although owing to the great decline in the prices of most of these metals in 1931, coal became the leading mineral product in point of value for the province. Silver, alluvial gold and lead were the principal mineral products of Yukon.

5.-Mineral Production of Canada, by Provinces, calendar year 1931.

Norz.—The mineral production of Yukon during the calendar year 1931 was as follows in quantities and values:—Gold, 44,310 fine oz., \$915,969; Lead, 4,454,613 lb., \$120,724; Silver, 3,694,728 fine oz., \$1,103,615; Coal, 904 tons, \$5,039; Total, \$2,145,347.

·	1	i						
Mineral.	Nova Scotia.	New Bruns- wick.	Quebec.	Ontario.	Mani- toba.	Saskat- chewan.	Alberta.	British Columbia. –––––
Metallics.								
Arseniclb.	- []		_	3,575,936 135,170		-	-	_
Bismuth		-	-	7,331	-	-	-	110,876
Cadmium\$ Cobalt		-	-	8,532	-	-	-	154,118 180,958
Cobalt	-	-	-	521,051 651,179		_	_	
Copperib.			68,376,985	112,882,625	45,821,432	_	-	65,228,348
Goldfine oz.	460	- 1	5,728,154 300,075	9,096,463 2,085,814	3,835,254 102,969		195	5,459,194 160,069
1	9,509		6,203,101	48,117,600	2,128,558	-	4,031	3,308,920 261,902,236
Leadlb.	. [_	985,633 41,647	-		_	7,097,812
Manganese oretons	60 2,400		<u>-</u>	_		_	_	-
Molybdenite (con-						_	_	
centrates)ib.	_	- [_	1,222 280	l -	_] [
Nickellb.	-	-	_	65,666,320 15,267,453	-	-	-	
Palladium, rhodi-				, ,			-	
um, etc fine oz.	-	1	_	46.918 1.217.717	-	_	-	_
Platinumfine oz.	_	-	-	44,725		-		50
Selenium	_	-	-	1,595,117 16,899	3,870			1,783 731
Silver	48	_	530,345	32,108 7,438,951	7,358	_	- 26	1,389 8,061,599
\$	14		158,414	2,222,014	249,877	-		2,408,000
Titanium oretons		_	1,509 10,261	i -		_		-
Zine, lb.	-	- !	-	-	35,173,749		- '	202,071,702 5,160,911
\$				73,380,280	898,338		4 846	23,773,085
Totals, Metallics \$	11,923	493	12,031,030	10,000,200	1,113,330			20,110,000
Non-Metallics.								
Fuels.	4 055 F44	182,181		_	1,306	689 83A	4,564,015	1.876,406
2	19 016 720	743,196	-		3,797	945,259	13,342,675	
Natural gas M cu.ft.	_	655.891 323.184		7,419,534 4,635,497	600 180		17,798,698 4,067,893	_
Peattons	-	-	1,170 5,937	504		-		
Petroleum, crude brl.		6,577	-	122,365		_ =	1,413,631	
\$		15,461		219,993			3,976,220	
Totals, Fuels \$	19 616,720	1.681.841	5.937	4,856,586	3.977	945,259	21,386,788	7.150.996

5.-Mineral Production of Canada, by Provinces, calendar year 1931-continued.

								
Mineral.	Nova Scotia.	New Bruns- wick.	Quebec.	Ontario.	Mani- toba.	Saskat- chewan.	Alberta.	British Columbia.
Non-Metallics-con.								
Other Non-Metallice.						l		
Actinolitetous	-	_	<u> </u>	35 456	-]	_	_
Asbestostons	_	<u> </u>	164,296	-	-	ļ <u>-</u>	_	_
\$ Barytestons	16		4,812,886	_	_] [_	-
\$ Bituminous sands,tons	363	=	-	-	-	-	1,015	
\$	<u>-</u>	-	_	_	-] [4,060	_
Distomitetons	1,484 29,679	_	_	60 840	-		_	06 2,270
eldspartons		- '	10,381	7,962	<u>-</u>	-	_	
·luorspartons	_	<u>-</u>	86,842	100,119 40	i -		_	
\$	-	_	_	620 548	-	-	-	
Iraphitetous] [_ '	-	32,149	-	-		
irindstonestons	<u>-</u> ,	299 12,308] -	-	-] -		322 25,795
ypsumtons	707,817	58,957	-	53,358	23,076	1411111111	<u>-</u>	20,544
ron oxidestons	878,487	451,264	5,410	374,469	231,124	_ [176, 173 110
\$	-	-	48,205 11,411	_ :	-	-	-	1,000
fagnesitetous	_	_	295,579	-	_	-		_
langanese (bog)tons	_	77 4 62	_		_	-	_	
licatons	_	-	290	1,049	-	-	-	
\$ lineral waterImp. gal.	-	-	30,601 19,868	23,465 197,540	_	-	_	
- 1	2 116	-	4,746	8,578	67 914	-	-	- 510
uartztons	3,116 6,836		26,987 69,759	97,888 148,642	67,214 76,624	-	-	519 1,297
alttons	6,836 27,718 143,761	-	-	281,329 1,760,388	-	-		-
lica brick M	621	-	_	279		-	_	-
oanstone \$	22,044		34,439	13,702		_	-	_
oapstone	-	- 1	-	-	-	-	-	712
odium sulphate \$	-	-		_	-	421,097	_	7,351
ulphur ¹ tons	-	-	14,586 108,617	6,508 65,080	-		-	29,013 255,760
alctons	1	-	100,017	11,806	-	- 1	_	30
olcanic dusttone		-	_	122,044		128		600
\$	-	-	-	-	-	2,560	-	
Totals, Other Non- Metallics \$	1,081,170	161,034	5,491,674	2,650,552	307,748	423,657	1,160	470,246
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS,		·						
Clay Products.							j	
rick— Soft mud process—								
Face M	120	100	<u>-</u> j	4,954 105,606	-	-	302 7 550	_
Соттол М	1,560 780	2,200 3,134		24,478	5,209	415	7,550 1,734	5,427
Stiff mud process	10,660	42,671	- !	373,130	76,688	5,451	22,280	88,477
(wire cut)—					.		0==	M CP
Face M	349 9,970	910 25,669	32,113 766,988	40,935 873,334 17,008	794 17,577	576 20,233	675 12,328	783 26,848
Common M	9,970 3,728	1.7781	56,464	17,008	30	20,233 1,831	379 3,267	712
Dry press—	54,573	26,311	841,868	249,880	360	18.095	ĺ	11,110
Face M	<u>-</u>		2,894 74,970	13,991 300,614	<u>-</u>	27] 720]	2,779 28,937	458 18,116
Common M		Ξ	250	2.719	- [-	3,797	1,922
\$ (· - 1	. - I	2,500	39,767	- 1		36,179	28,767

5.—Mineral Production of Canada, by Provinces, calendar year 1931—concluded.

Clay Products—con. Brick—con. Fancy or ornamental brick	Alberta.	British Columbia.
Brick—con, Fancy or ornamental brick		
Fancy or ornamental brick. M		`
brick		
Sewer brick M		
Paving brick M Firebrick M Firebrick M Fireclay tons S Bentonite tons Fireclay blocks and shapes \$ Hollow blocks tons Roofing tile No Floor tiles (quarries) Sq. ft. Drain tile M Sewer pipe, copings, flue linings, etc \$ Pottery, glazed or unglazed \$ Pottery, glazed or unglazed \$ Pottery, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or unglazed \$ Potters, glazed or 167,533 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,100 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$ Potters, glazed or 170,200 \$	[]]
Paving brick. M Firebrick. M Firebrick. M Fireclay. tons 65 65 65 660 1,930	-	307 10,371
Fireclay	-	19
Fireclay tons 650 1,830 -	24	
Bentonite	1, 193	81,596 636
Fireclay blocks and shapes \$ 7,372 1,776 41,585 41,774 1,278 3,177 8,672 16,706 477,720 346,079 15,703 28,299 6,935 7 20 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7 720 7	-	8,362
Shapes	_	187 935
Hollow blocks tons 7,372 1,776 41,585 41,774 1,278 3,177 Roofing tile No	_	18,076
Roofing tile	5.360	3.313
Floor tiles (quarries) sq. ft Totals, Clay Products. Cement	42,276	33,219
Sewer pipe, copings, filled linings, etc \$ 295,405 - 168,654 696,964 - 27,199 - 73,860 - 10,311 - 27,199 - 73,860 - 167,633 - 322 - 27,199 - 167,633 - 322 - 27,199 - 73,860 - 27,199 - 167,633 - 322 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 - 27,199 -	-	-
Drain tile M 159 3 696 10,210 248 - Sewer pipe, copings, flue linings, etc \$ 295,405 - 168,054 696,964 - Pottery, glazed or unglazed \$ - 27,199 - 73,860 - 1,031 Other clay products \$ - 27,199 - 73,860 - 1,031 Other clay products \$ - 27,199 - 73,860 - 1,031 Other structural Materials. Cement brl - 4,942,323 3,470,056 544,160 - 7,032,895 5,008,826,1267,893 - 1, Lime tons 18,430 1,241 111,496 147,660 21,014 - 18,430 1,241 111,496 147,660 21,014 - 19,448,127,054 84,283 1,22,270 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401 - - 207,000 207,401		-
Sewer pipe, copings, flue linings, etc \$ 295,405 - 168,054 696,964 - ~ ~ Pottery, glazed or unglazed \$ 295,405 - 168,054 696,964 - ~ ~ Pottery, glazed or unglazed \$ 27,199 - 73,860 - 1,031 Other clay products. \$ 167,533 - 322	- 55	1.147
flue linings, etc \$ 295,405 - 168,054 696,964 - 27,199 73,860 - 1,031 Other clay products \$ - 27,199 - 167,633 - 322 Totals, Clay Products . \$ 467,126 143,348 2,360,906 3,552,800 122,628 166,257 Other Structural Materials. Cement bri	1,721	
Other clay products. \$ - - - 167,533 - 322 Totals, Clay Products	227,305	121,075
Other clay products. \$ - - - 167,533 - 322 Totals, Clay Products	146,502	8,533
ducts 8 467,126 143,348 2,360,998 3,552,800 122,628 166,257 Other Structural Materials. - - 4,942,323 3,470,056 544,160 - Cement brl - - 7,092,895 5,008,836 ,267,893 - 1 Lime tons 18,430 11,241 111,496 147,660 21,014 - 79,418 127,054 804,218 1,222,270 207,401 -	178	
Materials. Cement brl - 4,942,323 3,470,056 544,160 - 7,092,895 5,006,896 ,267,893 - 1, Lime tons 18,430 11,241 111,496 147,660 21,014 - 79,418 127,054 804,218 1,222,270 207,401 -	529,716	438,545
Lime. 18,430 11,241 111,496 147,660 21,014 - 79,418 127,054 804,218 1,222,270 207,401 -		
Lime tons 18,430 11,241 11,496 147,660 21,014 - 79,418 127,054 804,218 1,222,270 207,401 -	626,483	
\$ [79.418 127.054 804.218 1.222.270 207.401 -	1,286,080 5,118	1,172,549 29,826
	46,785	277,269
\$ 198 757 18 149 1.952 959 2.562 477 294 178 396 707	1,050,988 313,616	914,322
Slatetons	- [250 5,000
Stone	2,496 9,642	471,717
Totals, Other Structural Materials. \$ 503,807 487,184 15,743,114 11,673,017 2,412,121 396,707 1,	1,656,123	3,444,924
Grand Totals \$ 21,989,746 2,476,919 35,696,563 96,113,235 9,965,854 1,931,889 23,	3, 590, 727	35,337,756

¹ Sulphur content of pyrites at its sale value and estimated quantity and value of sulphur contained in the sulphuric acid made from smelter gases.

Section 3.—Industrial Statistics of Mines and Minerals— Capital, Labour, Wages, etc., in Principal Industries.

Annual statistical reports on the mineral production of Canada have been published for many years, first by the Geological Survey, later by the Mines Branch of the Department of Mines, and since 1921 by the Dominion Bureau of Statistics. Prior to that year the annual statistics of mines were confined chiefly to a presentation of the quantity production of each of the minerals and their value at average market prices for the year. The recent treatment has been extended to

include a general review of the principal mineral industries, such as the copper-gold, silver-lead-zinc and nickel-copper industries, as well as a section on metallurgical works. The additional data include such features as capital employed, numbers of employees, wages and salaries paid, and gross and net production. The aim has been to extend the mining statistics beyond a summary of the production of individual minerals by approaching the subject from the standpoint of industrial organization, definitely illustrating the place which mining holds in the scheme of Canadian productive enterprise.

The net value of the products of the mines, smelters, quarries, sand and gravel pits, oil and gas wells, clay products plants, cement mills and other mineral industries should not be confused with the figures given as the value of mineral production. The values produced by the metallic industries given in Tables 6 and 7 are those reported by the operating companies, and are in each case the settlements received for shipments by mine operators and the additional value obtained when the smelting of these ores is completed in Canada. The totals indicate more nearly the actual return to the different industries than do the values for the several metals in Table 2 of this chapter, where, in the cases of copper, lead, zinc and silver, the values are computed by using the average prices for the year in the principal metal markets. Furthermore, the production figures of Table 2 include all quantities shipped from the mines, while metals absorbed in new metallurgical operations or remaining in stock at smelters and refineries are not included in the industrial figures of Tables 6 and 7. On the other hand, some imported ores and concentrates are treated in Canadian non-ferrous smelting and refining works. The net value of the products of these plants includes, therefore, the net value of the metals recovered from these imported ores and to this extent the net sales shown in Tables 6 and 7 include products not of Canadian origin. Furthermore, the value of gold production is computed at the standard rate of \$20.671834 per fine oz. (Table 9), while the actual return to the industries includes the premiums on gold as well. For these reasons the industrial returns differ from the total of production and, while occasionally smaller as in 1930, are usually larger as in 1931.

The total net value of products of the fuel industries in Table 7 is less than the total production of fuels in Table 2, because the net value of products of the industries is confined to that for which the operators receive some economic return, while the production of the fuel commodities includes all of those commodities produced, whether the producer actually receives payment in any form for them or not. Thus in coal mining, the industrial values in Table 7 include only coal sold, supplied to employees for domestic consumption, or used in making coke and briquettes, whereas the figures of coal production as shown in Table 2 include, in addition to the above, coal consumed for power and other purposes in the coalmining operations and also the difference between coal put on the bank and lifted from the bank. Petroleum producers have a larger monetary return than the actual value of the petroleum produced because many oil wells also produce large quantities of natural gas. On the other hand, the natural gas industry receives a smaller return than the total value of all natural gas produced because some of the gas is produced by the petroleum industry, because of leakage or other loss in piping gas to the consumers, and because a small amount of natural gas is produced by private individuals or groups from their own wells for their own consumption, without any industrial organization intervening between producer and consumer.

For other non-metallic minerals (if the small production of peat normally included with fuels is deducted) and clay products, and structural materials, returns to the producing industries are the same in each case as the total value of the mineral commodities produced.

The Growth of the Mining Industry in Recent Years.—Annual publication of industrial statistics of the mining industry, showing capital employed, the number of employees, the salaries and wages paid, the cost of fuel and electricity, and the net value of the products did not commence until 1921. In connection with the item of capital, operators were requested to report only the capital actually invested in the enterprises, including (1) cost of lands, buildings, plant, machinery and tools, (2) cost of materials on hand, supplies, finished products and ore on dump, and (3) cash, trading and operating accounts and bills receivable. It should be specially noted that no estimate of undeveloped ores was included in the capital.

The substantial growth of the mining industry in Canada during the post-war decade is established by the summary statistics of Table 6. From 1922 to 1929 a period of slowly declining prices—the output increased by 72 p.c., capital investment by 76 p.c., employment by 53 p.c., and the salaries and wages paid by 65 p.c. Progress was most rapid in the metallic mineral industries, where the expansion in net production amounted to 170 p.c. with proportionate increases in capital and employment. The period from 1922 to 1929 was marked by a rising cycle of activity in construction. This is reflected in the expansion of industries engaged in the production of clay products and other structural materials. The output of this group of industries increased by 47 p.c. during the period, while within the group progress was much greater in industries producing cement, gravel and stone than in the clay products industries. The group of non-metallic mineral industries remained relatively stationary in contrast to the other two main groups during this period of rapid expansion. This may be attributed to the fact that coal mining is the predominant industry in the non-metallic group and, under increasing competition from oil fuels and hydro-electric power, did not participate in the general industrial expansion of the period.

Under the influence of the world-wide depression, there has naturally been a recession in the mineral industries generally. As was to be expected, the decline since 1929 has affected the reported capital (3 p.c. lower) much less than employment (23 p.c. lower), output (24 p.c. lower) or salaries and wages (26 p.c. lower). The non-metallic mineral industries appear to have suffered most in spite of the fact that they participated so little in the previous expansion. Their salaries and wages and their net sales dropped to a lower point in 1931 than at any time during the years shown. The mineral industries producing various structural materials in 1931 still had a wage bill and an output larger than in 1926. The price decline in these materials was not severe and demand for them was somewhat maintained by some large construction enterprises and by public works' programs, road improvements and so forth. The metallic mineral industries, although showing the greatest expansion up to 1929, had declined the least from that point in 1931. Their salaries and wages and net sales were still above the 1927 level in spite of the drastic declines in the prices of a number of the metals. A number of the industries within this group have been helped by the relative rise in the value of gold. However, the figures are strong evidence that Canada's metal-producing industries have been established upon a solid foundation since, after so rapid an expansion, they have been able to withstand so well the shock of the depression.

6.—Summary of the Principal Statistics of the Mineral Industries in Canada, by Groups, 1921-31, and by Provinces, 1931.

						. · <u>-</u>
Group and Year.	Firms.	Capital Employed.	Employees.	Salaries and Wages.	Fuel and Electricity	Net Sales.1
METALLIC MINERALS.	No.	\$	No.	\$		\$
1921	378		12, 133	16,232,998 18,361,667 25,794,032	3,914,615	48, 133, 974
1922	408	165,975,343	13, 138	18,361,667	1,649,856	
1923 1924	339 296	240,889,284	16,472	25,794,032	7,904,820	68,612,936 86,825,610 105,700,888 115,939,119 121,062,811 140,770,772
1925	323	290.534.965	19,809 20,664	32,732,782	8.721.063	105 700 839
1926	396	320,248,840	23,742	36,033,798	10.023.885	115,939,119
1927	479	335,708,206	20,664 23,742 26,343	29,692,896 32,732,782 36,033,798 40,284,887	10,411,397	121,062,811
1928	508	100,051,010	40,004	44,687,131	1 9,750,573	140,770,772
1929 1930	485 325	427,498,178 427,439,265	31,125 30,633	50,279,511 48,851,303	11,221,987 11,323,313	163,050,366 136,994,693
1931	312 312	390,908,034	25,434	41,829,288	10,340,523	132,382,514
Non-Metallic Minerals.						
1921	718	265,701,593	37,713	52,292,357	4.881.4402	87,842,682
1922	742	232,888,769	37,713 37,958	52,292,357 45,225,900 53,428,264	4,028,784° 6,422,352	87,842,682 82,976,794 91,936,732 71,796,009
1923	925	243,105,227	39,060	53,428,264	6,422,352	91,936,732
1924 1925	935 959		83,831 31,560	41,933,916 40,032,918	5,788,085 5,685,294	71,795,009 71,851,801
1926	967	274,109,129	36,166	44,379,854	6,535,609	85,240,144
1927	922	279 737 591	87,949	48 273 491	5 402 867	85, 205, 431
1928	862	295,725,531	39,086	54,089,011	5.824.0981	89.312.961
1929	873	317,302,493	40,080	55,602,313	6,088,778	93,596,188
1930 1931	901 843	328,776,596 325,168,359	38,355 34,075	47,852,675 36,031,233	5,785,488 4,870,674	80,063,355 61,629,210
1001	049	020,100,505	91,010	00,001,290	4,040,044	01,028,210
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS.						
1921	657	93,805,112	10,958	10,636,285	5,489,1272	34,737,428
1922	794	94,830,711	11,153	11,438,934	5,417,924	39,534,741
1923 1924	1,031 983	94,830,711 94,842,501 91,254,717 88,516,534	11,420	12,112,581 11,160,609	6,930,164 6,010,861	37,751,381
1925	1.072	88 516 534	10,688 12,866	12 337 418	6, 159, 443	35,380,869 37,649,234 39,959,398
1926	1,064	94.392.039	18.023	12,337,418 13,803,161	6,159,443 6,958,810	39,959,398
1927	949	98,627,203	20,382	15,662,514 17,177,880 18,608,687	7,145,990 7,851,330	44,809,419
1928	975	110,914,805	21,780	17,177,880	7,851,330	49,737,181
1929. 1930.	1,028	94,392,039 98,627,203 110,914,805 122,220,364 131,204,998	18,023 20,382 21,780 23,897 20,222	18,608,687 17,271,354	9,495,825 7,957,397	44,809,419 49,737,181 58,534,834 53,727,465
1931	1,252 1,242	125,983,627	20,222 13,300	14,108,778	6.298.151	44,158,295
***************************************	1,512	120,500,027	10,000	14,100,110	0,200,101	11,150,200
Grand Totals, Mineral Industries—						
1921	1,741	559, 514, 154	60,864	79, 161, 640	14,285,182	170,714, 0 84 182,858,578
1922	1.944	493,694,823	60,804 62,249 66,952	75.026.5011	11,096,5642	182,858,578
1923	2,295 2,214	493,694,823 578,837,612 632,443,946	66,952	31,334,877	11,096,564° 21,257,336 19,587,452	158,301,049
1924 1925	2,314	632,443,916 632,675,145	61,328 65,090	82,787,421 85,103,118	78 SES MAGI	194,002,488 215,201,873
1926	2,254 3,427	200 750 BES	77,931	\$4,216,813	23.518.364	241.138.661
1927	2,350	714,073,000	84.674	94,216,813 194,229,892 115,954,022		251,077,661 279.820,914
1928	2,345	X41.367.3921	89,448	115,954,022	23,432,001 26,751,585	279.820,914
1929	2,386	967,021,633 887,420,859	95, 102	124,490,511 113,975,332 91,969,299 15,302,444 1,048,860	25,701,085	315,181,388 270,785,513
1931—Canada	2,478 2,397	842.000.020	88,200 72,809	91.969.299	25,066,193 21,509,348 2,020,666	238, 176, 619
Nova Scotis New Brunswick	69	842,069,029 63,853,580 5,543,570	14,871	15,302,444	2,020,666	238,170,019 19,258,296
New Brunswick	52	5,543,570	1,197	1,048,860	163,893	2,137,832
Quepec,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	452	146,067,130	11,141	12,000,080	5,607,812 7,508,844	44,064,907
Ontario	1,014 51	305,883,585 39,113,921	20,277 2,059	30,470,475 3,096,332	796,0761	98,509,571 15,122,432
Saskatche wan	76	7 136 8591	1.092	896,131	222.526	1.876.284
Alberta British Columbia	401	141,629,189	10,579	11,357,722	1.198.8901	23,021,495
British Columbia	276	127,009,722	11,297	16,845,887	3,874,529 116,112	31,925,780
Yukon	6	5,822,464	296	784,862	115,112	2,253,422
	<u></u>		<u></u>	!	<u> </u>	

 $^{^2}$ Gross value less freight and treatment charges and less value of ores charged in the case of smelters. 3 Electricity was not included in 1921 and 1922.

A summary of the principal statistics of the mining, metallurgical, clay products and other structural materials industries operating in Canada in 1930 and 1931 is presented in Table 7. Of these industries, coal mining provided the largest employment and paid the largest wage bill, with auriferous quartz second and non-ferrous metal smelting and refining third. In the amount of capital invested the smelting industry was highest, with coal mining second and auriferous quartz third. In net sales smelting led again, with auriferous quartz a very close second, coal mining third, copper-gold-silver fourth, cement fifth, and the stone industry sixth.

The only mineral industries to show increased returns in 1931 over 1930 were: alluvial gold, auriferous quartz, copper-gold-silver, salt, and miscellaneous non-metallics (due chiefly to an increase in sodium sulphate). Important industries which showed the most pronounced falling off were: silver-cobalt, silver-lead-zine, and asbestos, all of which declined by from 43 p.c. to 51 p.c.

7.—Summary of the Principal Statistics of the Mineral Industries of Canada, by Industries, 1930 and 1931.

Industry and Year.	Firms.	Capital Employed	Em- ployees.	Salaries and Wages.	Fuel and Electri- city.	Net Sales.
Metallic Minerals.	No.	\$	No.	\$	\$	\$
Alluvial gold1930		5,881,620	394			877,778
1931 Auriferous quartz1930	109 54	5,908,001 119,758,057	337 8 401	682,935 14,034,620	$\begin{bmatrix} 41,745 \\ 2.364,102 \end{bmatrix}$	1,226,541 39,777,739
1931	68	109,933,164	9,636	16,467,165	2.700.326	49.144.578
Copper-gold-silver1930	61 53	45,844,395 37,127,920	5,694 3,351	9,156,759 4,958,317	1,272,262 726,502	15,629,564 15,951,103
1931 Silver-cobalt		12,268,322			352,844	3,637,181
1931	22	9,352,526	786			1,925,593
Silver-lead-zinc	86 39	42,053,674 31,152,078		4,263,961 2,149,921	654,685 485,106	13,000,815 6,351,975
Nickel-copper	2	26, 194, 605	3,483	5,388,783	200,151	8,460,556
Miscellaneous metals	3 10:	21,320,977 427,906	2,133		105,403 5,100	7,589,836 2,595
Miscellaneous metals		444,179	116 32		5,100 576	13,484
Smelting and refining1930	10	175,010,686	8,626	13,796,124	6,465,897	55,635,664
1981	11	175,669,195	7,860	13,245,327	6,053,398	50, 229, 4542
Totals, Metallic Minerals 1930 1931	325 312	427,439,265 390,908,034		48,851,303 41,829,288		138,994,693 132,382,514
Non-Metallic Minerals.						
Fuels.						
Coal	390 412	140,316,395 135,712,866		36,442,361 28,802,428	3,595,416 3,060,487	49,905,327 37,762,927
Natural gas	124	70,548,358	1.941		38,811	8,447,385
1931	145	71,085,678	1,692		26,921	8,232,822 6,481,847
Petroleum	234 160	63,300,244 57,620,950	1,869 1,269	3,337,754 1,634,517	363,998 303,511	4.733.287
Totals, Fuels	748	274, 164, 992	32,982	12, 129, 818	3,993,225	64,834,559
1931	717	264, 419, 494	30,761	32,508,967	3,390,919	50,729,036
Other Non-Metallic Minerals.						
Abrasives (natural)	10 8	345,102 569,772	45 31	42,867 25,837	4,305 3,906	80,108 73,452
Asbestos	7 7	35,097,872 40,164,005	2,770 1,675	3,474,215 1,836,115	1,133,737 849,047	8,390,163 4,812,886
Feldspar and quartz	51 33	870,488 1,342,668	429 166	257,388 135,809	35 645 20 996	686,596 490,119
Gypsum	16	8,796,865	822 676	781,639 656,590	201,409 188,524	2,818,788 2,111,517
1931 Iron oxides1930	17 4	7,941,082 150,704:	43	41.238	13.929	83,873
1931	4	181,535	30	29, 194	8,560	49,205 96,004
Mica	18 11	441,744 276,356	244 28	63,316 22,556	1,102 444	54,066

For footnotes see end of table, p. 353

 Summary of the Principal Statistics of the Mineral Industries of Canada, by Industries, 1930 and 1931—concluded.

			. — —	·		
Industry and Year.	Firms.	Capital Employed.	Em- ployees.	Salaries and Wages.	Fuel and Electri- city.	Net Sales, ²
Non-Metallic Minerals—cob.	No.	8	No.	\$	\$	\$
Other Non-Metallic Minerals-con.						
Salt		4,685,549	381	455,539	197,313	1,694,631
1931 Talc and soapstone	7·	614,384	363 141	446,984 79,472	184,001 16,369	1,904,149 186,216
1931 Miscellaneous ³	5 38 34	618,590 3,608,896 5,457,930	70 498 275	79,472 71,787 527,183 297,394	19,128 188,449 205,149	157,083 1,192,417 1,247,697
Totals, Other Non-Metallic Minerals, 1936 1931	153 126	54,611,604 60,748,865	5,373 3,314	5,722,857 3,522,266	1,792,258 1,479,755	15,228,796 10,900,174
Totals, Non-Metallic Minerals 1938	901	328,776,596	38,355	47,852,675	5,785,483	30,063,355
1931	843	325,168,359	34,07\$	36,031,233	4,870,674	61,629,210
CLAY PRODUCTS AND OTHER STRUC- TURAL MATERIALS.		1				
Clay Products.			·			
Brick, tile and sewer pipe1930	186 171	32,757,926 33,159,664	4,870 3,131	4,807,380 3,428,142	1,910,899 1,476,870	10,296,960 7,585,310
Stoneware and pottery	5	672,851 659,500	156 128	153,750 113,108	11,707 9,568	296,618 255,978
Totals, Clay Products1930	191 175	33,430,777	5,026 3,259	4,961,130	1,922,606	10,593,578 7,841,288
Other Structural Materials.						
Cement	8 9	59,210,737 57,378,436	2,817 1,820	3,172,198 2,432,950		17,713,067 15,826,243
Lime	44 54	8,816,879 7,289,990	1,086	1,087,778	886,354 612,278	4,038,698 2,764,415
Sand and gravel	724 704	7,550,217 8,635,241	5,601 3,224	785,868 2,508,037 2,878,011	331,010	8,344,913 6,651,165
Stone	285 300	22,196,388 18,860,796	6,192 4,198	2,878,011 5,542,211 4,470,699	292,892 697,060 625,673	13,037,209 11,075,184
Totals, Other Structural Mater-		10,000,130		1,170,000		
ials1930	1,061	97,774,221	15, 196	12,310,224	6,034,791	43,133,887
1933	1,067	92,164,463	10,041	10,567.528	4,811,713	36,317,007
Totals, Structural Materials and Clay Products1930	1,252	131,201,998	20,222	17,271,354	7,957,397	53,727,465
1931	1,242	125,983,627	13,300	14, 198, 778	\$,298,1 51	44,158,295
Grand Totals, Mineral Indus- tries	2,478	887,420,859	69,200	113,975,332	25,066 ,1 9 3	270,785,513
1931	2,397	842,060,020	73,809	91,969,299	21,509,348	238, 170, 019

Value of shipments by mine operators and of products sold by metallurgical works, less estimated cost of ores, concentrates, matte, etc., treated, irrespective of their origin. The major part of the value of ores treated is included as products of mines and mills, but there is necessarily a lag between production of ores and sales of smelter products, while some imported ores are also treated in Canadian smelters.

² Value added by smelting and refining. ³ Includes a small production of peat, normally included in fuels.

Section 4.—Production of Metallic Minerals.

Subsection 1.—Gold.

Canada has been a gold-producing country for over 75 years. During the last half of the 19th century production was chiefly the result of placer operations in British Columbia and Yukon, while during the present century there has been a rapid growth of production from lode mining both of auriferous quartz and of gold in association with other metals.

In 1931 the value of gold produced in Canada exceeded that of coal for the first time. Under the influence of the current depression, the production of coal has declined in quantity and value, while the general decline in commodity prices and the heavy discount to which the Canadian dollar has been subjected in New York, have reacted to the immediate benefit of Canadian gold producers. Thus gold ranked first among the minerals in 1931 and 1932. Favourable results from prospecting and exploration, new mines coming into production, and plans for expansion in a number of producing mines, give every prospect for a continued increase in gold production.

Prior to 1924 gold production in Canada attained a maximum in 1900, when the Yukon production reached its highest point and 1,350,057 fine oz. of gold were produced. For the provinces and Yukon, the years in which the greatest yields were obtained were: Nova Scotia, 1902; Quebec, 1932; Ontario, 1932; Manitoba, 1932; Alberta, 1896; British Columbia, 1913 and Yukon, 1900. The quantities and values of gold produced in Canada are given by provinces for 1911 and subsequent years in Tables 8 and 9, 1932 establishing a new record of production with 3,050,581 fine oz.

British Columbia .-- The discovery of gold in paying quantities was an epochmaking event in the history of British Columbia. In the late '50's, alluvial gold was discovered along the Thompson river and in 1858 the famous Fraser River rush took place. The extraordinarily rich deposits of Williams and Lightning creeks, in the Cariboo district, were discovered in 1860 and three years later the area had a production of alluvial gold valued at \$4,000,000. In the northern part of the province, the Atlin division of the Cassiar district was prospected in 1892. Then the introduction of lode mining resulted in a rapidly increasing production until 1902, when previous records were surpassed by an output of more than 288,000 fine oz. Except for the maximum output of 297,459 fine oz. in 1913, the record of 1902 has not since been equalled. Though the bulk of the gold obtained in the Cordilleran region has been derived from the placer deposits of the central portion of the region from Yukon at the north almost to the International Boundary on the south, yet a large amount, averaging 178,039 fine oz. between 1913 and 1921, was obtained by lode mining, largely of the copper-gold ores of the Rossland and Yale boundary districts. The copper concentrates of the Britannia mine also contain gold, as does the blister copper made at Anyox. The output of gold in British Columbia has been in part maintained by the successful operation of the Premier mine on the Portland canal. The Pioneer gold mine in the Lillooet district has reported a substantial production of gold during the past three years and production is expanding. Placer prospecting in British Columbia experienced a distinct revival during the 1931 and 1932 seasons and resulted in pronounced activity, especially in the Stikine, Liard, Cariboo and Atlin districts.

Yukon.—The discovery of gold in the Yukon River valley was reported in 1869, and bar-mining on the tributaries of the Yukon was conducted with increasing profit between 1881 and 1886. Ten years later, rich discoveries were made in creeks of the Klondike river, a right-bank tributary joining the Yukon at what is now Dawson city, and one of the greatest rushes in history was made to this locality. The richest streams in the district were Bonanza creek and its principal tributary, the Eldorado. There is still a production of gold from alluvial operations in Yukon.

Nova Scotia.—Gold was discovered in Nova Scotia in 1860. Two years after the discovery gold valued at nearly \$142,000 was recovered from the quartz veins; a steady, though in recent years declining, output has been reported since that time.

Ouebec.—Although Quebec produced gold as early as 1823, production consisted only of the small quantities recovered in the treatment of the lead and zine ores of the Notre-Dame-des-Anges district and from the gravels of the Chaudière river. Important discoveries of copper-gold deposits, however, were more recently made at Rouyn, in the northwestern part of the province, adjacent to the Kirkland Smelting facilities became available for this region as Lake district of Ontario. the result of the opening of the Noranda smelter in December, 1927. tion of this smelter, together with the development of new gold properties in the northwestern part of the province, has established Quebec as the second largest gold-producing province. During 1932 extensive exploration and development of new gold properties throughout the Rouyn district included the commencement of construction on a 600-800 ton mill in Duparquet township by the Beattie Gold Mines Ltd., and the beginning of mill production by the Cadillac-O'Brien gold mine in Cadillac township. Several prospects situated in Pascalis, Louvicourt, Senneville and Bourlamaque townships were active and results were reported as encouraging. In this field the Treadwell Yukon Co. commenced operating a test milling plant on their Bussières claims. The Siscoe mine in Dubuisson township and the Granada in Rouyn township were in continuous operation during 1931. The Noranda mine and smelter experienced a successful year and although there was some reduction in copper output the value of precious metals was considerably increased.

Ontario.—Although gold was first discovered in 1866 in Hastings Co. and was later found and worked at many points from there to the lake of the Woods in the west, a distance of roughly 900 miles, no permanent gold-mining industry was established until 1911, when the Porcupine camp was opened up. Soon afterwards the discovery of gold in the Kirkland Lake area, on what is now the Wright-Hargreaves mine, led to the later development of this second camp. Porcupine was the most important gold-mining area of the province and of Canada from 1912 until 1930, with the Hollinger the leading mine. In 1931 and 1932, however, output from the Kirkland Lake camp exceeded that of the older area and the Lake Shore mine increased its production beyond that of any other Canadian gold mine.

Active prospecting and development were carried on during 1932 in a number of Precambrian areas in Ontario. In the Matachewan district the Ashley mine was brought into production; exploration of prospects was widespread in the Three Duck Lakes area and in Swayze township where the Kenty Gold Mines started sinking two 500-foot shafts. In the northwestern part of the province the Howey gold mine was in continuous operation and the Moss gold mines operated their new mill for the first time. The larger gold mines of the Porcupine and Kirkland Lake areas experienced a successful year resulting in increased gold outputs for both camps.

Manitoba.—The presence of gold-bearing ores in Manitoba has been known for a decade or more and the gold production of this province is now mounting. The Central Manitoba, an auriferous-quartz property in the Rice Lake area east of lake Winnipeg, has produced gold steadily for several years and the San Antonio in the same field has had a mill operating since May, 1932. The major part of the gold of the province is, however, produced as a by-product from the Flin Flon smelter which treats copper-zinc ores. Important gold discoveries were reported in the autumn of 1931 at Island lake, which lies near the Ontario boundary to the northeast of lake Winnipeg.

8.—Quantities of Gold Produced in Canada, by Provinces, calendar years 1911-32.

Note.—For the years 1892 to 1910, see Canada Year Book, 1916-17, pp. 268 and 269.

Year.	Nova Scotia.	Quebec.	Ontario.	Manitoba.	Alberta.	British Columbia.	Yukon.	Total.
	oz. fine.	oz. fine.	oz. fine.	oz. fine.	oz. fine.	oz. fine.	oz. fine.	oz. fine.
1911 1912 1913 1914 1914	7,781 4,385 2,174 2,904 6,636	613 642 701 1,292 1,099	2,062 86,523 219,801 268,264 406,577		10 73 - 48 195	238,496 251,815 297,459 252,730 273,376	268,447 282,838 247,940	473,159 611,885 802,973 773,178 918,636
1916	4,562 2,210 1,176 850 690	1,034 1,511 1,939 1,470 955	492,481 423,261 411,976 505,739 564,995	440 1,926 724	82 - 27 24	219,633 133,742 180,163 167,252 124,808	212,700 177,667 102,474 90,705 72,778	930, 492 738, 831 699, 681 766, 764 765, 007
1921 1922 1923 1924 1925	439 1,042 655 1,047 1,626	635 667 833 1,802	708,213 1,000,340 971,704 1,241,728 1,461,039	156 31	49	150,792 207,370 200,140 245,719 219,227	60, 144	926,329 1,263,364 1,233,341 1,525,392 1,735,735
1926 1927 1928 1929 1930 1931	1,678 3,151 1,290 2,687 1,272 460 964	3,680 8,331 60,006 90,798 141,747 300,075 401,105	1,497,215 1,627,050 1,578,434 1,622,267 1,736,012 2,085,814 2,287,280	188 182 19,813 22,455 23,189 102,969 121,982	42 68	196,617 154,204 164,331 160,069	25,601 30,985 34,364 35,892 35,517 44,810 40,607	1,754,228 1,852,785 1,890,592 1,928,308 2,102,068 2,693,892 3,050,5812

¹ Figures for 1932 are subject to revision.

9.-Values of Gold Produced in Canada, by Provinces, calendar years 1911-32.

Norg.—For the years 1862 to 1910, see Canada Year Book, 1916-17, p. 270.

(Value calculated on basis 1 fine oz. = \$20.671834.)

Year,	Nova Scotia.	Quebec.	Ontario.	Manitoba.	Alberta.	British Columbia.	Yukon.	Total.
	\$	\$	\$	\$	8	\$. \$	
1911	160,854 90,638 44,935 60,031 137,180	18,270 14,491 26,708	1,788,596 4,543,690 5,545,509	-	207 1,509 - 992 4,026	5,205,485 6,149,027 5,224,393	4,634,574 5,549,296 5,846,780 5,125 374 4,758,098	12,648,794 16,598,923 15,983,007
1916	94,305 45,685 24,310 17,571 14,263	31,235 40,083 30,388		9,095 39,814 14,966	558 500	2,764,693 3,724,300	3,672,703 2,118,325 1,875,039	14,463,689 15,850,423

² Includes 12 oz. from Saskatchewan.

Values of Gold Produced in Canada, by Provinces, calendar years 1911-32 concluded.

Year.	Nova Scotia.	Quebec.	Ontario.	Manitoba.	Alberta.	British Columbia.	Yukon.	Total.
1921 1922 1923 1924 1925	9,075 21,540 13,540 21,643 33,612	13,788 18,253	14,640,062 20,678,862 20,085,904 25,668,795 30,202,357	3,225 641	_	3, 117, 147, 4, 286, 718, 4, 137, 261, 5, 079, 462, 4, 531, 824	1,243,287	19, 148, 920 26, 116, 050 25, 495, 421 31, 532, 443 35, 830, 826
1926	34, 687, 65, 137, 26, 667 55, 545, 26, 295	172,217 1,240,434 1,876,931 2,930,170	30,950,180 33,634,108 32,629,126 33,535,234 35,886,552	3,762 409,571 464,186 479,359	868 1,406 103	4,064,434 3,187,680 3,397,023	529,220 639,483 710,367 741,954 734,202	36,263,110 38,300,464 39,082,005 39,861,663 43,453,601
1931 1932 ¹	9,509 19,928		43, 117, 600 47, 282, 272	2,128,558 2,521,592	4,031 2,294	3,308,920 4,103,772	915,969 839,421	55,687 63,061

Subject to revision.

World Production.—A sketch of the development of the gold-mining industry of the world since the discovery of America may refer to four successive periods. During the first period, extending from 1493 to 1760, the annual production averaged nearly 337,000 fine oz. The placer mining of Brazil and Colombia swelled the average output of the last 60 years of the period to about 606,000 fine oz. per year.

The production of Russia from placer mining was a considerable factor in the next period, extending from 1761 to 1840, that country retaining first rank among the world's producers until 1837. The average annual production during the period was 565,500 fine oz.

The third period, extending from 1841 to 1890, was notable for the remarkable discoveries of gold in California and Australia in 1848 and 1851 respectively. The annual average during the 50 years was 4,937,000 fine oz. For the first decade the average was 1,761,000 fine oz. and for the second 6,448,000, while in the last decade it declined to 5,201,000. The production of the period was contributed chiefly by the United States, Australia and Russia.

In the fourth period, extending from 1891 to the present time, the outstanding features were the entry of South Africa as an important and later as the leading producer, and the phenomenal increase in the output of most of the gold-producing countries through the introduction of the cyanide process. The output was 6,320,000 fine oz. in 1891 and a steady increase was recorded until 1915, when a maximum of 22,737,000 fine oz. was produced. Thereafter the great increase in wages and in the other costs of production of an article of fixed value brought about a steady decline to a minimum production of 15,451,945 fine oz. in 1922, increased to 17,790,597 fine oz. in 1923, to 19,025,942 in 1925, to 19,700,000 in 1928, and to 22,819,000 in 1931, a total exceeding the former maximum of 1915. The annual world production for this period is shown in Table 10.

² Includes \$248 from Saskatchewan.

10.—Quantities and Values of World Production of Gold, 1891-1931.

(From the Annual Report of the Director of the United States Mint.)

Year.	Quantity.	Value.	Year.	Quantiy.	Value.	Year.	Quantity.	Value.
1891 1892 1893 1894 1896 1896 1897 1898 1899	oz. fine. 6,320, 194 7,094,266 7,618,811 8,764,362 9,615,190 9,783,914 11,420,068 13,877,806 14,837,775 12,315,135	\$ 130,650,000 146,651,500 157,494,800 181,175,600 198,763,600 202,251,600 236,078,700 286,879,700 303,724,100 254,576,300	1905	oz. fine. 18, 396, 451 19, 471, 080 19, 977, 260 21, 422, 244 21, 965, 111 72, 022, 180 22, 397, 136 22, 605, 068 22, 254, 983 21, 801, 836	\$380, 288, 300 402,503,000 412,966,600 422,837,000 454,059,100 455,239,100 462,989,761 467,0551,329 460,0551,329 440,348,027	1919 1920 1921 1922 1923 1924 1925 1926 1927	oz. fine. 17,698,184 16,130,110 15,974,962 15,451,945 17,790,597 19,031,001 19,025,942 19,349,118 19,431,194 19,700,049	\$ 365,853,933 332,823,934 330,231,792 319,420,063 367,764,279 393,405,653 393,301,128 399,981,749 401,678,427 407,236,156
1901 1902 1903 1904	12,625,527 14,354,68) 15,852,620 16,804,372	260,992,900 295,737,600 327,702,700 347,377,200	1916 1917	22,737,520 22,031,094 20,345,528 18,614,039	470,026 251 455,423,136 420,579,351 384,786,306	1930 1931	19,500,152 20,836,318 22,818,701	

In 1931 the world's chief producers were the Union of South Africa, with a production of 10,877,777 fine oz. or 47.6 p.c., Canada, producing 2,693,892 fine oz. or 11.8 p.c.¹, and the United States, producing 2,213,741 fine oz. or 9.7 p.c. As Australia, Rhodesia and British India were also important producers over 68 p.c. of the world production of 1931 was produced in the British Empire. Preliminary figures for 1932 show that Canada again led the United States in gold production and now definitely ranks second to South Africa.

Detailed statistics of world gold production for 1930 and 1931 follow.

11 — Quantities and Values of the World Production of Gold and Silver, by Countries, calendar years 1930 and 1931.

(Abridged from the Annual Report of the Director of the United States Mint.)

	[Calendar	Year 1930		Calendar Year 1931.				
Country.	Gold.		Silver.		Gold.		Silver.		
	Quantity	Value.	Quantity.	Value (\$0.38724 per oz.).1	Quantity.	Value.	Quantity.	Value (\$0-29013 per oz.).1	
	oz. fine.		oz. fine.	\$	oz. fine.		oz. fine.	\$	
North America— United States Canada Mexico	2,107,073	48,557,064	26,485,935	19,604,894 10,237,051 40,819,321	2,695,219	45,762,088 55,715,121 12,878,615	20,558,216	5,964,558	
Totals ⁵	4,877,956	100,836,299	182,474,090	70,661,260	5,531,963	114,355,824	137,444,715	39,876,83	
Central America and West Indies ² .	58,050	1,200,000	3,900,000	1,510,236	677,250	1,400,000	4,000,000	1,160,526	
South America— Bolivia Brazii Chile Colombia Ecuador	16,479 96,750 16,686 158,727 69,998	2,000,000 844,930 3,281,188	20,000 ³ 732,441 60,000 ³	7,745 283,630 23,234	115,473 16,718 194,268	2,387,038 345,591 4,015,885	10,000 ⁸ 872,361 40,000 ³	1,674,719 2,907 108,033 11,606 30,395	
Guiana— British Dutch French Peru.	6,933 3,948 43,538 90,052	81,620 900,000 1,861,540	7,500 ² 15,500,351	6,002,356	43,531 79,410	95,028 899,865 1,641,550	6,000°	1,741 2,598,707 1,213	
Venezuela Totals ⁸	55,946 560,057	1,156,494	4,179 23,536,698	l 		11,993,679			

¹ This percentage, derived from world production as reported by the Director of the United States Mint, is slightly less than that derived from estimates of the Imperial Institute as given on p. 339.

11.—Quantities and Values of the World Production of Gold and Silver, by Countries, calendar years 1939 and 1931—concluded.

	<u></u>	Calenda	Year 1930		Calendar Year 1931.				
		old.	(sa	ver.	Ge	old.		ver.	
Country.	Quantity.	Value.	Quantity.	Value (\$0.38724 per oz.).1	Quantity.	Value.	Quantity.	Value (\$0.29013 per oz.).1	
Енгоре	oz. fine.	*	oz, fine.	\$	oz. fine.	*	oz. fine.	*	
Czechoslovakia France Germany Italy Roumania Russia Spain Sweden	42,663 6,076 1,723 85,904	881,922 125,602 35,627 1,775,793 29,636,465 10,000	652,002 5,485,433 571,653 142,038 300,000 2,659,223	252,481 2,124,179 221,367 55,002 116,172	42,663 4,115 2,165 96,482 1,700,960 483	881,922 85,064 44,757 1,994,460 35,161,963 10,000	652,002 5,784,588 719,324 155,798 350,000 3,098,713	189,165 1,678,283 208,698 45,201 101,545 899,080	
Yugoslavia	23,148	478,512	100,308	38,843	21,862	45,927	94,713		
Totals*	1,656,555	34,244,035	12,064,991	4,672,045	1,960,306	40,523,136	12,927,567	3,750,674	
Asia— British India. China* Chosen (Korea). Federated Malay	329,231 96,750 159,608	2,000,000	50,000	2,738,581 19,362 26,626	96,750	2,000,000	60,000	17,408	
States Japan NetherlandsEast	29,597 388,740	611,824 8,035,965	5,628,558	2,179,603	29,462 425,000			1,450,650	
Indies Philippine Islds Taiwau	110,435 179,204 15,576	3,704,475	110,307	810,978 42,715 5,872	181,981	3,761,881	97,093	28,170	
Totals	1,312,285	27, 127, 343	15,262,270	5,910,163	1,357,093	28,053,616	12,831,818	3,722,895	
Oceania— Australia (including New Gui- pes and Papua) New Zealand		10,321,988 2,532,961	9,649,733 515,263	3,736,762 199,530		13,523,800 2,681,550	8,244,0\$1 435,006	2,391,858 126,208	
Totals*	621,858	12,854,949	10, 164, 996	3,936,292	783,934	16,205,350	8,679,097	2,518,066	
Africa— Belgian Congo British West _ Africa	195,890 246,075		13,000° 200	5,034 77	211,758 259,023	i i	15,000* 252,903	4,352 73,375	
Ethiopia (Abvasinia)	4,501	93,044	-		4,000	82,687		10,010	
French West Africa Madagascar Rhodesia—	5,427 7,234	112,177 149,540	-	-	5,321 7,298	110,000° 150,863	=]	=	
Northern Southern Tanganyika	7,513 547,630 11,072	155,307 11,320,517 228,878	637 72,720 1,278	247 28,160 495	9,364 532,111 12,730	193,571 10,999,710 263,152	548 75,960 1,672	159 22,038 485	
Union of South	10,716,351	221,526,636	1,050,038	406,617	10,877,777	224,863,607	1,063,050	308,423	
Totals6	11,749,557	242,884,891	1,305,381	505,496	11,927,961	246,572,848	1,560,143	452,644	
Totals for World,.	20,836,318	430,724,934	243,7 0 8,426	96,30),849	22,818,701	459,104,453	192,769,971	55,910,942	

¹ Average price per fine cunce in London for 1930, and in New York for 1931. ² Estimate based on United States imports of ore and bullion and interrogatory data. ³ Estimate based on other years production. ⁴ Last year's figures. ⁴ Amount exported. ⁴ Totals include other countries not specified.

Subsection 2.—Silver.

Although no official statistics of the production of silver were published prior to 1887 the annual reports of the operating companies showed that from 1869 to 1885 about 4,000,000 oz. of silver, with a probable value of \$4,800,000, were produced in the Port Arthur district in Ontario. From 1887 to 1893 the annual

production ranged in value between \$300,000 and \$400,000, and was derived chiefly from Ontario and Quebec. The next three years saw a rapid increase in production, due to the development of the silver-lead deposits of British Columbia, and in 1896 a production worth over \$2,000,000 was recorded. From 1896 to 1905 annual production varied in value between \$2,000,000 and \$3,500,000, rising rapidly during the next five years, to 32,869,264 fine oz. valued at \$17,580,455 in 1910, as a result of the discovery of the rich ores of the Cobalt district. Since then there has been a falling-off in quantity, but owing to the higher price of the metal the value of the annual production increased to a maximum of \$20,693,704 in 1918. The post-war depression and the decline in the value of silver caused a low value of production in 1921, but the industry recovered, and in 1930 production amounted to 26,443,823 fine oz. The further decline in the price of silver since that time has resulted in a decreased production, amounting to only 18,356,393 fine oz. in 1932.

The silver production of Canada is chiefly credited to the copper-gold-silver and the silver-lead-zinc ores of British Columbia, the silver-cobalt ores of northern Ontario and the silver-lead ores exported from Yukon. An appreciable amount of silver also occurs in combination with the gold ores of northern Ontario, the nickel ores of the Sudbury district and the copper-gold ores of Quebec and Manitoba. Thus most Canadian silver is produced in combination with other metals.

During 1931 much interest was created by the reported discovery at Echo bay, Great Bear lake, of mineral deposits in which high-grade native silver was associated with cobalt and radium-bearing ores. The first commercial production from this area occurred in 1932 when shipments were made to the Trail smelter in British Columbia.

Ontario.—The production of silver in Ontario in 1931 was 7,438,951 fine oz., valued at \$2,222,014, practically the whole of which was derived from the rich silver-bearing ores of the Cobalt district, but small quantities were obtained from the products of the nickel refineries and from crude gold bullion. The Cobalt deposit was discovered in 1903, when the Temiskaming and Northern Ontario Railway was being built from North Bay to the head of lake Timiskaming. Later somewhat similar deposits were discovered at Gowganda, 55 miles northwest, and at South Lorrain, 18 miles southeast of Cobalt. Owing to the depletion of the ore bodies combined with the very low price of silver, operations have been much curtailed in the Cobalt, Gowganda and South Lorrain camps. During 1931 the Nipissing Mining Co. closed down their mines in Cobalt after continuous operation since 1905, while the Mining Corporation and the Keeley mine have discontinued mining operations in South Lorrain.

British Columbia.—In 1926 for the first time since 1905 this province surpassed Ontario in silver production. Comparing the quantity rather than the value, production in 1930 was the greatest on record and amounted to 11,825,930 fine oz., although this record was nearly equalled in 1927 with a production of 11,040,445 fine oz. Small amounts are recovered from alluvial gold and crude gold bullion, but the Sullivan and Premier mines have been responsible for the greater part of the output from this province. The Sullivan, primarily noted for its lead and zinc production, is the largest producer of silver in Canada. Silver was also recovered from the copper ores and concentrates which were exported for treatment in foreign smelters and from blister copper made at the Anyox smelter.

Yukon.—The increased production of silver in recent years from Yukon has been derived chiefly from the silver-lead ores exported from the Mayo district. For some years the difficulties and high cost of transportation involved in the export of these ores were serious obstacles to the successful operation of the mines. However, in the summer of 1925 the Treadwell Yukon Co. of Keno Hill, the largest producer in the district, completed a concentrating plant which has been operating steadily since that time. By eliminating much of the waste from the ores, concentration reduces the transportation costs. Ores from neighbouring mines are treated at this mill and this feature is of great assistance to the smaller operators in the district. The quantity of silver obtained from placer gold is gradually decreasing.

Statistics of the quantities and values of silver produced in Canada are given for the years since 1887 in Table 12, while statistics of the quantities and values produced in the various provinces are given for 1911 and subsequent years in Table 13.

12.—Quantities and Values of Silver Produced in Canada during the calendar years 1887-1932.

Year.	Quantity.	Value.	Year,	Quantity.	Value.	Year.	Quantity.	Value.
	oz. fine.	•		oz. fine.	\$	-	oz. fine.	\$
1887	355,083	347,271	1903	3, 198, 581	1,709,642	1919	16,020,657	17,802,474
1888	437,232	410,998	1904	3,577,526	2,047,095	1920	13,330,357	13,450,330
1889	383,318	3 5 8,785	1905	6,600,028	3,621,133	1921	13,543,198	8,485,355
1890	400,687	419,118	1906	8,473,379	5,659,455	1922	18,626,439	12,576,758
1891	414,523	409,549	1907	12,799,799	8,348,659	1923	18,601,744	12,067,509
1892	310,651	272,130	1908,	22,106,233	11,686,239	1924	19,736,828	13,180,113
1893	' - I	330,128	1909	27,529,473	14,178,504	1925	20,228,988	13,971,150
1894	847,697	534,049	1910	32,869,264	17,580,455	1926	22,371,924	13,894,531
1895	1,578,275	1,030,299	1911	32,559,044	17,355,272	1927	22,736,698	12,816,677
1896	3,205,343	2,149,503	1912	31,955,560	19,440,165	1928	21,936,407	12,761,725
1897	5,558,456	3,323,395	1913	31,845,803	19,040,924	1929	23,143,261	12,264,308
1898	4,452,333	2,593,929	1914	28,449,821	15,593,631	1930,	26,443,823	10,089,376
1899,	3,411,644	2,032,658	1915	26,625,960	13,228,842	1931	20,562,247	6,141,943
1900	4,468,225	2,740,362	1916	25, 459, 741	16,717,121	19321	18,356,393	5,813,769
1901	5,539,192	3,265,354	1917	22,221,274	18,091,895			
1902	4,291,317	2,238,351	1918	21,383.979	20,693,704			

Preliminary figures.

13.—Quantities and Values of Silver Produced in Canada, by Provinces, during the calendar years, 1911-32.

Norz.—For the years 1887 to 1910, see Canada Year Book, 1916-1917, p. 271. Nova Scotia, Saskatchewan and Alberta have also shown a small production in recent years, production during 1931 being shown in Table 5, pp. 346 8.

Yеаг.	Que	bec.	Ont	ario.	Manitoba. British Columbia.		olumbia.	Yukon and Northwest Territories.		
	oz, fine.	*	oz. fine.	8	oz. fine.	\$	oz. fine.	ş	oz. fine.	:
1911	18,435	9,827	30,540,754	16,279,443		_	1,887,147			60,078
1912	9.465			17,772,352		-	2,651,002		81.068	49,318
1913	34.573			16,987,377		- '	3,312,343	1,980,483	87,626 92,973	52,393
1914 1915	57,737 63,450			13,779,055 11,302,419		-	3,159,897 3,565,852		248.049	50,959 $123,241$
1916	98,610	64 748	21.608.158	14.188,133	_	_	3,392,872	2,227,794	360,101	236.446
1917	138, 194			15,714,975		5,863				97,379
1918	178,675			16,643.562		12,88€				69,59
1919	140,926			13,465,628		23,069				30,62
1920	61,003	61,552	9,907,626	9,996,795	15,510	15.649	3,827,028	3,356,971	19,190	19,363
1921	38,084	23,861	9,781,607			26,		2,099,133		246,28
1922			10,811,903			14		4,828,384		447,99
1923	33,006		10,540,943			3		3,965,899		1,241,953
1924	83,814		11,272,567			93 329				151,425 $624,96$
1925	214,943	148,401	10,529,131	7,271,944	477	32 9	0,019,495	0,920,400	804,680	024,904
1926	375.986	233,513	9,274,965	5,760,402			10,625,816		2,095,027	1,301,159
1927	740,864	417,625					11,040,445		1,647,295	928,580
1928	908,959	528,796				1,026	10,943,367			1,651,98
1929	813,821	431,268					10,156,408			1,737,92 1,429,37
1930	571,164	217,922	10,205.683	3,893,876	94,653	50,114	11,825,930	4,512,065	3,140,320	1,472,94
1931	530,345	158.414	7,438,951	2,222,014	836,547	249,877	8,061,599	2,408,000	3,694,728	1,103,61
1932	628,932								3,054,164	967,300

Preliminary figures.

World Production of Silver.—The world production of silver was estimated by the Director of the United States Mint, as shown in Table 11 of this chapter, at 192,709,971 fine oz. for 1931, a decrease of 22.5 p.c. from 1930 and of 26.2 p.c. from 1929, when world production reached a record maximum of 260,970,029 fine oz. The silver production of Canada in 1931 was 20,562,247 fine oz., or about 10.7 p.c. of the estimated world total for that year. This placed Canada third, next to Mexico and the United States.

In the following historical Table 14 the world production, value and average price of silver are given for each year from 1860 up to the present. During the period from 1860 to 1872, silver was still a monetary base in parts of the western world and the price remained fairly stable at about \$1.32 to \$1.35 per fine oz. (about $15\frac{1}{2}$ oz. silver = 1 oz. gold), although production is estimated to have more than doubled during these 12 years. After the demonetization of silver in Germany and the United States, production continued to increase and by 1889 had nearly doubled again, although the price had declined to 94 cts. In spite of a further increase in production in 1890, the price in that year rose to \$1.05 per fine oz. During the next six years from 1891 to 1897, while annual world production increased only 17 p.c., the price declined nearly 40 p.c. During this same period, world gold production nearly doubled (see Table 10). From 1898 to 1904 annual production remained fairly stationary, while the price fluctuated around 60 cts. From 1905 to 1912 there was a further rise in annual production of about 35 p.c., but the price, while fluctuated

ating between 68 and 52 cts. per fine oz., was practically the same in 1912 as in 1905. During the economic disturbances of the War period, world production was on a lower level, while the price rose to a peak of \$1.12 in 1919 but dropped to 63 cts. in 1921. From then until 1929, world production increased again by 50 p.c. and the price after a rise to 74 cts. in 1924 declined steadily to 54 cts. On account of the world depression in 1930 and 1931, production has declined, while the price has dropped to little more than half the lowest price recorded in any other period shown in the table. The fact that silver is to a great extent a by-product is largely responsible for its present low price.

14.—Quantities and Values of World Production of Silver, with Annual Average Prices, 1860-1931.

(From the Annua	i Report of the	Director of the	United	States Mint.).
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Year.	Quan- tity.	Value.	Average Price per Fine Oz. ¹	Year.	Quan- tity.	Value.	Average Price per Fine Oz. ¹	Year.	Quan- tity.	Value.	Average Price per Fine Oz. ¹
	000 oz. fane.	\$000.	\$		000 oz. fine.	\$000.	\$	•	000 oz. fine.	\$000.	\$
1860	29.095	39,337		1884	81,568	90,785	1 - 113		203, 131	108,655	
1861 1862	35,402 35,402	46, 191 47, 651	1 · 305 1 · 346	1885 1886	91,610 93,297	97.519 92,794	1.065 0.995	1909	212,149 221,716		
1863	35,402	47.616		1887	96.124	94,031	0.979	1910 1911	221,710	119,727 122,144	0-540 0-540
864	35,402	47,616	1.345	1888	108,828	102,186			230,904		0-61
1865.,	35,402	47,368	1 - 338	1889	120,214	112,414	0.935	1913	210,013	126,848	0-604
866	43,052	57,646	1.339	1890	126.095	131,937	1-046	1914	172,264	95.262	0.55
867 868	43,052 43,052	57,173 57,086	1 · 328 1 · 326	1891 1892	187,170 153,152	135,500 133,404	0·988 0·871	1915 1916	173,001 180,802	89,912 124,011	
869	43,052	57,043	1.325	1893	165,473	129,120		1917	186,125	166,241	
870	43.052	57,173	1.328	1894	164,610	104.493	0.635	1918	203,159	200.002	0.98
871	63,317	83,958	1-326	1895	167.501	109,546	0.654	1919	179,850	201,588	1.12
872 873	63,317 63,267	83,765 82,121	1 · 323 1 · 298	1896 1897	157,061 169,421	105,859 96,253	0 · 673 0 · 600	1920 1921	173,296 171,286	176,658 108,110	1·01 0·63
874	55,301	70,674	1-279	1898	169,055	99,743	0.590	1922	209,815	142,536	0.679
875	62,262	77.578	1 246	1899	168,337	101.003	0.60C	1923	246,010	172,276	0.700
876	67,753	78,323	1-156	1900	173,591	107,626	0.620	1924	239,485	178,311	0.74
877 878	62,689	75,279	1 201	1901	173,011	103,837	0.600	1925 1926	245,214	172,498	0.760 0.62
879	73,385 74,383	84,540 83,533	1 · 153 1 · 124	1902 1903	162.763 167.689	86,265 90,552	0·530 0·540	1927	253,795 253,981	159,569 144,947	0.57
880	74,795	85,641	1-145	1904	164,195	95,233	0.580	1928	257,925	151,214	0.58
881,,,	79,021	89,926	1 · 138	1905	172,318	105,114	0.610	1929	260,970	139,961	0.530
882 883	86.472 89,175	98,232 98,984	1 · 136 1 · 111	1906 1907	165,054 184,207	111,721 121,577	0-677 0-660	1930 1931	248,708 192,710	96,310 55,911	0.38 0.29

¹ At the average par price of a fine conce of silver in London, excepting the years 1918 to 1922, inclusive, and 1931, for which the mean of the New York bid and asked prices was used.

Subsection 3.—Copper.

The copper-mining industry has developed at a very rapid rate. A production of 3,505,000 lb. in 1886 had doubled 6 years later. By 1913, the output had increased over twenty-one fold, amounting to 76,976,925 lb. The extraordinary demand for war requirements resulted in an average production from 1916 to 1918 of 115,048,931 lb. In the post-war depression production dropped to less than 43,000,000 lb. in 1922, but recovered rapidly and in 1930 reached the record of 303,478,356 lb. The preliminary estimate for 1932, a year of general depression with a very low price ruling for copper, indicates a production of 247,678,503 lb.

or only 28.4 p.c. below the record of 1930. This contrasts favourably with the production in the former depression year 1922 and shows the expansion of the copper industry in Canada in the past decade. Some Canadian copper producers, located principally in Manitoba, Ontario and Quebec, are fortunate in possessing ores containing sufficiently high values in precious metals to permit of operation in spite of the abnormally low copper prices prevailing in 1931 and 1932, so that copper has remained third in value among the minerals produced in Canada. Yet the low prices have lessened production and have also curtailed the search for and development of new copper properties. In June of 1932 the United States instituted a duty of 4 cents per pound on foreign copper, which adversely affected Canadian copper production, more especially that of British Columbia. Shortly afterwards, at the Imperial Economic Conference in Ottawa, it was recommended that Great Britain impose a duty of 2 pence per pound on copper produced outside the Empire, provided that if at any time Empire producers were unable or unwilling to offer this commodity on first sale in the United Kingdom at prices not exceeding the world prices and in quantities sufficient to supply the requirements of United Kingdom consumers, the duty might be removed.

Quebec.—Until 1894, when Ontario took the lead, Quebec was the chief copper-producing province of Canada, the principal mines being the Eustis and Huntingdon properties in the Eastern Townships. There is still an annual production from this field. Recent developments in the Rouyn camp of northwestern Quebec have resulted in a greatly increased production of copper since 1927. These deposits are associated with an easterly extension of formations similar to those of the Kirkland Lake area in Ontario. The first discoveries were located as gold prospects; the existence of large bodies of copper and zinc ores was subsequently proved and there is now a large production of copper as well as of gold. During 1931 the Canadian Copper Refiners, Ltd., commenced treating blister copper in their new plant located at Montreal East. This material came from the Noranda smelter and the smelter at Flin Flon, Manitoba.

Ontario.—The Sudbury deposits were first noted in 1856 but did not attract attention until 1883-4, during the construction of the C.P.R., when a railway cutting was made through the small hill on which the Murray mine was afterwards located. During the first years the deposits were developed for their copper content alone; not until 1887 was the presence of nickel determined and the true value of the ores known. These nickel-copper ores of the Sudbury area are the source of nearly all the copper produced in Ontario. Under the International Nickel Co. of Canada, an amalgamation of the former International Nickel Co., and the Mond Nickel Co., an extensive program of expansion in the mining and metallurgical facilities of the district has been carried out. A subsidiary company, the Ontario Refining Co., Ltd., has completed a copper refinery at Copper Cliff where electrolytically refined copper is produced from the blister copper smelted by the International Nickel Co., chiefly from ores from their own mines in the district. The company also operates the Acton precious metals refinery situated near London, Eng., where it recovers, in a refined state, the gold, silver and platinum metals contained in the concentrates produced at both the Swansea and Port Colborne nickel refineries. The Falconbridge Nickel Mines, operating a mine in Falconbridge township, make a copper-nickel matte which is shipped to Norway for refining. Adverse industrial conditions led to reductions in the copper production of Ontario in 1931 and 1932.

Manitoba.—During the four years 1917-20, with high prices prevailing for copper, ores containing 9,866,328 lb. of copper were shipped by the Mandy mine. Much development has been carried on in the Flin Flon district of Manitoba in the last ten years, and large bodies of ore have been proven on the Flin Flon property of the Hudson Bay Mining and Smelting Co. and the Sherritt-Gordon property. About 135 miles of branch line from the Hudson Bay Railway provide these properties with transportation facilities. A copper smelter and electrolytic zinc plant are operated by the Hudson Bay Mining and Smelting Co. at Flin Flon, while a large hydraulic development on the Churchill river provides the necessary power. Production from the plants of this company was continuous throughout 1931 and 1932.

British Columbia.—Until 1930, British Columbia had been the leading copper producer among the provinces for many years, but it then gave first place to Ontario and in 1931 production further declined, owing to the closing of the Copper Mountain mine and the curtailed operations at Britannia as a result of the low price of copper. The production of the province during 1931 and 1932 consisted of the blister copper produced at Anyox by the Granby Consolidated Mining, Smelting and Power Co., Ltd., and the copper estimated as recoverable from the ores, matte and concentrates exported. The principal copper-producing mines in British Columbia are the Britannia mine on Howe sound, and the Hidden Creek and Bonanza mines on Portland canal. The Hidden Creek and Bonanza ores are smelted at the Anyox smelter.

15.—Quantities of Copper Produced in Canada, by Provinces, with Total Values, calendar years 1911-32.

Note For the years	1000 A- 1010	Canada Vaan I	Daul- 1016 17 - 070	
NOTE — For the years	s (XX6 to 1910) see	Lanada Year F	400k, 1916–17. p. 272	

Year.	Quebec.	Ontario.	Manitoba.	British Columbia.	Yukon.	Totals.		
	1Ь.	lb.	3Ь.	lb.	lь.	lb.	\$	
1911 1912 1918 1914 1915	2,436,190 3,282,210 3,455,887 4,201,497 4,197,482	22,250,601 25,885,929 28,948,211	1	35,279,558 50,526,656 45,791,579 41,219,202 56,692,988	1,772,660 1,843,530 1,367,050 538,216	76,976,925 75,735,960	6,886,993 12,718,543 11,753,600 10,301,600 17,410,634	
1916	5,703,347 5,015,560 5,869,649 2,691,695 880,638		1,116,000	63,642,550 57,730,959 62,865,681 44,502,079 45,319,771	2,807,096. 2,460,097 619,878 165,184 277,712	109,227,332 118,769,434 75,053,581	31,867,15 29,687,98 29,250,53 14,028,26 14,244,21	
1921 1922 1923 1924 1925	352,308 - 1,893,008 2,510,141	10,943,636 31,656,800 37,113,193	-	84,447,127 31,936,182 55,224,737 65,451,246 69,221,600	- · -	47,620,820 42,879,816 86,881,537 104,457,447 111,450,518	5,953,55. 5,738,17 12,529,18 13,604,53 15,649,88	
1926 1927 1928 1929	2.674,058 3.119,848 33,697,949 55,337,169 80,310,363	41,312,867 45,341,205 66,607,516 88,879,853 127,718,871	2,087,606	89,108,017 91,686,297 102,283,210 103,903,738 98,318,885	107,377 42,628	133,094,942 140,147,440 202,696,046 248,120,760 303,478,356	17,490,30 17,195,48 28,598,24 48,415,25 37,948,35	
1931	68,376,985 67,33 6,692	112,882,625 77,055,413	45,821,432 52,706,294	65,223,348 50,580,104	-	292,304,390 247,678,503	24, 114, 06 15, 294, 02	

² Preliminary figures.

World Production of Copper.—World production of copper was estimated at 1,523,200 short tons in 1931, as compared with 2,150,400 tons in 1929, the record year. Canada had an output of 146,152 tons in 1931, producing about 9.4 p.c. of the world's estimated total and standing third among the nations.

16 .- Copper Production of the Leading Countries and of the World, 1913-31.

(In short tons of 2,000 pounds.)

Year.	Canada.	North- ern Rho- desia.	Belgian Congo.	Chile.	Japan.	Mexico.	Peru.	Spain and Portugal.	United States.	World Produc- tion.
1913 1914 1915	38,488 37,868 50,393		-	46,574 49,221 57,680	73,283 77,650 83,108	58.185 40.043 34,128	30,600 29,853 38,269	29,652	579,133	1,072,67 $1,021,23$ $1,188,17$
1916 1917 1918 1919 1920	58,575 54,614 59,385 37,527 40,800	_		78,559 112,985 117,851, 87,721 109,075	119,058 99,583 86,468	60,751 52,348 83,233 66,661 49,866	47,472 49,784 48,944 43,243 36,356	45,084 50,596 38,581	961,016 968,687 604,642	1,533,29 1,579,67 1,569,52 1,069,43 1,082,65
1921 1922 1923 1924	23,810 21,440 43,441 52,229	- - -	99,323	65,299 142,830 201,042 209,855 209,654	59,626 59,663 70,315 69,378	13,576 29,842 60,538 49,150	36,689 40,133 48,684 38,495 41,180	40,234 57,115 60,713	819,000	
1925 1926 1927 1928 1929	55,725 66,547 70,074 101,348 124,060 151,739	793 3,685 6,642 6,122	88,889 98,278 123,982 151,007 153,164	223,015 264,242 316,141 353,434 242,865	72,277 73,381	62,303 63,760 72,280 95,409 80,922	46,703 52,438 62,233 61,855 52,416	63,933 60,351 61,600 75,040	878,000 847,419 904,898 997,555	1,637,48 1,682,36 1,892,80 2,150,40 1,769,60

¹ From the Imperial Institute except in the case of the production for Canada, where the official figures of the Dominion Bureau of Statistics are used.

Subsection 4.—Lead.

Lead is obtained in Canada largely from the deposits of British Columbia. From 88,665 lb. in 1891 the production advanced to over 39,000,000 lb. in 1897. Owing to the low price of silver in 1898 and labour troubles in the Slocan in 1899, the output in the latter year fell to 21,900,000 lb., but rose to 63,200,000 lb. in 1900. The output fell to 18,100,000 lb. in 1903, owing to the condition of the market affecting the production of the low-grade silver-lead ores of the East Kootenay district. An Act of October, 1903, provided for the payment of bounties on lead contained in lead-bearing ores mined in Canada and, as a direct result of the bounty, the output increased to 56,900,000 lb. in 1905 but fell off gradually to 23,800,000 lb. in 1911. A marked increase has since been experienced, a record total of 337,946,688 lb. being reached in 1928, while production in 1929 and 1930 continued at nearly the same level. Owing to the very low price to which the metal has since declined, production has fallen off, the preliminary estimate for 1932 being 255,949,960 lb.

British Columbia.—In the East and West Kootenay districts there are many important mines, the principal of which is the Sullivan lead-zinc mine near Kimberley. The ore averages about 11 p.c. lead, 7 p.c. zinc and 5 ounces of silver to the ton. The successful solving by the Consolidated Mining and Smelting Co. of the metallurgical problems connected with the separation and reduction of these lead-zinc ores accounts to a considerable extent for the rapid growth in lead pro-

duction during recent years. As a result of the low prices prevailing since 1930 for lead, zinc, and silver, many of the small silver-lead mines of the Slocan and the Monarch mine at Field have remained idle.

Other Provinces.—Occurrences of lead have been found in Gaspé peninsula and in the Rouyn district of Quebec, but the only production of importance has come from the Notre-Dame-des-Anges district, Portneuf Co., where the Tetrault mine was a consistent producer of lead and zinc concentrates until 1930, when operations were suspended owing to the low prices of these metals. Lead mining in Ontario has been intimately associated with the successful operations of the Galetta mine and smelter, which closed down in the summer of 1931 owing to the low price of lead. Recent discoveries in the Sudbury Basin area have disclosed bodies of lead-zinc ore. These properties were under development but operations have been suspended and very little production has come from them as yet. An important production of lead came in recent years from the silver-lead ores of the Mayo district of Yukon. These operations are described under "silver" on pp. 359-63 of this chapter.

17.—Quantities and Values of Lead Produced from Canadian Ores, calendar years 1901-32.

Monn -For	Seura: for	the years	1887-1900, see	1090	Voor	Book n 36	7
NOTE.—FOR	ngures for	the vears	1387-1900, 800	1928	1681	DOOK, D. 30	4.

Year.	Quantity.1	Value.	Price per Pound.	Year,	Quantity.1	Value.	Price per Pound.
	1ь.		ets.		lb.	. \$	cts.
1901	37,531,244 56,864,915 54,608,217 47,738,703 43,195,733	934,095 768,562 1,617,221 2,676,632 3,089,187 2,542,086	4 - 069 4 - 237 4 - 309 4 - 707 5 - 657 5 - 325	1918 1919 1920 1921 1922	32,576,281 51,398,002 43,827,669 35,953,717 66,679,592 93,307,171 111,234,466 175,485,499	3,053,037 3,214,252 3,828,742 5,817,702 7,985,522	9·250 6·966 8·940 5·742 6·219 7·179 8·104
1909	45,857,424 82,987,508	1,692,139 1,216,249	3 · 690 3 · 687	1926	253,590,578 283,801,265 311,423,161	23,127,460 19,240,661 16,477,139	6.751
1911. 1912. 1913. 1914. 1915.	35,763,476 37,662,703 36,337,765	1,597,554 1,754,705 1,627,568 2,593,721	4 · 467 4 · 659 4 · 479 5 · 600	1928 1929 1930	337,946,688 326,522,566 332,894,163 267,342,482 255,949,960	16,544,248 13,102,635 7,260,183	5 · 063 3 · 933 2 · 710

¹ Previous to 1913 the figures reported show the metal content of the shipments and are somewhat in excess of the actual amount recovered. Since 1912 the data given represent the quantity of lead produced in Canada from domestic cres, together with the estimated lead recovery from lead ore; and concentrates exported. From 1901 to 1928, average prices at New York: 1909 and 1916, average prices at Toronto; from 1911 to 1925, average prices at Montreal; from 1926 to 1931 the average yearly prices at London, Eng., were used in making up the values shown. ² Preliminary figures.

World Production.—The world production of lead in 1931 was about 1,400,0001 short tons. The principal producers were the United States with 26.6 p.c., Mexico 15.1 p.c., Australia 11.3 p.c., Canada 8.9 p.c., Spain 7.8 p.c. and Germany 7.3 p.c.

¹From the Imperial Institute.

Subsection 5.-Nickel.

With the exception of the small amounts of nickel recovered from the ores of the Cobalt district, the Canadian production of nickel has been derived entirely from the well-known nickel-copper deposits of the Sudbury district, Ontario. A brief description of the history and development of the nickel-copper mining industry will be found under copper in subsection 3 of this section. From 830,477 lb. in 1889, the production of nickel increased continually to a war-time peak of 92,507,293 lb. in 1918. After a slump to 19,293,060 lb. and 17,597,123 lb. in 1921 and 1922 respectively there was an increase to 73,857,114 lb. in 1925. In 1928 production at 96,755,578 lb. exceeded that of the war year 1918, while 1929 established a record at 110,275,912 lb. Preliminary figures for production in 1932 are 30,327,968 lb.

In recent years the producing companies have instituted extensive researches to discover and encourage new peace-time uses for the metal. The success attending their efforts in that direction accounted very largely for the marked increase in production during the nineteen-twenties. The automobile industry, electrical machinery, cooking utensils, new submarine cables and various nickel alloys all helped to absorb this increased production. Unfortunately the world-wide depression has seriously affected the demand for a commodity so dependent upon the world's industrial markets and production was greatly curtailed in 1931 and 1932.

Sudbury.—The nickel-bearing rocks of the Sudbury district, with a width of about two and one-half miles, form a wide ellipse 36 miles long and 13 miles broad. The ore mined in the district contains nickel, copper and iron, but cobalt, gold, silver, platinum and palladium are nearly always present in relatively small quantities. The proved deposits of nickel ore in Canada are estimated to be sufficient to provide for the world's requirements for many years, while there are still large reserves undeveloped.

World Production.—The world production of nickel was about 35,500 long tons in 1931, of which output 82 · 6 p.c. was Canadian in origin, while the remainder was derived from New Caledonia, India, Norway and Greece.

18.—Quantities and Values¹ of Nickel Produced in Canada during the calendar years 1901-32.

Note -	For	Saures	for t	he 216070	1990	1000	-66	1090	Venr	Rook	ь.	262

Year.	Quantity.	Value.	Year,	Quantity.	Value.	Year.	Quantity.	Value.
-	lb.	\$		lb.	\$		lb.	\$
1901	9.189,047 10.693,410 12.505,510 10.547,883 18.876,315 21,490,955 21,189,793 19,143,111 26,282,991 37,271,083 34,098,744	4,219,153 7,550,526 8,948,834	1913	44,841,542 49,676,772 45,517,937 68,308,657 82,958,564 82,330,280 92,507,293 44,544,883 61,335,706 19,293,060 17,597,123	13,452,463 14,903,032 13,655,381 20,492,597 29,035,498 33,732,112 37,002,917 17,817,953 24,534,282 6,752,571 6,158,993	1924 1935 1926 1927 1928 1929 1930 1931 1932:	62, 453, 843 69, 536, 350 73, 857, 114 65, 714, 294 66, 798, 717 96, 752, 578 110, 275, 912 103, 768, 852 65, 666, 320 30, 327, 968	18, 332, 677 12, 126, 739 15, 946, 672 14, 374, 163 15, 262, 171 22, 318, 907 27, 115, 461 24, 455, 133 15, 267, 453 7, 179, 862

A change in the method of computing the value of nickel produced accounts for the drop in value after 1923.

² Preliminary figures.

[•] These figures, taken from the Imperial Institute's Statistical Summary, include some nickel produced in the U.S. as a by-product from the electrolytic refining of Canadian copper; such nickel is not included in Table 18.

Subsection 6.—Cobalt.

The major portion of the world supply of cobalt was for almost two decades derived from the silver-cobalt-nickel arsenides of the Cobalt district, the cobalt produced by refineries in southern Ontario having practically controlled world production until recent years. Large deposits of cobalt-bearing ores occur in central Africa, and the introduction into the world's markets of cobalt from this source has limited the market for the Canadian product to such an extent that since 1926 Canadian production has dropped to less than half of the world production.

The ore bodies at Cobalt, discovered in 1903, carry silver, cobalt, nickel, bismuth and arsenic. The Deloro smelter treats ores and residues and disposes of cobalt oxide, metallic cobalt and unseparated oxides of nickel and cobalt. The smelter output of cobalt, computed as the metallic cobalt and cobalt in oxides together with the cobalt recovered in ores exported from the mines and including cobalt in residues exported, amounted in 1931 to 521,051 lb. valued at \$651,179, as against 1,116,492 lb. valued at \$2,328,517 in 1925. Production in 1932 is estimated at 490,631 lb.

Subsection 7.—Zinc.

The zinc-mining industry of Canada has recently made rapid strides, largely on account of the application of improved metallurgical methods in the treatment of the lead-zinc ores of British Columbia. The metallic recoveries from Canadian ores were 267,643,505 lb. in 1930, as compared with 5,600,000 lb. in 1913. From an insignificant position in 1913 the country advanced to the second position among the world's producers in 1931 with an output of about 15.9 p.c. of the world total. Production in 1932 is estimated at 172,283,558 lb.

British Columbia.—The principal zinc-mining regions are situated in the Kootenay district of British Columbia, where there are large deposits of silver-lead-zinc ore. The chief producing mine is the Sullivan near Kimberley, where the ore worked is a replacement deposit of considerable size. Other mines are located in the Ainsworth and Slocan divisions of the West Kootenay district. Further information regarding lead-zinc mining and metallurgical operations is given under "Lead"

Other Provinces.—There has been considerable exploration and development of zine-bearing deposits during recent years in Eastern Canada, where these ores are often characterized by the close association of copper, zinc and gold. In north-western Manitoba the Flin Flon and Sherritt-Gordon mines have ores of this nature and refined zinc has been made at the Flin Flon smelter since the autumn of 1930. Some important deposits of zinc-bearing ore have been developed in the Rouyn district of Quebec. Zinc is associated with lead in the deposits at Galetta, Ontario, and at Notre-Dame-des-Anges, Quebec, and mines in both these districts have been producers of zinc concentrates, while the Errington mine in the Sudbury district was developing a lead-zinc deposit and made some small shipments of zinc concentrates. All these eastern lead-zinc properties were inactive in 1931 and 1932.

Year.	Quantity.	Value.	Average Price per lb.	Year.	Quantity.1	Value.	Average Price per lb.
	lb.	\$	cts.		lъ.	\$	cts.
1911 1912	1,877,479 4,283,760		5.758 6.943		56,290,000	8,217,536	5.716
1913	5,640,195	318,558	5-648	1924	60.416,240 98,909,077	6,274,791	€ · 607 6 · 344
1914 1915	7,246,063 9,771,651	1,292,789	5 · 213 13 · 230	1926	109,268,511	8,328,446 11,110,413	7-622 7-410
1916 1917	23,364,760 29,668,764	2,991,623 2,640,817	12·804 8·901		165,495,525 184,647,374	10,250,793 10,143,050	6·194 5·493
1918 1919	35,083,175 32,194,707	2,862,486 2,362,448	8·159 7·838	1929	197,267,087 267,643,505	10,626,778 9,635,166	5·387 3·600
1920	39,863,912 53,089,356	8,057,961	7·67t	1881	237,245,451 172,283,558	6,059,249 4,144,454	2·554 2·406

19.-Production of Zinc in Canada, calendar years 1911-32.

Subsection 8.—Iron.1

Iron ore is widely distributed in Canada and extensive deposits have been discovered from time to time. In Quebec there is a small annual production of titaniferous iron ore from a deposit near Baie St. Paul, but this material which is principally exported is used for its titanium content and not as a source of iron. There are millions of tons of iron magnetite sands, containing a high percentage of iron, along the north shore of the St. Lawrence in Saguenay Co., but these sands contain a high percentage of titanium, rendering the briquetted ore unfavourable for blastfurnace treatment. Efforts to utilize them have not proved successful. There are also a number of deposits of bog iron ore in the St. Lawrence valley remarkably free from sulphur and phosphorus. These bog iron ores were successfully used in charcoal blast furnaces at Radnor Forges and Drummondville for many years. The known deposits of non-Bessemer iron ore in northern Ontario are very extensive. Millions of tons of red hæmatite were taken from the Helen mine in the Michipicoten district, while the Magpie mine in the same district produced siderite which was roasted before being shipped to the blast furnaces at Sault Ste. Marie. In British Columbia, some development work has been done on iron deposits on Kamloops lake and on Texada island, but no iron-mining or iron-smelting industry has become established in that province. Extensive deposits of hæmatite exist on the Belcher islands in Hudson bay, but the ore is rather low in grade and its comparative inaccessibility renders its development impracticable. Immense deposits of iron ores, large masses being high-grade, have been reported along the course of the Koksoak river, in northern Quebec, but these are so inaccessible that up to the present they have not even been systematically explored.

Hitherto there has been no great incentive to the development of the ironmining industry in Canada, since there are easily accessible and abundant supplies in the higher-grade ores of Wabana, Newfoundland and of the Mesabi range in Minnesota. The Wabana section of Newfoundland contains one of the largest deposits of iron ore in the world, the probable reserves in that area being estimated at 3,635,000,000 tons, and consisting of an exceptionally high-grade hæmatite.

¹ Estimated foreign smelter recoveries and refined zinc made in Canada. ² Preliminary figures.

¹A sketch of the iron and steel industry of Canada was given on pp. 452-456 of the 1922-23 Year Book.

In Ontario, where the iron and steel industry has reached its largest development in Canada, cheap and high-grade supplies of iron ore are readily available from the Mesabi range of Minnesota, while coal supplies are drawn from the nearby coal fields of Pennsylvania.

From Table 20, it will be observed that the tonnage of pig iron made in Canada in 1929 exceeded that of any previous year, while the 1929 quantities of steel ingots and castings made were exceeded only in the war years 1917 and 1918. Production has fallen off considerably since 1929 as a result of the reaction which set in during the latter part of that year. Ontario has been the leading producer of pig iron throughout the years recorded.

20.—Iron Ore Shipments and Production of Pig Iron and of Steel Ingots and Castings, calendar years 1983-32.

										
Year.	Ore Ship- ments from	Production of Pig Iron.								
	Canadian Mines.	Nova Scotia.		Onta	ario.	T	Ingots and Castings.			
	short tons.	short tons.	*	short tons.	*	short tons.		short tons.		
1909 1910	268,043 259,418	354,380 350,287	3,453,800 4,203,444	407.012 447,273	6,002,441 6,956,923	757, 162 800, 797	9,581,864 11,245,622	754,719 822,284		
1911 1912 1913 1914 1915	210,344 215,883 307,684 244,854 398,112	390,242 424,994 480,068 227,052 420,275	4,682,904 6,374,910 7,201,020 2,951,676 5,463,575	526,635 589,593 648,899 556,112 493,500	7,606,939 8,176,089 9,338,992 7,051,180 5,910,624	917,535 1,014,587 1,128,967 783,164 913,775	12,307,125 14,550,999 16,540,012 10,002,856 11,374,199	882,396 957,681 1,168,993 828,641 1,020,896		
1916 1917 1918 1919 1920	275,176 215,302 211,608 197,170 129,072	470,055 472,147 415,870 285,087 332,493	7,050,825 10,387,234 10,451,400 7,141,641 7,687,614	699,202 684,642 747,650 624,993 749,068	9,700,073 13,902,867 21,324,857 17,104,151 22,252,062	1,169,257 1,170,480 1,195,551 917,781 1,090,396	16,750,898 25,025,960 33,495,171 24,577,589 80,319,024	1,428,249 1,745,734 1,873,708 1,030,342 1,232,697		
1921 1922 1923 1924	59,509 17,971 30,752 1,480 3,978	169,504 135,261 310,972 177,078 226,010	4,407,104 3,139,994 5,360,099 3,842,593 4,402,674	495, 489 293, 662 674, 428 415, 971 413, 247	12,882,714 6,493,513 15,995,496 9,525,736 8,040,015	665,676 428,923 985,400 593,049 639,257	17,307,576 9,633,507 21,355,595 13,368,329 12,442,689	747,582 544,020 990,942 728,773 842,803		
1926 1927 1928 1929 1930 1931	2004 2,029* 2,244* 2,748* 412* 1,509*	280, 266 279, 495 339, 087 348, 097 238, 152 113, 560 34, 381	6, 165, 852 - - - - -	567.929 515,366 823,168 861,682 598,687 356,883 127,045	10, 495, 122 - - - -	848,195 794,861 1,162,254 1,209,779 836,839 470,443 161,426	16, 660, 974	869,413 1,016,555 1,382,885 1,543,387 1,130,727 752,762 383,923		

Including a small production from Quebec in certain years. 2 Owing to the fact that much of the pig iron produced in Canada is used by the firms producing it for further manufacture in their own plants, no attempt has been made since 1923 to place a nominal value on such production. 2 Preliminary figures. Titaniferous iron ore.

Section 5.—Production of Non-Metallic Minerals.

Subsection 1.--Fuels.

Coal.

The fuel situation in Canada is somewhat anomalous as, in spite of the enormous resources of coal in the country, about 50 p.c. of the consumption is imported. The Canadian coal areas are situated in the eastern and western provinces, while Ontario and Quebec are more easily and economically supplied with coal from the

nearer coal fields of Pennsylvania and Ohio. The anomaly of the situation is accentuated if we consider that Carada's present coal consumption is about 35,000,000 tons annually, as against reserves of 1,234,289,000,000 metric tons, sufficient for an unthinkably long period at the present rate of consumption.

The Dominion Fuel Board, with the Deputy Minister of the Department of Mines as chairman, was constituted in 1922 to meet the need for a standing organization definitely responsible for the systematic study of the fuel position of the Dominion.

Coal Resources.—A summary of the known coal resources of Canada was given on pages 391-394 of the 1922-23 Year Book; the accompanying table is reproduced as Table 21.

21.—Coal Resources of Canada, by Provinces and Classes of Coal.1

(In metric tons of 2,204 pounds.)

	Includ	ding Seams	s of 1 foot or 4,000 feet.	over at D	epths to	Including Seams of 2 feet and over, at Depths between 4,000 and 8,000 feet. Probable Reserve.		
	A	ctual Rese	rve.	Probabl	e Reserve.			
Province or District.			n Based on Actual less and Extent.		oximate imate.	Approximate Estimate.		
	Area, sq. miles.	Class of Coal. ³	Thousands of tons.	Area, sq. miles.	Thousands of tons.	Area, sq. miles.	Thousands of tons.	
Nova Scotia New Brunswick Ontario ¹ Manitoba Saskatchewan] - [BBLLLL LBB A&B	2,188,151 - 2,412,000	204 121 10 48 13,100	4,891,817 151,000 25,000 180,000 57,400,000	78	2,639,000	
Alberta	25,300	B A&B	382,500,000 3,223,800 669,000	56,375	491,271,000 182,183,600 100,000	203	12,700,000	
British Columbia	439	A & B	23,771,242 60,000	$\left. \left. \left. \right. \right\} = 6,196 \right]$	44,907,700 5,186,000) 11	2,160,000	
Yukon Northwest Territories Arctic Islands	-{ - -	A & B L L B	-	2,840 300 6,000	250,000 4,690,000 4,800,000 6,000,000			
Totals	26,219	-	114,804,193°	85,194	801,966,117	287	17,499,000	

¹See "Coal, Coke and By-Products", published by the Imperial Mineral Resources Bureau. ² The coal of all classes mined in Alberta to 1911, amounting to 20,000,000 tons, has been deducted.

The coal production in 1931 amounted to 12,243,211 short tons, valued at \$41,207,682, or an average of \$3.37 per ton. This represented a decrease of 5,321,082 tons, or 30 p.c., as compared with 1928, the record year. Nova Scotia was again the leading producer. The coal produced in Nova Scotia, New Brunswick, British Columbia and Yukon is all classed as bituminous, while Alberta produces bituminous, sub-bituminous and lignite, and Saskatchewan and Manitoba lignite only. The division of the 1931 production among these classes is given in Table 26. The quantity of coal mined annually in six provinces, Yukon and Canada from 1911 to 1932 is shown in Table 22.

⁸ A=anthracite, B=Bituminous, L=Lignite. ⁴ Extensive investigation has been carried on by the Ontario authorities in connection with the Onakawana lignite deposits of the Moose River basin, James Bay region, and development work was carried on throughout 1931.

See map showing the sources of the coal supply of different parts of Canada, p. 386 of 1922-23 Year Book.

22 .- Production of Coal in Canada, by Provinces, calendar years 1911-32.

NOTE.—For annual production from 1874 to 1910, by provinces, see 1911 Year Book, p. 419.

	1		1					1	
Year.	Nova Scotia.	New Bruns- wick.	Mani- toba.	Saskat- chewan,	Alberta.	Britis h Colum- bia.	Yukon.	Can Quantity.	ada. Value.
	short tons.	short tons.	short tons.	short tons.	short tons.	short tons.	short tons.	short tons.	\$
1911 1912 1913 1914 1915	7,004,420 7,783,888 7,280,073 7,370,924 7,463,370	98,049	-	206,779 225,342 212,897 232,299 240,107	3,240,577 4,014,755 3,683,015	2,542,532 3,208,997 2,714,420 2,239 799 2,065,613	9,245 19,722 13,443	11,323,388 14,512,829 15,012,178 13,637,529 13,267,023	86,019,044 37,334,940 33,471,801
1916 1917 1918 1919 1920	6,912,140 6,327,691 5,818,562 5,790,196 6,437,156	189,095 268,212 166,377		281,300 355,445 346,847 379,347 335,222	4,786,368 5,972,816 4,933,660	2,568,589	4,872 2,900	14,483,395 14,046,759 14,977,926 13,919,096 16,946,764	48, 199, 8 81 55, 192, 896
1921 1922 1923 1924 1925	5,734,928 5,569,072 6,597,838 5,557,441 3,842,978	187, 192 287, 513 276, 617 217, 121 208, 012	-	335, 632 382, 437 438, 100 479, 118 471, 965	5,990,911 6,854,397 5,189,729		465 313 1,121	15,057,493 15,157,431 16,990,571 13,638,197 13,134,968	65,518,497 72,058,986 53,593,988
1926 1927 1928 1929 1930 1931	6,747,477 7,071,876 6,743,504 7,056,133 6,252,552 4,955,563 4,084,531	173,111 203,950 207,738 218,706 209,349 182,181 211,055	- 1,306		7,336,330 7,150,693 5,755,528 4,564,015	2,804,594	414 144 458 653 904	16, 478, 131 17, 426, 861 17, 564, 293 17, 496, 557 14, 881, 324 12, 243, 211 11, 723, 411	61,867,463 63,757,833 63,065,170 52,849,748 41,207,682

Preliminary figures.

The imports of anthracite, bituminous and lignite coal for the calendar years from 1911 to 1932 are given in Table 23, and the exports of all coal from 1911 to 1932 in Table 24.

23.—Imports into Canada of Anthracite, Bisuminous and Lignite Coal for Home Consumption, calendar years 1911-32.

Note.—Anthracite dust is included under anthracite coal. For previous years, see 1911 Year Book, p. 420.

Year.	Anth	racite.	Bitumino	ous Coal.	Lignite	Coal.	Total.	
	short tons.		short tons.	\$	short tons.	\$	short tons.	\$
1911 1912 1913	4,020,577 4,184,017 4,642,057	18,794,192 20,080,388 22,034,639	10,538,315 10,411,793 13,559,896	20,498,399 19,397,649 25,914,280	-	-	14,558,892 14,595,810 18,201,953	39,292,591 39,478,087 47,949,119
1914 1915 1916	4,435,010 4,072,192 4,570,815	21,241,924 18,753,980 22,216,363	10,286,047 8,393,710 13,009,788	18,559,574 9,591,625 16,073,303		_	14,721,057 12,465,902 17,580,603	39,801,498 28,345,605 38,289,666
1917 1918 1919 1920	5,320,198 4,785,160 4,937,095 4,982,313	28,109,586 26,007,888 31,595,694 36,773,351	15, 537, 262 16, 893, 427 12, 356, 162 13, 861, 229	42,452,771 45,642,696 29,565,105 61,260,247	1 1 1	-	20, 857, 460, 21, 678, 587, 17, 293, 257, 18, 843, 542	70,562,357 71,650,584 61,160,799 98,033,598
1921 1922 1923	4,553,820 2,705,752 5,165,382	40,293,639 23,795,143 46,457,962	13,748,242 10,317,773 15,822,240	48,631,095 37,387,285 49,899,099	2,331	12,846	18,302,062 13,023,525 20,989,953	88,924,734 61,182,428 96,369,907
1924 1925 1926	4,152,558 3,782,557 4,192,419 4,107,854	37,280,910 32,096,509 34,202,166 31,282,371	12,546,214 12,548,460 12,376,606 14,568,671	29,628,643 26,974,340 25,511,932 30,457,884	26,007 18,653 10,423 10,829	117,955 87,832 45,567 44,254	16,724,779 16,349,670 16,579,448 18,687,354	67,027,508 59,158,681 59,759,665 61,784,509
1928 1929 1930	3,748,816 4,019,917 4,256,090	27,680 018 28,809,792 30,098,910	13,445,945 14,170,138 14,497,955	26, 608, 427 27, 140, 968 23, 522, 765	10,780 14,108 18,676	44,247 62,508 72,691	17, 295, 541 18, 204, 163 18, 772, 721	54,332,692 56,013,268 56,694,366
1931 1932 ¹	3.162.317	21,067,025 19,312,710	9,952,280 8,807,131	15,732,710 12,011,398	6,410 3, 00 4	29,603	13,121,007 11,959,037	36,829,338 31,337,809

Preliminary figures.

24.—Exports of Coal, the Produce of Canada, calendar years 1911-32.

Note.—For previous years, see 1911 Year Book, p. 421.

Year.	Quantity.	Value.	Үеаг.	Quantity.	Value.
1911	1,562,020 1,423,126 1,768,548 2,135,359	3,951,351 3,780,175 5,406,058 7,099,387 7,387,192	1922 1923 1924 1925 1926 1927 1927	short tons, 1,818,582 1,654,406 773,246 785,910 1,028,200 1,113,330 863,941	\$ 11,159,06 10,661,39 4,836,84 4,329,17 5,739,43 5,890,25 4,469,99
1918. 1919. 1920. 1921.	1,817,195 2,070,050	9,405,423 12,438,885 18,614,899 13,896,370	1929 1930 1931	842,972 624,512 359,853 285,487	4,375,32 3,345,99 1 909,92 1,433,03

¹Preliminary figures.

Coal Consumption.—The sources of the coal consumed in Canada in the calendar years 1911-31 are shown in Table 25, detailed figures of coal made available for consumption during 1931 are given in Table 26; the difference between the totals of the two tables in the latest year is accounted for by the fact that coal received may be held in bond at Canadian ports and not "cleared for consumption" until required, while coal received in previous years may be taken out of bond (cleared for consumption) in a later year. Normally the coal made available for consumption is greater than the apparent domestic consumption, since coal is landed at Canadian ports and re-exported or ex-warehoused for ships' stores without being taken out of bond, but while remaining in bond at the port it is available for domestic consumption if required.

25.—Annual Consumption of Canadian and Imported Coal in Canada, calendar years 1911-31.

Note.—For the years 1886 to 1910, see 1921 Year Book, p. 354.

				· ·				
			Imported C	cal "Entered	d for Consun	nption".		
Calendar Year.	Canadi Coal.		From U.S.A.	From Great Britain.	Total.3		Total.	Per capita.
	short		short	short	short 1		short	short
1	tons.	p.c.	tons.	tons.	tons.	p.c.	tons.	tons.
	uxis.	p.c.	Wils.	COME.	was.	p.0.	wina.	101101
1911	9,822,749	40-€	14,510,129	48,963	14,424,949	59-5	24,247,698	3.365
1912	12,385,696	46.0		38,668	14,549,104	54.0	26,934,800	3.657
1913	13,450,158	42.6		37,825	18, 132, 387	57.4	31,582,545	4-196
1914	12,214,403	45.5	14,687,858	83, 101	14,637,920	54.5	26,852,323	3.490
1915	11,500,480	48-1		15,098	12,466,212	51.9	23,906,692	3.041
1916	12,348,636	41.3	17, 576, 202	4,401	17,517,820	58-7	29,865,856	3.717
1917	12,313,603	37.2		9,451	20,810,132	62 8	83,123,735	4.049
1918	13, 160, 731	37.8		3,761	27,671,101	62-2	34,771,832	4 175
1919	11,611,168	40-3		344	17, 236, 269	59.7	28,847,437	3 · 402
1920	14,025,566	42.9			18,668,741	57 - 1	32,694,307	3.788
1921	12,715,734	41 - 1		1,591	18,258,387	58.9	30, 974, 121	3.524
1922	13,044,352	50.2		765,980	12,962,189	49-8	26,006,541	2.916
1923	15,070,962	41.8	20,417,239	572,570	20,967,971	58-2	36,038,933	
1924	12,529,358	42.8		317,112	16,714,143	57.2	29, 243, 501	3 · 199 3 · 062
19?5	12, 125, 290	42 6		604,117	16,331,971	57-4	28,457,261	3.349
1926	15,086,296	47.7		287,299	16,565,575	52-8	31,651,851	3.541
1927	15,944,983	46.7		907, 220	18,177,303	53.3	34, 122, 286 33, 003, 389	3.356
1928	16,487,807	80.0		682,755	16,515,582	50-0 52-0	34,111,593	3.402
1929	16,387,461	48.0		843,502	17,724,132 18,412,039	56-7	32,464,710	3.181
1930	14,052,671	43.3		1,144,861		52.3	24,511,108	
1931	11,682,779	47.7	11,793,798	987, 442,	12,828,327	42.5	22,611,100	2.002

¹ The sum of Canadian coal mines sales, colliery consumption, coal supplied to employees, and coal used in making coke, etc., less the tonnage of coal exported.

² Includes small tonnages from countries other than Great Britain and United States. Deduction-

Includes small tomages from countries other than Great Britain and United States. Deductionhave been made to take account of foreign coal re-exported from Canada and bituminous coal er-wares housed for ships' stores.

26.—Coal Output, Exports, Receipts from Other Countries and Coal Made Available for Consumption in Canada during 1831 (short tons).

Note.—For details by provinces, see the Bureau's report "Coal Statistics for Canada, 1931", p. 24.

Grade of Coal.	Canadia	n Coal.	Receipts from	Receipts from Great	Receipts from other	Coal Made Available	
	Output.	Exported.	U.S.A.	Britain.	Countries.	for Con- sumption.	
	tons.	tons.	tons.	tons.	tons.	tons.	
Anthracite	8,861,360 471,343 2,910,508	-	2,236,423 10,224,982 6,410	876,364 122,298 -	65,354 - - -	3,178,141 18,872,338 471,343 2,893,367	
Totals	12,243,211	359,853	12,467,815	938,662	65,354	25,415,189	

¹ Includes 60,762 tons from Germany and 4,592 tons from French East Indies.

World Production.—The total known coal production of the world in 1931 amounted to about 1,230,000,000 long tons, towards which Canada contributed 10,931,438 long tons or about 0.9 p.c. Table 27 shows the production of the British Empire and the chief foreign countries in units of 1,000 long tons during each of the years 1913 and 1921-31.

27.—Coal Production in the Principal Countries of the World, 1913, 1921-31 (000 long tons.)

Note .- For corresponding figures for 1914 to 1920, see 1932 Year Book, p. 281.

BRITISH EMPIRE.

Calendar Year.	United Kingdom	British India.	Canada.	Australia.	New Zealand.	Union of South Africa.
1913 1921 1922 1923 1924 1924	276,001	16,208 19,303 19,011 19,658 21,174 20,904	13,404 13,444 13,583 15,170 12,180 11,723	12,418 12,878 12,299 12,634 13,885 14,503	1,888 1,809 1,585 1,970 2,083 2,115	9,583 10,645 9,126 11,075 11,633 12,127
1926 1927 1928 1928 1929 1930	251,232 237,763 257,907 243,882	20,093 22,082 22,543 23,419 23,803 21,716	14,694 15,560 15,683 15,622 13,287 10,920	14,208 14,978 13,432 12,106 11,363 10,600	2,240 2,367 2,437 2,536 2,542 2,158	12,745 12,382 12,408 12,813 12,030 10,709

FOREIGN COUNTRIES.

Calendar Year.	Germany.	Belgium.	France.	Czecho- slovakia.	Poland.	Nether- lands.	Јарап.	United States.
1913 1921 1922 1923 1924 1925	262,878 178,191 239,494	22,474 21,401 20,868 22,554 22,986 22,726	40,188 37,916 43,118 46,981 58,065 60,034	32,174 28,385 27,380 35,066 30,663	7,717 24,300 35,686 31,793 28,677	1,843 3,978 4,525 5,249 5,975 6,943	20,973 25,944 27,420 28,633 29,801 31,121	508, 893 452, 134 425, 849 587, 407 510, 364 519, 527
1926, 1927, 1928, 1929, 1930, 1931,	280,656 299,511 312,092 332,560 284,148	24, 913 27, 130 27, 108 26, 514 26, 982 26, 608	65,072 65,402 64,501 67,474 67,190 51,280	32, 491 33, 106 34, 459 38, 465 33, 098 30, 544	35, 139 37, 560 40, 047 45, 686 36, 968 37, 661	8,677 9,374 10,941 11,552 12,160 12,818	31,089 33,177 33,445 34,479 31,007 25,388	591, 72 535, 62 514, 36 541, 23 479, 38 390, 75

Natural Gas and Petroleum.

Natural Gas.—The production of natural gas increased in value from \$1,346,471 in 1910 to \$10,289,985 in 1930 but declined to \$9,026,754 in 1931. The producing wells in the east are in southwestern Ontario, and near Monoton, N.B. The principal producing fields in Alberta are the Turner Valley (about 35 miles southwest of Calgary), Medicine Hat, Viking (about 80 miles southeast of Edmonton), Redcliff, Foremost (about 6 miles south and east of the town of Foremost), Bow Island and Wetaskiwin. Wainwright is supplied with gas from the Maple Leaf well in the Fabyan field. The quantity of gas sold or used in 1931 was 25,874,723 M cubic feet. Ontario was credited with about 51 p.c. of the total value but only 29 p.c. of the total quantity, while Alberta produced 45 p.c. by value and 69 p.c. of the total quantity. The production by provinces since 1920 is given in Table 28.

28.—Quantity and Value of Natural Gas Produced in Canada, by Provinces, calendar years 1926-32.

(For the years 1892 to 1919 see Mineral Production of (Canada.	1928, p. 188.)
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37	New Bru	New Brunswick.		rio.	Albe	rta.	Canada.1	
Year.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	M cu. ft.	\$	M. cu. ft.	\$	M cu. ft.	8	M cu. ft.	\$
1920	708,743 753,898 640,300	130,506 139,375 148,040 126,068 113,577 122,394	10,529,374 8,422,774 8,060,114 8,128,413 7,150,078 7,143,962	3,080,130 4,076,296 4,066,244 3,798,381	5,868,439 7,191,670 7,131,080	1,181,345 1,374,599 1,622,105 1,692,246 1,796,618 2,752,545	14,682,651 15,960,583	4,594,16 5,846,50 5,884,61 5,708,63
926	630,755 660,981 678,456 661,975	128,300 124,637 324,344 333,002 325,751 323,184 317,603	7,764,996 7,311,215 7,632,800 8,586,475 7,965,761 7,419,534 7,244,624	4,331,780 4,535,312 4,959,695 5,034,828	10,794,697 13,434,621 14,288,605 19,112,931 20,748,583 17,798,698 15,985,744	3,019,221 3,586,533 3,754,466 4,684,247 4,929,226 4,067,893 3,820,722	22,582,586 28,378,462 29,376,919 25,874,723	8,043,01 8,614,18 9,977,12 10,289,98 9,026,75

¹ Totals for Canada include a small production in Manitoba.

Petroleum.—The production of crude petroleum in Canada during 1931 was the greatest on record and amounted to 1,542,573 barrels, as compared with 1,522,220 barrels produced in 1930. Of this production 6,577 barrels came from New Brunswick, 122,365 from Ontario and 1,413,631 from Alberta. Alberta thus produced 92 p.c. of the total for Canada. The Turner Valley field is the principal source of production in Alberta and embraces territory in which a number of productive wells have recently been brought in, beginning with the famous Royalite No. 4 well. The wells in this field give a wet gas from which a very high grade of crude naphtha is separated. The Red Coulée field in southern Alberta near the International Boundary began producing some petroleum in 1929, while a small production has been obtained for a number of years in the Wainwright field, about 120 miles east of Edmonton, where the oil is heavy and of a lower grade. Altogether 109 oil wells were in operation in Alberta at the close of the year 1931, while drilling was in progress on 14 other wells. These drilling operations were distributed over the Turner Valley, Wainwright, Ribstone, Red Coulée and other fields. 80,225 feet of well-drilling in addition to some structure test drilling done in Alberta during 1931.

² Figures for 1932 are subject to revision.

The principal Ontario oil fields are situated in the southwestern peninsula between lake Huron and lake Erie. These fields reached their maximum production in the '90's and have since declined. New Brunswick's small production comes from the Stony Creek field, near Moneton. For the production by provinces in 1931 see Table 5 on p. 346.

Year.	Quantity.	Value.	Year.	Quantity.	Value.	Year.	Quantity.	Value.
	brl.1	\$		brI.1	\$		brl.1	\$
1886 1887 1888 1889	584,061 713,728 695,203 704,690 795,030	525,655 556,708 713,695 653,600 902,734	1902 1903 1904 1905	530,624 486,637 503,474 634,095 569,753	951,190 1,048,874 935,895 856,028 761,760	1918 1919 1920 1921 1922	304,741 240,466 196,251 187,541 179,068	885, 143 736, 324 822, 235 641, 533 611, 176
1891 1892 1893 1894 1895	755,298 779,753 798,406 829,104 726,138	1,010,311 984,438 874,255 835,322 1,086,738	1907 1908 1909 1910	788,872 527,987 429,755 315,895 291,092	1,057,088 747,102 559,804 388,550 357,073	1923 1924 1925 1926 1927	170, 169 160, 773 332, 001 364, 444 476, 591	522,018 467,400 1,250,705 1,311,665 1,516,043
1896 1897 1898 1899 1900	726,822 709,857 758,391 808,570 710,498 622,392	1,155,647 1,011,546 1,061,747 1,202,020 1,151,007 1,008,275	1912 1913 1914 1915 1916 1917	243,336 228,080 214,805 215,464 198,123 213,832	345,050 406,439 343,124 300,572 392,284 542,239	1928 1929 1930 1931 1932 ²	624, 184 1, 117, 368 1,522, 220 1,542,573 1,049,253	2,035,300 3,731,764 5,033,820 4,211,674 3,000,886

23.-Production of Crude Petroleum in Canada, calendar years 1886-1932.

Subsection 2.-Other Non-Metallic Minerals.

Asbestos.—Canada produces more asbestos than any other country. The value of the annual output of asbestos increased from less than \$25,000 in 1880 to \$14,792,201 in 1920 and \$13,172,581 in 1929. Owing to the current depression production has been curtailed during 1930-32 as will be seen in Table 29. In 1931 world production according to the estimate of the Imperial Institute amounted to about 248,000 long tons. Canada produced 164,296 short tons (146,693 long tons) valued at \$4,812,886, which was close to 60 p.c. of world production in that year. Other chief producers were: Russia, 66,000 long tons; Rhodesia, 21,466 long tons; Union of South Africa, 11,480 long tons and United States, 2,882 long tons.

Quebec.—The Eastern Townships has for many years been the most productive asbestos-mining area in the world. The most important deposits are at Black lake, in Coleraine township; at Thetford and Robertsonville, in Thetford township; at East Broughton, in Broughton township, and at Danville, in Shipton township. The veins of chrysotile asbestos traverse the serpentine in all directions, and as a rule the fibre lies at right angles to the walls of the veins. The veins vary in width from $\frac{1}{4}$ inch to $\frac{1}{2}$ inch and occasionally fibre has been obtained several inches in length. The fibre is of good quality and well adapted for spinning.

Open-cut methods of mining are those chiefly adopted throughout the Canadian asbestos fields. Nearly all the mining companies have installed machinery for the

¹ The barrel=35 Imp. gal. ² Preliminary figures.

crushing, fibrizing, screening and grading of the mine product. In addition, 10 plants in Canada manufacture asbestos products, including the following commodities: asbestos paper and mill board; asbestos roofing of all kinds; asbestos rigid shingles; asbestos building materials; asbestos cellular and sponge-felted pipe insulation; insulating sheets and blocks; asbestos brake linings and clutch facings (woven on special looms); and asbestos packings for steam, oil and hydraulic operations.

30.-Production of Asbestos in Canada, calendar years 1909-32.

Year.	Production.1		Year.	Production.1	
	tons.	\$		tons.	\$
909	87,300	2,301,775	1921	92,761	4,906,23
910	102,215	2,573,603	1922	163,706	5,552,72
911.,	127,414	2,943,108	1923	231,482	7,522,50
912	136,301	3,137,279	1924	225,744	6,710,83
913	161,086	3,849,925	1925	273,524	8,977,54
914	117,573	2,909,806	1926	279,403	10,099,42
915	136,842	3,574,985	1927	274,778	10,621,01
916	154, 149	5,228,869	1928	273,033	11,238,36
917	153,781	7,230,383	1929	306,055	13,172,58
918	158,259	8,970,797	1930	242,114	8,390,16
919	159,236	LO,975,369	1931	164,296	4.812,88
920	199,573	14,792,201	19322	122,977	3,039,73

¹ The quantity and value of sand, gravel and rock separated as a by-product in milling asbestos are included in the totals for 1924 and previous years, but are excluded in later years.

Gypsum.—Many large deposits of gypsum occur throughout Canada, but the production is chiefly from Hants, Inverness and Victoria counties, Nova Scotia; Hillsborough, New Brunswick; Paris, Ontario; Gypsumville, Manitoba; and Falkland and Mayook, British Columbia. The Hillsborough deposit of gypsum in New Brunswick is of very high grade. Nearly 50 p.c. of Canada's production is exported in crude forms from the Nova Scotia deposits, which are conveniently situated for ocean shipping and account for about 75 p.c. of the total Canadian production. Production of gypsum in Canada reached its highest point in 1928 with 1,246,368 tons valued at \$3,743,648. Production during 1931 was 863,752 tons valued at \$2,111,517 and preliminary figures for 1932 are 438,629 tons valued at \$1,080,379. The production by provinces during 1931 is shown in Table 5, p. 347.

Salt.—Practically the whole of the production comes from wells located in southwestern Ontario, but the Malagash deposits in Nova Scotia show an increasing production in recent years and some shipments have been made from deposits near McMurray in Alberta, while the first production in Manitoba of commercial importance was recorded in 1932. The deposits of Ontario occur in the Salina

² Preliminary figures.

formation of Upper Silurian age, in which the beds of the mineral sometimes reach a thickness of 250 feet. The Canadian production during the present century has shown fairly steady growth from 59,428 tons in 1901 to 91,582 in 1911, 164,658 in 1921, 262,547 in 1926 and a high record of 330,264 tons in 1929. Since then production has declined to 259,047 tons valued at \$1,904,149 in 1931 (see Tables 2 and 5 of this chapter) and 263,543 tons according to the preliminary figures for 1932.

Section 6.—Production of Clay Products and Other Structural Materials.

Brick and Tile.—Although the brick and tile industry is established in every province of the Dominion, production is naturally greatest near the chief centres of population, that is, in Ontario and Quebec. Here the widespread clays of glacial and post-glacial age occurring over considerable areas of the St. Lawrence Low-lands have furnished the materials for numerous brick and tile industries. Production fluctuates with building activity and reached its highest point in the year 1912. Since that time the gradual substitution of steel and reinforced concrete for brick has reduced the production of brick so that, while the value of construction undertaken in 1928 or 1929 is estimated to have exceeded that of 1912, the quantity of brick produced in the later years was only about half that of 1912. On the other hand, as will be seen from Table 31 below, the production and consumption of cement in 1929 greatly exceeded that of 1912 or 1913. The production of building brick of various types in 1930 and 1931 is shown in Table 2 of this chapter, while the production by provinces in 1931 is given in Table 5.

Cement.—The cement industry in Canada began with the manufacture of hydraulic or natural rock cement. The first production was probably at Hull, Quebec, between 1830 and 1840. The manufacture of Portland cement began about 1889. Owing to its superiority in uniformity and strength, it soon superseded the older product. Portland cement consists of an accurately proportioned mixture of lime, silica and alumina. The lime is usually furnished by limestone or marl, and the silica and alumina by clay or shale. The cement industry has naturally become established where these materials are situated and where fuel supplies and transportation are readily available. The largest production is in Quebec and Ontario, although there are also active plants in Manitoba, Alberta and British Columbia. As may be seen from Table 31, while production has declined somewhat since 1929, the industry still shows a healthy recovery from the unfavourable conditions from which it suffered during the War and early post-war periods. Whereas in pre-war years Canada was an importer of Portland cement she is now on balance an exporter of this commodity.

 Production, Imports, Exports and Apparent Consumption of Portland Cement, by Quantities and Values, calendar years 1918-32.

Year.	Produ	etion.t	Imp	rts.	Expor	ts.ª	Apparent Consumption.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	brl.1	\$	brl.1	\$	brl,t	\$	brl, ¹	\$
910		6, 412, 215,		468,395		12,914	5, 103, 285	6,867,69
911		7,644,537		840.986		4,067	6.354,831	8,481,45
912	7,132,732	9, 106, 556	1,484,413	1,969,529		2,436	8,567,145	11,073,64
913	8,658,805	11,019,418	254,093	409,303		1.736		11,426,98
914	7, 172, 480		98,022	147.158		2,223	7,270,502	9.332.8
915	5,681,032	6,977,024	28,190	40,426	_	5,161	5,709,222	7,012,2
916	5,869,560	6,547,728		31,621	_ [2,424	5,390,156	6,576,9
917		7,724,246		19,646	- 1	16,857	4,777,068	7,727,0
918		7,076,503	5,913	19,851		18,752	3,597,394	7,082,6
919	4,995,257	9,802,433	14,066	51,314	177,506	465,954	4,831,817	9,387,7
920	6,651,980	14,798, 0 70	32,963	112,466	835,667	2, 193, 626	5,849,276	12,716,9
921		14, 195, 143		75,670		850,658	5,522,597	13,620,1
922		15,438,481	30,914	83,037	425, 137	699,738		14,821.7
923		15,064,661	17,697	75,294	493,751	824,813	7,067,535	14,315,1
924		13,398,411		69,320	153,520	213,845		13,253,8
925	8,116,597	14,046,704	21,849	63,067	997,915	1,498,495	7,140,531	12,611,2
926		13,013,283	21,114	77,866	285,932	358,231	8,442,203	12,732,9
927		14,391,937	19,354	87,541	249,694	308,144	9.835,525	14, 171, 8
928		16,739,163	34,047	146, 164	267,325	340,624	10,790,650	16,544,7
929	12,284,081	19,337,235	55,980	189,169	234,111	252,955	12,105,950	19,273,4
30		17,713,067	143,436	569,848	198,736	212,071	10,977,238	18,070,8
81	10,161,658	15,826,243		143, 491	114,064	124,267	10,085,986	15,845,4
324,	4,498,721	6,930,721	21,351	53,092	53,333	38,921	4,466,739	6,949,8

¹The barrel of cement=350 lb. or 3½ cwt. ^{2"}Production" as used here means quantity and value of same as "Quantities of exports were not recorded prior to 1921 and were insignificant prior to 1919. ⁴Preliminary Equies.

Stone, Sand and Gravel.—While the Mineral Branch of the Dominion Bureau of Statistics presents details of the production and industrial organization of the stone industry separately from that of sand and gravel, for the sake of brevity they are here discussed together. Production of these materials has increased greatly in recent years and the expansion in the stone industry has been chiefly in crushed stone. Thus a production of crushed stone in 1922 of 3,044,399 tons had increased in 1930 to 8,062,330 tons, while in the same period the production of sand and gravel increased from 11,666,374 tons to 28,547,511 tons, used chiefly for railway ballast, concrete and road work and building sand. The preliminary figures for 1932 for stone are 4,803,910 tons and for sand and gravel, 12,599,706 tons. These figures reflect in general the curtailment of construction activities in 1932. Among the developments in Canada which have resulted in the increased production of these materials prior to the current depression may be mentioned: (1) the tendency for brick to be replaced by reinforced concrete, cement blocks, etc., as indicated above by a decline in brick production and an increase in that of cement; (2) the vast improvement during the past decade in the mileage and character of roads and highways in Canada; and (3) the improvement of railway road-beds.

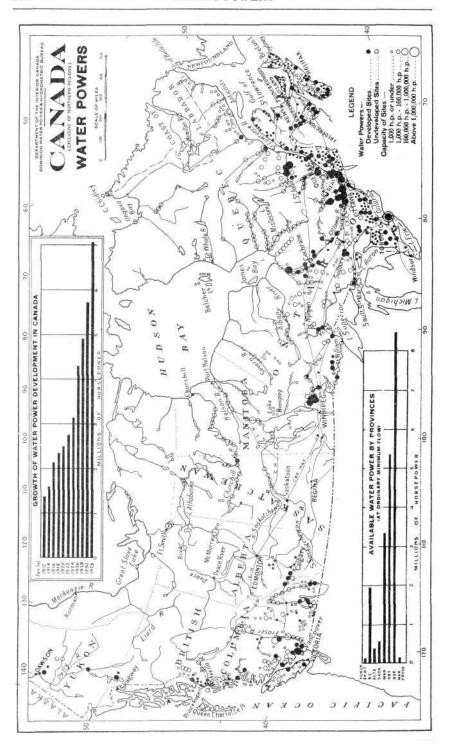
The provincial distribution of the 1931 production of stone, sand and gravel is shown in Table 5, while the chief purposes for which these materials were produced are shown in Table 32. The production of sand and gravel came chiefly from Quebec with 35 p.c., Ontario with 34 p.c. and British Columbia with 13 p.c. Of the stone Quebec produced 51 p.c. and Ontario 40 p.c., while Saskatchewan reported no stone production and Alberta less than 0·1 p.c. of the Dominion total.

32.—Production of Sand, Gravel and Stone in Canada, showing the Principal Purposes, calendar years 1928-31.

M-4-5-1 3 D	192	19.	19	30.	1931.		
Material and Purpose.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
	tons.	- \$	tons.	\$	tons.	\$	
Sand—	ا ـ س ـ ا	#4 225	l		40.00-		
Moulding sand	64,457	50.308				9,94	
For building, concrete, roads, etc	2,709,289	1,181,261				1,069,21	
Other	335,250	73,265	73,452	21,252	135,395	46,36	
Sand and Gravel—		* 055 404					
For railway ballast	[11,198,091]	1.257,424			3,593,451	459,53	
For corcrete, roads, etc			17,409,590		14,352,283	4,784,29	
Crushed gravel	984,764	668,424	825,222	362, 185	464,328	231,82	
Totals, Sand and Gravel	27,846,945	7,317,814	28,547,511	8,344,913	21,748,586	6,651,16	
Stone—							
Building	186,249	2,842,701	173,204	4.184.778	129,345	3.717.99	
Monumental and ornamental	13,481	282,272					
Limestone for flux	453,597						
Stone for pulp and paper, sugar and		0.0,100	201,000	305,010	177,100	199,00	
chemical factories	319.036	350,397	202,371	230, 858	158.974	180.21	
Rubble and riprap	947.073	841,404	1.018.351	706.449	641.037	487.71	
Crushed	7,615,636		8,062,330		7.050,261		
V-000000	,,520,000	-,,	0,002,000	2,.40,101	*,, *20,201	-,	
Totals, Stone1	9.622.424	12.066.532	3,994,6561	13.037.209 2	8,397,860	11.070.18	

^{&#}x27;Totals include minor items not specified. 'Totals include 150 tons of slate valued at \$3,000.

The quantities and values of stone produced, given in the table above, represent only the production of those establishments which actually quarry their own stone and are exclusive of the products of the stone-dressing industry comprising those establishments which buy rough stone and dress, polish or finish it; although frequently dressing operations are carried on right at the quarry and to that extent cannot be separated from the primary production. Of the total stone produced in 1931 over 74 p.c. was limestone, 14 p.c. granite, 11 p.c. sandstone and less than 0.3 p.c. marble. The average value per ton was \$1.01 for limestone, \$2.32 for granite, \$1.43 for sandstone and \$32.71 for marble. The marble was used chiefly for stucco dash, in pulp and paper mills and as dressed building stone. Of the other three kinds of stone by far the largest part was used as crushed stone.



CHAPTER XIII.—WATER POWERS.

The fresh-water area of Canada is officially estimated at 226,979 square miles—an area nearly twice as large as the whole land area of the British Isles, and certainly larger than the fresh-water area of any other country in the world. As many parts of this well-watered country are situated at a considerable height above sealevel, there are great sources of potential energy in the rapids and waterfalls of the rivers conveying the water from these areas to the sea. Water power, therefore, is among the chief natural resources of Canada, and its development has in recent years contributed materially to swe!l the volume of Canadian production.

This Water Power chapter of the Year Book is divided into three sections: the first describes our water powers, their development and use in industry; the second deals with the Canadian central electric station industry, which is based almost wholly upon hydro-electric power; the third treats of the public ownership of hydro-electric power in Ontario, the chief manufacturing area, and also describes the policies of the Hydro-Electric or Power Commissions in other provinces.

Section 1.—The Water Powers of Canada.1

The progress of civilization in its material aspects may be measured by the extent to which the resources of nature are adapted to the uses of mankind. These resources yield, in the first instance, raw materials such as coal and iron, cotton and lumber, hides and wool, which enter into so many things that they are spoken of as basic commodities. Energy, until comparatively recently, was largely secured by the combustion of coal and was therefore looked upon as a secondary product. whereas, when produced from falling water, it is just as much a primary product as coal itself. Energy now enters so largely into the scheme of modern existence that it is recognized as a basic commodity. Statistics concern themselves with kilowatt hours of electrical energy produced just as with the production of pig iron, coal or cotton, and take note of undeveloped water power as being a source of raw material just as important as uncut forests or untapped oil fields. The relationship of power to production is of such vital consequence that every nation, besides considering its own power-producing resources, is deeply interested in the similar resources of other countries and the method of their development. To facilitate a study of world power conditions two Plenary World Power Conferences composed of representatives from 47 member states have already been held to consider the technical, economic and statistical aspects of power development. for the future re-convening of such Conferences have been made.

Canada is richly endowed with water-power resources and is in the forefront as regards their utilization. In fact, practically every large industrial centre throughout the Dominion is now served with hydro-electric energy and has within practical transmission distance substantial reserves for the future. More than 95 p.c. of the total main plant equipment of the central electric stations of Canada is hydropower, and this equipment generates more than 98 p.c. of the total electrical output. Indeed, water power is a mainspring of industrial progress in the central provinces, which have no indigenous coal supplies. Table 1 shows the provincial distribution of available and developed power in Canada at Jan. 1, 1933.

¹ By J. T. Johnston, Director, Dominion Water Power and Hydrometric Bureau, Department of the Interior.

L-Available and Developed Water Power in Canada, by Provinces, Jan. 1, 1933.

	Availab Power Effic	Turbine		
Province.	At Ordinary Minimum Flow.	At Ordinary Six Months' Flow.	Installation.	
	h.p.	h.p.	h.p.	
Prince Edward Island	3,000	5,300	2,439	
	20,800	128,300	112,167	
New Brunswick.	68,600	169,100	133,681	
	8,459,000	13,064,000	3,357,320	
Ontario	5,339,000	6,949,000	2,208,105	
Manitoba	3,309,000	5,344,500	390,925	
Saskatchewan	542,000	1,082,000	42,035	
	390,000	1,049,500	71,597	
British Columbia Yukon and Northwest Territories	1,931,000	5,103,500	713,792	
	294,000	731,000	13,199	
Canada	20,317,400	33,617,200	7,045,260	

The figures of available power in the above table are based upon rapids, falls and power sites of which the actual existent drop, or the head of possible concentration, is definitely known or at least well established. Innumerable rapids and falls of greater or smaller power capacity, not as yet recorded, are scattered on rivers and streams from coast to coast and will only become available for tabulation as more detailed survey work is undertaken and completed. This is particularly true of the less explored northern districts. Nor is any consideration given to the power concentrations which are feasible on rivers and streams of gradual gradient, where economic heads may be created by the construction of power dams, excepting only at points where definite studies have been carried out and the results made matters of record.

The turbine installation in the above table represents the actual water wheels installed throughout the Dominion, but these figures should not be placed in direct comparison with the available power figures for the purpose of deducing therefrom the percentage of the available water-power resources developed to date. The actual water-wheel installation throughout the Dominion averages 30 p.c. greater than corresponding maximum available power figures calculated at ordinary six months' flow. The figures quoted above, therefore, indicate that the "at present recorded water-power resources" of the Dominion will permit of a turbine installation of about 43,000,000 h.p. In other words, the present turbine installation represents less than one-sixth of the present recorded water-power resources.

The above figures may be said to represent the minimum water-power possibilities of the Dominion. To illustrate, detailed analyses of the water-power resources of the provinces of New Brunswick and Nova Scotia have disclosed most advantageous reservoir facilities for regulating stream flow. It is estimated that the two provinces possess within their respective borders 200,000 and 300,000 commercial h.p.

Recent Increase in Turbine Installation.—Table 2 shows the yearly increase in turbine installation, by provinces, from 1900 to 1932 inclusive. During the four years immediately preceding the War nearly 1,000,000 h.p. was installed, during the following eight years approximately the same installation was made, while in the latest ten years the gain was 4,036,915 h.p.

2.—Hydraulic Turbine Horse Power Installed in Canada, by Provinces, as at Dec. 31, 1980-32.

Note.—Turbine horse power in Saskatchewan is reported as 30 from 1910 to 1917, 35 from 1918 to 1929, and 42,035 from 1930 to 1932; installation in Yukon was 5 from 1900 to 1906, 2,085 in 1907, 2,095 in 1908, 3,195 in 1909 and 1910, 13,195 from 1911 to 1913 and 13,199 from 1914 to 1932. These figures are included in the totals for Canada.

Year.	Prince Edward Island.	Nova Scotia.	New Bruns- wick.	Quebec.	Ontario.	Manitoba.	Alberta.	British Colum- bia.	Canada.
	h.p.	h.p.	h.p.	h.p.	h.p.	h.p.	h. p.	<u>ь.</u> р.	h.p.
1900	1,521	19,810	4,601	82,864	53.876	1,000	280	9,366	173,323
1901	1,581	20, 132	4,601	139, 149	62,788	1,000	280	9,366	238,903
1902	1,641	21,944	4,636	152,783	77,022	1,000	280	13,266	272,577
1903	1,641	23,518	7,427	164,258	79,909	1,000	355	20,346	298,459
1904	1,641	26,228 26,563	8,459	179,468 183,799	111,697	1,000 1,000	355	26,396	355,249
1905 1906	1,663 1,701	26, 363 26, 952	8,594 10,134	205, 211	202,896 279,028	38,800	355 355	29,834 45,816	454,209 608,003
1907	1.701	27,977	10, 134	242,582	345,404	38,800	355	58,570	727,646
1908	1,701	28, 419	10, 407	269.814	410,079	38,800	655	58,610	820.580
1909	1.734	29,381	10.507	305,556	437.613	38,800	655	63.048	890, 489
1910	1,760	31,476	11, 197	334,763	490,821	38,800	655	64,474	977, 171
1911	1,780	32,226	13,635	468,977	634,263	64,800	14,855	119,393	1,363,134
1912	1,785	32,773	15, 185	513,635	659, 190	64,800	15,035	165,838	1,481,466
1913	1,825	32,964	15, 185	551,871	751,545	64,800	32,835	224,680	1,688,930
1914	1,843	33,469	15,380	664,139	858, 534	78,850	33,100	252,690	1,951,244
1915	1,942	33,596	15,405	803,786	871,309	78,850	33,110	254,265	2, 105, 492
1916	1,962	33,656	15,480	836,394	921,158	78,850	33,110	288,330	2,222,169
1917	1,989	34,051	16,251	856,769	955,955	78,850	33,122	297,169	2,287,385
1918 1919	2,198	34,318	16,311	905,303 936,903	981,313 1,036,550	85,325 85,325	33, 122 33, 122	307,533 308,364	2,378,657 2,470,050
1920	2,233 2,233	35,193 37,623	19,126 21,976	955.090	1,057,422	85,325	33,122	309,534	2,515,559
1920	2,253	48,908	30,976	1.050.338	1.165.940	99,125	33, 122	310, 262	2,754,157
1922	2,274	49,142	42.051	1,099,404	1,305,536	134.025	33, 122	329.557	3.008.345
1923	2,274	50.331	43, 101	1, 135, 481	1,396,166	162,025	33, 122	356, 118	3, 191, 852
1924	2,274	65,572	44,521	1.312.550	1,595,396	162,025	34,532	360, 492	3,590,596
1925	2,274	65,637	42,271	1,749,975	1,802,562	183,925	34,532	443,852	4,338,262
1926	2,274	66,147	47, 131	1,886,042	1,808,246	227,925	34,532	463,852	4,549,388
1927	2,274	68,416	47, 131	2,069,518	1,832,655	255,925	34.532	475,232	4,798,917
1928	2,439	74,356	67,131	2,387,118	1,903,705	311,925	34,532	554,792	5,349,232
1929	2,439	109, 124	112,631	2,595,430	1,952,055	311,925	70,532	559, 792	5,727,162
1930	2,439	114,224	133,681	2,718,130	2,088.055	311,925	70,532	630,792	6, 125, 012
1931	2,439	111,999	133,681	3,100.330	2,145,205	390,925	70,532	655, 992	6,666,337
1932	2,439	112, 167	133, 681	3,357,320	2,208,105	390,925	71,597	713,792	7,045,260

Distribution of Developed Water Power.—An analysis is made in Table 3 of the distribution of developed water power among central electric stations, pulp and paper-mills and other industries. The extent to which pulp and paper manufacturing is dependent on water power is clearly shown by the figures below, which indicate that 8.5 p.c. of the developed power is installed by pulp and paper companies, in comparison with 4.7 p.c. developed by all other industries (excluding central electric stations). The pulp and paper industry also purchases a large amount of power from the central electric stations, and about 90 p.c. of its machinery is driven by water power. The bulk of the water power used in other industries is developed by central electric stations, converted into electricity and delivered to the various industrial plants.

During the past five years, 1928 to 1932 inclusive, 2,246,343 h.p., or almost 32 p.c. of Canada's present total installation of 7,045,260 h.p., was installed. While no new developments of any considerable size were initiated during 1932, construction is continuing upon several large undertakings which will add materially to this total during 1933 and subsequent years.

3.—Developed Water Power in Canada: Distribution, by Provinces and Industries, and per 1,000 Population, as at Jan. 1, 1333.

Note.—The figures in this table are preliminary and are subject to correction when official
data are complete.

D		Turbine In	Estimated Population	Total Installation		
Province,	In Central Electric Stations.	In Pulp and Paper- Mills. ²	In Other Industries. ³	Total.	June 1, 1932.4	per 1,000 Population.
	h.p.	Ъ.р.	h.p.	հ .թ.	h.p.	հ .թ.
Prince Edward Island	376 84,202	12.378	2,063 15,587	2,439 112,167	88,000 513,000	28 219
New Brunswick	104,960	19.778	8,943	133,681	409,000	327
Quebec	2,998,875	222,160	136, 285	3,357,320	2,904,000	1, 156
Ontario	1,872,823	240,880	94,402	2,208,105	3,459,000	638
Manitoba	390,925	_	-	390,925	705,000	554
Saskatchewan	42,000	i -	35	42,035	971,000	43
Alberta	70,320		1,277	71,597	740,000	97
British Columbia	547,160	105,800	60,832	713,792	704,000	1,014
Yukon and Northwest Ter-	<u> </u>	_	13, 199	13, 199	13,000	1,015
ritories		_	19,189	15,199	13,000	1,013
Canada	6,111,641	600,996	332,623	7,015,260	10,506,000	670

¹ Includes only hydro-electric stations which develop power for sale. ² Includes only water power actually developed by pulp and paper companies. In addition to this total, pulp and paper companies have motor equipment for operation by hydro-electricity purchased from central electric stations aggregating more than 1,007,000 h.p. attailly developed for the manufacture of pulp and paper. A considerable amount of off-peak power and surplus power is also purchased for use in electric boilers. ³ Includes only water power actually developed in connection with industries other than the central electric station and pulp and paper industries. These industries also purchase power from central electric stations. ⁴ As estimated by the Dominion Bureau of Statistics.

Section 2.—Central Electric Stations.1

The rapid growth of the central electric station industry has been stimulated by the large demand for power from the manufacturing industries, particularly pulp and paper plants, and from the domestic and commercial light customers, and also by the many improvements in generating and transmitting equipment and in electric appliances and motors. In Table 4 will be found statistics of the number of central electric stations, capital invested, revenue from sale of power, total horse-power, kilowatt hours generated and number of customers for the 15 years ended 1931, together with the number of persons employed and the amount expended for salaries and wages. The total output for 1931 amounted to 16,330,867,000 kilowatt hours and, based on preliminary figures from the large stations, the total production in 1932 is estimated at 15,986,000,000 kilowatt hours, the decrease in the output of 344,867,000 kilowatt hours being more than accounted for in the exports to the United States, which declined by 667,879,000 kilowatt hours.

Large quantities of surplus, or off-peak, power were exported to the United States from the Niagara plants in 1930, but owing to industrial inactivity in Buffalo and contiguous municipalities the requirements for imported power so diminished that the export of off-peak power dropped from 402 millions in 1930 to 170 millions in 1931 and to less than one-quarter of a million kilowatt hours in 1932.

The rapid increase in the production of electric energy by central electric stations is largely due to the growth of the pulp and paper industry. In 1924 the central electric stations supplied power to motors in the pulp and paper mills with

Revised by G. S. Wrong, B.Sc., Chief, Transportation and Public Utilities Branch, Dominion Bureau of Statistics. For a list of publications of this Branch see Chapter XXIX.

a total rating of 315,464 h.p. or 12·4 p.c. of all power equipment in manufacturing industries (the central electric station industry excluded). In 1930 this had increased to 993,024 h.p. or to 24·4 p.c. of the total power equipment in manufactures. Also the pulp and paper industry has been using an increasing amount of electricity for heating water. The capacity of electric boilers in this industry in 1931 was rated at 88,345 h.p. and the consumption of electric energy in these boilers amounted to 2,032,000,000 kilowatt hours. In pulp and paper mills practically all the electric energy is used 24 hours per day throughout the year, as against an average working day for other manufactures of 8 to 9 hours. Although the low rates are important factors in increasing the average consumption per capita for all purposes to 1,450 kilowatt hours (excluding exports), which is more than twice the average in the United States and over seven times the average in Great Britain, the large consumption by the pulp and paper industry, by mines and by electro-chemical industries are also important factors.

There are some interesting factors affecting the relative per capita consumptions of electricity from central electric stations in Canada and the United States. An abundant supply of low-priced coal in the industrial area of the United States, and no coal but an excellent supply of water power in the central provinces of Canada, tend to favour the generation of power in central stations in Canada more than in the United States. Again, the pulp and paper industry is proportionately a smaller industry in the United States than in Canada; on a power basis, the proportions are approximately 7 p.c. and 40 p.c. respectively. While the average consumption for domestic use is more than twice as high in Canada as in the United States, the total consumption for domestic or residential use is about 9-5 p.c. of the total output of central electric stations for Canada and 14 p.c. for the United States.

Summary of Statistics of Central Electric Stations, calendar years 1917-31.

Year.	Number of Stations.	Capital Invested.	Revenue from Sale of Power.2	Total Horse Power, ³	Kilowatt Hours Generated.	Cus- tomers.	Persons Em- ployed.	Salaries and Wages.
		\$	\$	h.p.	(000).	No.	No.	
1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930.	795 805 506 510 522 532 532 563 595	356, 004, 168 401, 942, 402 418, 512, 014 448, 273, 642 444, 669, 451 558, 068, 752 581, 780, 611 628, 565, 093 726, 721, 087 756, 220, 068 866, 825, 285 956, 919, 603 1, 055, 731, 532 1, 138, 200, 016 1, 229, 988, 951	43, 908, 085 47, 933, 490 58, 436, 082 58, 271, 622 62, 173, 179 67, 496, 893 74, 616, 863 79, 341, 584 88, 933, 733 104, 033, 297 112, 326, 819	1,907,135 1,897,024 1,977,857 2,258,398 2,423,845 2,849,450 3,569,527 3,769,323 4,173,349	5,497,204 5,894,867 5,614,132; 6,740,750 8,099,192 9,315,277 10,110,459 12,093,445 14,549,099 16,336,518 17,961,840	1,053,545 1,112,547 1,200,950	10,714 10,684 11,094 12,956 13,263 13,406 14,708 15,955 16,164 17,857	7, 777, 715 10, 354, 242 11, 487, 132 14, 626, 709 15, 234, 678 14, 495, 250 14, 784, 038 17, 946, 038 18, 755, 907 19, 943, 007 22, 946, 315 24, 253, 820 24, 831, 821 27, 287, 443 26, 306, 956

¹ Excluding non-generating stations in 1920 and subsequent years. ² Revised to exclude duplications.

⁸ Not including auxiliary plant equipment which is included in installation shown in central electric stations in Table 7 of the manufactures chapter, pp. 428 and 429.

Equipment of Central Electric Stations.—The main-plant primary power equipment of all central electric stations aggregated 5,705,757 h.p. in 1931. This included water wheels and turbines, steam reciprocating engines and turbines and internal combustion engines. The hydraulic power machines greatly predominated

over the other prime movers, providing 95 p.c. of the total capacity, with steam turbines, steam reciprocating engines and internal combustion engines making up the remaining 5 p.c. Not included in the above were steam engines and internal combustion engines with a capacity of 184,043 h.p., or 2.9 p.c. of the total power capacity, installed as auxiliary or standby equipment.

Central electric stations that have no water power, but are operated by steam and internal combustion engines, are on the whole small stations. Of the 66 main-plant steam reciprocating engines in central electric stations in 1931, only 12 in number, or about 18 p.c., were over 500 h.p. The steam turbines averaged over 3,620 h.p. with 15 units averaging 9,600 h.p., but there were only 66 steam turbines in the industry and these were confined to 27 stations, whereas the 790 water wheels and turbines averaged 6,860 h.p.

The majority of the fuel-using stations are primarily for lighting purposes, using the cheapest fuel procurable, generally local coal. In the Prairie Provinces bituminous and lignite coals are used for the steam engines, and gasolene, oil distillates and producer gas for the internal combustion engines.

Of the 317 main-plant internal combustion engines in central electric stations in 1931, 185, or 58 p.c., were in Saskatchewan, 51, or 16 p.c., in Alberta and 34, or 11 p.c., in Manitoba.

During 1931, the fuel stations produced 295,064,000 kilowatt hours at a cost for fuel of \$1,789,634, an average of 0.61 ct. per kilowatt hour. This production was, however, only 1.8 p.c. of the total output. The auxiliary equipment in central stations consumed fuel valued at \$102,618 and produced 10,469,000 k.w. hours.

5.—Equipment of Central Electric Stations, 1931.

Norg. -K.V.A. means Kilo-volt-amperes.

Province.	Num- ber of Power	Water Wheels and Turbines.			Steam Engines, Steam Turbines and Internal Combustion Engines.			Dynamos.		
	Plants.	No.	Capacity.	Average Capacity.	No.	Capacity.	Average Capacity.	No.	Capacity.	Average Capacity
MAIN PLANT EQUIPMENT.			h.p.	h.p.		h.p.	h.p.		K.V.A.	K.V.A.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	11 48 19 96 125 28 119 56	9 52 16 254 336 37 - 18 68	464 80,007 105,485 2,513,542 1,774,121 376,925 69,520 502,255	9,896 5,280 10,187 3,862	33 22 5 8 49 213 83	5,063 46,342 21,275 4,886 9,470 135,026 58,827 2,611	117	84 39 263 337 82 211 96	4,929 102,101 107,477 2,159,741 1,436,989 306,401 114,776 104,677 390,285	8, 212 4, 264 3, 787 544 1, 090
Yukon	559	794	5,422,319	6,864	449	284,438		1,227	4,727,376	3,85
Auxiliary Plant Equipment. Totals		-	-	_	127	184,043	1,449	117	157,221	1,34

Provincial Distribution of Electrical Energy.—The distribution by provinces of the electrical energy generated in central electric stations throughout Canada is shown in Table 6 for the calendar years 1927-31. In the latter year about 80 p.c. of the total generated electrical energy was produced in the leading industrial provinces of Ontario and Quebec. From Table 7 it is seen that

the total of electric energy generated for export in the fiscal year ended Mar. 31, 1932, was 1,008,398,958 kilowatt hours; in the calendar year 1931 it had amounted to 1,281,653,817 kilowatt hours, or 7.8 p.c. of the total amount generated in central electric stations.

6.—Electrical Energy Generated in Central Electric Stations, by Provinces, calendar years 1927-31.

Post to se	Kilowatt hours ("000" omitted).						
Province,	1927.	1928.	1929.	1930.	1931.		
Prince Edward Island Nova Scotia. New Brunswick Quebec. Ontario. Manitoba Saskatehewan Alberta British Columbia. Yukon	83,695 53,095 6,523,605 5,792,820 875,897 85,603 156,066	2,289 97,448 73,846 7,682,425 6,064,031 1,050,898 98,971 181,272 1,074,818 11,506	2,726 107,467 125,267 8,664,334 6,453,510 1,108,192 119,455 205,351 } 1,176,213	3,591 223,421 332,598 8,822,901 6,160,987 991,237 137,217 204,076 1,217,774	4,413 257,573 404,850 8,066,026 4,948,819 1,084,763 134,014 205,082		
Canada	14,549,099	16,337,801	17,962,515	18,093,802	16,330,967		

Electric Light and Power.—Electric light and power companies are subject to registration and inspection under the Electricity Inspection Act, 1907 (6-7 Edw. VII, c. 14), and the production of electrical energy for export is regulated by the Electricity and Fluid Exportation Act, 1907 (6-7 Edw. VII, c. 16). Both Acts were administered by the Department of Inland Revenue until Sept. 1, 1918, when, by Order in Council of June 3, 1918, their administration was transferred to the Department of Trade and Commerce. (See cc. 54 and 55, R.S.C., 1927.)

Electrical energy produced for export increased from 538,331,425 kilowatt hours in the fiscal year ended Mar. 31, 1911, to 1,749,539,778 kilowatt hours in 1931 but fell to 1,008,398,958 kilowatt hours in 1932. Figures by companies for the last four fiscal years are given in Table 7.

7.—Electrical Energy Generated or Produced for Export under Authority of the Electricity and Fluid Exportation Act, fiscal years ended Mar. 31, 1929-32.

Company.	1929.	1930.	1931.	1932.
	k.w. hours.	k.w. hours.	k.w. hours.	k.w. hours.
Hydro-Electric Power Commission of Ontario Canadian Niagara Power Co., Niagara Falls, Ont. Ontario and Minnesota Power Co., Fort Frances, Ont.		303,809,900	338, 183, 620	253,816,000
Maine and New Brunswick Electric Power Co., Ltd., Aroostook Falls, N. B British Columbia Electric Ry. Co., Vancouver, B.C. Western Power Co. of Canada, Vancouver, B.C. Southern Canada Power Co., Sherbrooke, Que	10, 164, 151 807, 572 611, 365 610, 608	641,586 14,408	16,840 ² 2,506	146,606 5,951
Cedars Rapids Mg. and Power Co., Cedars Rapids, Que. West Kootenay Power and Light Co., Ltd., Rossland, B.C.	443,604,762	448, 396, 462		
International Electric Co., Ltd., Stewart, B.C. Maritime Electric Co., Ltd., St. Stephen, N.B. Fraser Companies, Ltd. Northport Power and Light Co., Northport, Wash.,	69,330 765,522 3,232,300	869,296	561,000 7,905,570	318,850 8,218,900
U.S.A. ¹ Northern British Columbia Power Co., Prince Rupert,	_	317, 128	268,587	271,490
B.C. International Railway Co., Niagara Falls, Ont Detroit and Windsor Subway Co.	- -	40,329 717,774	52,630 718,470 84,400	59,760 553,418 484,500
Totals	1,601,212,276	1,497,105,389	1,749,539,778	1,008,398,958

¹ Purchases from West Kootenay Power and Light Co., Ltd., Rossland, B.C.

2 No exports March 1930 to January, 1931, inclusive.

Section 3.—Public Ownership of Hydro-Electric Power.

When, in the early years of the twentieth century, it became evident that the development of hydro-electric power would become a 'key industry' in Canada, more especially in its coal-less central provinces of Ontario and Quebec, a strong movement arose in favour of conserving the water powers of the country for the public benefit instead of allowing them to pass into the hands of private corporations. This 'public ownership' movement developed especial strength in Ontario and finally led to the establishment of the Hydro-Electric Power Commission, the operating statistics of which are given below. In more recent years, Manitoba, Nova Scotia, New Brunswick and Saskatchewan have established Hydro-Electric Commissions on the model of the Ontario system. In Quebec and British Columbia, on the other hand, the development of hydro-electric power has been left in the hands of private corporations.

Subsection 1.—The Hydro-Electric Power Commission of Ontario.¹

The publicly-owned hydro-electrical undertaking of Ontario—known in the province as the "Hydro"—is an organization of a large number of partner municipalities, co-ordinated into groups or systems for securing common action with respect to power supplies. It had its beginning in 1903, when, as a result of public agitation to ensure the provision of adequate supplies of electrical power for distribution throughout the province at low cost, seven municipalities united under statutory authority in appointing an investigating commission to deal with power problems. This commission, known as the Ontario Power Commission, completed its work in 1906, and in the same year the Ontario Government, by special Act, created the present Hydro-Electric Power Commission of Ontario. The operations of the undertaking have grown rapidly and in 1931 electrical service was supplied by the Commission to about 720 municipalities, comprising nearly all of the cities and towns of the province, as well as many small communities and rural areas.

The providing of the power, either by generation or purchase, its transformation, transmission and delivery to the individual municipalities and to large industrial consumers, and the operation of rural power districts are carried on by the municipalities acting collectively through their agent and trustee, the Hydro-Electric Power Commission of Ontario. The local operations involved in the retail distribution of the electrical energy to the consumers within the limits of the various urban municipalities are performed by the municipalities individually through municipal utility commissions acting under the general supervision of the Hydro-Electric Power Commission.

Capital required for plant to generate and transmit power is lent by the province, and the municipalities are under contract to repay, over a period of 40 years, the moneys thus lent, with interest in full. The local distribution systems are financed individually by the issue of municipal debentures. Provision is made, in the rates charged to the ultimate consumers, for revenue with which to retire these bonds in from 20 to 30 years. The rates at which power is supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply, and other factors. The basic principle underlying the operations of the undertaking is the provision of service 'at cost'. The rates charged by the municipal utilities for retail service are under the control of the

¹ Revised by Arthur V. White, Consulting Engineer of the Hydro-Electric Power Commission of Ontario, Toronto, Ontario.

Commission and are designed to ensure that each class of consumer bears its appropriate share of the expenses of the undertaking. Each type of consumer is charged with the cost of the service he receives as far as is practicable.

Power Supplies.—To meet the constantly expanding power demands of the undertaking, the Commission has constructed its own generating plants, has made long-term contracts for the purchase of power from other organizations, and has acquired several privately-owned generating plants. Of the 38 hydro-electric power plants operated by the Commission in 1931, the largest is the Queenston-Chippawa development on the Niagara river which was constructed by the Commission and has a normal operating capacity of 525,000 h.p. Provision for the needs of the near future had been made at the end of 1931—including existing plants, plants under construction and power under contract for present and future delivery—up to an aggregate of about 2,000,000 h.p.

Hydro-Electric Power Commission Statistics.—The Canada Year Book of 1910 (p. xliii) described the turning on, Oct. 11, 1910, at Berlin (now Kitchener), Ontario, of electrical energy generated by Niagara falls. The small initial load of less than 1,000 h.p. increased rapidly and by 1915 had reached 100,000 h.p. In 1920 the total power distributed exceeded 350,000 h.p. and in 1930 it was over 1,260,000 h.p. Table 8 shows the growth of the co-operative municipal electrical undertaking of Ontario. It will be noted that the total capital of the undertaking, which includes investments of the Hydro-Electric Power Commission in power-producing and transmitting equipment, etc., and investments of the municipalities in distributing systems and other assets, aggregated about \$373,000,000 in 1931.

8.—Summary Statistics Representative of the Growth of the Ontario Hydro-Electric Power Commission's Undertaking, 1910-21.

Year.	Munici- palities Served.	Customers Served.	Total Power Distributed by Commission.	Capital of Commis- sion and Assets of Municipal Utilities.
	No.	No.	ь .р.	\$
1910 1911 1911 1912 1913 1914 1915 1916 1916 1917 1918 1919 1920 1921 1922 1923 1924 1923 1924 1925 1926 1927 1928	10 26 36 38 95 131 215 226 252 266 301 348 448 4501 530 607 688 721	58, 961 96, 744 116, 892 155, 052 181, 711 194, 382 230, 472 261, 582 285, 923 364, 983 445, 922 439, 702 448, 241 469, 572 522, 770 552, 321 566, 660, 297	2,500 15,200 31,000 45,000 77,000 104,000 187,000 333,000 316,000 328,000 605,000 605,000 685,486 691,198 316,295 928,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,732 949,	2,521,000 4,020,000 4,576,000 17,698,000 25,023,000 34,917,020 87,812,000 103,591,000 193,918,000 220,594,000 236,023,000 254,189,000 274,972,000 274,972,000 297,204,080 314,237,000 373,010,000

Table 9 shows the growth in load in the various systems during the past five years.

Distribution of Power to Systems of the Ontario Hydro-Electric Power Commission, 1927-31.

(20-minute peak horse-power-System, coincident peaks.)

System and District.	October, 1927.	October, 1928.	Oetober, 1929.	October, 1930.	October, 1931.
	Ъ.р.	h.p.	h.p.	h.p.	h.p.
Niagara system Dominion Power and Transmission	810,322	879,357	949,732	1,000,670	805,630
Dominion Power and Transmission				58,579	48,659
Georgian Bay system	19,247	20,082	22,118	23,355	26,356
Eastern Ontario system 1	-	-	62,035	88,678	85,857
Central Ontario district	43,458	47,493	1		L
St. Lawrence district	8,246	9,896	1	1	1
Rideau district	3,290	3,351	1	1	L
Ottawa district	18.480	20, 241	22.079	1	L
Thunder Bay system	43.603	48,910	77,117	73,968	51,600
Northern Ontario system—	-0,000	,	,,,	**,***	
Nipissing district	3,054	3,170	3,599	3,745	3,689
Sudbury district	3,001	۰,۰۰۰	3,000	12,935	27,200
Patricia district	į			1,582	1,912
* Totals	949.700	1.033,500	1,136,689	1.263.512	1,050,903

In 1929 the Eastern Ontario system was formed as a consolidation of the Central Ontario and Trent, the St. Lawrence and the Rideau systems, and in 1930, the Ottawa and the Madawaska systems were also included. These former systems are now called districts.

The initial capital expenditure to serve some twelve municipalities amounted to about \$3,600,000. Table 10 shows for the past five years the capital investment in the respective systems of the undertaking and in the associated municipal undertakings.

10.—Capital Investments in Ontario's Hydro Undertakings, 1927-31.

Item.	1927.	1928.	1929.	1930.	1931.
Investments by Commission on behalf of co-operating municipalities, in generating plants and transmission systems,	\$	\$	*	\$	\$
etc.— Niagara system Dominion Power and Transmission. Chats Falls development. Georgian Bay system Eastern Ontario system ! Transmission lines ? Central Ontario district. St. Lawrence district. Rideau district. Ottawa district. Ottawa district. Madawaska district, Thunder Bay system Northern Ontario system ? Nipissing district 4 Hydro-electric railways. Office and service buildings, construction plant, inventories, etc. Miscellaneous, engineering, storage,	157, 273, 133 	1,852,166 1,189,021 201,331 14,332,937	6,310,035 18,045,388 1 1 537,194 1,864,647 15,325,411 1,565,754 7,259,997		21, 489, 435 4, 835, 708 8, 203, 446 21, 570, 767
etc		211,217,481	222,082,637	260,593,779	267,575,540
Investments by municipalities in distri- buting systems and other assets (exclu- sive of sinking fund equity in H.E.P.C. systems, included above), all systems.	81,792,678	85,986,288	92, 154, 281	99,054,262	105,434,582
Grand Totals	286,164,745	297,203,769	314,235,918	359,648,041	373, 610, 122

¹ See footnote 1, Table ² Subsequently included in Eastern Ontario system. ³ The Northern Ontario system includes the Nipissing district, the Sudbury district and the Patricia district. ⁴ The Nipissing district of the Northern Ontario system is, for purposes of certain financial administration, associated with the districts of the Eastern Ontario system.

The total reserves of the Commission and of the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes are shown in Table 11.

 Accumulated Reserves of the Ontario Hydro-Electric Power Commission and of the Local Electric Utilities of the Co-operating Municipalities, 1927-31.

Item.	1927,	1928.	1929.	1930.	1931.
	*	\$	\$		*
Niagara system	23,673,223	28,989,376	35,940,823	43,069,032	48,503,212
Georgian Bay system	1,379,191	1,417,747	1.655.366	1,889,782	2, 197, 526
Eastern Ontario system ¹	· · · -	' '-	3,447,044	4,123,718	4,865,15
Central Ontario district	2,105,281	2,539,212	111	1 1	i
St. Lawrence district	333,996	379,505	1	1	t t
Rideau district	212,548	258,861	į į	1	1
Ottawa district		14,498	24,734	L	1
Thunder Bay system	612,548	954,006	1,566,521	2,165,992	2,597,317
Northern Ontario system*	-	-	l -	10,583	86,94
Nipissing district ⁴	145,693	182,416	•	4	4
Bonnechère storage	11,201	13,775	16,451	19,234	-
Service buildings and equipment	465,903	499, 138	542,755	570,210	616,737
Hydro-electric railways	156,332	140,804	133,298	102,952	98,729
Insurance—Workmen's Compensation and staff pension insurance	1,820,546	2, 156, 246	2,554,759	2,993,347	3.438,795
Total reserves of the Commission	30, 929, 018	37, 545, 584	45,881,750	54,944,850	62,404,412
municipal electric utilities	34,505,522	38,735,346	44,058,573	48,912,833	53,235,314
Totals, Commission and Municipal Reserves	65,434,540	76,280,930	89,340,324	103,857,683	115,639,720

For footnotes see footnotes to Table 10.

Statistics of Urban Municipal Electric Utilities of Ontario Supplied by the Commission.—The Commission exercises supervisory functions over the electrical utilities owned and operated by the partner municipalities, and has introduced a uniform accounting system which enables the Commission to present in its Annual Reports consolidated balance sheets and operating reports regarding these utilities. These statistics relate to about 90 p.c. of the retail customers supplied by the undertaking. Summary statistics regarding service to rural consumers are given in Table 14, p. 396.

Statistics of the assets and liabilities of the electric departments of urban municipalities served by the Hydro-Electric Power Commission are given in Table 12. These show, for 1931, total assets of \$125,537,858, as compared with liabilities of \$52,199,268. Of the difference, \$35,544,455 is allotted as reserves, leaving a surplus of \$37,794,135. The item "Equity in Hydro Systems", listed under both assets and reserves, relates to the sinking fund equity acquired by the individual municipalities in their collective generation and transmission undertaking administered by the Hydro-Electric Power Commission. All other items relate to the local distributing systems operated individually by the urban municipalities which are partners in the Hydro undertaking. In computing the percentage of net debt to total assets the equity in Hydro systems is not taken into account. It will be noted that whereas between 1927 and 1931 total assets have increased by \$33,601,974, total liabilities have increased by only \$4,912,112.

12.—Consolidated Statement of Assets, Liabilities, Reserves and Surplus of Electric Departments of Urban Municipalities Served by the Hydro-Electric Power Commission of Ontario, calendar years 1927-31.

				· · ·	
Item.	1927.	1928.	1929.	1930.	1981.
Number of Municipalities Included	252	256	260	267	275
Assets—Plant— Lands and buildings. Substation equipment. Distribution system—overhead. Distribution system—underground. Line transformers. Meters Street lighting equipment—regular. Street lighting equipment—ornamental. Miscellaneous construction expenses. Steam or hydraulic plant Old plant	6,486,427 15,088,905 16,689,462 3,273,383 5,985,521 6,346,661 1,399,314 1,184,036 3,360,671 607,320 5,095,556	7, 024, 647 16, 866, 186 17, 688, 051 3, 559, 298 6, 549, 674 6, 839, 803 1, 486, 646 1, 203, 707 3, 394, 627 619, 881 5, 032, 089	7,469,451 18,102,792 18,108,017 4,823,370 7,812,742 7,405,479 1,594,183 1,458,360 3,483,488 489,097 5,093,379	7, 936, 974 19, 485, 056 19, 220, 327 4, 932, 189 7, 953, 090 7, 840, 948 1, 780, 786 1, 520, 891 3, 996, 748 139, 587 5, 322, 690	8, 407, 664 21, 013, 957 19, 918, 356 5, 361, 627 8, 649, 875 8, 106, 203 2, 205, 613 1, 456, 743 3, 827, 132 458, 374 7, 146, 438
Totals, Plant	65, 522, 256	70,264,599	75,340,348	80, 129, 286	86,551,982
Other Assets— Bank and cash balance. Securities and investments. Accounts receivable	3,014,832 1,696,238 3,715,771 1,412,729 6,398,910 10,143,206 31,942	1,342,367 1,837,140 4,097,448 1,220,186 7,071,274 12,326,098 153,275	858, 734 2,001,089 4,683,202 1,365,033 7,753,614 14,754,865 152,261	2,722,250 1,909,489 4,481,007 1,242,995 8,396,256 17,346,872 173,030	2,738,320 1,999,846 3,957,973 1,276,531 8,735,051 20,103,276 174,879
Totals, Assets	91,935,884	98,312,385	106,909,146	116,400,635	125,537,858
Liabilities— Debenture balance	42,891,362 2,988,622 252,362 1,154,810	42,597,176 3,074,634 253,144 1,258,610	42,930,128 3,132,145 412,057 1,621,378	45,091,808 3,001,186 405,663 1,642,772	44,594,400 5,382,306 312,576 1,909,986
Totals, Liabilities	47,287,156	47,183,564	48,095,708	50,141,429	52,199,268
Reserves— For equity in H.E.P.C. system Other reserves Totals, Reserves	10,143,206 10,319,889 1,002,917 21,466,012	12,326,097 11,140,796 1,117,258 24,584,151	14,754,865 11,911,155 1,437,371 28,103,391	17,346,372 12,885,388 1,574,656 31,865,416	20, 103, 276 13, 748, 049 1, 693, 130 35, 544, 455
••		ļ———		i	
Surplus— Debentures paid Local sinking fund. Additional operating surplus	6,648,767 6,398,910 10,135,039	7,928,907 7,071,274 11,544,489	9,194,253 7,962,121 13,553,673	10,728,279 8,396,255 15,328,256	13,150,040 8,735,051 15,909,044
Totals, Surplus	23,182,716	26,544,670	30,710,047	34,452,790	37,794,135
Total Liabilities, Reserves and Surplus.	91,935,884	98,312,385	105,909,146	115,400,635	125,537,858
Percentages of net debt to total assets	54.2	50-8	47.8	46-0	44-1

In Table 13 will be found details of the earnings and expenses of the electrical distributing systems of the urban municipalities served by the Hydro-Electric Power Commission, for the five years from 1927 to 1931. The first item of expense "power purchased" is the municipalities' share of the Commission's costs for generation, purchase, and transmission of the power in bulk; all other expenses and earnings relate to local distribution within the municipalities. A very rapid growth will be noted.

13.—Statement of Earnings and Expenses of Electric Departments of Urban Municipalities Served by the Ontario Hydro-Electric Power Commission for the calendar years 1927-31.

Item.	1927.	1928.	1929.	1930.	1931.
Number of Municipalities Included	251	255	259	267	275
n .			\$	•	\$
Earnings Domestic service Commercial light service Commercial power service Municipal power Street lighting. Sale of merchandise Miscellaneous	8, 189, 867 4, 626, 815 7, 342, 173 1, 913, 503 1, 489, 242 13, 766 581, 913	8,925,051 5,182,723 8,298,669 1,921,301 1,534,477 48,452 465,792	9,873,682, 5,697,766 9,376,159 2,086,444 1,598,262 51,591 522,781	10,542,904 5,961,383 9,340,653 2,111,482 1,674,528 28,955 581,915	10,972,952 6,230,476 9,456,225 1,967,119 1,746,856 29,446 511,140
Totals, Earnings	24,157,279	26,376,465	29,206,685	30,241,820	30,914,213
Expenses— Power purchased Substation operation Substation maintenance Distribution system, operation and maintenance Line transformer maintenance Meter maintenance Consumers premises expenses Street lighting, operation and main-	758,747 94,706 214,814 285,353	14,688,570 420,512 247,648 736,160 88,676 218,531 291,333	16,379,163 461,270 274,276 907,817 93,608 242,126 314,495	17, 323, 078 479, 503 320, 717 991, 973 96, 746 278, 379 317, 902	18,085,167 487,484 303,536 1,015,256 93,463 284,634 363,078
tenance. Promotion of business Billing and collecting. General office, salaries and expenses. Undistributed expense Truck operation and maintenance. Interest. Sinking fund and principal payments or debentures.	318,396 220,687 605,627 824,869 531,004 2,063,698	329, 597 249, 842 638, 797 844, 578 542, 755 2, 111, 050 1, 601, 711	359, 373 250, 844 695, 729 904, 026 502, 206 110, 631 2, 152, 695	372, 211 249, 070 745, 159 907, 227 523, 863 112, 030 2, 220, 214 1,828, 062	368, 120 255, 956 792, 984 923, 677 520, 893 107, 919 2, 328, 094 2, 061, 719
Totals, Expenses	21,434,472	23,009,761	25,335,462	26,766,134	27,991,980
Surpluses Depreciation charges	2,522,807 1,249,712	3,366,704 1,350,252	3,871,223 1,469,847	3,475,686 1,574,992	2,922,233 1,755,719
Surpluses less depreciation charges	1,273,095	2,016,452	2,401,376	1,900,694	1, 166, 514

¹ Relates to rural service which is now given in "rural power districts"

Rural Electrical Service in Ontario.—During the past few years substantial progress has been made in Ontario in the field of rural electrification and the Commission's rural operations are now an important feature of its work. Towards this rural work the Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, contributes, in the form of "grants-in-aid", 50 p.c. of the initial capital cost of distribution lines and equipment. In 1930 the Ontario legislature passed two additional Acts relating to rural service. The Rural Power District Loans Act, 1930, provides for advances up to \$1,000 to actual owners of lands and premises in rural power districts, for the installation of electrical wiring and the purchase of equipment. The Rural Power District Service Charge Act, 1930, provides for the fixing of low maximum service charges for all classes of rural service. In Table 14 will be found statistics relating to rural electrical distribution systems operated by the Hydro-Electric Power Commission. A rapid rate of increase is obvious from these statistics.

14.—Statistics Relating to Electrical Service in Rural Power Districts Operated by the Hydro-Electric Power Commission of Ontarlo, years ended Oct. 31, 1927-31.

Note.—Re Rural Power District Legislation, consult the following Provincial Government publications: The Power Commission Act (R.S.O., 1927, c. 57); The Rural Hydro-Electric Distribution Act (R.S.O., 1937, c. 59); The Rural Power District Loans Act, 1930 (20 Geo. V, c. 14), and The Rural District Service Charge Act, 1930 (20 Geo. V, c. 15).

Item.	1927.	1928.	1929.	1930.	1931.
Number of rural power districts Number of townships served Number of consumers Miles of primary distribution lines Horse-power supplied Revenue from customers Total expenses Net surplus Capital invested, totals Provincial grants-in-aid, totals	120	131	141	160	167
	271	233	266	297	338
	25, 283	31,063	37,340	46,715	55, 600
	2, 850	3,790	4,835	6,726	8, 197
	13, 273	16,980	21,138	26,782	31, 790
	1, 032, 558	1,342,625	1,684,455	1,998,252	2, 456, 989
	880, 940	1,290,500	1,495,928	1,864,823	2, 354, 792
	143, 618	52,125	188,527	133,428	102, 197
	5, 469, 179	7,298,284	9,324,514	12,665,249	15, 507, 583
	2, 718, 727	3,628,146	4,636,195	6,297,954	7, 677, 842

Subsection 2.—Hydro-Electric and Power Commissions in Other Provinces.

Quebec.—The Quebec Streams Commission, originally created by 1 Geo. V, c. 5, and given additional powers by 3 Geo. V, c. 6 (see R.S.Q., 1925, c. 46) and by 20 Geo. V, c. 34, is authorized to ascertain the water resources of the province, to make recommendations regarding their control, and to construct certain storage dams and operate them so as to regulate the flow of streams. The Commission has not undertaken the direct production of electric power, but has assisted companies engaged in such work by a systematic collection of data on the flow of the principal rivers and on the meteorological conditions, by investigation of numerous water-power sites and determination of the longitudinal profile of a large number of rivers, but mostly by the regulation of the flow of the principal power streams, thereby increasing very materially the amount of power available. This regulation is obtained by constructing storage dams holding water in large reservoirs during flood periods and using it to increase the flow at low-water periods.

The Commission has built storage reservoirs on the St. Maurice river, where the low-water flow has been increased from 6,000 second-feet to 18,000 second-feet, on lake Kenogami, the St. Francis, the Métis, the Ste. Anne de Beaupré and the North rivers. The entire cost to the Commission of these storage works has been about \$9,000,000 and the annual revenue exceeds \$750,000.

Other reservoirs which are the property of the Commission and are operated by that body have been built and paid for by the benefiting companies instead of being financed by the Commission, namely:—

In the Gatineau River watershed two large storage reservoirs, Baskatong and Cabonga, were completed in 1927 and 1929, with a combined capacity of 140 billions of cubic feet, making it possible to increase the flow of the Gatineau river from 3,000 second-feet to 10,000 second-feet. This work was paid for by the Gatineau Power Co.

On the Lièvre river, a storage reservoir of 18 billions of cubic feet was completed in 1930 at Cedars Rapids, one mile and a half above Notre-Dame-du-Laus and will be operated to maintain a regulated flow of 3,500 second-feet at High Falls. The cost of this dam was paid by the James MacLaren Co., of Buckingham.

On Mattawin river, St. Maurice District, a storage reservoir of 33 billions of cubic feet was built in 1930 at Taureau rapid, 80 miles from the mouth of the river, with a view to a better and more complete regulation of the flow of the St. Maurice river. This work was paid for by the Shawinigan Water and Power Co.

Nova Scotia.—The Nova Scotia Power Commission was created in 1919 with powers similar to those of the Ontario Commission. It is authorized to "generate, accumulate, transmit, distribute, supply and utilize electrical energy and power in any part of the province of Nova Scotia, and do everything incidental thereto or deemed by the Commission necessary or expedient therefor". Its main operations, however, are undertaken with the approval of the Lieutenant-Governor in Council.

The Commission has already constructed several important hydro-electric developments and is now operating the following systems: St. Margaret's Bay—sells power by wholesale in Halifax and vicinity; Mushamush—sells power by wholesale and retail in Lunenburg Co.; Sheet Harbour—sells power by wholesale in Pictou Co., supplies demands of a groundwood pulp-mill at Sheet Harbour, retails in Sheet Harbour and in Musquodoboit valley and is extending retail service to Stewiacke valley, and is extending to serve town of Truro; Mersey System—supplies demands of pulp and paper-mill at Brooklyn, Queens Co.; Markland System—supplies town of Liverpool, Caledonia valley and places in vicinity, including woodworking factory and that of a gold mine; Tusket System—sells power by wholesale in Yarmouth, also supplies demands of Cosmos Imperial Mills, Ltd., at Yarmouth; Roseway System—sells power wholesale in Shelburne; Antigonish System—supplies Antigonish town, and other communities in Antigonish Co.

The total installed capacity is 62,875 h.p., and there are about 235 miles of main transmission lines and 121 miles of secondary transmission and distribution lines. The total capital expenditure to Sept. 30, 1932, was \$13,626,740 and the reserves were \$1,297,474.

New Brunswick.—The New Brunswick Electric Power Commission operates under authority of 10 Geo. V, c. 53, and amendments thereto, and has powers somewhat similar to those of the Hydro-Electric Power Commission of Ontario, except that the plant and equipment operated by the Commission are the property of the province and not of the municipalities.

The Commission owns and operates an 11,000 h.p. hydro-electric plant at Musquash, twelve miles west of Saint John, and purchases auxiliary power from the New Brunswick Power Co. at Saint John and the Bathurst Co. Ltd. on the Nipisiguit river. It operates 100 miles of 66,000 volt line between Musquash and Moncton, 37 miles of 32,000 volt line from Nipisiguit to Newcastle, together with 500 miles of primary distribution lines.

The Commission also has a powdered fuel plant at Newcastle Creek on Grand lake. This plant has an initial installed capacity of 5,000 k.w. The plant was placed in operation Sept. 1, 1931, supplying power to Fredericton and Marysville by means of a double circuit 33,000 volt transmission line. The plant is also connected with the Musquash system by means of a 66,000 volt transmission line from Minto to Moncton. This line was placed in operation Nov. 15, 1931.

The Commission sells power en bloc to Saint John, Moncton, Sussex, Newcastle and Fredericton; it retails directly in several towns and villages between Saint John and Dorchester, also between Moncton and Shediac, Moncton and Albert,

and along the Saint John River valley from Saint John to Gagetown, and from Fredericton north a distance of 18 miles and south a distance of 12 miles. This system serves, directly or indirectly, about 22,000 customers. The total plant investment of the Commission amounts to \$6,000,000 and the total annual revenue is about \$650,000.

Manitoba.—The formation of the Manitoba Power Commission was authorized by the passage of the Electrical Power Transmission Act of 1919 (c. 30, also c. 61 Consolidated Amendments, 1924) which authorizes the Commission to make provision for generating electrical energy, to enter into contracts for the purchase of power in bulk from generating agencies, and for its transmission and sale to municipalities, corporations and individuals. In 1929 legislation was passed whereby the Government undertook to pay interest charges and sinking fund charges on an amount not exceeding 50 p.c. of the capital cost of the construction and erection of equipment required for the generation and transmission of electrical power or energy to municipalities, farms and other customers.

The Commission has built and is now operating an extensive transmission system under authority of the above Act, supplying electrical power to many thousands of customers throughout Manitoba. This power is purchased under the Seven Sisters power contract from the Northwestern Power Co. and transmitted over high tension steel-tower lines to Portage la Prairie, Brandon and Morden. From this main system power is transmitted to the territory south of the Winnipeg-Brandon main line as far as the International Boundary.

A branch system serving the territory along the western boundary of the province, including the towns and villages of Reston, Pipestone, Melita, Napinka, Elkhorn, Miniota, Crandall and Arrow River, has been constructed and is operated by the Commission. This system which, until August 1931, was supplied with power generated by the Commission's plant at Virden, is now tied into the main system and supplied with power generated at Seven Sisters.

Under the authority granted by the Electrical Power Transmission Act of 1919, the Commission has made purchases of municipally-owned plants—notably at Birtle and Brandon—or entered into contracts for the supply of power by municipally-owned plants—as at Dauphin—or by the Winnipeg Electric Co., whereby power is supplied to outlying districts. This phase of the Commission's activities has shown steady growth and in 1931 several extensions were made.

The Commission owns and operates the central steam-heating system at Brandon, supplying heat to the business and part of the residential section of the city. The Commission also owns and operates the gas plant supplying gas to commercial and residential customers. It is the intention of the Commission to supply all outlying power areas from the main system just as soon as their loads are sufficient to justify the cost of building extensions.

Saskatchewan.—The Saskatchewan Power Commission was established in 1929 under the Power Commission Act (R.S.S., 1930, c. 30), authorizing the Commission to manufacture, sell and supply electrical energy, to acquire and develop water-power sites, to acquire or construct steam and oil plants, to construct transmission lines, to purchase power and to enter into contracts with municipalities for the supply of energy. The Commission is also given certain control and regulatory powers re the operation of electric public utilities, and is charged with the responsibility for the administration of The Electrical Licensing Act (R.S.S., 1930, c. 214).

The initial operations of the Commission were concerned with acquiring by purchase municipally-owned plants which were improved, enlarged or supplemented by installations made by the Commission and were operated as individual systems of supply. Examples of such acquisitions made in 1929 were the Saskatoon, Humboldt, and Rosthern plants, while the plant at Shellbrook, the Wynyard-Elfros-Wadena and the Leader-Prelate-Sceptre systems, served from plants at Wynyard and Leader, were established by the Commission in the same year. In 1930 the municipal plants at North Battleford, Swift Current, Unity, Maple Creek and Lanigan were acquired, and in 1931 the generating plant at Willow Bunch was added. The Watrous-Nokomis system, including ten towns and villages, was also purchased from Canadian Utilities Ltd., and has been connected with the Bulyea system of the Montreal Engineering Co., Ltd.

Transmission lines run from Saskatoon, as the centre of the main system, easterly to Humboldt, northerly to Shellbrook and Duck Lake, westerly to Radisson, and southwesterly to Rosetown. Additional lines link Rosetown with Moose Jaw and Tisdale, where the Commission has a generating plant, with Nipawin. The systems built in 1929 have been extended. All transmission lines supply towns and villages along their courses. There are now 1,322 miles of transmission lines owned and operated.

The Commission purchases several blocks of power or contracts for the interchange of power from private interests in addition to supplying energy generated at its own plants. The number of consumers served directly in 117 towns and villages is approximately 7,850 and those indirectly served (where the cities operate the distribution systems) number 16,124. The total plant investment as at Dec. 31, 1931, was approximately \$7,260,000.

British Columbia.—British Columbia as a province has not, up to the present time, established any commissions for the development and use of water power for the distribution of electrical energy. Such power developments as have been undertaken to date have been by private interests or by municipalities. The Water Board, a quasi-judicial body, regulates the rates which are charged by public utility companies.

CHAPTER XIV.—MANUFACTURES.1

Manufacture is defined as the operation of making wares from raw materials by the hands, by tools or by machinery, thus adding, in the phraseology of the economist, new utilities, and therefore additional value, to the already existing utilities and values of the raw material. Manufacture, in primitive societies and in the pioneer stages of new communities, is normally carried on within the household for the needs of the household, as was the case among the early settlers of Canada in the seventeenth and eighteenth centuries, when domestic manufactures were carried on in combination with the cultivation of the soil, mainly at the times of the year when agricultural operations were suspended. At a later period in the evolution of society small manufactures were carried on in specialized workshops for the needs of the immediate locality or neighbourhood, as was generally the case in Eastern Canada in the first half of the nineteenth century. as a consequence of the introduction of machinery operated by steam or electric power—the so-called "industrial revolution"—and of the cheapening of transportation, manufacture has to an ever-increasing extent been concentrated in factories, often employing hundreds and even thousands of persons and producing for a national or even an international market. So far as Canada is concerned. this "industrial revolution" may be said to have commenced shortly before Confederation and to be still in progress. The growth of manufacturing production since 1870 is outlined in this article and the accompanying Table 1, while the increasing importance of Canadian manufacturing for the international market may be illustrated by the fact that Canadian exports of manufactured produce increased from less than \$3,000,000 per annum on the average of 1871-1875 to \$614,000,000 in the post-war fiscal year ended Mar. 31, 1920. Exports of "fully or chiefly manufactured" products in the fiscal year ended Mar. 31, 1931, amounted in value to \$352,108,830 and exports of "partly manufactured" products to \$142,452,920.

Section 1.—The Evolution of Canadian Manufacturing Industries.

Early Manufactures.—The type of manufactures established in a community will in the beginning be largely determined, more especially where transportation charges are high, by the raw materials available in that community. For example, probably the first agricultural process to be carried on by Europeans in what is now the Dominion of Canada was the raising of a crop of grain at Port Royal, Nova Scotia, in 1605; the first corresponding manufacturing process was the grinding of the grain in the autumn of that year. Other early manufactures were also necessarily connected with the satisfaction of the primary needs of human beings for food, clothing and shelter, and with the other primary need for protection. At a census of occupations taken in 1681, we find enumerated a comparatively large number of tailors and shoemakers, masons and carpenters, gunsmiths and edgetool makers.

The earlier manufactures were necessarily of a rather crude and primitive type, concerned with the production of commodities which were too bulky to bear the heavy transportation charges of those days, when only one round trip per year

Revised by A. Cohen, B. Com.. Acting Chief, Industrial Statistics Branch, Dominion Bureau of Statistics. This Branch publishes individual reports on the manufacturing industries, comprising vegetable products, textiles and miscellaneous industries, also reports on the manufacturing industries generally for Canada and the provinces. For a complete list of publications of this Branch see Chapter XXIX. Section 1, under "Production"

could be made between France and Quebec, and vessels were constantly subject to the storms of the North Atlantic and very frequently to the attacks of the English. Indeed, although the colonial policy of France under the old regime aimed at preventing the manufacture in Canada of any article which could be imported from the Mother Country, the uncertainties of transportation due to the colonial wars of the period-France and England were at war for 34 years out of the 74 years between 1689 and 1763-led to a necessary relaxation of restrictions. On the occasion of the English capture of a convoy in 1705, the colonists were driven to manufacture rough cloth out of whatever fibres they could obtain, such as the Canadian nettle and the inner bark of the basswood. Such events led to the introduction of sheep raising and the manufacturing of homespun woollens. The number of sheep in the colony increased from 1,820 in 1706, to 12,175 in 1720, 28,022 in 1765, 84,696 in 1784 and 829,122 in Lower Canada alone in 1827. This increase in sheep approximately measures the growth of the manufacture of homespun woollens. In the same year, according to census records, there were in Lower Canada 13,243 spinning-wheels, while 1,153,673 French ells of home-made cloth, 808,240 French ells of home-made flannel and 1,058,696 French ells of home-made linen were produced. In 1842 Upper Canada produced 433,527 yards of home-made cloth, 166,881 yards of homemade linen and 727,286 yards of home-made flannel and, in 1848, 624,971 yards of fulled cloth, 71,715 yards of linen and 1,298,172 yards of flannel. Nova Scotia in 1851 produced 119,698 yards fulled cloth, 790,104 yards non-fulled cloth and 219,352 yards flannel. Such production of homespun goods did not materially interfere with the market for the more elaborate factory-made goods imported from the United Kingdom, but supplied the daughters of pioneer families with useful work in their own homes.

In the days when ships were built of wood Canada was advantageously situated with respect to their production. Pont-Gravé built two small vessels at Port Royal in 1606 and one at Tadoussac in 1608. Talon, in 1666, built on his private account a ship of 120 tons, and in 1672 a vessel of over 400 tons was on the stocks at Quebec. Ships were built for the French navy and for the West India trade. Under the British régime shipbuilding was conducted on a large scale in Quebec and New Brunswick, the industry reaching its climax of prosperity about 1865, when 105 Quebec-built ships with a tonnage of 59,333 were placed on the register. Thereafter iron and steel ships gradually supplanted the wooden vessels, but the forests of Canada have since provided the raw material for the pulp and paper and other important industries.

The manufacture of mineral products has been of comparatively recent date. Iron deposits in the St. Maurice region were worked as early as 1733 and furnaces set up there for smelting in 1737 were in fairly constant operation until 1883. The iron and steel used in manufacturing in Canada, as well as the coal which has supplied the manufacturing industries with power, has in the main been imported from the United States, chiefly because the principal manufacturing centres of this country in the St. Lawrence and Great Lakes region are fairly conveniently situated with regard to the coal and iron supplies of the United States and far away from the coal and iron supplies of the Maritime Provinces. In recent years the shortage of coal has been made up for by the increasing use of electric power, while the great bulk of the pig iron used in Canadian manufactures is now made in domestic blast furnaces.

The Introduction of the Factory System.—In Canada, as in the United States and in Great Britain, it was inevitable that manufactures, carried on in the household or in small adjoining workshops, should be supplanted in the leading

industries of the country by manufactures carried on in factories. A factory has been defined as "an establishment where several workmen are collected for the purpose of obtaining greater and cheaper conveniences for labour than they could procure individually at their homes, for producing results by their combined efforts which they could not accomplish separately and for preventing the loss occasioned by carrying articles from place to place during several processes necessary to complete their manufacture". Such factories began to exist in Canada in the 60's and the 70's of the last century and have now become the dominant type of Canadian manufacturing industry.

Encouragement of Manufactures by Protective Tariffs.—In all new and developing countries producing food products and raw materials in abundance, there comes, at a certain stage, a movement for working up these commodities within the country. Thus a movement to promote a rise of manufacturing industries in Canada took place in the 50's of the last century, and in 1858 the Canadian Legislature enacted a protective tariff against which English exporters of manufactured goods vehemently protested. Canada, however, claimed the right to raise her revenue in the manner which suited herself and Great Britain did not contest the point. From that day to this there has been an element of protection in Canadian tariff legislation. For a considerable time the protection afforded to Canadian manufacturers was described as "incidental protection", and after Confederation the tariff was reduced in deference to the low tariff sentiment prevailing in the Maritime Provinces, which were commercial rather than manufacturing communities. However, after a commercial depression which took place in the 1870's the people of Canada, at the general election of 1878, voted in favour of a higher tariff.

The policy of protection was definitely adopted in 1879, when the manufacturer was given an increase in the duty on his finished product, offset in some cases, it is true, by higher duties on his raw materials. Sugar and molasses products comprised some twelve tariff items, seven bearing a compound duty, the average ad valorem duty imposed being 26.25 p.c. On the lines of cotton goods likely to be manufactured in Canada duties were raised from 17½ p.c. to rates, specific and ad valorem equivalent, on the importations of 1891, to 30 p.c. The duties on woollens, which were all in the $17\frac{1}{2}$ p.c. schedule in 1878, were practically doubled. On some of the 36 iron and steel articles enumerated in the schedule the duties were specific, on some compound, but on the whole there was an average duty of 16.17 p.c. Pig iron, previously free, was made to pay \$2 a ton. The duty on iron billets, bars and rods was increased from 5 p.c. to 10 p.c. and 17½ p.c., while manufactured iron and steel products and machinery were given 25 p.c. to 35 p.c. protection. On coal, both bituminous and anthracite, a duty of 50 cents a ton was imposed. The average ad valorem rate of duty on dutiable imports in 1880 was 26.1 p.c. as compared with 21.4 p.c. in 1878. The maximum percentage was reached in 1889, when the rate was 31.9 p.c. By 1896 there was a slight drop in the rate to 30.0 p.c. and the declining trend continued until 1918 and 1919, when a rate of 21 · 5 p.c. was recorded. In 1923 the rate was 24.9 p.c., in 1927, 24.1 p.c., and in 1930, 24.3 p.c. average ad valorem rate of duty on all imports was 16.7 p.c. in 1923 and 15.9 p.c. in 1930. These rates are based on the gross sums collected; if the refunds and drawbacks were allowed for, the net rate of customs duty would be substantially lower.

Growth of Canadian Manufactures Prior to the War.—Until the later '90's, the growth of Canadian manufacturing industries was not particularly rapid, though the great fall in the prices of commodities during the period from 1873 to

1897 was largely responsible for the comparatively slow growth of the values of manufactured commodities from \$221,600,000 in 1870 to \$469,800,000 in 1890. Afterwards there was a change and the prices of commodities commenced to rise, while the industries generally shared in the advantages of the great growing period from 1900 to 1912. The gross product of establishments with five hands or over increased from \$368,700,000 in 1890 to \$1,166,000,000 in 1910 and to \$1,381,500,000 in 1915. The fundamental advantages of the position of Canada, her abundant raw material, her inexhaustible water power, her growing home market in the expanding West, had contributed to this result.

In the present, as in the past, Canadian manufacturing production has been chiefly dependent upon the use of Canadian raw material, though this is less true than formerly. Raw cotton, for example, is imported from the Southern States, hides from Argentina, rubber from the Straits Settlements and Malay peninsula, sugar from Fiji and the British West Indies, and wool from England, Australia and New Zealand to supply the raw material for Canadian manufacturing industries.

The Influence of the War.—The influence of the War upon the manufactures of Canada was profound and far-reaching, tending to promote the diversification of products and the production at home of many commodities which had previously been imported. On account of the practical suspension of the importation of manufactured goods of many kinds from Europe, enterprising Canadian manufacturers were given opportunities of entering upon new lines of manufacture with practical control of the market. There was added to this the reflex effect of the great prosperity of agriculture, produced by the unprecedented prices of war time, with the general result that industry worked at high pressure, not only to produce munitions and military supplies for the armies of the Allies, but also to make the manifold varieties of goods required for the stimulated civilian consumption. world shortage of staple commodities, coupled with a strong domestic demand, gave Canadian industries in general a pronounced stimulus toward greater production and, in a great number of cases, the capacity of manufacturing plants was increased; this increase created a demand for greater supplies of raw material. Incidentally, factory methods became more specialized and a high degree of administrative and mechanical efficiency was attained, and Canada, partly owing to the absorption of the energies of Europe in the War, assumed a new position as one of the leading manufacturing countries of the world. The inflation of the war period also led to unprecedented figures of values produced.

The great boom in Canadian manufactures described above reached its height in the summer of 1920, statistics for that year showing a gross value of products which was not exceeded until 1929. Even the net value of manufactured products in 1920 was not exceeded until 1928. Statistics for 1921, as published in Table 1, show a great decline in values from those of 1920, which does not mean a corresponding decline in quantity of production, though a certain decline undoubtedly took place. There was also some decline in 1922 followed, however, by a general improvement during 1923. Final statistics for 1924 were a little below those of 1923. The statistics for 1925, 1926, 1927, 1928 and 1929 show a steady and notable growth in both gross and net values of products. These values in 1929 reached a higher point than in the post-war boom of 1920, although the prices of manufactured goods had dropped about 41 p.c. in the intervening period. This steady expansion was halted during 1930, owing to the world-wide recession in business which set in toward the end of 1929, with the result that Canadian manufacturing production in

1930 dropped back to near the 1927 level in gross value of production. The 1931 figures show a smaller gross production than in any year since the inclusion of the non-ferrous smelting industry in 1925.

Subsection 1.—Growth of Manufacturing Production in the Dominion and the Provinces Since 1870.

The growth of large-scale production in manufactures during the past half-century is evident from the statistics of Table 1, though this tendency has been less marked in Canada than in more highly developed industrial communities, with larger populations able to absorb a larger amount of standardized commodities. Even so, in the electoral district of South Toronto, the most important manufacturing centre of Ontario, the census of 1911 showed that one-half of the industrial establishments employed 90 p.c. of the workers. In the period immediately preceding the Great War many consolidations of independent manufacturing plants were effected, with large economies in the purchase of materials and in selling expenses, and this process has been even more evident in the post-war period.

The historical Table I shows fairly well the advance of the "Industrial Revolution" (which might better be called "evolution") in Canada. The average capital per manufacturing establishment, the average number of employees per establishment and the average value of product per establishment, if allowance be made for the inflation of values and generally disturbed conditions of the war period, have continued to increase. If the consolidation of industry lessens the chances of an employee becoming an employer, it must be remembered that the amounts paid to employees in salaries and wages have also increased, so that the position of the average employee has been greatly ameliorated, though the lack of statistics of Canadian retail prices before 1890 prevents any detailed comparison of the purchasing power of the average wages of the worker of 1870 and of the employee of the present time.

The Censuses of Manufactures.—The comparability of the statistics of various censuses is seriously affected by the different methods employed in censustaking. In the censuses of 1870, 1880 and 1890, all manufacturing establishments were included, the instructions to enumerators running as follows: "An industrial establishment is a place where one or several persons are employed in manufacturing, altering, making up or changing from one shape into another materials for sale, use or consumption, quite irrespectively of the amount of capital employed or of the products turned out. All repairs, mending or custom work are understood to be industrial products and are to be entered accordingly, by value, in the returns of industrial establishments"

In the statistics of 1900, 1905 and 1910, however, only establishments employing five hands and upwards were included. The 1901 instructions were that no manufacturing establishment or factory was to be recognized for census purposes if it did not employ at least five persons, either in the establishment itself or as pieceworkers employed outside of it. This, however, did not apply to cheese and butter factories nor to certain mineral industries. The 1911 instructions stated that every factory in operation during the whole or part of 1910, and employing five or more persons, was to make a full report. All flour mills, saw and shingle-mills, limitalins, brick and tile works, butter and cheese factories, fish-curing plants, electric light and power plants whatsoever were nevertheless to be included. The statistics

for 1915 included only establishments having an output of \$2,500 or over, irrespective of the number of persons employed, except in the case of flour and grist mills, butter and cheese factories, fish-preserving factories, sawmills, brick and tile yards, lime kilns and electric light plants, where all plants were included.

Censuses of Manufactures in Recent Years.—Under the Statistics Act of 1918, the policy of including mines, fisheries, manufactures and other industries in the decennial census was given up and an annual "Census of Industry" substituted therefor. (See Annual Report of the Dominion Statistician, 1919, pp. 30-36.)

In the Census of Industry for 1917 the limit of output was withdrawn and all establishments reporting to the Bureau were included, the effect being an increase in the number of establishments included from 21,306 in 1915 to 34,3921 in 1917 an increase due mainly to change of method, rather than to a change in the actual number of industrial establishments existing in the Dominion. The statistics in regard to a large number of the custom and repair industries were not collected for 1922, resulting in the dropping from the compilation of the entire group of "construction, hand trades and repairs". For 1923, again, statistics of ship- and bridge-building and of various clay products industries were collected and included for the first time. The result was that, in order to restore the desired comparability between statistics of various years, a complete revision of all figures from 1917 to 1924 had to be made. Considerable changes have resulted, but statistics of these years are now free of all inaccuracies due to changes in methods of collection or compilation. In 1925 statistics of the non-ferrous metal smelting industry were, for the first time, included in the figures for manufacturing. Certain duplications in the revenues of central electric stations have not been uniformly treated, but net revenues only are now shown for 1926 and later years. The method of compiling the number of employees was changed for 1925 and subsequent years in the following respect: the yearly average of employees for each establishment was computed by dividing the sum of employees reported in each month by the number of months in operation instead of, as formerly, by 12 whether the industry was seasonal and only operated part of the year or not. These changes have created a slight incomparability with the statistics for the preceding years.

In any comparison between the results of the 1915 quinquennial census and the subsequent annual censuses, the rapid rise and fall in prices must be borne in mind, and in comparisons between these annual censuses themselves the same factor must be taken into account. Thus, the new Canadian weighted index number of wholesale prices, compiled by the Dominion Bureau of Statistics with 1926 as a base, was 155.9 in 1920 as compared with 134.0 in 1919, 127.4 in 1918, 114.3 in 1917 and 70.4 in 1915. In 1921, however, there was a great decline to 110.0—a decline of approximately 29.4 p.c. from the preceding year. In such circumstances, it was inevitable that up to 1920 phenomenal advances in the money value of manufactured products should have been recorded; and that wages and salaries paid should also have greatly advanced since 1915. It was equally inevitable that in all these respects 1921 should show a great decline, due in much larger measure to the fall in values than to the decrease in the volume of production. In 1922 the index number showed a further drop to 97.3, but afterwards there was a rise to 98.0 in

¹The subsequent decision to omit the group of "construction, hand trades and repairs" from the Census of Manulactures, together with other less important changes, accounts for the reduction of the number of manulacturing establishments in 1917, as appearing in Table 1, to 22,838, a comparable figure with the 23,597 establishments recorded in 1929, the 24,020 in 1930 and the 24,501 in 1931.

1923, to 99.4 in 1924 and 102.6 in 1925. In 1926, 1927, 1928, 1929 and 1930, however, there was a declining trend again to 100.0, 97.7, 96.4, 95.6 and 86.6, respectively, this last being the lowest figure since 1916. This would indicate that the comparatively small decline in the gross production of manufactured goods in 1922 was entirely due to declining values. Gross production in 1926, 1927, 1928 and 1929 showed large increases in spite of a definite decline in price levels, while the sharp decline in prices during 1930 was also accompanied by some diminution in the volume of manufacturing as well. (See Table 5.)

In Table 1 summary statistics for the Dominion only are presented for the years 1870 to 1931, while Tables 2 and 3 give statistics by provinces and industrial groups for the years 1920, 1922 and 1925 to 1931 inclusive.

1.—Historical St	lmma r y	of Statistic	s of Ma	nufacture	s for the D	ominion,	1870-1931.
Year,	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials. ¹	Net Value of Products.	Gross Value of Products.
	No.	\$	No.	\$	\$	\$	\$
	(All estal	blishments irre	spective	of the numbe	r of employe	es.)	
1870	41,259 49,722 75,964	77,964,020 165,302,623 353,213,000	254,935	40,851,009 59,429,002 100,415,350	124,907,846 179,918,593 250,759,292	96,709,927 129,757,475 219,088,594	309,676,068
		(Establishmer	ntswith f	ive hands and	l over.)		
1890	14,065 14,650 19,218 15,593	446,916,487 1,247,583,609 1,958,705,230	272,033 339,178 515,203	113,249,350	266,527,858 601,509,018 791,943,433	564,466,621	368,696,723 481,053,375 1,165,975,639 1,381,547,225
	(All estat	olishments irre	spective o	of the number	of employee	s.)	
1917	22,642 22,178 22,331 22,708 22,936 23,379 23,597	2,696,154,030 2,926,815,424 3,096,025,799 3,371,940,653 3,190,026,368 3,244,302,410 3,380,322,950 3,538,813,460 3,898,509,981 4,337,631,558 4,780,296,04 5,083,014,754 5,203,316,760	618,305 611,008 609,586 456,076 474,430 525,267 508,503 544,225 581,539 618,933 658,023 654,434 644,439	582, 457, 488 618, 463, 139 732, 120, 585 518, 785, 137 510, 431, 312 571, 470, 028 559, 884, 045 596, 015, 171 653, 850, 933 693, 932, 228 755, 199, 372 813, 049, 847 736, 092, 766	1,541,087,416 1,829,040,369 1,780,629,840 2,085,271,649 1,366,893,685 1,283,774,723 1,470,140,189 1,587,665,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,728,624,408 1,	1,460,723,777 1,509,870,745 1,686,978,408 1,209,143,344 1,198,434,407 1,311,025,375 1,256,643,901 1,360,879,907 1,492,645,039 1,635,923,936 1,819,046,025 1,997,350,365 1,997,350,365 1,761,986,726	3,289,764,140 3,290,500,585 3,772,250,057 2,576,037,029 2,482,209,130 2,781,165,514 2,695,053,582 2,948,545,315 3,221,269,231 3,394,713,270 3,738,484,724 4,029,371,340

'Certain duplications in the gross revenue of central electric stations were eliminated in a net figure and the difference shown as a "cost of material" for the years 1928-29, but net revenues only are now included for both gross and net values for those years. Therefore the figures here given differ slightly from those formerly published.

2.—Summary of Statistics of Manufactures, by Provinces, 1920, 1922 and 1925-1931.

Note.—See note to Table 3 p. 408. Statistics for certain years from 1917 to 1924 omitted here are given on pp. 407-9 of the 1931 Year Book.

				·		:_	
Province.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1920.	No.	*	No.	\$:	\$	\$
P. E. Island Nova Scotia	384 1,388	2,734,719	1,327 23,834 19,241 186,308 300,794	888 121	4,164,223 85,724,785	1,686,978,408 2,221,746 63,274,708	6,385,969 148 999 493
New Brunswick	928 7,677	105,671,688	19.241	19,505,048	60,812,641 653,558,520 1,071,843,374	46,910,631	107,723,272 1,071,251,645 1,894,414,157
Quebec Ontario		1 668 079 488	300.794	369 846 193	1 071 843 374	822 570 783	1 904 414 157
Manitoba	773	112,896,616 31,727,162	1 64.001I	83.307.872	92.729.271	65,492,637	158,221,908 59,549,634
Saskatchewan	639	31,727,162	7,182	10,249,392	34,894,105	24,655,529	59,549,634
Alberta B,C, and Yukon	722 1,367	61,063,132 219,991,887	11,387 35,132	15,903.609 50,413,414	56,139,646 125,405,084	32,466,428 111,692,821	88,606,074 237,097,905
1922.	1,001	214,081,004	39,132	20,310,313	120,400,009	111,082,041	201,091,900
	22,541	3,244,203,410	474,430	510.431.312	1,283,774,723	1,198,434,497 1,787,569 29,985,794	2.482.249.130
Canada P. E. Island	352	2,946,329	1,127	628,540	2,621,443	1,787,569	4,409,012
Nova Scotia	1,163	106,647,616	14.286	12,192,652	38,003,168	29,985,794	67,988,962
New Brunswick Quebec	7,410	970,019,442	14.351	12,201,014 144,368,667	38,059,376 337,752,977	26,821,281 370,276,067	64,880,657 708,029,044
Ontario,	9,388	1,696,738,996	147,952 243,297	275,559,006	678,746,675	617.752.828	1.296.499.503
Manitoba	781	88,779,517	14.188	18,274,012	54,630,668	41.326.416	95,957,084
Saskatchewan	614		4,196 7,461	5.618,174	22.450.051	16.357.481	38,807,532
Alberta B.C. and Yukon	672 1,264	55,514,624 210,323,879	97 579	9,493,543 , 32,095,704	30,306,395 81,203,970	22,813,091 71,313,880	53,119,486 152,517,850
	1,,,,,,,,,	210,020,018	21,012	, 02,000,101	01,200,370	11,312,000	102,011,000
1925.				*** *** ***			
P. E. Islaud	27,331 318	3,968,369,981 2,576,677	544,225 2,317 16,568	596, 015, 171 679 120	2,805,665	1,360,879,907	2,948,545,815 4,290,149
Nova Scotia	1,184	117,326,491	16.568	572,130 12,082,693	37,854,196		45 022 701
New Brunswick	I 861						73,374,660
Quebec	6,995	1,136,033,133	168,245	169,686,055	412,460,003	408,103,754	820,563,757
Ontario	9,386 769	1,136,033,133 1,925,593,482 120,362,238 31,607,896 69,805,848	262,483 20,023	19,430,232 169,686,055 307,304,007 25,286,173 5,755,639 11,785,604	412,460,003 828,939,668 71,683,113 24,353,581 45,855,910	698,214,992 80,460,650	73,374,660 820,563,757 1,527,154,660 124,145,763 40,093,273
Saskatchewan	650	31,607,896	4,402	5.755.629	24.353.581	15,739,692	40.093.273
Alberta B.C. and Yukon	734	69,805,848	4,402 9,364	11,785,604	45,855,910	29,201,001	40,110,017
B.C. and Yukon	1,434	313,494,283	43,548	49,112,628	118,826,980	99,948,855	218,775,835
1926.							
P. E. Island Nova Scotia	22,766	3,981,569,594	581,539 2,261 10,782 17,674	653,859,933	1,728,624,192	1,492,645,039	3,221,269,231
Nova Sectio	299 1,163	2,850,010	2,201	090,403	2,637,960	22 810 503	4,069,051 72,956,768
New Brunswick	1 910	95, 661, 154	17.674	14,609,734	2,637,960 39,137,265 44,074,961	1,431,091 33,819,503 29,586,833	73.661.794
Quebec	7,164	2,850,010 118,050,902 95,661,154 1,216,975,958 1,985,165,921	180,669	109.020.140	442,927,613	I 430.710.811I	899.644.124
Ontario	9,457 797	1,985,165,921	280,353	335, 164, 239 26, 973, 850	908,044,673	753,334,653	
Manitoba Saskatchewan		127,445,924 33 043 060	21,201	6 397 545	75,000,529 29,128,035	17 965 397	132,129,988 47,093,432 83,059,494 247,275,254
Alberta	749	33,943,060 72,468,286 329,008,375	4,904 10,233	12,808,554	49,826,532	33,232,962	83,059,494
AlbertaB.C. and Yukon	1,495	329,008,375	47,462	6,397,545 12,808,554 54,865,756	137,846,624	57,129,459 17,965,397 33,232,962 109,428,630	247,275,254
1927.							
Canada	22.936	4,337,631,558	618,933	693,932,228	1.758,789,234	1,635,823,936	2,394,713,270
P. E. Island Nova Scotia	291	1 3.081.504	1 2.232	687,849	2 854 943	1,638,190	4,493,133 73,897,466 72,240,056 982,566,547 1,738,981,146
Nova Scotia	1,190	l 128.155.040	17,864	13,610,944	41,498,489	32,398,977	73,897,466
New Brunswick Quebec	872 7,206	99,087,327	106,970	14,999,101 203,724,997 355,174,773	41,498,489 42,353,973 466,344,948 920,849,136	29,886,080 516 221 599	982 566 547
Ontario	1 9.512	1,376,654,019 2,134,181,377 151,373,047	196,094 296,034	355, 174, 773	920, 849, 136	818, 132, 010	1,738,981,146
Manitoba	859	151,373,047	23,031	28.934.926	15,802,212	02,3/6,912	
Saakatchewan	721	1 88.857.248	D.0531	7,280,945 13,511,359	32,147,303 50,209,720	20,015,654 34,376,296	52,162,957 84,586,016
Alberta B.C. and Yukon	776 1,509	81,664,730 325,047,266	47,740	56,007,334		0120,676,215	244,344,825
1928.	1,505	025,021,200	24,130	80,001,001	120,000,01	0120,010,010	211,011,000
		4 Non 200 C		MAN 477 WE-		4 044 445 405	4 mag 40 400
P. E. Island Nova Scotia New Brunswick	23,379 277	4,780,296,049	9 035	712 045	2 746 211	1,819,046,025 1,697,868 40,780,167 27,663,181	4 444 670
Nova Scotia	1,167		2,035 19,222	15.838.394	43.515.481	40,780,167	84,295,648
New Brunswick	794	114,660,886	17,963	14,682,510	39,261,547	27,663,181	66,924,728
	7,231	1,583,350,884	204.959	217,887,481	503,721,164	562,581,419	1,066,302,583 1,930,157,561
Ontario	9,900	2,275,921,056	204, 959 320, 729 25, 166	39 460 999	39,261,547 503,721,164 1,014,934,682 87,347,748	71 150 401	1,930,157,561
Saskatchewan	737	114,660,886 1,583,350,884 2,275,921,056 159,721,124 44,622,135	6, 173	8,003,577	34.100,4907	24,938,549	59,105,039
Alberta B.C. and Yukon	778	92,190,476	12,827	15.403.292	58, 782, 9511	41,345,704	59,105,039 100,128,685
B.C. and Yukon	1,624	367,898,589	48,949	58,726,003	134,961,834	133,665,857	268, 627, 691

2.—Summary of Statistics of Manufactures, by Provinces, 1320, 1922 and 1925-1931—concluded.

Province.	Estab- lish- ments.	Capital.	Em- ployees	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1929.	No.	\$	No.	\$	\$	\$	\$
Canada P. E. Island Nova Scotis New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta B.C. and Yukon	23,597 276 1,195 860 7,156 9,910 923 761 817 1,699	3,489,934 135,662,325 117,965,970 1,673,011,042 2,418,340,450 173,152,948 58,877,124 107,648,028	2,133 20,966 18,517 213,467 339,859 26,318 8,047 13,748	781,448 17,925,190 15,712,322 233,803,672	39,845,223 537,828,611 1,057,407,249 88,055,264 51,143,205	1,773,894 42,786,293 80,980,431 617,372,403 1,022,984,190 75,750,746 29,292,332	4,638,277 93,567,348 70,825,654 1,155,201,014 2,080,391,439 163,806,010 80,435,537
1930. Canada P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta B. C. and Yukon	24,020 267 1,302 924 7,410 9,888 937 750 845 1,697	188,413,164 65,486,140 109,930,271	2,055 21,069 18,422 204,802 307,477 26,488 7,248 14,099	788, 106 17, 537, 690 14, 988, 441 216, 835, 675 370, 781, 452 33, 941, 235 9, 229, 593 17, 092, 033	44,506,178 33,897,264 462,244,278 836,666,780 74,761,265 35,608,157 53,621,884	1,708,189 41,296,743 29,570,998 560,036,409 876,358,542 67,663,725 26,668,609 40,692,898	4,254,966 85,802,921 63,468,262 1,022,280,687 1,713,025,322 142,424,990 62,276,766 94,314,782
1931. Canada P. E. Island Nova Scotia New Brunswick. Quebec. Ontario Manitoba Saskatchewan Alberta. British Columbia and Yukon	290 1,449 872 7,505 10,140 955 768 886	4,019,288 129,824,727 128,859,472 1,662,811,076 2,285,361,451 191,935,311 68,547,866 107,427,603	1,170 16,175 13,107 180,808 269,739 24,193 6,061 11,798	809, 122 14, 881, 673 12, 706, 897 187, 362, 564 313, 676, 300 30, 706, 209 7, 546, 703 14, 213, 753	2,849,367 33,288,250 25,631,856 369,044,132 597,879,792 55,149,392 22,540,618 36,090,169	1,787,209 37,391,253 29,577,962 480,110,221 714,521,036 63,391,473 21,724,533 32,277,242	70,679,503 55,209,818 849,154,353 1,312,400,828 118,540,865 44,265,151 68,367,411

Summary of Statistics of Manufactures, by Industrial Groups, 1920, 1922 and 1925-1931.

Note.—Figures for the Chemical Group published in this table do not correspond with those published in the Annual Report on Chemicals and Allied Products for the following reason. In the report on Chemicals and Allied Products the figures for 1920 to 1928 have been revised and are directly comparable with those given for 1929 and 1930. Frior to 1929 the industry totals included the value placed on intermediate materials and products which were made and used in further processes in the producing works. In 1929 this policy was altered to exclude these intermediates and the figures have been revised on this new basis. Statistics of the non-ferrous metal smelting industries were included in manufactures for the first time in 1926. See footnote to Table 1 p. 406. Statistics for certain years from 1917 to 1924 omitted here are given on pp. 410-12 of the 1931 Year Book.

Industrial Group.	Estab- lish ments.	Capital.	Em- ployees.	Sataries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1920.	No.	\$	No.	\$	\$	\$,	\$
Totals	23,351	3,371,940,653	609.586	732, 120, 585	2,085,271,649	1,686,978,408	3,772,254,057
Vegetable products	4,219	394, 123, 233		75,695,530	532,484,195		
Animal products	4,823	221,792,457	48.687	54.291.606	400,496,354		
Textile products	1,304	302,758,185		84,433,609			
Wood and paper	7.867	772,086,812	143,731	171,610,460	308,282,232	415,784,276	724,066,508
Iron and its pro-							
ducts	1,690			205,414,599			715,115,763
Non-ferrous metals	324	109,382,033	23, 162	27,895,343	48,434,120	52,847,178	101,281,298
Non-metallic min-	l			·			i
erals	1,176	223,541,735	27,361	34,406,423	74,200,407	85,216,316	159,416,723
Chemicals and	l '				ļ		
allied products	464	122,123,730	17,653	22,193,421	62,644,608	65,183,212	127,827,820
Miscellaneous in-						h	
dustries	665	134,954,504	31,985	41,552,885	52,853,767	75,715,577	128,569,344
Central electric sta-							
tions	819	448,273,642	10,693	14,626,709	-	65,705,060	65,705,060

3.—Summary of Statistics of Manufactures, by Industrial Groups, 1920, 1922 and 1925-1931—continued.

Industrial Group.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1922.	No.	\$	No.	\$	\$	s	\$
			l				
Totals	22,541	3,244,302,410 371,361,682	474,430 63,217 49,595	84 494 099	1,758,774,778	1,198,434,497 206,946,749	2,482,209,130
Vegetable products. Animal products	4,355 5,118	201,829,414	40 505	64,424,922 49,933,679	380,088,082 984,078,621	206,946,749 107,473,382	537,535,801 371,552,013
Textile products	1,709	268,065,238	88,048	76,224,361	264,078,631 153,066,593	155,493,510	308,560,103
Wood and paper	6,983	761,188,396	118, 462	132,084,914	206,682,820	283,131,962	489,814,782
Iron and its pro-		***,***,***				' '	100,011,100
ducts	1,040	526,109,953	74,588	90,605,157	168,282,265	163.302,638	331,584,903
Non-ferrous metals.	325	102,208,275	18,222	21,451,629	30,861,895	39,993,798	70,855,693
Non-metallic min-		A00 401 401	00.400	GF 904 449	AD 057 AAA	77 011 150	
erals	1,095	238,691,461	22,468	27,204,642	63,377,262	77,911,159	141,288,421
allied products	469	118,025,483	14,082	16,770,503	47,039,926	48,904,259	95,944,185
Miscellaneous in-	100	220,020,100	11,000	20,770,000	10,000,020	10,207,200	10.011,100
dustries	542	88,753,756	15,064	17,236,255	19,798,279	32,948,084	52,744,363
Central electric sta-		*** *** ***	40.00				
tions	905	568,068,752	10,684	14,495,250	-	82,328,866	82,328,866
1005							
1925.							
Totals	22,331	3,808,309,981	544,225	596,015,171	1,587,665,408	1,360,979,507	2,948,545,315
Vegetable products.	4,558	439, 490, 764	72,035	72,796,657	404,684,887	227,526,377	632,211,264
Animal products Textile products	4,892 1,640	210,015,488	63,675 94,531	55,285,458	315,914,684 193,238,560	115,863,479 143,950,124	431,778,163
Wood and paper	6,652	305,776,409 907,204,530	127,859	81,573,988 148,457,748	246,551,591	310,642,862	337,188,684 557,194,453
Iron and its pro-		201,201,000					
ducts	1,075	567,912,477	90,125	117,642,470	206,337,132	205,041,508	411,378,640
Non-ferrous metals	378	181,600,227	27,735	35,718,903	74,068,260	85,701,766	159,770,026
Non-metallic min-	1 701	990 899 BOK	24,468	29,892,659	65,278,752	78,969,840	144.248.592
erals Chemicals and	1,191	239,823,825	21,400	29,092,098	00,210,702	10,508,010	144,240,332
allied products	510	126,483,348	13,951	17,469,157	56,299,219	56,607,527	112,906,746
Miscellaneous in-							
dustries	428	103,281,876	16,583	18,427,224	25,292,323	33,988,542	59,280,865
Central electric sta- tions	1.007	726,721,087	13,263	18,755,907	_ :	102,587,882	102,587,882
***************************************	1,00,	120,122,001	1 .0,200	10,100,001		102,001,002	102,507,502
1926.							
Totals	22,768	3,981,569,590	581 534	652,850,933	1,728,624,192	1,492,645,039	3,221,269,231
Vegetable products	4,529	449, 259, 094	73,908	75.349.586	414.316.414	244.004.302	658,320,716
Animal products	4.896	223,938,559	67,843	75,349,586 60,203,986 88,596,752	414,316,414 329,114,267	244,004,302 122,920,658	452,034,925
Textile products	1,698	223,938,559 317,275,429	581,539 73,908 67,843 100,572	88,596,752	202,832,383	163,502,261	366,334,644
wood and paper	6,751	929,589,278	134,187	160,916,729	261,001,976	339,062,685	800,064,661
Iron and its pro- ducts	1,142	597,982,098	103,510	137,640,065	258,020,373	247, 168, 476	505, 188, 849
Non-terrous metals.	403	202,503,426	30,095	39,201,147	90,613,004	92,888,719	183,501,723
Non-metallic min-						!	
erals Chemicals and	1,240	261,724,184	26,045	31,986,949	82,293,319	91,863,604	174,156,923
allied products	556	133,407,891	14,345	18,309,377	60,124,582	62,464,944	122,589,526
Miscellaneous in-	000	100, 101,001	*1,010	10,000,011	40,123,002	05,101,011	,-4-,
_dustries	436	109,669,565	17,628	21,703,342	30,307,874	39,835,657	70,143,531
Central electric sta- tions	1,057	756, 220, 066	13,406	19,943,000		88,933,733	88,933,733
610110	1,007	100,220,000	13,200	10,010,000		00,000,100	001,000,100
1927.			·				
Tetals			A40 849	### ### ###	1 750 700 441	1 002 000 000	3,394,713,270
Vegetable products.	22,936 4,793	4,337,631,558 494,176,054	618,933 78,300	693,932,228 81,830,734	429,825,105	1,635,923,936 283 374 975	712.700.080
Animal products	4,692	233,113,872	68.381	61,407,018	325,455,482	132, 260, 556	457,716,088
Textile products	1,802	346,512,165	68,381 107,519	61,407,018 95,891,243 167,995,734	325,455,482 198,870,157 271,780,232	183, 137, 300	712,700,080 457,716,088 382,007,457
Wood and paper	6,811	346,512,165 1,023,301,749	150,550	167,995,734	271,780,232	283,374,975 132,260,556 183,137,300 357,786,924	629,567,156
Iron and its pro-	1 4/0	C20 A14 002	108 009	149 951 174	061 100 670		525,921,839
ducts Non-ferrous metals.	1,148 401	638,914,893 208,957,166	106,293 33,448	143,351,174 44,154,695	261,102,679 87,612,666	264,819,160 112,757,295	200,369,961
Non-metallic min-	401	200,901,100	(40, 110	41,101,000	47,012,000	112,101,200	200,000,001
erals	1,184	280,033,057	26,662	33,958,541	86,312,529	89,433,536	175,746,065
Chemicals and al-			i	· ·		69 041 061	197 404 670
lied products Miscellaneous in-	561	134,618,839	14,559	18,656,851	63,630,588	63,854,084	127,484,672
dustries	447	111,178,478	18,518	23,739,923	34,699,896	44,466,809	79,166,705
Central electric sta-		•					
tions	1,097	866,825,285	14,708	22,946,315	1	104,033,297	104,033,297

3.—Summary of Statistics of Manufactures, by Industrial Groups, 1920, 1922 and 1925-1931—concluded.

Industrial Group:	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
	No.	\$	No.	\$	\$	\$	
1928.							
Totals	23,379	4,780,296,049 531,918,725	658,023 83,764	755,199,372	1,919,438,703	1,819,046,025 317,073,457	3,738,484,728
Vegetable products.	4,845 4,542	243,550,121	83,704	88,119,342 61,950,631	439,922,128 351,324,498	133,697,496	756,995,585 485,021,994
Animal products Textile products	1,885	365,721,591	67,777 113,724	103,451,325	223,730,616	191.671.848	415,402,464
Wood and paper	7,290	1,158,651,534	158,005	179,244,698	293, 159, 913	389,389,952	682,549,865
Iron and its pro- ducts	1,159	702,931,186	119,199	168,320,038	309,618,074	300,014,925	609,632,999
Non-ferrous metals.	406	253,367,370		47,497,842	98,746,019	139,220,908	237,966,927
Non-metallic min-	1,178	298,693,122	28,650	37, 136, 451	93,683,873	112,398,268	206,082,141
erals Chemicals and	1,110	200,000,122	20,000	91,100,701	30,000,019	112,000,200	200,002,141
allied products	572	148,939,920	16,130	20, 290, 417	74,163,334	72,812,503	146,975,837
Miscellaneous in- dustries	453	119,602,877	19,351	25,101,208	35,090,248	50,439,849	85,530,097
Central electric sta-					1		
tions	1,049	956,919,603	15,855	24,087,420	-	112.326.819	112,326,819
1929.							
Totals	23,597 5,005	5,683,014,754	691,434	813,049,842 93,299,665	2,032,020,375 427,019,724	1,997,350,365	4,029,371,349
Vegetable products. Animal products	4,490	569,064,835 243,825,065	88,858 67,670	62,081,423	345,351,882	344,437,941 132,409,973	771,457,665 477,761,855
Textile products	1,891	383,153,797	115,620	105,896,237	220,304,250	205,943,337	426,247,587
Wood and paper Iron and its pro-	7,405	1,152,075,234	164,800	192, 235, 448	314,203,289	411,616,451	725,819,740
ducts	1,169	754,989,105 298,721,106	132,281	186,928,700			788,012,980
Non-ferrous metals.	408	298,721,106	39,867	54,501,806	124,900,632	158,645,034	283,545,666
Non-metallic min- erals	1,188	329,448,844	81,431	41,511,846	117,149,130	124,874,388	242,023,518
Chemicals and				i i	i		100 E4E 001
allied products Miscellaneous in-	554	165,886,912	16,694	22,639,449	55,184,337	83,360,884	138,545,221
dustries	468	130,118,324	21,049	29,123,447	42,982,071	60,091,591	103,073,662
Central electric sta- tions	1,024	1,055,731,532	16,164	24,831,821	-	122,888,446	122,883,446
1930.	-, 02.	1,000,101,40-	1				
Totals	24,020	5, 203, 316, 760	644,439	726,092,766	1.666.983.902	1,761,986,726	3,428,970,628
Vecetable products.	5.041	1 569.403.769	84,182 57,657	736,092,760 85,259,243	357,510,340	il 314 513 326	l 672.023.666
Animai products	4,341	233,334,972 368,567,643	57.657 109,576	55,564,398 97,903,096	285,328,411	132,212,467	417,540,878 361,814,733
Textile products Wood and paper	7,816	1,221,357,252	156,724		184,563,865 268,249,293	132,212,467 177,250,868 368,350,618	636,599,911
Iron and its pro-	·I		i				l
ducts Non-ferrous metals	1,196 429	757,797,256 325,605,549	119,987 38,756	165,429,608 52,319,027	281,713,862 111,738,411		
Non-metallic min-	·	1			1		
erals Chemicals and	1,234	336, 018, 922	29,868	39,241,16	107,206,674	109,606,153	216,812,827
allied products	591	168,119,152	15,503	21,041,789	48,165,038	71,804,599	119,969,637
Miscellaneous in- dustries	452	84,912,229	14,328	17,640,108	22,508,008	35,458,129	57,966,137
Central electric sta-	.1		1		1	1	l
tions	1,034	1,138,200,016	17,858	27,287,443	· -	126,038,145	126,038,145
1981.	1		İ				
Totals	24,501	4,961,312,400	557.426	624.545.56	1.223.880.011	1,474,581,851	2,698,461,862
Vegetable products	. 5,283	545,387,574	i 77,706	79,022,51	5 260,604,563	81 274.474.901	535,079,403
Animal products	.[4,430	217.441,414	51,297 105,473	51,270,503 92,504,08	3 2[4,743,500 2 153 191 37/	106,059,948 163,967,298	320,808,456 317,158,670
Textile products Wood and paper		1,053,064,43	121,672	140,349,10	3 153,191,370 3 192,379,910	291,858,015	484,237,930
Iron and its pro	-l		1				374,725,068
Non-ferrous metals	1,243 455	676,270,363 318,395,983	2 96,927 3 34,414			116,519,624	
Non-metallic min	4		1		1	1	
erals Chemicals and	. 1,272	328,873,78	24,895	32,219,28	2 78,945,760	1	·
allied products	621	163,863,07	2 15,207	20,867,94	40,756,554	64,745,855	105,501,905
Miscellaneous in- dustries	. 464	75,682,76	12,821	15, 133, 85	9 17,160,86	28,189,461	45,350,322
Central electric sta	·l		1	i		122,310,730	122,310,730
tions	1,011	1,229,988,95	1 17,014	20,300,90	<u> </u>	128,520,100	1 -22,01,100

4.—Summary Statistics of Manufactures, 1922 and 1924-30.

Item.	1922.	1924.	1925.1	1926.	1927.	1928.	1929.	1930.
EstablishmentsNo.	22,541	22,178	22,331	22,708	22,936	23,379	23,597	24,020
Capital	143,929	159, 563	170,538	175,338	4,337,631,658 189,119	204,469	215,409	218,624
Average capital per employee	6,838 8,143	6,959 8,186	6,999 8,162	6,486 7,967	7,008 8,131	7, 264 8, 434	7,318 8,505	8,074 9,434
Fotal employeesNo.	474, 430	508,503	544, 225	581,539		658,023		644,43
Average number of employees per establish-	21.1	22.9	24 - 4	25-A	27.0	28-2	29.4	26.
mentNo. Total salaries and wages\$	510,431,312	559,884,045	596, 015, 171	653,850,933	693,932,228	755, 199, 372	813,049,842	736,092,76
A verage ealaries and wages per establishment \$	22,645	25,245	26,690		30, 255	32,302		30,64
Average salaries and wages per employee \$ Employees on salaries	1,076 76,040	1,101 76,230	1,095 77,623	1,124 81,794	1, 121 85, 483	1,148 91,243		1,14 92,94
Average salaried employees per establishment No.	3.4	8.4	3.5	8-6	3.7	3-9	4.1	3.1
Salarice \$ Average salary \$	136, 219, 171 1, 791	139,614,639 1,831	143,056,516 1,843	152,705,944 1,867	162,348,978 1.899	174,770,879 1.915	188,747,672 1.954	184,239,11 1,98
Employees on wages	398,390	432,273	466,602		533,450			551,49
Average number of wage-earners per estab- lishment	17.7	19-5	20.9	22.0	23.3	24-3	25.3	23-1
Wagea\$	374, 212, 141	420, 269, 406	452,958,655	501,144,989	531,583,250	580, 428, 493	624,302,170	
Average wage	939 1,283,774,723	972 1,438,409,681	971 1,587,665,408	1,003	997 1,758,789,334	1,024	1,045 2,032,020,975	1,00 1,666,983,90
Average cost of materials per establishment \$	56.953	64,858	71,097	76, 124	76.682	82, 101	2,032,020,910 86,114	69.40
Average cost of materials per employee \$	2,709	2,927	2,917	2,972	2,842 1,635,923,936	2,917	2,926 1,997,350,365	2,58 1,761,986,72
Value added in manufacture	53,167	56,662	60,941	65,732	71,325	77,807	1,997,350,365	73.35
Average value added per employee	2,523	2,473	2,501	2,567	2,643	2,764	2,877	2.73
Gross value of product	2,482,209,130	2,695,053,582	2,948,545,315	8,221,269,231	3,394,713,270	3,738,484,728	4,029,371,340	3,428,970,628
	110,120	121,519	132,038	141,856		159,907	170,758	142,75
A verage gross value of product per employee. \$ Power employed ²	5,232 2,016,563	5,300 2,538,535		5,539 3,134,248		5,681 3,592,184	5,802 3,867,979	5,82 4,011,74
Average number of horse-power per establish-								
Ment ²	95	120	135	145	151	161	171	176
earner ² H.P.	5:14	5-97		6.37	6-27	6 · 45		
Piece workers	6,095 1,284,437	7,674 1,485,422		2,431 466,708	2,939 450,057	3,021 456,766	2,288 407,638	$\frac{2,27}{326,57}$

A change in the method of computing the number of employees in 1925 and later years increased the number somewhat over that which the method previously used would have given. There was therefore a proportionate reduction in the averages for 1925 and later years per employee and wage-earner, as compared to what these averages would have been under the former method.

The figures of power in this table represent the installation in manufactures exclusive of central electric stations, which are also excluded from the number of establishments and of employees in working out the averages. These figures are thus not comparable with those given on pp. 384-385 in the 1926 Year Book.

These are piece workers employed outside the establishments and are not included in general statistics of number of employees or of earnings.

Subsection 2.—Summary Statistics of Manufacturing Production.

Summary Statistics of Manufactures.—In Table 4 will be found an analysis of the most important statistics of manufactures for the eight years 1922 and 1924-30 here brought together in order that the tendencies in Canadian manufacturing industries may be traced as clearly as possible through this latest period of their development. Corresponding figures for the years from 1917 to 1922 were given at p. 384 of the 1926 Year Book, but the inflation of values in the war and immediate post-war periods makes the figures for these years largely incomparable. One very important figure, however, where the trend of development proceeds clearly and uninterruptedly throughout the 13 years, is concerned with the use of power. In the analysis here given the aim is to show the position of power as a factor in general manufacturing production. Therefore the power installation of central electric stations has been excluded. Unfortunately this was not done for the earlier years shown in the 1926 Year Book. When this change is made it will be found that the total horse-power employed increased from 1,664,578 in 1917 to 4,051,744 in 1930 or by 143 p.c. in 13 years. In the same period the horse-power used per establishment increased from 75 to 176 and the horse-power per wageearner from 3.04 to 7.49, indicating the rapidly increasing contribution of power to manufacturing production. The increases from \$143,929 to \$216,624 in average capital per establishment between 1922 and 1930, and from 21.1 to 26.8 in average number of employees are very significant figures.

Value of Products.—The gross value of manufactured products in 1930 was reported as \$3,428,970,628; the cost of materials was \$1,666,983,902, leaving \$1,761,986,726 as the value added by manufacture. As the finished products of one branch of manufacture are constantly used as materials in other branches in the ascending scale of modern industry, it follows that they are counted over and over again, swelling in this manner the total gross value of products. The total value of manufactured products, strictly defined, would include: (1) the value of all raw materials obtained from the extractive and primary production industries which have entered into the manufacturing output; and (2) the entire value added to these raw materials by manufacturing processes from the time they first entered any factory up to the close of the census year. This total value would be very much greater than the \$1,761,986,726 shown as having been added by manufacture, but not so great as the \$3,428,970,628 shown as the gross value of production. (The decline of \$600,000,000 in gross value of products in 1930 was mainly accounted for by a drop of almost \$365,000,000 in the cost of materials).

Volume of Manufacturing Production in Recent Years. LAn investigation of the greatest importance, especially in a period when values are rapidly

¹For a much more detailed and comprehensive treatment of this subject see the study "The Quantity of Manufacturing Production in Canada 1923-29" by A. Cohen, B. Com., Acting Chief of the Census of Manufactures, Dominion Bureau of Statistics.

changing (see p. 405 of this volume, also Chapter XX, Canada Year Book, 1932 dealing with prices), is that of the volume of manufacturing production as distinguished from its value. Since real income is ultimately measured in goods and services, the growth of the volume of manufactures therefore becomes a matter of great importance. The important thing to know is whether consumers are getting more goods and services, not whether they are expending more dollars and cents.

The ever-increasing use of factory products is one of the most significant features of modern life. Its beginnings are briefly sketched on pp. 400 to 406. The process has continued until at the present time fresh fruits and vegetables are about the only articles which reach the consumer without, in some way, being first processed at a factory. Fresh milk is pasteurized and bottled in a dairy plant, fresh fish and meats are dressed principally in packing plants, and the home preserving of fruits and vegetables is being superseded by more efficient processes in the canning factory. Thus even the foods we eat, as well as the clothing we wear, our household conveniences and our instruments of production and transportation, are increasingly products of factories. The growing volume of factory production, therefore, measures approximately the total flow of the economic goods upon which the rising standards of modern life so vitally depend.

The statistics of manufactures afford a variety of measures of the growth of factory production. The number of wage-earners, capital invested, value of production and value added by manufacture all show to some extent the direction and volume of growth. The value of production and that added by manufacture, being reported in dollars, are influenced by price changes as well as the quantity of goods produced and, as already explained, become misleading under the violent price changes of the past fifteen years. The capital invested is also affected by changing money values, while the relation between capital invested and value of goods produced varies greatly as between one industry and another. Neither is the number of wage-earners employed likely to be a representative measure of changes in the volume of production. The progressively increasing use of machinery and the rise in the power installed per wage-earner (see Table 4) tend to increase the employee's output. Thus while the reported wage-earners in 1930 had increased 27.6 p.c. over the number in 1924, the volume of production is estimated to have increased by 38 p.c. in the same period.

In the construction of an independent measure or index of the volume of manufacturing production many difficulties are encountered. There are constant changes in the commodities manufactured and in their relative proportions. New articles are introduced and rapidly come into common use, such as the radio during the past decade, giving rise to quite large new industries and frequently resulting in a decline of previously existing industries. It is difficult to construct an index which will accurately show changes in manufacturing effort resulting from these changes in production. A second difficulty arises from the fact that many establishments find it difficult to accurately report quantitatively their minor products or by-

products, and a few industries find the same difficulty in reporting their major products. In such cases the raw materials used or the wage-earners employed were considered in the construction of the index. A third important difficulty results from the fact that, even where there is continuity in the kind of commodities produced and where such commodities are reported quantitatively, there are changes which are not capable of statistical measurement in the quality of the commodities produced. For instance, the motor vehicle of to-day is a very different thing from that of ten or even five years ago. The improvement has entailed increases in plant equipment and workmanship and a generally greater manufacturing effort per unit produced. It is quite obvious that a true index of the volume of production should represent changes in quality as well as quantity. Since this is not possible, and since the trend of modern manufacturing is toward a more elaborate fabrication of materials with consequent improvement in quality and workmanship, it is essential to recognize that an index of volume is likely to understate rather than overstate the growth of manufacturing processes. In spite of these difficulties it is believed that the index in Table 5 on p. 416 is reasonably reliable for the broad groups of industries and may justifiably be used in making generalizations.

The central electric stations were excluded from general manufactures in making the index, since this industry is in a class by itself in the peculiar function of its product, and is also unique in the magnitude of its capital investment and the smallness of its labour force in proportion to its net production. The index is based on the quantities of manufactured products reported and includes 71·1 p.c. of the total value of the production in 1926, exclusive of central electric stations. It is weighted according to the values added in the manufactures of 1926. A complete description of the manner in which the index is constructed will be found in the publication referred to in the footnote on p. 412.

The physical volume of manufacturing production, exclusive of central electric stations, increased 50·2 p.c. from 1923 to 1929. When it is recalled that the population of Canada is estimated to have increased only 11·3 p.c. during the same period, the growth of manufacturing production is indeed remarkable. Of this advance, the part resulting from an increase in the domestic demand due to growth of population would be about 11·3 p.c. Exports of partly and fully manufactured goods increased from \$591,830,000 in the fiscal year ended Mar. 31, 1924, to \$690,904,000 in the fiscal year 1930, the increase in exports representing about 3·6 p.c. of the 1923 production. The remainder of the increase in production by 1929, or a margin equal to roughly 35 p.c. of the volume of manufactures of 1923, was therefore apparently absorbed by the rise in the standard of living of the population of Canada.

The index of the volume of production dropped from 150.2 in 1929 to 136.2 in 1930, a decrease of 9.3 p.c. This decrease is very significant when compared with the decreases in the net value of production and number of wage-earners employed

Owing to declines in the values of finished products (due, in a large degree, to the drastic declines in raw materials) and to the decrease in volume of production, the net value of production dropped from \$1,997,350,365 in 1929 to \$1,761,986,726 in 1930, a decrease of 11.8 p.c., while the number of wage-earners dropped from 597,827 to 551,496 a decrease of 7.8 p.c. It will be noted that the percentage decrease in volume of production between 1929 and 1930, viz. 9.3, was 1.5 greater than the percentage decrease in the number of wage-earners in the same period. This bears out the observations made in the special study on the volume of production that records of the number of wage-earners may be regarded as more likely to understate than to overstate the changes in the volume of production. previously (p. 412) the tendency is toward increasing production per wage-earner through greater efficiency and increased use of machinery and labour-saving devices. Also in times of depression, many establishments follow the practice of keeping the wage-earners on the pay-roll on a part time basis rather than laying some of them off and employing the rest on full time, while in periods of increased industrial activity the additional output required is secured through overtime work rather than an increase in the number of wage-earners. The net result is to confine fluctuations in the number of wage-earners within narrower limits than that of the physical volume of production. All things considered, however, the average number of wage-earners is materially influenced by the fluctuations in industrial activity.

As may be seen from Table 5 below, all groups in the component material classification reported declines in the volume of production. The iron and steel group led with a decrease of 30.9 points, miscellaneous industries, 20.7 points, chemicals, 16.8 points, non-metallic mineral products, 13.6 points, wood and paper products, 11.4 points, non-ferrous metal products, 10.6 points, textiles and textile products, 9.4 points, vegetable products, 8.7 points and animal products with 3.6 points, the smallest decrease.

In analysing the changes in the volume of production, on a purpose classification basis, some interesting facts are revealed. The food group reported an increase of 2.1 points in the volume of production, while the output of vehicles and vessels which is very largely made up of the automobile and rubber-tire industries recorded the greatest decrease of 35.2 points. This was followed by the personal utilities group with a drop of 20.5 points. The decrease here, however, is somewhat misleading. The production of the musical instruments industry which is included in the group, has been decreasing steadily during the past few years, the output of pianos, phonographs and phonograph records becoming smaller and smaller. main article of the musical instrument function, namely, the radio, is now produced in the electrical apparatus industry. This industry, however, is credited to the industrial equipment group, as by far the largest part of its output consists of industrial equipment. Producers' materials and industrial equipment declined 16.9 and 19.0 points respectively, due to general decreases in industrial activity. House furnishings dropped 15.0 points, drink and tobacco 12.7 points, and clothing 10.6 points.

5.—Indexes of the Volume of Manufacturing Production, According to Component Material and Purpose Classifications, 1923-39.

Стоир.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.
COMPONENT MATERIAL CLASSIFICA-								
TION-								
Vegetable products	100-0	109-2	120.8	127 - 7	137.5	151-1	155 - 3	146-
Animal products	100.0	107-1	113.0	122 - 9	120.0	123 8	117.2	113
Textiles and textile products	100∙0	96.6	103-4	117.8	126 - 5	135-3	133 - 8	124 -
Wood and paper products	100-0	98-1	106.0	119.9	129 · 1	142-0	152 9	141.
Iron and its products	100.0	80.5	95-1	121.7	125.2	138-1	157 - 8	$126 \cdot$
Non-ferrous metals	100∙0	108-5	122.8	137.2	158-3	176-1	190.3	179 -
Non-metallic minerals	100-0	95.8	98.3	112.5	122.5	138-9	163 - 1	149-
Chemicals and allied products	100.0	102.3	109.5	119-0	127.0	139-6	143.3	126
Miscellaneous industries	100-0	108-0	106-0	124.8	138 0	136-5	137-3	116-
Totals, All Industries	100.0	98-2	107-5	122 - 2	130 · 2	141 - 9	150-2	136
Purpose Classification—								
Food	100.0	107.3	114-0	118-1	115.5	122-4	121.4	123 -
Clothing	100.0	100-1	107-5	120.6	123 - 6	138.7	138.5	127
Drink and tobacco	100.0	114-6	121-8	131.6	151-3	171-6	184 - 9	172 -
Personal utilities	100.0	95.4	102.2	117-1	124.5	125-2	119.3	98-
House furnishings	100.0	111-8	109-1	126.7	153 1	158-4	174.5	159
Books and stationery	100.0	83.4	97.6	107-4	119.3	132.0	141.2	140-
Vehicles and vessels	100.0	87.1	107.7	140-1	148.9	158-5	184.3	149 -
Producers' materials	100·0	94.9	103.8	117.8	125.0	138-0	146.9	130-
Industrial equipment	100.0	99.7	108-3	131 - 1	142.6	157.9	169.7	150-
Miscellaneous	100.0	104-8	108.4	117·6	124 1	133.4	147-1	123 -

Exclusive of central electric stations.

The construction of this new index of the volume of manufacturing production has superseded for the years 1923-29 the index shown in Table 4 of this publication in former years. The former index, which made no pretence to the reliability of the new one, was made by dividing the gross value of manufactures by the index number of the prices of manufactured goods. The central electric stations were included in the former index, while they are excluded from the new one. However, the former index covered the period 1917 to 1923 not covered in the new one and, since this earlier period was one of wide fluctuations in money values, the following index numbers are given for the whole period since 1917, using the earlier method, but excluding central electric stations, for the years 1917 to 1923 and the new index, transposed to the 1917 base, from 1923 to 1930: 1917, 100·0; 1918, 102·0; 1919, 98·1; 1920, 95·0; 1921, 86·1; 1922, 96·0; 1923, 104·8; 1924, 102·9; 1925, 112·7; 1926, 128·1; 1927, 136·5; 1928, 148·8; 1929, 157·5; 1930, 142·8.

Consumption of Manufactured Products.—One of the beneficial results of placing the classification of external trade and of production upon a common basis is exhibited in Table 6, where the value of commodities made available for consumption in Canada is derived from the statistics of the two important fields. For example, the value of all manufactured commodities made available in a period approximately corresponding to 1930 was \$3,610,328,443, a figure obtained by adding to the value of manufactured products in 1930 the value of the imports of manufactured and partly manufactured goods during the fiscal year ended Mar. 31, 1931, and deducting the value of the corresponding exports for the same period. In this table more accurate statistics could be presented were it possible to exclude from the gross value of manufactured products the duplications involved when the products of one manufacturing establishment become the materials worked upon in another. Iron, vegetable, wood and paper, textiles and animal products were, in that order, the leading groups in the value of finished goods made available for

consumption. The large amount of manufactured vegetable products made available for consumption was due to the large domestic production, as the exports and imports were about equal, while manufactures of textiles and iron and steel products, in addition to a large production, showed an excess of imports over exports of \$98,000,000 for textiles and \$149,000,000 for iron and steel products. Wood and paper, animal and non-ferrous metal products were manufactured in Canada in greater quantities than required for home consumption, providing export balances in these groups of commodities.

6.—Consumption of Manufactured Products, by Groups, 1939, with Totals for 1922-29.

Nors.—Statistics of manufacturing production are for the calendar year. Imports and exports of manufactured and partly manufactured goods are for the fiscal years ended Mar. 31 of the following years.

Group of Industries.	Value of Manufactured Products.	Manufactu	d and Partly red Goods. Value of Domestic Exports.	Value of Manufactured Products Available for Consumption. ¹
	- \$		\$	*
Vegetable products Animal products Textile products Wood and paper products Iron and its products Non-ferrous metal products Non-metallic mineral products Chemicals and allied products Miscellaneous industries Central electric stations	417,540,878 361,814,733 636,599,911 569,745,973 250,458,721 216,812,827 119,969,637	30,104,570 103,779,840 43,367,938 187,908,976 53,723,801 55,135,444 35,068,281 57,186,834	44,448,811 6,079,690 219,332,521 38,936,076 59,006,916	403, 196, 637 459, 514, 883 460, 635, 328 718, 718, 873 245, 175, 606 264, 601, 307 142, 212, 066 101, 490, 405
Totals, 1930 Totals, 1929 Totals, 1928 Totals, 1927 Totals, 1928 Totals, 1928 Totals, 1928 Totals, 1924 Totals, 1924 Totals, 1922 Totals, 1922	4,029,371,340 3,738,484,728 3,394,713,270 3,221,269,231 2,945,546,315 2,695,053,582	939,226,894 954,468,018 825,147 919 767,022,008 621,462,940 576,031,243	494,561,750 690,904,225 702,314,797 648,178,000 673,709,266 695,325,245 591,538,479 591,829,306 515,173,415	4,277,694,069 3,950,437,949 3,571,683,189 8,314,581,973 2,924,683,010 2,679,486,346 2,828,679,853

1For 1928 to 1930 foreign products imported and later re-exported are eliminated from the value of products available for consumption, but for 1927 and previous years this was impossible since foreign exports for these years had never been analysed as raw materials or partly or fully manufactured goods. Therefore in this table the value of manufactured products made available for consumption, for the years 1922 to 1927 inclusive, is an overstatement by the amount of the foreign exports of manufactured goods in each year, probably varying from about \$11,000,000 in 1922 to \$18,000,000 in 1927.

Section 2.—Production of Industrial Groups and Individual Industries.

One of the factors in the progress of Canada is the possession of many natural resources favourable to industrial growth. It is upon the country's agricultural resources, forests, minerals and wild life that Canada's industries are mainly based. The sea and lake fisheries also make an important contribution of raw materials to the manufacturing industries of the Dominion. Nevertheless, the industrial development of Canada was a matter of small beginnings and gradual growth over a period of many years, and the comparatively small home market, restricted at the present time to a population of about ten millions, a large part of it in scattered agricultural areas, is still one of the difficulties of the situation. Yet Canada is now not merely the second largest manufacturing country in the British Empire; her

exports to the other Dominions consist largely of manufactured goods and her exports of manufactured and partly manufactured goods to the United States exceed the exports of raw materials. The rate at which this movement is to continue will depend almost entirely upon growth within the Dominion—upon the further development of the many-sided physical assets of the country.

Subsection 1.-Manufactures Grouped by Chief Component Materials.

A classification based on the chief component materials in the various products of each manufacturing establishment was applied for the first time in the compilation of the returns for 1920. The number of groups was reduced from fifteen to nine to correspond with the external trade classification and the classes of industry were somewhat altered to conform with recent industrial developments. Subsequently the central electric stations industry was taken out of the miscellaneous class*and now forms a class by itself.

Vegetable Products.—Though first in value of gross production in 1930, this group ranked only fourth in the number of people employed and salaries and wages paid. With the exception of rubber, coffee and spices, sugar factories, and rice mills, the industries of this group are dependent mainly upon domestic farm products for their raw materials. They produced, in 1930, 19·6 p.c. of the total manufacturing production and employed 13·1 p.c. of all persons engaged in manufacturing industries.

The flour-milling industry is the leading industry of the group from the point of view of gross value of products. This industry, which has existed to meet the domestic needs for more than 300 years, is one of the Dominion's oldest manufactures, but it is only within recent times that its progress has become spectacular. The War and the demand it created gave a great impetus to this trade. The 383 flour mills, many of them of the most modern type and highest efficiency, have a capacity far in excess of Canada's demands. During 1928, productive capacity reached about 121,000 barrels per day. Since then, the industry has been adversely affected by the difficulties which beset the Canadian grain trade and the great decline in the prices of grains. Exports of wheat flour declined from 10,737,266 barrels in 1928 to 7,514,778 barrels in 1930, but in spite of the decrease Canada continues to be one of the leading exporters of wheat flour.

The rubber industry is another industry of importance in the industrial life of the country. Canada now ranks among the leading countries of the world as a manufacturer of rubber goods. In 1930, she was the fifth largest importer of raw rubber in the world, ranking after the United States, the United Kingdom, France and Germany. Existing plants in 1930 numbered 47 and represented a capital investment of \$69,164,512 including equipment and working capital. These plants furnished employment to 15,163 persons who received \$15,895,479 in salaries and wages and produced goods valued at \$73,752,673. They also used raw materials to the value of \$28,821,759, mainly imported from tropical countries. The rubber industry also forms an adjunct of considerable importance to the cotton yarn and cloth industry which supplies tire fabrics. The industry, besides supplying the domestic market, contributes materially to the export trade of Canada. The products find their way to the remotest parts of the world as a glance at the list of countries to which rubber tires are shipped would show. Spain, Peru, Dutch East Indies, Portuguese Africa and China are but a few of the far-flung countries into which Canadian tires find their way.

The fruit and vegetable preparations industry which includes canned fruits, canned vegetables, pickles, vinegar, jams, etc., comprises another large division of this group. In 1930, this industry reported an output valued at \$43,093,752, a capital investment of \$46,135,025 and an employment of 10,651 persons who received \$5,634,355 in salaries and wages. The development of the canned foods trade has affected great changes in the relation of foods to seasons. Fruits and vegetables of many kinds are to be had at all times of the year with much of their original freshness and flavour. The producers in the country are provided with an enormously extended market and the consumers in both city and country with cheap and wholesome food in great variety. The industry has made rapid strides in the past few years. During the period of 1923-30 the volume of fruit and vegetable preparations produced increased 149.0 p.c. This growth is indeed remarkable as it represents a corresponding increase in the domestic demand for these products, the foreign trade being relatively small as compared with the domestic production. Imports in 1930 were valued at \$6,819,532 and exports at \$2,706,661. According to these figures, the industry supplies about 92 p.c. of the domestic requirements.

The sugar-refining industry is also of substantial importance. The demands created by the War gave it a great impetus. All things considered 1919 was a record year. The number of persons employed (3,491), the value added by manufacture (\$16,321,882) and the exports (\$22,953,135) were the highest recorded while the volume of sugar manufactured was only 10 p.c. lower than that of the peak year 1925 when 11,714,967 cwt. was produced. Since 1925, however, exports of sugar have declined with the result that production and employment slackened considerably. In 1930, the 8 sugar refineries reported a capital investment of \$43,855,155 and a value of production of \$42,935,722. They also employed 2,281 persons who received \$3,560,260 in salaries and wages, and paid out \$30,610,701 for materials. Exports of sugar in 1930 amounted to 218,150 cwt. valued at \$1,025,073.

The beverages industry—breweries, distilleries and wineries—which are important elements of the vegetable products group, have expanded from a production of \$30,000,000 in 1922 to \$87,000,000 in 1930, owing partly to the modification of prohibition laws in Canada and also to the fact that a large part of their production is exported directly or indirectly to the United States. The tobacco industry, another important factor in the vegetable products group, had a total production in 1930 of nearly \$86,000,000 and a payroll of 8,905 persons who received \$7,837.711 in salaries and wages.

Animal Products.—Production in this group is determined, in large measure, by the demand at home and abroad for Canadian butter, cheese, canned fish, fresh or frozen meats, bacon and hams, condensed and evaporated milk, etc.

The leading industry of the group is that of slaughtering and meat packing, with a value of production in 1930 of \$164,029,953. Next comes butter and cheese with a value of \$113,018,789. These two industries produced about two-thirds of the production of the entire group.

The butter and cheese industry, which manufactures a product of farm animals, has been for many years of leading importance in Canada. Originating in the agricultural districts of the Maritime Provinces, the Eastern Townships of Quebec, and the southern counties of Ontario, it is now developing rapidly in the Prairie Provinces and in the more recent northern settlements of Quebec and Ontario. For an industry so large in the aggregate, it is unique in having shown very little tendency

toward consolidation in large units, the gross production of \$113,018,789 coming from no fewer than 2,698 plants, mostly small and scattered at convenient points throughout the farming communities.

The leather industries have long been established on a considerable scale, mainly, of course, because the large number of cattle raised and slaughtered provide a ready supply of hides. There are large tanneries in the eastern provinces, and no fewer than 179 boot and shoe factories were in operation in 1930, chiefly in Quebec and Ontario, representing a total capital of over \$28,000,000 with an annual output of over \$40,000,000 and employing 13,922 men and women. The canning and preserving of fish also calls for reference. Concentrated naturally upon the Pacific and Atlantic coasts, 699 establishments were engaged in 1930 in canning, curing and packing of various kinds of fish that were valued at \$33,000,000.

Textile Products.—The principal manufactures which may be so classified are: awnings, tents and sails; cotton and jute bags; batting and wadding; carpets, mats and rugs; men's factory clothing; women's factory clothing; cordage, rope and twine; corsets; cotton and woollen waste; cotton textiles; cotton thread; cotton yarn and cloth; dyeing and finishing of textiles; dressed flax; men's furnishing goods; hats and caps; hosiery and knitted goods; linen goods; oiled and waterproof clothing; silk goods; woollen cloth; woollen textiles and woollen yarns. An output of \$426,-247,587 was established for this wide industrial group in the year 1929, being an increase of 2.6 p.c. over 1928. This is the highest figure attained since the depression of 1921, but it must be remembered that the index number of wholesale prices for fabrics, textiles and textile products has dropped from 303.2 in 1920 to 156.9 in 1929 and there is therefore every justification for assuming that the year 1929 was a record one in the textile industry.

In common with all other industrial groups, the textile industries of Canada felt the effects of the general depression prevailing in 1930. The output of textiles and textile products was valued at \$361,814,733, a decrease of \$64,432,854 or 15·1 p.c. as compared with 1929. The textile industries, however, were not as severely affected as this figure would indicate. Drastic declines in the value of raw materials with the consequent decline in the value of finished products account for the greater part of the decrease in the value of production, the yearly index of wholesale prices of fibres, textiles and textile products having dropped from 156·9 in 1929 to 140·5 in 1930, a decrease of 10·4 p.c. Therefore, the decline in the index of volume for textile products from 133·8 in 1929 to 124·4 in 1930, as shown in Table 5 on p. 416—a decline of 7 p.c.—gives a better idea as to the extent of the recession experienced by the textile group of industries in 1930.

The outstanding feature of the textile situation in Canada in 1930 was the expansion of the silk industry at a time when practically all other industries were experiencing a diminished demand for their products. Compared with 1929, the silk industry increased its output by \$3,332,518 and furnished employment to 1,021 more persons.

In net production, i.e., in value added by manufacture, which is a truer criterion than gross production of the place of the group in the industrial life of the country, the textile group was fourth in 1930 among the ten major groups shown in the Census of Manufactures on p. 410, being exceeded only by the wood, iron and vegetable products groups. Textiles accounted for over 10 p.c. of the net manufacturing production of Canada. As an indication of the contribution which the textile group made in 1930 to employment in the Dominion, the group stood third in both

the number of employees and in salaries and wages paid, with nearly 17 p.c. of the total employees in manufacturing and 13 p.c. of the total salaries and wages paid. Again, this wide group of textiles may be regarded as two distinct divisions: (1) the spinning, weaving and knitting trades, and (2) the finishing trades. If so regarded, the first division still assumes the proportions of a very large industrial group with a gross production for 1930 of \$165,571,736, while the second division is still larger with \$196,242,997 gross production.

The hosiery and knitted goods industry, with products worth \$54,117,924, ranked second in the textile group in 1930. Despite the depressed condition of the textile industry generally, the volume and value of production in this branch of the industry held up remarkably well, the value of production being \$6,457,243 or $10\cdot 9$ p.c. lower than the peak year of 1929. Employment only declined by 883 or $4\cdot 7$ p.c.

The production of hosiery of all kinds ranked first in importance with an output valued at \$21,112,263. Next in order came underwear, combination and separate garments with a value of \$15,812,529. Various other knitted and woven goods accounted for \$13,518,933, while yarns and numerous small sundries made up the balance.

The industry is located chiefly in the province of Ontario; 105 of the 158 establishments were located there and produced \$36,911,433 or almost 70 p.c. of the entire output. The province of Quebec followed with an output of \$13,004,533 or slightly over 24 p.c. of the total.

Wood and Paper.—An outstanding feature of the general expansion of Canadian commerce since the opening of the century has been the change in the industries associated with forestry. Lumber output has shown wide fluctuations, being so largely dependent upon building and construction operations which are themselves subject to wide cyclical fluctuations. Furthermore, the increasing adoption of fireproof types of construction has resulted in a lower lumber consumption in proportion to the total building done. Thus the quantity of lumber sawn in 1911 has never since been equalled, the total being 4,918,000 M board feet compared with 3,989,421 M feet in 1930, the exports amounting to 35 to 40 p.c. of the total in each year. In contrast with this is the progress in pulp and paper production. The census of 1881 recorded only 36 paper and 5 pulp-mills in existence in Canada. In 1930 there were 109 pulp and paper-mills, consuming more than 4,741,349 cords of pulpwood in the year and using hydro-electric power to the extent of over 5 billion k.w.h. Production of wood pulp in 1917 was 1,464,308 tons and in 1930, 3,619,345 tons. Production of newsprint in 1917 was 689,847 tons, in 1921, 805,114 tons, in 1923, 1,252,000 tons and in 1924, 1,388,081 tons, while in 1930, the production was 2,497,952 tons. Included in the totals are hanging and poster papers. Canadian production in 1930 exceeded that of the United States by 95 p.c., so that Canada now occupies first place among the countries of the world in the production of newsprint paper.

Iron and Its Products.—The manufacture of iron and steel and their products is one of Canada's basic industries. Iron ore is not now produced in Canada as the known deposits, though extensive, are not of sufficiently high grade to permit economic recovery under present conditions. Yet there has been built up a primary steel industry of considerable importance and the secondary or fabricating industries have been expanding steadily to meet the country's increasing requirements.

There are now four concerns which make pig iron in Canada, one being in Nova Scotia and three in Ontario. The former uses Nova Scotia coal and iron ore from the great Wabana deposits which it controls on Bell island, Newfoundland, while the Ontario works are dependent on foreign ore and coal which are brought from the United States. These companies have blast furnaces with a rated capacity of 1.5 million tons of pig iron per annum but the highest tonnage yet attained was 1,080,160 long tons in 1929. Open hearth steel furnaces and rolling-mills are also operated by these companies which produce steel ingots, blooms and billets, bars, rods, rails, structural shapes, plates, sheets, rail fastenings, etc. Including electric steel furnaces, there were 27 steel plants in operation in 1930 which, with the 16 rolling mills, 4 pig iron plants and 2 ferro-alloy plants, represented a capital of \$112,-000,000 and employed 9,723 hands to produce primary products worth \$52,588,935.

Among the secondary industries, the production and maintenance of railway cars, locomotives and parts is of first importance. In 1930, there were 37 plants for this purpose and 25,952 workers were employed. The value of products was \$104,922,701, which was \$22,000,000 lower than in 1929.

Automobile manufacturing is one of Canada's largest industries with 12,541 employees, products valued at \$101,677,487 and a capital investment of \$90,671,678 in 1930. This was not a representative year and the figures are hardly indicative of the real importance of the industry. In 1929, for instance, 16,435 people were employed in the 17 plants then in operation and cars and parts worth \$177,315,593 were produced for the home and export markets. Recently a number of new auto and truck factories have been established in Canada so that there are now 21 factories in operation with a yearly capacity of about 400,000 vehicles.

The export trade in automobiles and parts reached its peak in 1929 when cars and parts worth \$47,005,671 were shipped to other countries. In 1930 this market declined to \$20,386,354.

There are also numerous works for the manufacture of machinery, agricultural and implements, sheet metal products, foundry products and similar articles of iron steel and the variety of products made in these establishments is increasing yearly.

Non-Ferrous Metals.—Rapid development of Canada's resources in the field of non-ferrous metals, the completion of large electric power projects and the more extensive use of electrical equipment, has led to a spectacular increase in this group of manufactures in recent years. The importance of the non-ferrous metals as a factor in Canada's economic life may be judged by the fact that in 1930 in a year of depression and declining prices the output of the 428 works reached a value of \$250,458,721. This compares with \$283,545,666 in 1929 and \$183,501,723 in 1926. Capital invested in these factories in 1930 was \$325,605,549 and the number of employees was 38,756.

The production of electrical apparatus is eighth in importance among all manufacturing industries and growth has been rapid in the last few years. From a value of \$51,000,000 in 1923 the output advanced to \$113,798,002 in 1929 and then suffered a decline in 1930 to \$104,577,790. Capital has advanced in the same period from \$65,077,942 to \$102,979,896 and employees from 13,268 to 20,568. A total of 149 plants were engaged in this line of manufacture in 1930. Radio has contributed a great deal to this growth, the output in 1930 being 170,082 sets worth \$19,196,936 at factory prices.

The smelting and refining of non-ferrous metals has also shown a rapid gain. Within the last year or so two new copper refineries and two smelters have been added to Canada's metallurgical works. In 1930 the 13 smelters or refineries in

operation reported a capital investment of \$163,092,471 and employed 8,626 workers. The value of smelter and refinery products was \$100,946,136, including aluminium, nickel, cobalt, blister copper, electrolytic copper, zinc, lead, silver, gold, cadmium, bismuth, platinum, palladium, and other refinery products.

Exports of non-ferrous metals and their products reached nearly \$116,000,000 in 1930.

Non-Metallic Minerals.—This group of manufactures includes such leading industries as coke making, oil refining, the manufacture of glass, artificial abrasives, bricks, cement, etc. Final figures for 1930 show that the output for this group was \$25,000,000 or 10.4 p.c. below the corresponding total for 1929.

The petroleum-refining industry is by far the largest of the group. Canada produces some crude oil but the bulk of the oil treated in Canadian refineries is imported from United States or South America. In 1930 there were 15 refineries operating at advantageous points across the Dominion. These units used 1,064,434,974 gallons of crude oil in that year and produced refined commodities worth \$90,809,711. About 5,030 people were given employment and the capital investment was \$69,077,982.

Chemicals and Allied Products.—That chemical manufactures occupy an important place in Canadian industry is apparent from the fact that in 1930 an average of 15,503 persons were employed in the 591 plants which made chemicals and allied products. These plants produce the greater part of the chemicals that are consumed in this country. In 1930 the apparent consumption of chemicals and allied products amounted in value to \$140,000,000, of which \$120,000,000 or 85 p.c. was of domestic manufacture.

Chemicals and like products of great diversity are made in Canada but paints, soaps, medicinals, acids and chemical salts are most important. Production from the 17 plants in the heavy chemical industry, which represents a capital of \$52,000,000 normally amounts to about \$20,000,000 and in 1929 was up to \$28,000,000. Acetic acid, calcium cyanamide, sodium cyanide, caustic soda, soda ash, sulphuric acid, phosphorus, calcium carbide and nitre cake are among the leading products. The export trade in these commodities amounted to about \$11,000,000 in 1930.

The paints industry employed 2,835 workers in 1930 and paid \$4,307,998 in salaries and wages. Production in that year was valued at \$23,966,502. The soap industry is next in importance, there being 68 factories in this line of manufacture with output worth \$18,167,838. The production of medicinals and pharmaceuticals was worth \$17,768,806 and 2,833 people worked in the 144 factories in this industry. Compressed gases, fertilizers, coal-tar products, wood-distillation products, inks, adhesives, polishes, and a multitude of other such products are also made in the chemical plants.

Many chemical products are also made in industries which for statistical purposes are not included in the chemicals and allied products group. For instance, pulp and paper, distilled liquors, brewery products, and artificial abrasives are classified in other groups. By extending the scope of the chemical industry to include these other factories which primarily use chemical processes, approximately 100,000 workers would be employed and production would total about \$631,000,000.

Central Electric Stations.—This industry is shown under the totals by groups in Table 7 as a separate group in order to facilitate the presentation of statistics of power installed in the other groups and industries.

The principal statistics of each of the manufacturing industries of Canada during 1939 are presented in Table 7 on pp. 424-429.

7.-Statistics of the Numbers, Capital, Employees, Salaries and Wages, Cost of

].		Establish-	_Capital	Sa	laried Em	ployees.
) L	Group and Kind of Industry.	ments.	Employed.	Male.	Female.	Salaries.
Ī		No.	\$	No.	No.	\$
ŀ	Canada	24,020	5,203,316,760	70,525	22,418	184,289,11
1 2 3	TOTALS BY PROVINCES. Prince Edward Island. Nova Scotis. New Brunswick.	924	3,441,958 133,671,163 140,611,530	147 1,456 1,356	438 386	196,87 3,341,72 3,155,09 52,328,03
1	Quebee. Ontario Manitoba. Saekatchewan	7,410 9,888	1,727,064,388 2,481,369,848 188,413,164	20,353 35,747 3,177	13.211	97,716,79 8,048,13
8	Saskatchewan Alberta British Columbia and Yukon.	750 845 1,697	65,486,140 109,930,271 403,328,298	3,177 1,775 1,934 4,580	440	3,639,62 4,432,44 11,389,38
1	Totals by Groups. Vegetable products	5,041	569,403,769	7,900	2,871	21,272,08
345	Vegetable products. Animal products. Textiles and textile products. Wood and paper products. Iron and its products. Non-ierrous metal products. Non-metallic mineral products. Chemisels and allied products.	4,841 1,886 7,816 1,196	569, 403, 769 238, 334, 972 368, 567, 643 1, 221, 357, 252 757, 797, 256 325, 605, 549 336, 018, 152, 188	7,908 6,358 15,790 13,166	1,894 3,362 4,796 3,479	21,272,08 15,340,12 18,968,27 43,065,04 36,033,81
5	Non-ferrous metal products. Non-metallic mineral products.	1,130 429 1,234 591	325,605,549 336,018,922	5,571 3,281	1,952 731	15,278,72 8,011,16
9	Chemicals and allied products. Miscellaneous industries Central electric stations	1 755	168, 119, 152 84, 912, 229 1, 138, 200, 016	3,163 1,661 5,727	685	9,339,81 4,476,93 12,448,12
	GROUP I.—VEGETABLE PRODUCTS.	5,041	569, 402, 769	2,500	2,871	21,272,68
2	Biscuits, confectionery, chocolates, etc Bread and other bakery products	280 2,697 73	54, 403, 093 51, 914, 170 67, 637, 142	1,410 700 683	7 118	3,607,86 1,669,57 2,250,85
4	Totals. Biscuits, confectionery, chocolates, etc Bread and other bakery products. Breweries. Coffee, tea and spices. Distilleries. Feed mills.	60 15 894	13, 658, 248 61, 533, 825	284 284 20	64	930,69 878,67
7	Flour mills. Foods, breakfast Foods, stock and poultry.	383 14 18	6,352,859 56,264,148 8,430,942 1,944,821	799 37	185 25	36,81 1,975,06 122,84 146,32
9	Foods, stock and poutry Foods, miscellaneous Fruit and vegetable canning, evaporating etc	46		70 385	37	200, 96 820, 91
3	etc. Ice cream cones. Linseed oil and oil cake. Macaroni, vermicelli, etc.	11 8	634,013 3,426,727 1,835,319	1(35 25	6 4	23, 87 92, 49 42, 10
4 5 6			1 7 069 510	5:	1 7 3 6	136, 41 39, 57 385, 88
8	Maple syrup and sugar. Pickles, vinegar, sauces, etc Rice mills. Rubber goods, including rubber footwear. Sugar refineries. Tobacco, cigare and cigarettes.	62 4 47	767,722 69,164,512	14 1, 1,52	5 2 3 496	59,82 3,789,59
8 9 11 12 12 12 12 12 12 12 12 12 12 12 12	Sugar refineries. Tobacco, cigare and cigarettes Wines. All other industries.	103 44 2	51,376,115 8,557,966	1, 01: 70 40	375 5 13	908,67 2,861,40 187,58 154,49
	GROUP 2.—AMMAL PRODUCTS.	4,341	233,334,972	7,90	1,894	15, 345, 12 25, 14
23	Animal oils and fata	9	1.368.338	2	2	80,71 85,47
4	Boots and shoes, leather Butter and cheese	179 2,698 26	I 50 K09 408	1 7 797	721 4	2,870,50 4,935,243 394,7
56789	Fish curing and packing. Fur dressing and dyeing. Fur goods	699 10 216	1,215,702 11,592,105	52: 5- 38:	1 5 2 211	918,95 161,01 1,049,37
1	Gloves and mittens, leather Hair goods, animal Hair goods, human	47 5 3	3,020,339 699,164	1 10	1 8	280,78 60,17 78
13 14	Animal oils and fats Belting, leather Boot and shoe findings, leather Boots and shoes findings, leather Boots and shoes, leather Butter and cheese Condensed milk Fish curing and packing Fur goods Gloves and mittens, leather Hair goods, nimal Hair goods, human Harness and saddlery Leather goods, n.e.s Leather tameries Sausage and sausage casings Slaughtering and meat packing.	175 38 82	3,316,177 1,405,202 26,092,825	1 254	8 32 0 58	156,84 152,94 845,41 69,70
15 16 17 18	Leather teameres. Sausage and sausage casings. Slaughtering and meat packing. Trunks and bags.	40 76 18	1,224,025 60,778,996	1,45	7 5 1 288	3,539,91

Primary Power: see pp. 462 to 464.

Materials and Value of Products of Canadian Manufacturing Industries, 1930.

v	Vage-Ear	ners,	Power	Cost of	Cost of	Values of	Products.
Male.	Fe- male.	Wages.	Installed.	Fuel Used.	Materials.	Net.	Gross.
No.	No.		H.P.	\$	\$	ş	\$
431, 463	120,033	551,853, 649	7, 105, 4521	56, 518, 747	1,666,983,902	1,761,986,726	3, 428, 970, 928
1, 116 15, 739 13, 508 131, 433 203, 119 18, 787 4, 679 10, 255 32, 827	784 3,441 3,172 47,441 55,400 3,594 432 1,464 4,335	591, 228 14, 195, 963 11, 833, 348 164, 507, 645 273, 064, 657 25, 893, 097 5, 589, 964 12, 659, 590 43, 518, 157	7, 2231 225, 8512 189, 2743 2, 823, 5963 2, 358, 829 408, 6631 130, 8061 173, 1471 793, 0821	114,793 2,916,386 1,743,591 15,165,061 27,044,693 2,521,758 2,003,206 1,513,551 3,495,758	2,546,827 44,506,178 33,897,264 462,244,278 836,666,780 74,761,265 35,608,157 53,621,884 123,131,269	1, 708, 139 41, 296, 743; 29, 570, 998 560, 036, 409 876, 338, 542 67, 683, 725 26, 668, 609 40, 692, 898 117, 990, 663	4, 254, 966 85, 802, 921 63, 468, 262 1, 022, 280, 687 1, 713, 025, 322 142, 424, 990 62, 276, 766 94, 314, 782 241, 121, 932
49.025 35,417 40,099 125,048 100,644 26,672 25,099 8,493 10,273 10,693	24,386 12,438 59,757 11,090 2,698 4,561 757 2,587 1,759	63, 987, 161 40, 219, 271 78, 934, 818 131, 341, 841 129, 305, 794 37, 040, 302 31, 229, 998 11, 701, 974 13, 163, 176 14, 839, 314	313,527 105,833 171,324 2,126,515 576,609 401,817 213,917 87,382 54,820 5,572,561	6,523,849 3,040,109 3,377,826 12,671,180 9,649,582 3,577,638 13,103,310 1,572,930 407,444 2,594,879	357, 510, 340 285, 328, 411 184, 563, 865 268, 249, 293 281, 713, 862 111, 738, 441 107, 206, 674 48, 165, 038 22, 508, 608	314,513,326 132,212,467 177,250,868 368,350,618 288,632,111 138,720,310 109,606,150 71,804,599 35,458,129 126,038,145	672, 023, 668 417, 540, 878 361, 814, 733 636, 599, 745, 973 250, 458, 721 216, 812, 827 119, 969, 637, 57, 966, 137 126, 038, 145
49, 675 4, 497 14, 414 3, 785 685 1, 186 1, 220 3, 559 268 127 302	24,386 5,722 2,231 52: 452: 431: 2 130 123: 15:	62, 987, 161 7, 496, 804 17, 774, 961 4, 505, 784 1, 187, 851 1, 557, 264 757, 079 3, 910, 158 489, 299 153, 608 433, 563	313,527 20,419 15,068 22,850 3,110 9,704 36,833 83,031 3,749 1,345 3,754	\$,523,849 550,108 1,648,236 561,462 44,034 442,564 81,600 417,301 75,618 8,451 97,563	357, 510, 340 25, 044, 901 36, 582, 843 16, 524, 273 17, 232, 532 6, 616, 520 16, 853, 963 102, 823, 717 2, 553, 523 1, 939, 303 3, 821, 039	314,513,326 33,014,701 37,012,051 40,986,816 7,049,915 18,309,341 3,497,45 21,680,807 4,045,919 1,132,615 3,239,120	672, 623, 668 58, 659, 602 73, 594, 894 57, 521, 089 24, 378, 447 24, 925, 861 20, 351, 422 124, 564, 524 6, 599, 442 3, 071, 181 7, 060, 159
2,986 71 212 121 161 29 704 46 9,333 1,889 2,768 285 377	5,603 28 2 84 1 623 3,811 98 4,747	3,334,678 65,077 233,669 124,149 249,713 30,842; 1,092,874 46,586 12,155,880 2,651,590 4,976,302 373,642 436,388	12, 641 68 1, 887 1, 597 5, 294 36 3, 175 335 62, 928 18, 978 2, 536 794 4, 295	307, 974 23, 224 27, 763 6, 910 168, 688 7, 203 113, 786 625, 037 1, 029, 175 89, 101 22, 485 176, 106	19, 818, 763 116, 410 6, 476, 883 726, 478 2, 597, 715 1, 016, 234 6, 320, 016 1, 107, 017 28, 821, 759 30, 610, 701 24, 286, 734 2, 616, 290 2, 898, 720	11, 641, 652 371, 241 933, 550 519, 669 2, 219, 838 339, 686 5, 315, 321 260, 684 44, 930, 914 12, 335, 021 61, 285, 052 2, 408, 967 1, 894, 243	31, 458, 415 487, 651 7, 410, 438 1, 246, 147 4, 817, 553 1, 355, 270 11, 635, 337 1, 367, 101 73, 752, 673 42, 935, 722 85, 671, 786 5, 625, 257 4, 792, 963
35, 417 103 126 17, 99 7, 785 7, 275 572 6, 193 480 1, 128 64 2, 244 2, 244 2, 244 2, 244 2, 245 211 6, 735	12,438 4 4 4 3 4,917 257 3,774 101 1,078 831 3,74 293 94 49 14 813 95	49, 219, 271 118, 981 132, 141 206, 953 10, 487, 558 8, 136, 673 671, 638 3, 383, 902 2, 547, 377 951, 356 6, 424 461, 904 501, 788 2, 676, 662 228, 579, 8, 574, 750 490, 339	105, 832 333 336 1, 934 6, 127 26, 552 3, 851 13, 327 898 451 356 457 1 491 141 13, 578 386 35, 814	3,649,109 21,273 7,174 15,748 112,804 1,069,453 321,998 410,900 9,544 21,814 13,627 6,214 -21,446 6,001 292,933 14,968 677,421 18,791	285, 328, 411 219, 911 488, 490, 510, 787 29, 521, 726 89, 659, 841 2, 521, 960 21, 081, 489 9, 537, 657 2, 244, 124 475, 339 9, 434 1, 076, 434 1, 047, 757 13, 162, 214 1, 701, 441 129, 004, 327	132, 212, 467 210, 464 337, 636 521, 413 19, 957, 185 32, 458, 948 11, 082, 783 11, 891, 819 6, 196, 111 1, 813, 405 437, 176 99, 124 992, 568 1, 220, 802 6, 774, 101 684, 599 35, 025, 626 1, 188, 506	417, 549, 878 430, 375 826, 126 1, 032, 200 40, 478, 911 113, 018, 789 13, 604, 743 32, 973, 308 1, 625, 824 15, 733, 766 4, 057, 529 912, 515 18, 5583 2, 069, 002 2, 268, 559) 19, 936, 315 2, 386, 040 164, 029, 933 2, 138, 363

7.—Statistics of the Numbers, Capital, Employees, Salaries and Wages, Cost of

cor

Į	Group and Kind of Industry,	 Establish-	Capital	Salaried Employees,		
	Group and Kind of Industry.	ments.	Employed.	Male.	Female.	Salaries.
G	ROUP 3.—TEXTILES AND TEXTILE PRODUCTS.	No.	368,567,643	No.	No.	<u> </u>
T	otals	1,886	368,567,648	6,358	3,362	18,368,278
	Bags, cotton and jute,	23	2,036,822 5,631,776	75 82	40 33	180,476 316,787
	Rotting	اه ا	2 665 9521	33	23	141,541
	Carpets Clothing, factory, men's Clothing, factory, women's Cordage, rope and twine	19	6,628,481 26,294,787 23,432,441	158	44	442,024
	Clothing, factory, men's	192	26, 294, 787	939	392	2,464,204
	Clothing, lactory, women's	455 13	23,432,441	1,117 78	784 24	3,630,112
		19	12,281,660 5,277,642	105		262,606 284,790
	Cotton and wool waste Cotton textiles, n.e.s.	1 7	1.041,227	11		35,299
	Cotton textiles, n.e.s	22 7	1,125,649	34		35,299 121,59
		33	4,214,075	60		176,820
	Dyaing elegating and laundry work	387	78,542,804 28,351,092	412 731		1,110,927
	Flax, dressed	10	108.203	1	- 1	2,064,474 700
	Cotton yarn and cloth Dyeing, cleaning and laundry work Flar, dressed Furnishing goods, men's	158	108,203 17,597,012	498		1,422,843 1,046,993
	Hats and cape	153	7 974 0971	376		1,046,993
	mosiery, Knitted goods and labric gloves	167	65,047,351 740,757 12,892,467	744	538	2,623,121
	Linen goods	3 11	12, 802, 467	10 172	88	39,716
	Oiled and waterproof clothing	17	1,024,347	30		618,144 100,839
	Silk and artificial silk	25	80,506,060	330	106	803,006
	Woollen cloth	46	20, 202, 796	249	66	724,439
	Furnishing goods, men B. Hats and caps. Hosiery, knitted goods and fabric gloves. Linen goods. Miscellaneous textiles. Oiled and waterproof clothing. Silk and artificial silk. Woollen goods, n.e.s. Woollen goods, n.e.s.	25 26	8,476,055 7,174,100	76 37	22 22	234,306 123,021
	GROUP 4WOOD AND PASER PRODUCTS.	' '	4 004 455 656	45 884		40 4== 440
	Paskagarera and noultryman's supplies	7,816	1,221,257,252	15,7 50 8	4,786	43,065,048 8,780 27,273
i	Beekeepers' and poultrymen's supplies Blueprinting	15	119,448 182,608	18	4	27, 273
1	Boat building		3, 123, 984	89	15	209,613
	Boxes and bags, paper	126	21.667.586	489	233	1,466,852
	Boxes, wooden	123	10,636,465 7,662,388	230 140		558,729
	Boat building. Boxes and bags, paper. Boxes, wooden. Carriages, wagons and sleighs. Carriages and wagon materials. Clothes pins. Coffins and caskets. Cooperage. Engraving, stereotyping and electrotyping. Expression	317 6	659,801	120	4	292,586 23,959
	Clothes pins	i š	278, 615	15	l il	15,800
	Coffins and caskets	36 75	3.784.344	68		182,936
	Cooperage	75	2,332,065 9,806,326	36		101,062 1,388,043
	Engraving, stereotyping and electrotyping.	76 10	9,806,326 274,992	442 6		1, 585, 046 6, 918
	Excelsior	23	6,293,271	124	19	309,38
	FurnitureLasts, trees and shoe findings	366	41,495,827 1,255,156	894		2,615,14; 113,04
	Lasts, trees and shoe findings	12	1,255,156	40	15	113,044
	Lithographing Miscellaneous paper products Miscellaneous wooden products	46 58	17, 111, 128	352 197	210 121	1,431,077 668,200
	Miscellaneous wooden products	171	8,906,509 5,757,447	90	39	985 (14)
	Planing mills, sash and door factories, etc	728	5,757,447 49,333,121 38,837,176	977	212	2,275,358
	Planing mills, sash and door factories, etc Printing and bookbinding Printing and publishing	905	38,837,176	1.529	540	4,394,820
	Printing and publishing	776	68 860 8941	4,959	1,748	11,831,366
	Pulp and paper	109 11	719,437,104 5 347 9921	2,976 114		9,538,588 375,455
	Sawmills	3,531	181, 116, 933	1,465	210	3,886,658
	Frinting and pubrishing. Pulp and paper. Roofing paper, wall board, etc. Sporting goods. Stationery and envelopes. Trade composition. Woodenware. Woodenware.	27 39	714,437,104 5,347,233 181,116,933 2,715,746	55	31	119,688
	Stationery and envelopes	39	6,011,637 793,785	256	116	663,469
	Trade composition	28	793,785	31	11/7	98,587 84,480
	Wood tuming	14 39	1,033,414 2,127,617	35 48		98,650
	Wood turning	17	11,394,902	119		513,485
	GROUP 5.—IRON AND ITS PRODUCTS.	1.196	757,797,256	13, 166	3,479	36,033,814
	Otals	57	98,684,828	1,182 1,631	848	2,945,138
	Automobiles	16	90,671,678	1,631 399	577 137	4,775,918
	Automobile supplies	57 3	9 021 947	399 124	34	1,095,934 177,101
	Boilers, tanks and engines	35	9,982.016	257	57	730,654
	Automobiles Automobile supplies Bicycles Boilers, tanks and engines Bridge and structural steel work	13	16,654,683 2,931,867 9,982,016 28,922,951	961	97	2,740,971
		930	100,318,189 32,259,387 11,738,866	1,912	607	5,574,920
	Hardware and tools	133	32, 259, 387	601 478	225 89	1,824,029 1,197,617
	nardwate and tools income and steel products, n.e.s. Machinery. Primary iron and steel. Railway rolling etock.	62 174	11,738,866 69,454,103	1,835		5,068,744
	Primary iron and steel	49	112 070 0261	664	180	1.992.900
	44 -1 141 - 141 - 1	37	95 785 640	1,739	109	4,203,25
	Railway rolling stock	011	00,100,010			.,,
	Railway rolling stock. Sheet metal products. Wire and wire goods	155 65	95,785,640 53,368,130 34,944,992	1,059 324	342	2,603,195 1,133,380

Materials and Value of Products of Canadian Manufacturing Industries, 1936—tinued.

Wage-Earners.		Power Cont of		Cost of	Values of Products.			
Male.	Fe- male.	Wages.	Power Installed.	Cost of Fuel Used.	Materials.	Net.	Gross.	ž
No. 40,039 237 290	No. 59,757 186 560	76, 934, 518 400, 837 658, 901 205, 585 850, 695	H.P. 171,324 248 1,183		\$ 184,563,865 1,077,189 7,587,868 1,447,880 1,955,945	\$ 177,250,868 1,050,555 2,291,594	2,127,744	1 2
119 601, 4,605 4,041 649	95 367 4,900 10,840 307	205,585 850,695 9,078,786 12,852,899 919,962	709 2, 254 1, 615 2, 849 7, 777	60, 156 73, 455 49, 641	21,000,019	2,291,594 1,486,815 2,845,121 19,285,909 26,056,597 2,401,462	2,934,695 4,801,066 40,819,423 61,815,948 8,551,349	3 4 5 5
98 116 90 177 9,479	1, 144 53 297 430	812,247 141,635 272,590 462,095	406 895	10,115 5,171	6,059,887 2,221,313 1,143,574 943,511 1,577,661	26, 056, 597 2, 491, 462 2, 357, 534 350, 927 704, 913 2, 239, 207 20, 717, 304 22, 664, 753 51, 827	4,010,041	12
9,479 4,596 96 1,061 1,420	7,013 6,937 1 7,138 2,220 11,705	9,078,786 12,852,899 912,962 812,247 141,635 272,590 462,095 11,893,866 10,077,293 23,313 5,014,875 3,191,312	1,976 16,976 15,696 15,696 2,163 1,665 16,980	666, 152 1, 021, 268 261 56, 728 62, 976 467, 202	41,010,014	20,717,304 22,664,753 51,827 10,363,401	1,494,501 1,648,424 3,816,868 48,692,878 25,472,664 84,076 25,154,310 14,224,789 54,117,924	12 13 14 15
5,583 53 865 101	11,705 92 142 127	12, 434, 026 102, 445 978, 836 209, 013 3, 915, 585 2, 681, 823	16,980 410 4,929	163,783 8 591	2,807,911 32,249 14,790,909 6,662,631 25,509,913 207,189 5,023,387 487,186 7,633,329 6,603,930 2,897,953 2,924,001	28,608,611 226,496 4,654,300 496,135	54, 117, 924 433, 685 9, 677, 697 983, 321 17, 808, 598 12, 347, 672	17 18 19
2,391 2,008 746 677	-2,566 1,552 253 832	3,915,585 2,681,823 816,024 940,175	10, 116 11,558 6,802 3,383	210,512 248,716 70,244 89,152	7,633,329 6,603,930 2,597,953 2,924,001	51, 827 10, 363, 401 7, 562, 158 28, 608, 601 226, 496 4, 654, 300 496, 135 10, 175, 269 5, 743, 742 2, 661, 635 2, 165, 203	17,808,598 12,347,672 5,259,588 5,089,204	21 22 23 24
125,048 30 57	11, 090 - 9		2,126,51 5 69 100	1 040	268,249,293 93,238 115,454 855,944	368,356,618 89,148 217,422	636,599,911 182,386 332,876	1
851 1,996 2,716 1,575 94	2,344 238 12	1,646,807	1452 7,452 7,585 13,200 3,653 721 725	11.087 98,790 30,886 67,689 7,067	855, 944 10, 451, 641 4, 256, 772 2, 529, 361 237, 807 171, 110 1, 337, 718 1, 634, 157 1, 456, 175 78, 617 4, 225, 291		32,876 2,687,050 20,836,150 8,813,916 6,098,657 468,456 501,300 3,186,476 2,523,694 6,728,739 218,209	345670
169 601 495 1,728 75	41 100 1 461 20 12	115,849 111,225 694,192 432,759 3,637,442 59,734 1,352,970	2,253 1,878 2,113 1,080	16,777 16,777 42,495	171,110 1,337,718 1,634,157 1,456,175 78,617	1,848,758 889,537 7,272,564 139,592	3,186,476 2,523,694 8,728,739 218,209	10 11 12
1,539 10,296 300 1,931 914	12 466 162 718 392	1,352,970 10,159,454 339,989 3,270,312 1,189,814	8,090	10,056	78, 617 4, 225, 291 13, 817, 450 239, 894 5, 540, 702 4, 815, 261	23,048,745 892,143 8,157,215 4,764,459	8,728,739 218,209 6,940,540 36,866,195 1,132,037 13,697,917 9,579,720 3,905,244 36,423,594	13 14 15 16 17
1,030 8,375 7,088 8,722 28,911 326	93 87 2,410 1,634 764	8,706,404	21,996 872 4,260 3,410 4,360 49,077 10,367 22,996	150.313 146.887	1,000,103	2,219,085 17,263,379 25,998,902 56,019,255 133,681,991	3,905,244 36,483,594 37,941,787 72,013,171	18 19 20 21
326 41,704 442 513 184	78 78 94 753 3	15, 105, 686 36, 236, 388 393, 535 25, 126, 243 492, 445 1, 063, 877	22,996 1,634,784 1,487 316,176 1,415 1,216	70, 238 305, 262 13, 838 18, 794	19, 220, 215 11, 942, 885 15, 993, 916 81, 992, 255 2, 652, 398 72, 956, 762 950, 274 4, 091, 247 42, 211	2,821,592 48,186,223 1,369,654 3,006,827 616,631	3, 905, 244 36, 483, 594 37, 941, 787 72, 013, 171' 215, 674, 246 5, 473, 990 121, 142, 985 2, 319, 928 7, 008, 074 658, 845 1, 032, 201 1, 341, 128	22.42.52
525 469 1,392	20 62 104	1, 063, 877 296, 489 311, 589 352, 209 1, 412, 618	97 1,008 2,703 7,361	13,838 18,794 7,245 2,660 6,542 154,811	458,066 607,713 3,798,597	574, 135 733, 415 4,921,804	1,032,201 1,341,128 8,720,401	28 29 30
199,644 5,807 10,197 2,809 309 1,605 3,885 17,688	2,686 68 136 235 28 5	125,395,794 6.648,911 14.697,864 3,431,245 418,540 1,919,150	576,699 25,476 42,376 11,743 1,018 7,881 23,097	9,649,582 449,525 659,673 185,765 17,090 95,309 168,364 1,304,060	281,713,862 11,353,523 66,924,019 10,682,111 1,384,866 4,565,856	288, 032 , 111 15, 548, 616 34, 753, 468 7, 719, 476 578, 081 5, 031, 383 13, 506, 348	569,745,973 26,902,139 101,677,487 18,401,587 1,962,947 9,597,239 26,065,783 74,238,671	123454
4,647 2,521 8,420 8,906 24,068	292 747 14 180 23 36 723	1,919,150 5,945,091 20,296,335 4,898,163 3,218,104 10,021,143 12,941,375 33,421,793 7,849,692 3,693,388	02,420	284,236 58,548 345,898 3,757,087 1,729,627	12.549.435. 28.262.602 6.713.290 5.798.796 18.326.621 22.765.648 60.289.445 25.090.342 7,007.308	45, 971, 069 44, 760, 865 7, 113, 514 35, 422, 861 29, 823, 287 44, 633, 256 21, 977, 127 11, 192, 750	74, 233, 671 21, 474, 155; 12, 912, 310 53, 749, 482 52, 588, 935; 104, 922, 701 47, 067, 479 18, 200, 058	8 9 10 11 12
6,604 3,178	723 211	7,849,692 3,693,388	17,027 15,458	342,729	25,090,342 7,007,308	21,977,137 11,192,750	47,067,479 18,200,058	13 14

7.—Statistics of the Numbers, Capital, Employees, Salaries and Wages, Cost of

Salaried Employees. Establish-Š Capital Group and Kind of Industry. Employed. ments. Male. Female. Salaries. \$ 15,278,725 GROUP 6.—NON-FERROUS METAL PRODUCTS. 325,695,549 NΛ Nο 5,571 Totals 429 1,952 5,217,665 14 127 131 42 327,731 1,986,431 224 26,820,527 781 102,979,896 149 3,568 1.348 9,620,479 Jewellery and silverware..... 194 968,434 248,286 10, 159, 074 287 Lead, tin and zinc products.

Miscellaneous non-ferrous metal products.

Non-ferrous metal smelting and refining. 23 4,612,408 72 40 16 42 805, 293 117,469 690 98 175,010,686 2,009,895 14 GROUP 7.—NON-METALLIC MINERAL PRODIS Totals

A brasive products

Aerated and mineral waters 1.234 336,018,922 3,281 731 8,011,167 6,251,425 14,934,798 26 104 244,054 1,005,618 13 80 385 486 11 2,316,645 16 131,990 44 267,003 337,658 10 59, 210, 737 116 Cement products
Clay products from domestic clay
Clay products from imported clay
Coke and gas products
Glass products 5, 157, 051 33, 430, 777 4, 099, 965 845 70 922,499 247,562 1,561,727 780,558 54 24 203 15 89,987,235 703 244 85 41 9 10 62 15,962,392 268 Lime.
Miscellaneous non-metallic mineral products 50 8,816.879 80 11 148,525 11 12 13 24 28 11, 197, 039 116 20 63 276,186 Petroleum products..... 70,334,381 1,317,159 Salt Sand-lime brick Stone, monumental and ornamental 4,685,549 42 10 107,637 61,663 8 2,165,362 14 11! 21 7,468,687 46 601,330 226 272 Group 8.—Chemicals and Allied Production Totals
Acide, alkalies and salts..... 3, 163 591 168, 119, 152 1.260 5,839,815 52.314,567 351 37 10 888,220 117,111 17 Addhesives.
Coal tar distillation.
Explosives, ammunition and fireworks
Fertilizers.
Flavouring extracts. 40 12 1,921,406 89,412 10 5.042.373 28 14,440,452 117 297,820 94,958 4,139,498 40 16 1.587,091 141,029 72 427, 146 442, 455 2,008, 710 687, 590 5,020,875 2,457,836 18,843,192 10,775,475 Gases, compressed 30 76 166 Inks.

Medicinal and pharmaceutical preparations
Miscellaneous chemical products. 22 iŏšl 30 144 652 403 227 136 251 2,281,880 11 12 13 Paints, pigments and varnishes..... 26, 212, 828 129,801 32 1,414,276 18,340,715 50 15 471 1,284,064 121 416,326 33,293 48 110 117 14 15 8,345,387 2,263,181 15 GROUP 9.-MISCELLANEOUS INDUSTRIES. 4,476,932 84,912,229 1,661 635 Totals
Advertising and other novelties..... 452 57,014 128,317 12,556 23 16 503,406 17 Aircraft
Artificial flowers and feathers
Brooms, brushes and mops
Buttons 2, 101, 232 20 46 184,836 159 10 74 17 5 33 15 11 71 6 377,972 125,767 4,109,862 1,408,331 539,845 39 38,922 Candles 1,695,844 4,927,342 158, 128 60 Fountain pens.... Ice, artificial

Jewel cases and silverware cabinets..... 50 121,200 245,270 8,255,703 25,694 582,798 6 10 179 Mattresses and springs..... Motion pictures.

Musical instruments.

Pipes, tobacco (included in all other in-970,709 106,868 11 68 17 644,948 9,076,086 223 119 12 dustries).... 82,873 32,581 377,405 32 Refrigerators
Regalias and society emblems
Scientific and professional equipment
Shipbuilding and repairs 11 10 1,194.063 205,339 14,513,146 96 507 15 16 17 12 23 1,192,618 24,815 57 7 31,597,501 354,366 $\frac{12}{50}$ 18 Signs, electric..... 132,033 49,560 22 17 5 646,999 19 15 11 29 21 699,460 210,365 Statuary, art goods and church supplies.
Store fixtures and display forms.
Toys.
Typewriter supplies.
Umbrellas.
All other industries. 22,844 15,779 4 18 26 22 178,924 13 13 90,374 23 717,478 66,748 446, 896 24 9,318 129,226 GROUP 10.—CENTRAL ELECTRIC STATIONS. 1,138,290,816 5,727 1.438 12,448,129 1.634 Totals

Materials and Value of Products of Canadian Manufacturing Industries, 1838—cluded.

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P	Vage-Earı	iers.	_	ا ـ ا	ا ا	Values of Products.			
Male.	Fe- male.	Wages.	Power Installed.	Cost of Fuel Used.	Cost of Materials.	Net.	Gross.	Š	
No.	No.	3	H.P.	\$	\$	<u>s</u>	\$	_	
26,672	4,561	27,040,362 737,464 4,756,321	401.817	3,577,638	111,738,411	138,720,310	250, 458, 721		
557	781	737,464	2,831	37,073	2, 184, 658	2, 158, 778	4,343,436	1	
3,958	334	4,756,321	17,645 77,507	321,241	13,355,186	12,057,035	25,412,225 104,577,790	3	
12,095 1,681	3,557 472	16,639,525	77,807 2 10k	589,910, 52,927	43,111,629	61,466,161 5,506,780	9,242,126	4	
411	91	486.364	3,105 2,729	52,827 47,167	3,735,346 3,813,569	1,365,014	5, 178, 583	5	
132	29	2,462,625 486,364 171,774	198	5.413	227.0011	530,8/4	758,425	ě	
7,838	-	11,786,229	297,802	2,524,007	45,310,472	55, 635, 664	100,946,136	7	
25,093	757	31,229,998	213,917	13,103,310	107,208,674 2,313,310	109,606,153	216,812,827		
676 1,750	17 100	912,587 2,088,833	6, 150 2, 768	26,961 84,147	2,313,310 3,667,202	4,187,041 9,883,205	6,450,851 13,550,407	2	
231	150	269,500	1.899	48 663	1,327,025	974,899	2 301 924	3	
2, 191	_	2.905.195	1,899 80,909	48,668 3,317,351 47,034	1,021,020	17,713,067	2,301,924 17,713,067 3,718,704 10,593,178	4	
1,052	5	1.076.385	3,138 29,291 1,279	47,034	1,261,910	2,456,794 10,593,578	3,718,704	5	
1.627	Ξ.	4,038,631 804,724	29, 291	1,654,518 177,678	-	10, 593, 578	10,593,178	•	
668	79	804,724	1,279	177.678	834,181	2,143,962	2.978.1431	7	
3.017 2,711	6 324	4,303,075 3,425,010	24,300 7.958	2,186,280 828,734	17,082,364 4,213,885	19,560,495 7,977,867	36,592,859 12,191,752	8	
995	-	939.253	24,365 7,256 6,582	826,089	4,210,000	4,038.698	4,038,698		
506	142	939,253 648,954	8,841	86,233	1,730,577	2,444,025	4, 174, 602	11	
4,592	19	6,872,971	30,039	3,572,348	71,800,429	2,444,025 19,986,776	4,174,602 91,787,205	12	
290	39	347,902	881	188,654	015 001	1,694,634	1,694,631	13	
203 1,590	11	203,431 2,443,547	1,363 9,206	33,916 22,704	215,921 2,759,870	455.380 5,595,735	671,301 8,355,605	15	
8,492	2,587	11,701,974	87,332	1,572,#3	48,155,638	71,834,594	115,56),637		
2.017	4,007	2,614,614	51,976	522.724	4 712 4711	15, 399, 131	20,111,602	1	
163	13	169,714	958	522,724 52,950	882 9081	15,399,131 767,726	1.650.634	2	
187	1	169,714 235,704	239	130, 189 146, 258 8, 295	2,354,551 3,445,630 1,647,478	979,515 6,286,315 857,095	3,334,066 9,731,945	3	
1,032	265	1,264,600 167,970	4,837	146.258	3,445,630	6,286,315	9,731,945	4	
205 80	68	169,340	1,879	6, 735	893,214	650,878	2,504,573 1,544,092	6	
217	13	310,094	131 5,779	20, 221	504.9751	3.052.5111	3.557.486	7	
214	23	306,249	1,250	10,680	995, 253	1,564,063	2,559,316	8	
773	1,005	1,654,597 1,083,976	2.344	75,665 66,556	995,253 5,563,081 3,595,893	1,564,063 12,205,725 4,727,486	3,557,486 2,559,316 17,768,806 8,323,379		
800	384	1,083,976	4,253	66,556	3,595,893	4,727,486	8,323,379	10	
1,654 87	215 50	2,026,118 139,386	8,302 169	189,487 6,265	11,094,435 627,642	12,872,067 719,257	23,966,502	12	
804	252	1,116,052	4,921	236.1681	9,996,739	8, 171, 098	1,346,899 18,167,838	13	
108 152	294	315,925 127,635	250 594	7,516 93,221	1,346,445 504,323	2,860,068 691,663	4,206,513 1,195,986	14 15	
- 1					İ				
1 0,273 72	1,759	13,163,176 128,801	54,829 50	407,444	23,508,008 311.890	35,458,125	57,986,137 576 817	1	
153	122 20	189 639	267	1,140 8,689	366, 125	264,927 902,680	576,817 1,268,805 137,545	ž	
8	41	189,632 28,300	8	133	48,630	88,9151	137,545	3	
886	224	874,696 213,824	1,659	21.576	1.802.8811	2.332.850	4, 135, 739 702, 470	4	
183	158	213,824	585	8,638	199,766 187,957	502 7041	702,470	5	
38 128	20 113	36,338 206,137	50 273	4,759	963, 186	224,496 1,734,482 1,526,744	2 567 668	÷	
271	114	321.693	9,948	2,095 8,348	96,871	1.526.744	1,623,615	ė	
40	36	65,143	105	2, 195	87, 116	160.0421	247, 158	9	
1,221	263	65,143 1,467,845	4,453	40.781	4, 111, 434	3,921,227	412,453 2,597,668 1,623,615 247,158 8,032,661	ij	
61	21	122, 237	21	2,451 81,684	374,583 4,338,816	449,047	823,630 8,250,887	Щ	
1,276	110	1,469,879	4,368	81,684	4,338,810	3,912,071	1	1.4 18	
228	4	222,070	731	2,666	391,265	615,464	1,006,729 227,736 7,235,666 16,869,922	[4	
23	39	51.079	21	802	93_0231	134,718	227,736	15	
468 4,569	268	798,457 5,952,975	3,234 28 183	46,871 154 283	2,768,853 5,060,973	4,466,813 11,808,949	16,880,000	7	
51	_6	148,321	28, 183 27	154,283 2,378	96,440	235,302	331.742	iš	
208	10	268,398	164	5,047	109,630	565,090	331,742 674,720	9	
181	156	286,781	208	3,401	389.246	690, 937 135, 001	1,080,183 2 165,431 2	0	
54	6	65,449	86	2,269 1,591	30, 430	135,001	165, 431 2	L	
49	31 28	50,632	83 193	1,591	111.590 354 228	124,215 421,632	235, 805 2 775, 860 2	4	
51 34	71	101,249 71,829	34	4,557 220	354,228 278,588	176,782	775,860 2 455,370 2 97,525 2	4	
20	8	23,411	71	1.170	34,487	63,038 126,638,145	97,525 2 126,038,145	a	
10,693		14,839,314	5,572,561	2,594,879		144,445,1151	140,440,1401	_	

Subsection 2.-Manufactures Classified by the Purpose of the Products.

Production of Manufactured Goods according to the Purpose Classification.—In addition to the classification according to the chief component material of the products, used for the industrial census in detailed presentation, a separate and distinct classification, based on the chief purpose of the products, was applied for the first time to the census returns of 1922 and is presented for the years 1926 to 1929 in summary form, and for 1930 in more detail, in Table 8.

During the period covered by the table, the gross production of the food industries dropped from 24·3 p.c. of the total for all industries in 1926 to 21·7 p.c. in 1930, while the clothing group dropped from 9·5 p.c. of the total in the former year to 8·7 p.c. On the other hand, the gross production of the "drink and tobacco" group, during the same period, rose from 4·1 p.c. of the total to 5·5 p.c. Producers' materials which stood at 29·0 p.c. in 1926 fell to 28·5 p.c. in 1929 and to 27·4 p.c. in 1930, due to the general decrease in manufacturing activity since the beginning of the general depression in the autumn of 1929. The percentage of the vehicles and vessels industries remained about stationary, being 9·3 p.c. in 1926 and 9·1 p.c. in 1930.

In analysing the relative standing of the two purpose groups which are perhaps of greatest interest, it is noted that the gross production of the food industries in 1930 was 21.7 p.c. of the output of Canadian manufacturing concerns, as compared with an output of 8.7 p.c. for the clothing industries. Aside from the fact that a much larger proportion of its products is exported, the greater production of the food group was in part due to the higher cost of raw materials, the value added by manufacturing being 13.5 p.c. of the total for all industries in the case of the food group and 8.8 p.c. for the clothing group. The clothing industries gave employment to approximately 8,000 more employees than the food industries.

8.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for 1926-3) and in Detail for 1930.

Purpose Heading.	Estab- lish- ments	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1926.3	No.	\$	No.	\$	*	\$	\$
Totals		3,981,569,590			1,728,624,192		3,221,269,231
Food	8,259		87,343	78,143,619			
Drink and tobacco Clothing	574 1.878	137, 139, 189 211, 149, 085					
Personal utilities	384						
House furnishings	543		15,684	16,858,549	22,673,689	32,679,963	55,353,65
Books and stationery	1,716		31,500				
Vehicles and vessels	917			70,815,573			
Producers' materials		1,404,509,475 1,313,175,892		206, 672, 939 118, 162, 492			
Industrial equipment. Miscellaneous	173						
1927.1				********			4 064 N13 9W
Totals,		4,337,631,558			1,758,789,334		
Food	8,306 570	418,151,619 160,100,581		81,722,970 18,312,164	586, 128, 295 52, 850, 437		
Clothing	1,988			91,236,118			
Personal utilities	391		10,754		26,061,404	27, 133, 729	53, 195, 133
House furnishings	553	68,578,269	17,438	19,151,982			62,788,03
Books and stationery	1,795						129,093,69 299,411,87
Vehicles and vessels	872	279,080,400 1,321,762,956					
Producers' materials. Industrial equipment.		1,460,936,792					
Miscellaneous							

For details for the years 1926-29 see previous editions of the Canada Year Book as follows: 1929, p. 423; 1930, p. 410; 1931, p. 431; 1932, p. 337.

8.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for 1926-30 and in Detail for 1939—continued.

							
Purpose Heading.	Estab- lish- ments.	Capital.	Em- ployees,	Salaries and Wages.	Cost of Materials.	Net Value of Producte.	Gross Value of Products,
1928.1	No.	\$	No.	•	•	•	\$
Totals. Food. Drink and tobacco. Clothing. Personal utilities. House furnishings. Books and stationery Vehicles and vessels. Producers' materials. Industrial equipment. Miscellaneous.	8,212 596 2,062 390 598 1,893 859 8.001	183,028,239 242,010,963 54,569,674 72,394,155 131,944,080	90,373 17,806 104,008 11,294 19,807 36,156 58,022 210,235	84,096,261 20,492,585 98,069,749 12,996,442 21,811,858 51,902,487 85,268,214 235,816,963 139,693,545	605,692,720 62,541,589 179,344,512 26,245,820	127, 972, 285 180, 265, 193 30, 281, 615 41, 597, 051 100, 848, 835 136, 215, 594	832, 600, 712 190, 513, 874 359, 609, 705 56, 527, 435 73, 350, 500 143, 939, 221 336, 396, 291 1,080, 948, 395 632, 750, 722
1929.1							
Totals. Food. Drink and tobacco. Clothing. Personal utilities. House fur nishings. Books and stationery. Vehicles and vessels. Producers' materials. Industrial equipment. Miscellaneous.	8,351 599 2,054 380 600 1,917 781 6,210	144, 222, 275	94,707 18,976 106,641 11,148 20,857 38,141 61,835 222,104	100,863,405 13,595,331 23,248,775 56,003,183 91,239,185 257,233,327	2,432,429,975 597,396,238 65,440,053 176,130,246 29,389,246 34,293,465 45,384,362 243,258,350 523,139,599 304,581,449 13,007,989	1,997,350,385 240,590,146 143,528,945 186,881,746 31,802,504 43,517,866 110,563,598 164,689,298,628,251,154 433,129,753 14,395,355	363,011,970 61,191,750 77,811,331
1930.							
Totals. Food. Food. Drink and tobacco. Clothing. Personal utilities. House furnishings. Books and stationery vehicles and vessels. Producers' materials. Industrial equipment. Miscellancous.	8,304 620 2,017 373 592 1,943 766 6,607	204,039,846 231,366,990 50,613,454 74,357,090 148,509,793 306,354,979 1,857,834,835 1,835,713,531	86,279 18,365 94,086 9,445 19,328 38,222 62,871 203,750 108,510	82, 930, 475 20, 635, 959 87, 308, 105 11, 423, 383 20, 679, 759 56, 396, 315 84, 736, 739 222, 057, 875 145, 855, 520	507, 246, 850	26,395,606 38,780,585 106,053,275 144,000,318 518,717,241	745,854,406 186,694,400 298,878,500 50,416,097 65,818,150 150,051,129 311,309,244 947,835,546
Food. Breadstuffs. Fish. Fruits and vegetables Meats. Milk products. Oils and fats. Sugar industries. Infusions. Miscellaneous.	699 311 116 2,724 6	188,567,776 30,827,607 46,135,025 62,003,021 58,588,836 885,412	10,558 10,651 9,547 12,830	4,302,854 5,634,355 12,442,953 14,138,308 144,129	597, 248, 859 188, 406, 573 21, 081, 489 26, 136, 779 130, 705, 768 83, 081, 801 219, 911 31, 626, 935 17, 328, 532 8, 659, 062	102,621,763 11.891,819	745,854,466 291,028,336 32,973,308 43,093,752 166,415,993 126,623,532 440,375 44,290,992 24,378,447 16,619,671
Prink and Tebacco Beverages, alcoholic	620 88		18 ,36 5 6,607	29,635,959 9,192,568	53,721,019 23,150,793	132,973,381 59,296,157	186,694,400 82,446,950
Beverages, non- alcoholic Tobacco	429 103	23,492,764 51,376,115	2,853 8,905	3,605,680 7,837,711	6,283,492 24,286,734	12,292,172 61,385,052	18,575,664 85,671,786
Clething	2,017 179 226 824 47 159	28, 162, 582 12, 807, 807 72, 601, 882 3, 020, 539	13,922 3,437 38,065 1,599	12,858,062 4,272,725 85,560,756 1,232,155 4,279,161	20,521,726 9,753,282 74,305,087 2,244,124 6,711,261	151,514,413 19,957,185 7,606,310 58,063,441 1,813,405 7,651,073	40,478,911 17,359,592 132,368,528 4,057,529 14,362,334
Knitted goods Waterproofs Miscellaneous tertiles, n.e.s	167 17	65,047,351 1,024,347	18,570 272	15,057,147 309,352	25,509,913 487,186	28,608,011 496,135	54, 117, 924 983, 321 35, 150, 361
E-V-D+	""		,	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for 1926-39 and in Detail for 1939—concluded.

Purpose Heading.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
	No.	<u> </u>	No.	-	\$	\$	- 5
Personal Utilities Jewellery and time-	373	50, 613, 454	9, 445	11,423,383	23,820,489	26,595,688	50,416,097
Recreational supplies.	102 68			3,521,896 2,793,371	3,822,462 5,400,680	5,666,822 5,405,940	9,489,284 10,806,620
Personal utilities, n.e.s	203	28, 238, 354	4,276	5,108,116	14,597,847	15,522,846	30, 120, 193
House Furnishings	592	74,357,080	19,328	20,679,759	27,037,565	28,780,585	65,818,150
Books and Stationery	1,943	148,509,793	38,222	56,396,315	43, 397, 854	106,053,275	150,051,129
Vehicles and Vessels	766	306,354,979	62,871	84,736,739	167,308,926	144,000,318	311,309,244
Producers' Materials Farm materials Manufacturers' mater-	14	1,857,834,835 4,139,498		222, 0 57,875 262,928	429,118,305 1,647,478	518,717,241 857,095	947,835,546 2,504,573
ials	1,054 4,917 622		70,234	62, 147, 157	274,074,375 125,173,512 28,222,940	353,740,850 127,285,475 36,833,821	627,815,225 252,458,987 65,056,761
Industrial Equipment Farming equipment.	64	1,835,713.531 98,804,276	108,510 7,440	145,855 520 9,597,830	256,513,915 11,446,761	392,365,334 15,637,764	
Manufacturing equip- ment	186 95 287		1,120	1,481,991	18,566,515 999,489 10,433,481	36,315,004 3,148,696 19,661,280	4, 148, 185
Lignt, heat and power equipment General equipment		1,412,871,866 207,157,323			137,048,768 78,018,901	232,370,596 85,231,994	
Miscellaneous	108	29,828,335	3,583	4,068,636	10,855,0 9 2	12,378,815	23,233,907

Subsection 3 .- Manufactures Classified by Origin of the Materials.

Classification of Manufacturing Production According to the Origin of the Materials Worked Upon.—The principal statistics of the manufactures of Canada, classified upon the basis of "origin", are presented in Table 9 for the years 1926 to 1930. By this means Canadian manufacturing production may be analysed from a new angle, one by means of which interesting comparisons may be made with the external trade classification according to origin.

The distinction made between farm materials of Canadian and foreign origin is based on whether the materials are indigenous to Canada rather than their actual source. Thus the industries included in the foreign origin classes are those depending upon materials which cannot be grown in Canada such as tea, coffee, spices, cane sugar, rice, rubber, cotton, silk, etc., but it should be understood that industries included in the Canadian origin classes may be using large quantities of imported corn, fruit, tobacco, hides, wool, etc.

While the period reviewed in the following table only covers the short space of the four years from 1926 to 1930, interesting changes have taken place in the relative importance of the industries based on materials from the different origins. Since the purpose of such a comparison is to discover the relative importance of the manufacturing work done upon materials from the different origins, the figures of net value of products or the value added to the raw materials by the manufacturing processes will give a more accurate measure of the importance of the industrial groups than the figures of gross value of products.

The values added in the manufacture of materials of mineral origin in 1930 represented 34.5 p.c. of the total value added by manufacture in all industries. This is an increase of 1.5 p.c. since 1926. The second largest group from the point of view of value added is that of farm origin which accounted for 28.5 p.c. of the total value added in 1930. This group remained practically stationary, having increased only 0.1 p.c. since 1926. The central electric stations group also bettered its position as compared with 1926, the percentages of the totals being 5.9 in 1926 and 7.1 in 1930. On the other hand, the values added by the industries of the forest group declined from 22.6 p.c. of the total in 1926 to 20.4 p.c. in 1930. The increase during the period under review in the relative importance of the industries of the mineral group was probably due to a number of influences. The expansion of the motor vehicle industry, the rapid growth in the use of electrical equipment, increasing activity in construction which absorbed large quantities of steel, cement and various other manufactured mineral products, and the development of metallurgical plants in Canada were some factors in the growing importance of the mineral group of industries. Another factor in this trend has been the growing appreciation and development of the wealth of the mineral resources of Canada. Not only have the various mining activities made the raw materials for mineral industries more readily available, but those activities have also required large quantities of machinery. electrical apparatus and other finished products of mineral origin.

In the year 1930, the industries of the mineral group exceeded those of any other group in the net value of products with 34.5 p.c. of the total, as compared with 28.5 p.c. for the farm and 20.4 p.c. for the forest origin groups. These three principal groups stood in the same order of importance with regard to employees engaged and salaries and wages paid. In the matter of capital invested the mineral group also led with 30.7 p.c. of the total, followed by the forest group with 23.2 p.c., central electric stations with 21.9 p.c., and the farm group with 18.6 p.c.

9.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material Used, 1926-30.

Origin.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages	Coet of Materials.	Net Value of Products.	Gross Value of Products.
1926.	No.	-	No.			•	
Totals		3,981,569,590		#59 B50 699	1 796 494 100	1 440 615 624	3,221,269,231
Farm origin—	22,000	9,001,000,000	901,993	*******	T-14-C-104-E-11E-W	1,120,010,000	3,441,463,461
(a) From field crops.	4,697	565,932,312	99,200	95,403,666	486,522,508	286,500,720	773,023,228
Canadian origin.	4.434					187,256,154	486,709,022
	263						286,314,206
Foreign origin(b) From animal hus-		242,898,449	43,183	20,000,000	187,069,640	99,244,566	200,014,200
		258,779,323	68.362	71 075 140	24 042 050	190 617 701	475,760,979
bandry	4,149					138,517,721 133,483,533	
Canadian origin	4,137			69,690,146			467,253,826
Foreign origin	12	10,019,519	2,423	1,985,000	3,472,965	5,034,188	8,507,153
(c) Totals, Farm Origin Canadjan origin Foreign origin	8,84 4 8,571 275	571,793,667 252,917,968	121,956 45,606	124,409,952 42,668,860	633,223,161 190,542,605	320,739,687 104,278,754	1,248,784,207 953,962,848 294,821,359
Wild life origin	232						
Marine origin	831	28,868,071	17,408	5,622,837		14,156,635	
Forest origin	6,710			159,969,652	260,039,864	337,511,793	697,551,657
Mineral origin		1,200,704,022		226,802,705	489,898,292	492,204,727	982,103,019
Mixed origin	1.748					125,503,372	245,930,163
Central electric stations	1,057	756,220,066	13,406	19,943,000	-	88,933,733	88,933,733
1927. Totals Farm origin—	22,936	4,337,631,558	6 18, 93 3	693,932,728	1,758,789,334	1,635,923,936	3,394,713,270
(a) From field crops.	4.977	613, 855, 706	104,850	103,990,849	495, 122, 606	332,027,953	827, 150, 559
Canadian origin	4,683				312,675,963		
Foreign origin	294				182.446.643		
52230—28		,,	,		,		

Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material Used, 1926-30—continued.

							
Origin.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1927.—concluded.	No.	\$	No.	\$	\$	\$	\$
(b) From animal hus- bandry Canadian origin Foreign origin	4,007 3,993 14	283,449,879 261,122,061 22,327,818	67,241	73,587,671 71,247,700 2,339,971	336,059,831 332,043,200 4,016,631	151,765,691 146,211,408 5,554,286	487,825,522 478,254,605 9,570,917
(c) Totals, Farm Origin Canadian origin Foreign origin	8,984 8,676 308	8 97,305,5 85 619,935,761 277,369,824	174,981 125,725 49,256	177,578,52 0 129,730,842 47,847,678	186,463,274	361,750,692	1,314,976, 081 1,006,469,855 308,506,226
Wild life origin	3,232 1,836	14,489,527 24,454,482 1,020,144,236 1,268,521,442 245,891,001 866,825,285	180,365 78,564	4,588,689 5,373,951 166,921,448 239,692,970 76,830,335 22,946,315	197,368,048 127,646,986	9,413,528 12,719,763 355,741,746 528,034,653 142,187,305 104,033,297	626, 506, 011 1,025,402,701 269, 834, 291
1928. Totals	23,379	4,780,296,049			1,919,438,703	l	
(a) From field crops. Canadian origin Foreign origin	295	654,648,894 398,072,152 256,576,742	110,502 62,843 47,659	110,960,496 63,285,079 47,675,417	331,757,735	363,530,939 247,558,176 115,972,763	877,012,440 579,315,911 297,696,529
(b) From animal hus- bandry Canadian origin Foreign origin	3,946 3,930	296,631,572 270,471,869 26,159,703	72,592 68,659 3,933	72,766,657	365,750,609 361,111,892 4,638,717	153,788,029 147,529,473 6,258,556	519,538,638 508,641,365 10,897,273
(e) Totals, Farm Origin Canadian origin Foreign origin	8,981 8,670	668,544,021	131,502	187,168,762 136,061,736 51,116,966	879,232,110 692,869,627 186,362,488	517,318,968 395,087,649 122,231,319	1,3 95,551,678 1,087,957,276 308,593,802
Wild life origin	7,241 3,256 1,902	26,941,283 1,155,561,948 1,411,098,818 263,559,650	15,434 5 157,153 5 198,676 6 84,001	5,261,096 178,151,066 272,345,046 83,493,533	5 20,578,767 3 292,149,841 5 574,473,014 7 138,878,454	15,688,965 387,224,205 620,502,715	36,267,732 679,373,546 1,194,975,729 295,712,459
1929. Totals	23,597	5,083,014,75	694,434	813,049,84	2,032,020,976	1,997,350,36	4,029,371,340
Farm origin— (a) From field crops Canadian origin. Foreign origin	298	436,282,84	67,234	115,201,293 67,235,536 47,965,763	496,842,580 0 326,292,523 2 170,550,053	1 272,019,338	889,075,246 598,311,861 290,763,385
(b) From animal hus bandry Canadian origin, Foreign origin	3,873 3,850	272,178,70	71,818 67,446 7 4,372	73, 105, 46	9 361,854,623 3 355,763,503 6 6,091,12	8 151,930,820) 507,694,328
(c) Totals, Farm Origin Canadian origin. Foreign origin	9,064 8,74	1 997,663,52 3 708,461,54 1 289,201,97	3 186,054 9 134,680 4 51,374	1 92,132,55 140,340,99 51,791,55	3 682,056,024	552,548,445 423,950,155 128,598,28	2 1,411,245,649 8 1,106,006,184 4 305,239,465
Wild life origin	7,353 7,353 3,211 1,978	28,644,44 1,148,558,24 1,550,662,90	2 163,863 2 163,863 8 218,879 1 89,340	304,027,80 90,818,18	7 313,088,964 3 678,683,200 2 147,206,924	1 409, 180, 102	1 34,966,260 2 722,269,066 5 1,392,499,868
1930. Totals	24,020	5,203,316,76	644,439	1		1,761,986,72	3,428,970,628
Farm origin— (a) From field crops Canadian origin. Foreign origin	4,986	6 442,807,09	4 105, 192 2 65,376 2 40,216	102,726,93 63,794,72 38,932,21	5 405,562,923 1 279,881,769 4 125,681,15	9 250,225,71	5 530,107,484
(b) From animal hus bandry Canadian origin Foreign origin	3,749	358,475,77	7 02,203	70,062,90	6 297,742,31	155,591,21 145,415,94 10,175,26	8 435,524,931

 Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material Used, 1926-39—concluded.

Origin.	Estab- lish- ments.	Capital.	Em- ployees,	Salaries and Wages.	Cost of Materials.	Net Value of Products,	Gross Value of Products.
1930.—concluded.	No.	\$	No.	1	*	\$	*
(e) Totals, Farm Origin Canadian origin Foreign origin	8, 976 8,659 317	701,282,869		129, 139, 037	7 03,305,234 569,990,752 133,314,482		
Wild life origin	3,400 1,972	12,807,807 30,827,607 1,208,835,180 1,596,294,958 249,576,661 1,138,200,016	205,035 81,063	168,769,271	21.081,489 265,842,844 547,099,544 119,901,509	11,891,819 359,708,400	17,359,592 32,973,308 625,551,244 1,155,197,527 266,829,935 126,038,145

Subsection 4.-The Forty Leading Manufacturing Industries.

There has been little change from 1929 in the order of the ten leading industries arranged by gross production although there has been an appreciable decrease in the value of production in nearly every case. In 1930 pulp and paper was again in the lead, followed by slaughtering and meat-packing, and flour and grist-mill products, as in 1929, but central electric stations, which in the earlier year ranked fifth, was in fourth place in 1930. The automobile industry fell from fourth place in 1929 to ninth place in 1930 with a reduction of nearly 43 p.c. in the value of gross production. The electrical apparatus and supplies industry improved its position slightly.

On the basis of net value, or value added by manufacture, the order of importance of the industries in 1930 was very different from that based on gross values. The pulp and paper industry was foremost in this respect also, but it was followed by: central electric stations; electrical apparatus; tobacco, cigars and cigarettes; printing and publishing; and non-ferrous metal smelting in the order given. In salaries and wages paid the pulp and paper industry is followed by: railway rolling stock, sawmills, central electric stations, printing and publishing, and electrical apparatus, in the order named. Tables 10, 11 and 12 which follow show the forty leading industries for 1930 classified according to gross value of the products, the net value of products, and salaries and wages paid.

 Principal Statistics of Forty Leading Industries, Classified According to the Gross Value of the Products, 1930.

ġ	Tadustas	Estab-	C1	Em-	Salaries	Cost	Values of	Producte.
_	Industry.	lish- ments.	Capital.	ployees.	and Wages.	Materials.	Net.	Gross.
		No.		No.	\$	•	\$	\$
1	Pulp and paper	109	714,437,104	33,207	45,774,976	81,992,255	133,681,991	215,674,246
- 1	mest-packing Tour and grist-mill	76	60,778,996	9,290	12,114,667	129,004,327	35,025,626	164,029,953
- 1.	products	1,277	62,617,007	5,923	6,679,113	119,677,686	25,178,260	144,855,946
- 1	tions		1,138,200,016 181,116,933		27, 287, 443 28, 512, 901	72,956,762	126,038,145 48,186,223	126,038,145 121,142,985
6 E	Butter and cheese Railway rolling stock	2,698		11,980	13,071,916 37,625,050		32,458,948	
	Electrical apparatus and supplies				26, 260, 004	43,111,629	,,	104, 577, 790
	Automobiles Non-ferrous metal	16			19,473,782	66,924,019	34,753,468	101,677,487
Ţ	emelting and refin-	14	175.010.686	8,626	13,796,124	45,310,472	55,635,664	100.946.136

10.—Principal Statistics of Forty Leading Industries, Classified According to the Gross Value of the Products, 1930.—concluded.

=				····				
ć	Industry.	Estab- lish-	Capital.	Em-	Salaries and	Cost	Values of 1	Products.
No.		menta.		ployees.	Wages.	Materials.	Net.	Gross.
	•	No.	\$	No.	\$	\$	\$	\$
	Petroleum products Tobacco, cigars and	28	70,334,381	5, 134	8,190,130	71,800,429	19,986,776	91,787,205
13	cigarettes Castings and forgings	103 340	51,376,115 100,318,189	8,905 20,499	7,837,711 25,871,261	24,286,734 28,262,602	61,385,052 45,971,069	85,671,786 74,233,671
- 1	Rubber goods, in- cluding footwear Bread and other bak-	47	69,164,512	15, 163	15,895,479	28,821,759	44,930,914	73,752,673
Ė	ery products Printing and publish-	2,697	51,914,170	17,736	19,444,533	36,582,843	37,012,051	73,594,894
Į	ing	776	66,860,624	17,063	26,937,052	15,993,916	56,019,255	72,013,171
-	factoryBiscuits, confection-	455	23,432,441	'	16,483,011		26,056,597	61.815,948
19	ery, chocolate, etc. Breweries	280 73	54,406,093 67,637,142	12,291 4,642	11,104,668 6,756,684	25,044,901 16,534,273	33,014,701 40,986,816	58,059,602 57,521,089
21	Hosiery, knitted goods and gloves Machinery	167 174	65,047,351 69,454,103	18,570 11,044	15,057,147 15,089,887	25,509,913 18,326,621	28,608,011 35,422,861	54,117,924 58,749,482
22	Primary iron and	49	112,079,926	9,723	14,934,325	22,765,648	29,823,287	52,588,935
23 24	Cotton yarn and eloth Sheet metal products	33 155	78,542,804 53,368,130	16,999 8,728	13,004,793 10,452,887	27,975,574 25,090,342	20,717,304 21,977,137	48,692,878 47,067,479
25	Sugar refineries Clothing, men's fac-	8	43,855,155	2,281	3,560,260	30,610,701	12,325,021	
	tory Boots and shoes,	192	26, 294, 787	10,836	11,542,990	21,533,514	19,285,909	40,819,423
	Printing and book-	179	28,162,582	l	12,858,062			40,478,911
29	binding Furniture and uphol-	905	38,837,176		15,663,048			37,941,787
30	coke and gas prod-	366 41	41,495,827 89,987,235	i i	12,774,596 5,864,802		23,048,745 19,510,495	36,866,195 36,592,859
31	Planing mills, sash and door factories.	728	49,383,121		10,981,763			36,483,594
32	Fish curing and pack-		30,827,607			" ' ' ' '		32,973,308
33	Fruit and vegetable canning, preserv-							
34	ing, etc	249	35,119,475		4,155,595	ļ		
35	ments. Bridge and structural	57	98,684,828		9,564,049	1		26,902,139 26,055,783
36	steel work Dyeing, cleaning and laundry work	13 387	28,922,951 28,351,092	'	8,686,062 12,141,767	Į.		l
37	Brass and copper pro-		· '		6,742,752		'	l
2 8	Furnishing goods, men's	158	17,597,012	8,965	6,437,718	14,790,909	10,363,401	25, 154, 314
39 40	Paints, pigments and	15	61,533,825	l .	2,435,934			24,925,861 23,966,500
	varnishes	78	26,212,828	2,885	4,307,998	11,094,485	12,872,067	23,900,80
	Totals, Forty Lead- ing Industries	18,510	 4,278,472,371	500,725	569,675,744	1,350,776,368	1,345,214,245	2,715,990,618
	Grand Totals, All Industries	24,020	5, 20 3,316,7 6 0	644,439	736,092,786	1, 66 6, 5 83 ,5 02	1,761 ,9 86,726	3,428,970,626
	Percentages of forty leading industries to all industries	77-06	82.22	77.70	77-39	81 - 03	77-48	79-21

11.—Principal Statistics of Forty Leading Industries, Classified According to the Net Value of the Products, 1939.

=							·	
No.		Estab-		Em-	Salaries	Cost	Values of	Products.
Z	Industry.	lish- ments.	Capital.	ployees.	and Wages.	of Materials.	Net.	Gross.
_	·	No.		No.	\$	2	1	*
1	Pulp and paper Central electric sta-	109	714,437,104	33,207	45,774,976	81,992,255	133,681,991	215,674,246
	tions Electrical apparatus	1,034	1,138,200,016	17,858	27, 287, 443	-	126,038,145	126,038,145
	and supplies	149	102,979,896	20,568	26, 260, 004	43,111,629	61,466,161	104,577,790
	Tobacco, cigars and cigarettes Printing and publish-	103	51,376,115	8,905	7,837,711	24,286,734	61,395,052	85,671,786
	ing Non-ferrous metal	776	66,860,624	17,063	26,937,052	15,993,916	56,019,255	72,013,171
•	emelting and refin-	14	175,010,686	8,626	13,796.124	45,810,472	55,635,664	100,946,136
7	Sawmills	3,531	181,116,933	43,457	28,512,901	72,956,762	48, 186, 223	121,142,985
	Castings and lorgings	340	100, 318, 189	20,499	25,871,261	28, 262, 602	45,971,069	74,233,671
•	Rubber goods, in-						i	
	cluding footwear	47	69,164,512 95,785,640	15,163 25,952	15,895,479	28,821,759	44,930,914 44,633,256	73,752,673 104,922,701
10	Railway rolling stock	37	95,785,640	25,952	37,625,050	60,289,445	44,633,256	104,922,701
щ	Breweries	73	67,637,142	4,642	6,756,634	16,534,273	40,986,816	57,521,089
12	Bread and other bak-	2,697	51 014 170	17,736	10 444 522	26 492 942	97 A19 A51	73,594,894
13	ery products	174	51.914,170 69,454,108	11,044	19,444,533 15,089,887	36,582,843 18,326,621	37,012,051 35,422,861	53,749,482
	Slaughtering and	113	(a, 404, 100	11,019	10,000,001	10,020,021	90,722,001	00,110,104
**	meat-packing	76	60,778,996	9,290	12, 114, 667	129,004,327	35,025,626	164,029,953
15	Automobiles	16	90,671,678	12,541	19,473,782	66,924,019	34,753,468	101,677,487
	Biscuits, confection-	l),,					
	ery, chocolate, etc.	286	54,406,093	12,291	11,104,668	25,044,901	33,014,701	58,059,602 113,018,789
17	Butter and cheese	2,698	50,502,406	11,980	13,071,916	80,559,841	32,458,948	113,018,789
18	Primary iron and	l	l <u></u>					
	ateel	49	112,079,926	9,723	14,934,325	22,765,648	29,823,287	52,588,935
19	Hosiery, knitted	ا				AF 700 A10	80 000 011	
-	goods and gloves	167	65,047,351	18,570	15,057,147	25,509,913	28,608,011	54,117,924
74	Clothing, women's	455	23,432,441	16,782	16,483,011	35,759,351	26,056,597	61,815,948
*1	Printing and book-	100	20,302,311	10,102	10,100,011	49,103,001	20,000,551	11,010,010
~-	binding	905	38,837,176	11,567	15,663,048	11,942,885	25,998,902	37,941,787
22	Furniture	366	41,495,827	11,980	12,774,596	13,817,450	23,048,745	36,866,195
23	Dyeing, cleaning and	l	,,	,	12,111,000	25,010,100	,,,,,,,	***************************************
	laundry work	387	28,351,092	12.732	12,141,767	2,807,911	22,664,753	25, 472, 664
24	Sheet metal products	155	53,368,130	8,728	10,452,887	25,090,342	21,977,137	47,067,479
25	Flour and grist-mill						l .	
	products	1,277	62,617,007	5,923	6,679,113	119,677,686	25,178,260	144,855,946
24	Cotton yarn and	ا				DE 055 554		10 440 000
	cloth	33 28	78,542,804	16,999	13,004,793	27,975,574	20,717,304	48,692,878
27	Petroleum products	28	70,334,381	5,134	8, 190, 130	71,800,429	19,986,776	91,787,205
<i>6</i> 0	Boots and shoes,	179	28, 162, 582	13,922	12,858,062	20,521,726	19,957,185	40,478,911
28	leather Coke and gas pro-	11.9	20, 102, 302	10,022	12,000,002	20,021,120	10,000,100	30,3,0,011
	ducts	41	89,987,235	3,970	5,864,802	17,082,364	19,510,495	36,592,859
30	Clothing, factory,	i	l			1		
	men's	192		10,836	11,542,990	21,533,514	19,285,909	40,819,423
31	Distilleries	15		1,965	2.435.934	6,616,520	18,309,341	24,925,861
37	Coment	11	59,210,737	2,317	3,172,198	-	17,713,067	17,713,067
33	Planing mills, sash	l	l	l			l	
	and door factories,	728	49,333,121	9,651	10,981,763	19,220,215	17,263,379	36, 483, 594
24	Agricultural imple-	'20	48,555,121	3,001	10,801,100	19,220,210	11,200,018	70, 100, 071
01	ments	67	98,684,828	7,405	9,564,049	11,353,523	15,548,616	26, 902, 139
35	Acids, alkalies and		l ' '	l		[
	aalts	17		2,409	3,502,834 6,717,192	4,712,471	15,399,131	20,111,602
36	Hardware and tools.	133	32,259,387	6,220	6,717,192	6,713,290	14,760,865	21,474,155
37	Bridge and structural				* *** ***			
•	steel work	13	28,922,951	4,943	8,686.062	12,549,435	13,506,348	26,055,783
40	Paints, pigments and	78	00 010 000	0.005	4 207 000	11 002 425	12,872,067	92 086 509
39	varnishes	'ŝ	26,212,828 43,855,155	2,835 2,281	4,307,998 3,560,260	11,094,435 30,610,701	12,325,021	23,966,502 42,935,722
	Sugar refineries Medicinal and phar-		20,000,100	2,201	0,000,200	30,010,101	12,020,021	12,000,162
=4	maceutical prepa-	ļ	I	l		l	l	ŧ
	rations	144	18,843,192	2,833	3,663,307	5,563,081	12,205,725	17,768.806
	l					<u></u>		
	Totals	17,592	4,329,335,633	483,547	565,092,356	L,298,720,863	1,379,339,122	2, 6 78, 6 59, 9 8 5
	Grand Totals, All				#90 400 PCC	1 000 009 000	1 701 000 700	2 490 670 200
	Industrics	Z1, W20	5,203,316,760	644,439	734,992,766	1,646,353,392	1,761,986,726	a, 420, 3 (V, 425
	Percentages of forty leading industries					l	l	
	to all industries	73.2	83.2	74-6	76-8	l 77-9	78-3	78-1
	* ** SET HETEFT 168****	10.2	. 00.2	1 12.0	10.0		, ,,,,,	. ,,,,,

12.—Principal Statistics of Forty Leading Industries, Classified According to Salaries and Wages Paid, 1930.

_				TARECO I	aid, 2000.			
انہ	T. 3	Estab-	C:4-1	Em-	Salaries	Cost	Values of F	roducts.
No.	Industry.	lish. ments.	Capital.	ployees.	and Wages.	of Materials.	Net.	Gross.
_		No.	\$	No.	3	3	\$	\$.
1	Pulp and paper Railway rolling stock	109 37	714,437,104	No. 33,207 25,952	45,774,976 37,625,050	81,992,255 60,289,445		215,674,246
3	Sawmille	3,531	95,785,640 181,116,933	43,457	28,512,901	72,956,762	44,633,256 48,186,223	104,922,701 121,142,985
	Central electric sta- tions		1,138,200,016	17,858	27,287,443		126,038,145	126,038,145
5	Printing and publish-			· I				
ě	ing Electrical apparatus	776	66,860,624	17,063	26,937,052	15,993,916	56,019,255	72,013,171
_	and supplies	149	102,979,896 100,318,189	20,568 20,499	26, 260, 004	43,111.629	61,466,161	104,577,790
8	Castings and forgings Automobiles	16	90,671.678	12,541	25,871,261 19,473,782	28,262,602 66,924,019	45,971,069 84,758,468	74,233,671 101,677,487
9	Bread and other bak-	0.005		17,736		36,582,843	37,012,051	70 704 504
10	ery products Clothing, factory,	2,697	51,914,170		19,444,533		· · · ·	73,594,894
	women's Rubber goods includ-	455	23,432,441	16,782	16,483,011	35,759,351	26,056,597	61,815,948
	ing foot-wear	47	69,164,512	15,163	15,895,479	28,821,759	44,980,914	73,752,673
1,3	Printing and book- oinding	905	38,837,176	11,567	15.663.048	11,942,885 18,826,621	25,998,902 35,422,861	37,941,787 53,749,482
13	Machinery	174	69,454,103	11,044	15,663,048 15,089,887	18,826,621	35,422,861	53,749,482
	Hosiery, knitted goods and gloves.	167	65,047,351	18,570	15,057,147	25,509,913	28,608,011	54,117,924
15	Primary iron and	49	112,079,926	9,723	14,934,825	22,765,648	29,823,287	52,588,935
16	Non-ferrous metal	48	112,018,920	9,120	14,301,020	22,100,010	20,000,001	V2, VOO, 200
	smelting and re-	14	175,010,686	8,626	12 708 104	45,310,472	55 625 664	100 Q46 12A
17	fining Butter and cheese	2,698	50,502,406 78,542,804	11.980	13,796,124 13,071,916 13,004,793	80,559,841	55,635,664 32,458,948 20,717,304	100,946,136 113,018,789
18	Cotton yarn and cloth	33	78,542,804	16,999	13,004,793	27,975,574	20,717,304	48,692,878
13	Boots and shoes, leather	179	28, 162, 582	13,922	12,858,062	20,521,726	19,957,185 23,048,745	40,478,911
20	Furniture	366	41,495,827	11,980	12,774,596	13,817,450	23,048,745	36,866,195
	Dyeing, cleaning and laundry work	387	28,351,092	12,732	12,141,707	2,807,911	22,664,753	25,472,664
	Slaughtering and meat packing	76	60,778,996	9,290	12,114,667	129,004,327	35,025,626	164,029,953
23	Clothing, factory, men's	192	26,294,787	10,836	11,542,990	21,533,514	19,285,909	40,819,423
24	Biscuits, confection ery, chocolate, etc.	-		I I	11,104,668	25,044,901	33,014,701	58,059,602
25	Planing mills, sash &			1 1				
26	door factories, etc. Sheet metal products	728 155		9,651 8,728	10,981,763 10,452,887	19,220,215 25,090,342	17,263,379 21,977,137	36,483,594 47,067,479
27	Agricultural imple	3			9,564,049	11,353,523	15,548,616	26,902,139
28	ments Bridge and structura	57		1 1		1	' :	
29	steel work	.[13			8,686,062 8,190,130	12,549,435 71,800,429	13,506,348 19,986,776	26,055,783 91,787,205
36	Tobacco, cigara and	il .		1 1				
31	cigarettes	. 108	51,376,115	8,905	7,837,711		!	85,671,786
	pairs	. 43	31,597,501 67,637,142	5,139	7,145,593	5,060,973	11,808,949	16,869,922 57,521,089
32 32	Breweries	. 73	67,637,142	4,642	6,756,634		40,986,816	
	ducts	. 117	26,820,527	5,297	6,742,752	13,355,186	12,057,039 14,760,865	25,412,225 21,474,155
34	Hardware and tools Furnishing goods	1.	1	1 1	6,717,192	l	!	
34	men's	. 158	17,597,012	8,965	6,437.718	14,790,909	10,363,401	25,154,310
	products	[1, 37]	62,617,007	5,923	6,679.113	119,677,686	25,178,260	144,855,946
3	duets	. 4:	89,987,238	3,970	5,864,802	17,082,364	19,510,495	36,592,859
3	Engraving, stereo- typing and electro	.]				l .		
	typing	.] 70	9,806,326	2,807	5,025,485	1,456,175	7,272,564	8,728,739
3	domestic clay	. 20:	33,430,777	5,026	4,961,130	-	10,593,578	10,593,578
#	Boxes and bags of paper		6 21,667,586	5,062	4,921,735	10,451,641	10,384,509	20,836,150
	Totals	I——	2 4,209,285,058	498,203	579,684,238	1,285,238,539	1,352,994,810	2,638,233,349
	Grand Totals, Al	1					- Ned 000 000	2 490 614 610
	Industries Percentages of fort	. 24,02	5,203,316,760	644,430	736,092,760	1,666,563,907	1,761,986,726	0,940,97 0 ,020
	leading industries	±	,	,	70 0	77.1	76-8	76.9
-	to all industries	. 75-	1] 80-9	9 77-3	78-8	<u> </u>	14.0	1

The Forty Leading Industries in 1931.—The completion of part of the compilation of the Census of Manufactures for 1931 permits the inclusion, as Table 12A of the forty leading industries in that year. It will be noticed that, compared with 1930, there has been a considerable readjustment in the order of the ten leading industries when arranged according to gross production, although there has been an appreciable decrease in the value of production in nearly every case; in the former year they all had gross productions of over \$100,000,000, whereas in 1931 only the three leading industries had gross productions exceeding this figure. In 1932 pulp and paper was again in the lead, followed by central electric stations, slaughtering and meat packing, non-ferrous metal smelting, and flour and feed mills, which in 1930 were in fourth, second, tenth and third places, respectively. The automobile industry fell from ninth place in 1930 to fourteenth place in 1931 with a reduction of over 41 p.c. in the value of gross production.

On the basis of net values, or value added by manufacture, the order of importance of the industries in 1931 was very different from that based on gross value. The central electric station industry was foremost in this respect, followed by pulp and paper; tobacco, eigars and eigarettes; printing and publishing; nonferrous metal smelting; and electrical apparatus and supplies. In salaries and wages paid, the pulp and paper industry is decidedly in the lead, being followed by railway rolling stock; printing and publishing; central electric stations; electrical apparatus and supplies; and castings and forgings, in the order given. Contrary to the general impression the central electric stations industry, which is first in net value of production—its cost of materials being negligible—ranks high in salaries and wages paid, being fourth in 1930 and third in 1931 in this respect.

12A.—Principal Statistics of the Forty Leading Industries, Classified According to the Gross Value of Products, 1931.

No.	Industry.	Estab- lish-	Capital.	Em-	Salariee and	Coet	Values of	Products.
Ż _		ments.		ployees.	Wages.	Materials.	Net.	Gross.
		No.		No,	•		\$	\$
1	Pulp and paper	103	630, 176, 540	26,669	34,792,013	63,947,678	110,786,276	174,733,954
	Central electric sta- tions.		1,229,988,951	17,014	26,306,956	-	122,310,730	122,310,730
	Slaughtering and meat packing Non-ferrous metal	147	62,481,905	9,294	11,626,678	91,276,842	26,319,855	117,596,697
	omelting	14			13,245,327 6,032,189	48,336,301 71,771,797	50,229,454 23,956,743	98,565,785 95,728,540
	Butter and cheese	1,265 2,676			12,259,926	64,661,837	31,066,561	95,728,398
	Electrical apparatus and supplies Petroleum products	163 32	100,057,945 68,136,281	18,207 4,122	22,474,319 6,214,745	32,385,342 50,617,742	49, 193, 253 25, 540, 902	81,578,595 76,158,644
,	Tobacco, cigare and cigarettes	105	50,194,202	100,0	8,096,769	21,448,879	53,477,275	74,926,154
10	Railway rolling stock Printing and publish-	38	97,484,985	21,773	28, 111,765	35,835,573	32,529,497	67,865,070
	ing Bread and other	764	65,573,014	16,918	26,375,668	14,029,548	51,670,574	65,700,122
	bakery products Sawmills	2,912 3,562	54,267,110 121,336,176		18,862,604 16,409,674	28,619,776 37,379,034	36, 198, 451 25, 390, 219	64,818,227 62,769,253
14	Automobiles Clothing, factory,	26		9,545	13, 113, 192	36,476,355	23, 197, 990	59,674,345
	women's Rubber goods, inclu-	471	21,430,983	15,648	15,018,195	30,955,973	23, 184, 797	54,140,770
-4	ding footwear	48	67,446,955	12,158	11,708,387	17,630,081	35,061,149	52,691,230

12A.—Principal Statistics of the Forty Leading Industries, Classified According to the Gross Value of Products, 1931—concluded.

=							· · · · · · · · · · · · · · · · · · ·	
No.	Industry.	Estab- lish-	Capital.	Em- ployees	Salaries and	Cost of	Values of	
_		ments.			Wages.	Materials.	Net.	Gross.
12	Castings and forg-	No.	\$	No.	\$		\$	\$
	ings	333	95,377,318	17,049	19,208,234	18,598,048	32,857,248	51,455,296
18	Biscuits, confection- ery, chocolate, etc.	282	51,530,443	12, 145	10,892,636	20, 207, 678	29,077,364	49,285,042
19	Breweries	80	63,140,211	4,679	6,601,528	13,289,689	35,766,050	49,055,739
20	Hosiery and knitted goods	161	67, 173, 774	17,698	13,948,570	22,052,418	25,705,2 8 5	47,757,703
21	Sugar refineries	8	87,691,433	2,265	3,307,780	29, 196, 494	14,765,567	43,962,061
22	Cotton yarn and cloth	34	74,023,179	15.802	12,362,032	22,231,449	20,904,974	43,136,423
23	Sheet metal products	157	52,352,956	7,988	9,265,806	20, 230, 852	18,808,153	39,039,005
	Primary iron and steel	5 3	104,512,104	8,026	11,072,054	15,291,414	21,619,831	36,911,245
25	Boots and shoes	184	25,844,168	14,150	12,340,283	17,949,804	18,675,761	36,825,565
26	Machinery	172	62,752,673	8,644	10,793,352	11,120,332	23,372,583	34,492,915
i	Clothing, factory, men's	180	21,599,892	9,701	9,585,462	18,362,813	15,587,270	33,950,083
28	Fruit and vegetable preparations	278	48, 152, 325	6,329	4,509,377	18,668,100	13,904,480	32,572,580
29	Printing and book- binding	971	36,832,215	11,189	14,604,194	10,250,998	22,287,630	32,538,628
30	Coke and gas prod- ucts	41	95,872,858	4,006	5,616,763	13,894,061	17,355,399	31,249,460
31	Furniture	372	36,657,497	10,007	10,047,027	10,588,707	16,546,464	27, 135, 171
32	Planing mills, sash and door factories.	67 3	40,790,104	7,952	8,346,474	13,708,622	12,515,851	26,219,473
33	Bridge and structural steel work	21	27,469,351	4,421	7, 143, 544	9, 132, 721	13,037,494	22,170,215
34	Coffee, tea and spices	59	13,500,659	1,639	2,251,103	14,384,811	7,602,446	21,987,257
35	Dyeing, cleaning and laundry work	407	25,621,564	11,772	10,671,675	1,968,029	19,056,655	21,024,684
36	Furnishing goods, men's	167	16,649,101	8, 139	5,787,221	11,534,873	9,443,605	20,978,478
87	Fish curing and pack- ing	662	19,085,513	4,268	2,761,423	11,920,834	6,906,059	18,826,893
38	Boxes and bags,paper	122	21,562,581	4,809	4,924.682	9,627,461	9,041,102	18,668,563
39	Painte, pigmente and varnishes	75	24 ,9 8 5,476	2,780	4,281,861	7,974,852	10,581,611	18,536,463
40	Silk and artificial silk	23	32,205,207	6,273	5,758,995	6,482,197	11,705,295	18,187,492
	Totals, Forty Lead- ing Industries	18,852	4,002,714,73?	428,364	476,725,368	99 3, 5 35,015	1,147,217, 5 03	2,1 49,752,91 8
	Grand Totals, Ali Industries		4,9 61,312,4 0 8	557,426	624,545,561	1,223,880,911	1,474,581,851	2,698,461,862
	Percentages of forty leading industries to all industries	76· 9 4	80-68	76-85	76-33	81 · 18	77.80	79-33

Section 3.—Provincial Distribution of Manufacturing Production.

Ontario and Quebec are the most important manufacturing provinces of Canada. Their combined production in 1930 amounted to \$2,735,000,000, or nearly 80 p.c. of the gross value of manufactured products of the Dominion. Of this amount Ontario contributed \$1,713,000,000 and Quebec \$1,022,000,000. The proximity of Ontario to the coal fields of Pennsylvania, the water-power resources of the two provinces and their nearness to the larger markets of Canada and the United States have all contributed to the above result. British Columbia had, in 1930, the third largest gross manufacturing production, \$241,000,000, and Manitoba the fourth, \$142,000,000. Alberta, Nova Scotia, New Brunswick and Saskatchewan followed in that order with gross production from \$94,315,000 to \$62,277,000, succeeded by Prince Edward Island with \$4,255,000.

Subsection 1.—The Manufactures of the Maritime Provinces, 1930.

Table 13 gives statistics of the leading industries of each of the Maritime Provinces for the year 1930. In Prince Edward Island the manufacture of butter and cheese, with a gross production in 1930 of \$\$45,417, was foremost, followed by fish-curing and -packing, with a gross production of \$\$31,585. Manufacturing in Nova Scotia and New Brunswick is, of course, to a considerable extent dominated by the steel industry in the former and the forest industries in the latter, although there is a large sugar refinery in each province. The pulp and paper industry with a gross value of production of \$12,614,177 in 1930 was the most important industry in New Brunswick, followed by sawmills with an output valued at \$8,564,-415. These two industries combined provided 33-4 p.c. of the gross manufacturing production of the province. In Nova Scotia the primary iron and steel industry was dominant with an output valued at \$11,814,234. Other leading industries in order of their importance being, fish-curing and -packing, pulp and paper, railway rolling stock, biscuits and confectionery, central electric stations, etc.

18.—Statistics of Ten Leading Industries of each of the Maritime Provinces, 1930.

Nors.—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are: in Prince Edward Island, tobacco, cigars and cigarettes, slaughtering and meat-packing, and railway rolling stock; in Nova Scotia, petroleum, sugar refineries, coke and gas products; in New Brunswick, sugar refineries and railway rolling stock. The statistics for these industries are included in the grand totals.

No.	Industry.	Estab- lish. ments.	Capital.	Em- ployees	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
		No.	\$	No.	\$	s	\$
1 2 4 5 6 7 8	Butter and cheese. Fish-curing and-packing. Central electric stations. Castings and forgings. Printing and publishing. Flour mills. Bread and other bakery products. Sawmills.	37 95 12 3 4 15 6 53	288, 186 189, 375 802, 711 367, 644 259, 272 82, 135 86, 365 140, 716	1,179 48 71 100 17 31	83, 108 93, 914 52, 325 65, 000 88, 530 9, 988 26, 446 16, 046	28,209 157,509 95,258	845,417 831,585 227,177 222,495 204,970 203,036 178,642 129,578
	Totals, Eight Leading Industries	225	2,216,404	1,648	435,857	1,716,173	2,842,990
	Grand Totals, All Industries	267	3, 441, 958	2.855	788, 106	2,546,827	4.254.966

PRINCE EDWARD ISLAND.

13.—Statistics of Ten Leading Industries of each of the Maritime Provinces, 1939—concluded.

NOVA SCOTIA.

Š.	Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
_		No.	\$	No.	\$	\$	\$
2	Primary iron and steel industries. Fish-curing and-packing Pulp and paper. Railway rolling stock. Biscuits, confectionery, chocolate,	228 6 3	21,508,717 3,901,261 14,592,897 6,527,091	3,856 721	2,572,564 1,235,088 1,103,799 643,343	5,148,628	11,814,234 7,602,659 4,893,891 4,770,666
6789	etc. Central electric stations. Sawmills. Butter and cheese. Printing and publishing.	11 85 471 30 33	4,978,822 25,805,233 2,423,515 1,146,846 2,266,242	760 2,811 297 714	1.111.193 956,622 676,109 308,381 863,541	1,792,072; 1,952,500 417,221	2, 172, 420
	Hosiery, knitted goods and gloves Totals, Ten leading Industries.	876	3,485,394 86,635,618		9,878,318		1,773,383
	Grand Totals, All Industries	1,302	133,671,163	21.063	17,537,690	44,506,178	85,802,92

NEW BRUINSWICK.

Pulp and paper Sawmills Central electric stations Fish-curing and-packing	7 308 40 162	49,789,447 21,253,028 27,278,902 1,882,479	2,469 4,619 420 1,960	2,869,262 2,222,118 479,193 306,377	5,505,007 5,672,218 1,642,854	12,614,177 8,564,415 2,806,573 2,688,014
5 Coffee and spices 6 Biscuits, confectionery, chocolate, etc.	5 7	1,659,985 2,230,403	612	172,820 459,048	2,065,377 1,107,696	2,404,545 2,393,021
7 Cotton yarn and cloth	4 8 35	4,863,173 637,188 1,053,452	1,260 136 184	906,568 135,251 194,089	1,228,211 1,682,522 1,317,804	2,158,973 2,007,486 1,811,623
10 Castings and forgings Totals, Ten Leading Industries	- 12 588	2,362,997 113,011,054	547 12,351	8,464,922	488,907 20,655,596	1,517,179 38,966,006
Grand Totals, All Industries	924	140,611,530	18, 422	11,988,441	33,897,264	68,468,262

Subsection 2.—The Manufactures of Quebec. 1930.

The pulp and paper mills of Quebec, the most important manufacturing unit in the province, produced goods to the gross value of \$109,241,510 in 1930. This exceeded by over \$34,000,000 the gross value of products of the tobacco, eigar and eigarette industry (\$75,056,846), which was followed by railway rolling stock works (\$49,427,008) and the output of central electric stations (\$43,201,265). These four industries were followed by sawmills, cotton yarn and cloth mills, women's factory clothing, non-ferrous metal smelting and refining, etc. A change took place in the ranking of some of the important industries of the province. The cotton yarn and cloth industry dropped from third place in 1929 to sixth place in 1930. This change was due to both the transfer of oilcloth and linoleum from this group to that of miscellaneous textiles, n.e.s. and a greatly reduced output. Other important changes were boots and shoes, which declined from eighth to thirteenth place and sawmills which advanced from tenth to fifth place.

The importance of the pulp and paper industry in Quebec is shown by a comparison with the industry throughout the Dominion. The Quebec industry, in addition to supplying about 11 p.c. of the total gross value of all products manufactured in the province, furnished nearly 51 p.c. of the products of pulp and paper mills throughout the country. The gross value of cotton yarn and cloth products

from Quebec mills formed over 70 p.c., the gross value of eigars and eigarettes formed 88 p.c., the value of railway rolling stock 47 p.c., and the value of the boot and shoe products over 58 p.c. of the Dominion totals for these products. Thus Quebec is an outstanding manufacturing province rather on account of her great individual industries than because of the diversification of her industrial activities.

14.—Statistics of Forty Leading Industries of the Province of Quebec, 1930.

Note.—Leading industries having fewer than 3 establishments are sugar refineries and bridge-building.

		Estab-			Salania.	Cont	
	Industry.	lish-	Capital.	Em-	Salaries and	Cost	Gross Value of
ģ	pictustry.	ments.	Çapıtaı.	ployees.	Wages.	of Materials.	Products.
H					magos.	Mary Mais.	Troducia.
_		No.	<u> </u>	 No.		8	s
			-		•	·	•
1	Pulp and paper	48	363,928,749	16.552	21,802,615	40,667,838	
ž	Tobacco, cigars and cigarettes	64	45,174,852	7.873	6,712,190	21,463,425	75,056,846
3	Railway rolling stock Central electric stations	10 136	44,680,988 445,381,055	11,608 4,444	17,017,929 6,541,919	29,976,596	49,427,008 43,201,265
*	Sawmills	1.334	55,534,068	12,177	5,463,460	23,084,564	34.349.164
ě	Cotton yarn and cloth	14	53,871,463	11,195	8,475,201	20,400,009	34,321,573
7	Clothing, factory, women's	200	10,582,242	7,597	7,128,309	17,825,044	30,055,139
Š	Clothing, factory, women's, Non-ferrous metal smelting and	200	20,002,111	.,	.,,		00,000,200
	refining	3	41,126,409	1,548	2,332,324	8,673,873	26,373,967
9	Clothing, factory, men's	126	14,912,591	6, 169	6,239,583	13,786,751	25,934,858
10	Slaughtering and meat-packing.	17	8,049,223	1,726	2,153,267	19,634,629	25,757,970
11	Butter and cheese	1,356	8,366,440	2, 100	1,487,031	20,184,653	25,469,594
17	Electrical spparatus and sup-		** *** ***	4 545	A AAR 010		A4 040 E4E
	Boots and shoes, leather	19 104	33,075,054	6,857	9,207,818 7,994,475	11,398,604	24,860,747 24,633,019
14	Flour and food mills	350	16,792,309 9,652,851	8,828 1,002	1,075,183	12,720,331	22,626,864
	Flour and feed mills	390	23, 109, 075	1,576	2, 186, 961	19,417,434 6,469,607	21,560,970
î	Bread and other bakery pro-	1	20, 100,010	1,010	2,100,701	0,400,001	21,000,010
	ducts	868	14,207,041	4,661	4,718,572	9,390,368	18,673,421
17	Castings and forgings	68	23,943,516	4,348	5,256.014	6,893,749	17,328,809
18	Printing and put lishing	69	16,284,143	4,408	6, 180, 005	4,048,082	17,212,349
19	Rubber goods, including foot-			i . I			
	wearPetroleum products	11	11,282,777	5,320	4,151,488	5,149,137	16,293,435
20	Petroleum products	6	15,215,501	962	1,627,834	12,476,338	15,853,065
21	Biscuits, confectionery, choco-	ا جمأ	41 550 444	9 AF0	A 702 401	0.054.994	11 000 02E
•	late, etc	53	11,552,144	3,358	2,503,465	6,651,334	14,299,835
22		6 27	19,956,998	867 2 534	935,954 4,714,267	2,843,332	13,419,753 13,343,827
**	Machinery	21	20,647,298	3,534	4,112,201	5,015,464	19,049,021
4=	glovesgoods and	41	15,793.682	4.586	3,353,623	6,954,344	13,335,532
25	Silk and silk goods	15	22,298,970 7,303,636 10,725,590	3,692	3.071,420	5, 107, 582	11,883,085
24	Furnishing goods, men's	71	7,803,636	4.282	2,690,150	6,470,190	11,079,241
27	Sheet metal products	19	10,725.590	2,042	2,368,341	6,470,190 5,368,137	10, 136, 720
28	Paints, pigments and varnishes.	18	11,815,766	1,068	1,557,211	4,764.486	10,009,086
29	Printing and bookbinding	255	8,729,355	3,053	3,950,664	2,970,180	9,486,758
39	Shipbuilding and repairs	5	11.775,121	2,515	3,516,095	2,366,627	8,798,004
31	Planing mills, such and door	282	10 040 800	2,394	9 515 507	4, 483, 861	8,427,583
10	factories	13	10,848,509 16,964,961	2,089	2,515,567 2,999,077	2,288,984	8,190,360
22	Primary iron and steel Dyeing, cleaning and laundry		10,803,801	2,113	A, 300, 011	2,200,004	8,180,000
-0	work	83	8,870,085	3.496	3, 198, 891	862,385	7,297,897
34	Hardware and tools	28	8,803,472	1,416	1,470,926	2,060,765	7,191.384
35	Miscellaneous textiles	5	9,529,848	903	1,215,262	3,162,663	
36	Cement	31	22,998,094	901	1,245,624	-	7,031,528
37	Furniture	71	6,330,699	2,346	2,459.832	2,591,696	6,983,494
38	Hate and care	65	2,680,081	1,924	1,902,332	3,276,379	6,644,072
39	Fur goods	70	5,675,486		1,629,567	3,890,762	6,547,660
40	Acids, alkalies and salts	3	17,979,898	871	1,182,581	2,051,495	6,541,202
	Totals, Forty Leading Indus-			l	404 040 000		045 AFN 646
	tries	5,943	1,506,449,535	157,674	176,312,977	376,771,648	845,957,646
	Grand Totals, All Indus-		4 500 544 000		A40 005 A50	400 044 000	1 000 000 000
	December of factor leading		1,727,064,388	A91,802	216,835,675	192,411,270	1,022,280,687
	Percentages of forty leading industries to totals of all in-			l			ļ
	dustries in the province	80-2	87.2	8.18	81.3	81.5	82-8
	Land to the province	""		1	•••	J. V	1
	Carrier in the province	I ****	54-2	1		J. V	<u> </u>

Subsection 3.-The Manufactures of Ontario, 1930.

Ontario is the most important manufacturing province of the Dominion. The gross value of its manufactured products in 1930 represented nearly 50 p.c. of those of the whole Dominion, while those of Quebec, the second province in importance in this respect, amounted to about 30 p.c. This premier position in manufacturing has been fairly uniformly maintained by Ontario over a long period, as the following percentages show: in 1926, 52 p.c.; 1920, 50 p.c.; 1918, 53 p.c.; 1910, 50 p.c.; 1900, 50 p.c.; 1890, 51 p.c. and 1880, 51 p.c. Thus, in spite of the rapid industrial development in recent years in other provinces such as Quebec, British Columbia and Manitoba, Ontario is maintaining a manufacturing production equal to that of the remainder of the Dominion.

The automobile manufacturing industry of Ontario in 1930 came first in the value of its products. This amounted to \$96,668,671 as compared with \$83,358,509 for the slaughtering and meat-packing industry which held second place. Other important industries in descending order, with the value of their products in 1930 were: electrical apparatus and supplies, \$78,794,396; flour and grist mills, \$75,700,-205; pulp and paper, \$68,036,733. Due to the general depression which prevailed in 1930, the five leading industries of Ontario, in common with many others, reported considerable decreases in the gross value of production, as compared with the previous year. The output of the automobile industry declined \$69,000,000, flour and grist mills, \$19,000,000, pulp and paper, \$14,000,000, slaughtering and meat packing, \$12,000,000, and electrical apparatus and supplies, \$7,000,000.

Indicating the greater diversification of industry in Ontario as compared with Quebec, the percentages which the 40 leading industries bore to the total manufactures of the province were higher in nearly every particular in Quebec than in Ontario, especially in the capital employed and the number of establishments and employees. Outstanding among the industries in which the province of Ontario was pre-eminent was that of automobile manufacturing, which was carried on practically in this province alone. Other important industries in which Ontario led, with the percentage which the production of each bore to that of the Dominion in 1930, were as follows: agricultural implements, 96 p.c.; leather tanneries, 87 p.c.; rubber goods, 78 p.c.; furniture and upholstering, 75 p.c.; fruit and vegetable canning, preserving, etc., 67 p.c.; electrical apparatus and supplies, 75 p.c.; castings and forgings, 65 p.c.; primary iron and steel, 58 p.c.; slaughtering and meat-packing, 51 p.c.; flour and grist-mill products, 52 p.c.; hosiery, knitted goods, etc., 70 p.c.

15 .- Statistics of Forty Leading Industries of the Province of Outario, 1930.

No	Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
_		No.	\$	No.	*	\$	\$
345	Automobiles. Slaughtering and meat-packing Electrical apparatus and supplies Flour and grist mills. Pulp and paper.	107 684 41	84,852,592 31,723,811 69,079,394 28,647,041 221,466,576	3,867 13,481 2,932	18,075,826 5,217,930 16,761,615 3,213,374 14,556,213	66,183,552 31,318,218 64,047,814	78,794,396 75,700,205
7	Rubber goods, including foot- west Butter and cheese Central electric stations Castings and forgings	33 961 430 194	57,850,266 25,019,018 440,872,470 62,421,734	6,396 7,362	11,734,038 7,016,257 12,138,712 16,508,913	37,897,697	54,481,492 49,371,901
	Non-ferrous metal smelting and refining	7	71,403,415	3,714	5,915,756	19,889,887	47,735,612

15.—Statistics of Forty Leading Industries of the Province of Ontario, 1930-concluded.

Š	Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	<u>-</u>	No.	\$	No.	\$	*	•
11	Machinery Hosiery, knitted goods and fabric gloves	122	46,591,382	7,147	9,860,562	12,579,847	38,347,873
	fabric gloves	110	44, 176, 748	12,940	10.929,930	17,036,327	37,634,490
14	ducts	1,071	23,334,067	8.568	9,774,795	17,185,996	35,161,217
14	Petroleum products	8	27, 166, 435		3.828.809		
	Printing and publishing	293	30,945,789	7,199		7,697,443	
16	Biscuits, confectionery, cocoa,						l
	chocolate, etc	120	29,938,561	5,903		12,889,075	
17	Primary iron and steel	19	70,544,399	4,958		14.329,688	30,655,496
15	Clothing, factory, women's Sheet metal products	217 85	11,644,209 28,937,988	8,272 5,223			
	Furniture and upholstered goods		32,965,927		6,112,571 9,478,601		28,204,090 27,576,489
	Agricultural implements	41	96,203,003	7.053		11,003,626	
22	Railway rolling stock	15	26,070,126		7,116,865	14.705.443	24,918,647
23	Sawmills	874	46,486,317			14,588,779	
24	Coke and gas products	21	50,344,731	2,604		10,479,948	
25	Fruit and vegetable canning,				' '		,,,,
	etc	142	25,757,235	5,344			
	Printing and bookbinding	406	21, 195, 914	5,833	7,954,956	6,303,599	
	Planing mills	296	25,229,376	4,578		10,754,637	
20	Breweries	31 79	21,002,975	1,581	2,272,016	5,028,446	
	Brass and copper products Automobile supplies		16,955,188 16,296,716			9,920,982 10,510,505	
	Leather, tanned, etc	33	22,080,904	2.530		11.598.403	17,328,336
	Boots and shoes, leather	60	10.053.244	4.581	4,352,707	6,937,366	
	Soaps and washing compounds.	32	13,020,232	1.093	1,611,325	7.820.408	
24	Bridge and structural steel work		12,588,104	2.664	4.274.326	6,549,172	
	Clothing, factory, men's	51	10,602,236	4.186	4,908,875	7, 117, 809	13,645,653
	Hardware and tools	91	21,633,656	4,550	4.954.037	4.206.098	13,428,698
37	Acide, alkalies and salts	10	83,970,318	1,500	2,244,921	2,572,227	13,197,159
38	Condensed milk	23	7,525,099	759	950,637	2,065,214	11,948,834
33	Cotton yarn and cloth	14	18, 107, 873	4,236		5,871,783	11, 186, 560
40	Distilleries	5	33,431,130	844	1,199,137	3,187,644	10,523,480
	Totals, Forty Leading Indus- tries	7,021	1,968,136,198	228, 576	279,118,190	666,535,587	1,331,743,997
	Grand Totals, All Industries	9,888	2,431,369,848	307,477	370,781,452	836,666,780	1,713,025,322
	Percentage of forty leading in- dustries to grand totals	71-00	80-95	74-37	75 · 27	79-67	77-74

Subsection 4.—The Manufactures of the Prairie Provinces, 1930.

The flour-milling industry is outstanding among the manufactures of the Prairie Provinces when treated as a single unit. During 1930, as may be seen from Table 16, the gross value of production of flour mills was \$41,892,162 (Manitoba, \$13,467,194; Saskatchewan, \$14,752,468; Alberta, \$13,672,500). The second industry from the point of view of gross production was slaughtering and meat-packing with products valued at \$41,276,942 (Manitoba, \$19,745,659; Saskatchewan, \$5,191,759; Alberta, \$16,339,524). Petroleum products comprised the third largest industrial group, with an output valued at \$22,986,549, followed by railway rolling stock, \$22,403,323, butter and cheese, \$21,946,491 and central electric stations, \$15,937,545.

The order of the leading industries is somewhat different in each province. In Manitoba; the leading industries, with their gross value of products in 1930, were as follows: slaughtering and meat-packing (\$19,745,659), railway rolling stock (\$17,-202,263), flour mills (\$13,467,194) butter and cheese (\$3,519,020) and central electric stations (\$6,574,463). In Saskatchewan the leading industries were: flour mills (\$14,752,468), butter and cheese (\$7,083,895), slaughtering and meat-packing (\$5,191,759), central electric stations (\$4,711,212) and printing and publishing

(\$3,517,774). In Alberta, slaughtering and meat-packing (\$16,339,524) was the leading industry, followed by flour mills (\$13,672,500), petroleum products (\$12,267,154), butter and cheese (\$6,343,576) and railway rolling stock (\$5,198,060).

The importance of these industries, based on such natural resources of the Prairie Provinces as grain-growing and cattle-raising areas, is evident.

Statistics of Ten Leading Industries of Manitoba, Saskatchewan and Alberta, 1930.

Note.—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are: in Manitoba, bridge and structural steel work and coment; in Saskatchewan, petroleum refining. The statistics for these industries are included in the grand totals for the provinces.

MANITOBA.

No	Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
Τ		No.	8	No.	\$	\$	
2 3 4 5 6 7 8	Slaughtering and meat-packing. Railway rolling stock. Flour mills. Butter and cheese. Central electric stations. Printing and publishing. Bread and other bakery products. Breweries. Printing and bookbinding. Bags, cotton and jute Totals, Ten Leading Industries.	30 70 39 70 124 7 62 6	4,376,357 10,718,251 5,135,981 4,001,773 59,751,276 4,027,077 3,210,955 5,593,180 4,228,80 4,228,80 1,707,368 182,461,031	5,727 515 958 1,529 1,165 1,009 558 1,268 232 14,084	1,460,903 8,209,751 579,591 1,414,324 2,069,646 2,015,748 818,183 1,778,183 1,778,205 19,793,881	8,397,573 10,528,092 5,518,198 981,518 2,129,915 975,503 1,251,838 2,574,637 47,822,•70	17,202,263 13,467,194 8,519,020 6,574,463 5,215,836 4,238,061 4,171,872 4,015,758 3,204,692

SASKATCHEWAN.

75 3 144 139 120 9 34	6,333,406 5,087,985 1,893,419 22,925,271 3,316,306 2,962,490 3,772,075 1,019,496	551 748 443 754 852 666 237 562 263	1,030,976 1,514,536 757,034 330,911 262,030 314,102	3,442,974 628,004 1,387,963 1,002,760 434,162 459,879	14,752,468 7,083,895 5,191,759 4,711,212 3,517,774 2,793,878 2,701,106 1,020,168 881,956
15	958,183	357	373,388		759, 174
600	50,058,311	5,433	6,834,138	23,177,082	43,413,390
750	65,486,140	7,248	9,229,593	35, 60 8,157	62,276,766
	75 3 144 139 120 9 34 14 15	75 5.087.985 3 1.893.419 144 22.925.271 139 3.316.306 120 2.962.490 9 3.772.075 34 1.019.495 14 1.739.675 958,183	75 5.087.985 748 3 1.893.419 442 144 22.925,271 754 139 3.316,306 852 120 2.962,496 666 9 3.772,075 237 34 1.019,485 562 14 1,789,675 263 15 955,183 357 804 54,658,311 5,433	75 5.087,985 748, 927,133 3 1.883,419 442 545,359 144 22,925,271 754 1.030,976 139 3.316,306 852 1.514,536 120 2.962,499 666 757,034 9 3.772,075 237 330,911 34 1.019,496 562 262,036 14 1.789,675 263 314,102 958,183 357 373,388 609 54,688,311 5,433 6,834,138	75 5.087.985 748 927.133 4.465.601 3 1.893.419 443 545.389 3.442.974 144 22.925.271 754 1.030.976 139 3.316.306 852 1.514.536 628.004 120 2.962.496 666 757.034 1.387.963 9 3.772.075 237 330.911 1.002.760 34 1.019.495 562 262.030 434.162 14 1.739.675 263 314.102 459.879 15 958,183 357 373.388 114.804 604 54.668.311 5,433 6,834.138 23,177,482

ALBERTA.

_							
23456789	Slaughtering and meat-packing Plour mills Petroleum products Butter and cheese. Railway rolling stock Central electric stations. Breweries. Printing and publishing Bread and other bakery products. Sawmills		8,684,669 9,874,386 8,963,665 3,661,615 3,510,077 27,525,124 6,122,463 4,073,432 2,961,761 2,849,762	608 445 593 1,919 776	1,599,178 765,429 711,565 714,844 2,676,257 1,205,586 464,089 1,459,387 838,673 619,302	10,553,070 9,586,927 4,761,811 2,419,972 - 1,230,938 657,352	4,651,870 4,520,111
	Totals, Ten Leading Industries. Grand Totals, All Industries	549 845	78,226,954 109,930,271	8,842 14,0 99	11,044,310 17,002,033	44,898,553 58,621,884	72,786,247 94,314,782

Subsection 5.—The Manufactures of British Columbia, 1930.1

British Columbia was in 1930 the third most important manufacturing province in the Dominion, producing goods to a gross value of \$241,121,932. About 19 p.c. of this production, or \$44,975,389, is seen in Table 17 to be that of the saw-milling industry; the predominance of forest products industries in the industrial life of the province is emphasized if to this figure be added \$17,785,550, the gross value of products of the pulp and paper industry and \$2,681,985, that of the planing mills and sash and door factories. Second in importance among the industries of the province is that of fish-curing and -packing, with a gross value of products of \$21,131,067, followed by the pulp and paper industry, slaughtering and meat-packing and central electric stations.

17.-Statistics of Twenty-Five Leading Industries of British Columbia, 1930.1

Note.—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are: non-ferrous metal smelting, sugar refiring, cement, explosives, cotton and jute bags, wood preservation and condensed milk. The statistics for these industries are included in the grand totals of the province.

7.00	Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
		No.	\$	No.	:	\$	*
1	Sawmills	301	49,051,770		13,134,242	25,244,013	44,975,389
	Fish-curing and -packing		24,343.089	2,574	2,528,590	13, 152, 636	21,131,06
3	Pulp and paper	6	53,405,998		4,945.001	4,582,296	17,785,55
:	Slaughtering and meat packing. Central electric stations	77	5,190.678 87,857,974	673 1.785	926,362 2.812,464	9, 145, 644	11,004,55 10,817,77
	Petroleum products		6.073.021	338	615.587	8,850,528	9,686,10
	Printing and publishing	66	4.401.053		2.547.122	1,304,741	6.501.14
8	Breed and other bakery pro-		1,101,000		2,010,111		0,001,11
1	ducts	243	3,532,379	1,322	1,529,299	2,977,993	5,877,13
١	Butter and cheese	37	1,877,091	588	926,749	3,822,553	5,589,29
	Sheet metal products	21	8,973,196	608	881,772	3,295,763	5,587,73
ŀ	Fruit and vegetable canning, evaporating, etc	32	4,649,478	1,479	899,689	3,494,203	5,438,51
,	Breweries	10	6,614,095		440,116	1.205.438	4,438,92
ĭ	Coffee, tea and spices	l š	1.293.904		163,770	3,020,909	4,209,48
	Castings and forgings	30	3,936,716		1,458,139	1, 116, 910	3,195,76
5	Shipbuilding and repairs	16	6,583,445		1,570,767	832,057	3,128,70
¢	Coke and gas products	6	12,725,787	455	655, 104	1,046.996	2,863.59
7	Dyeing, cleaning and laundry		A DEE 010	1 540	7 740 404	000 101	0.057.0
۰	work Planing mills, each and door	54	2,377,210	1,546	1,548,424	230, 101	2,857,64
٩	factories	45	3,614,312	824	1.061,352	1,049,147	2,681,98
3	Biscuite, confectionery, choco-		0,012,012	\ \frac{1}{2}	1,001,002	1,010,111	2,001,00
	late, etc	48	1,768,507		484, 144	1,020,883	2,349,14
	Printing and bookbinding	76	1,991,357		824.512	645, 135	2,052,87
	Boxes, wooden	13	886, 673,		445,862	886, 183	1,648,11
	Furniture	35	1,633,438	590	546,354	587,494	1,498,19
•	Wire and wire goods	8	1,237,646	122 95	175,421	577.933 1.108.845	1,431,23 1,321,76
	Flour and feed mills	7	1,664,242 1,571,852	169	104,911 224,919	652, 109	1,193.79
•	r stries, ingriente and variabiles.	- -	1,011,002			002,100	
	Totals, Twenty-Fire Leading Industries	1,287	297,254,911	\$3,144	41, 450, 672	89,850,510	179,215,44
	Grand Totals, All Industries	1,697	403,328,298	42,779	54,898,541	123,131,269	241, 121, 93
	Percentages of twenty-five lead-			i I	į		
	ing industries to grand totals.	75-8	78-7	77-5	75-5	73.0	74

Including Yukon.

Section 4.—Principal Factors in Manufacturing Production.

Subsection 1.—Capital Employed.

In a retrospective study of capital employed in Canadian manufactures since 1900, the remarkable increase denotes rapid growth in industrial operations. From 1900 to 1905 the capital increased from \$446,900,000 to \$833,900,000, and advanced to \$1,958,700,000 in 1915. During this period returns were received from establishments with 5 hands and over, and while the rise of wholesale prices did not exceed 37 p.c., the capital employed in manufactures increased nearly 340 p.c.

The capital investment in 1930 in all establishments irrespective of the number of employees was \$5,203,316,760, as compared with \$5,083,014,754 in 1929, and with \$3,244,302,410 in 1922, an increase of 60 p.c. in 8 years.

The provincial distribution of the manufactures of Canada may be illustrated by the investments of capital. Capital employed in Ontario during 1920 was 49.5 p.c. of the total, 52.4 p.c. in 1923, 50.4 p.c. in 1925, 49.2 p.c. in 1927 and 46.6 p.c. in 1930. The percentages employed in the plants of Quebec were: 30.5 in 1920, 30.8 in 1921, 29.5 in 1924, 30.6 in 1926, 33.1 in 1928 and 33.2 in 1930. British Columbia held the third place in 1930 with a capital of 7.8 p.c. of the total, while Manitoba, New Brunswick, Nova Scotia and Alberta followed in the order named, with proportions of between 3.6 p.c. and 2.1 p.c. each. (Table 18).

From a survey of the industrial groups in which the capital of the country is invested, it appears that the wood and paper group led in 1930, with an investment of 23.5 p.c. of the total. The central electric stations industry was second with 21.9 p.c., the iron and steel group third with 14.6 p.c., and the vegetable products group fourth with 10.9 p.c. (Table 19).

The statistics of capital employed in the manufacturing industries are of interest in deducing the proportions of fixed and liquid assets. In 1921 lands, buildings and machinery constituted 60 p.c. of the total capital, while in 1923 the proportion had increased to 64 p.c., in 1924 to 65 p.c., and to 66 p.c. in 1926 to 1929, while in 1930 it amounted to 69 p.c. The fixed assets amounted to \$3,584,344,724 in 1930, while quick assets, including the materials on hand, stocks in process, cash and sundries, were valued at \$1,618,972,036. Details by provinces and by industrial groups are given in Table 20.

18.—Provincial Distribution of Capital Employed in the Manufacturing Industries of Canada, in Percentages, 1921 and 1923-39.

Province.	1921.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia and	0·1 3·3 3·1 30·8 50·6 2·9 1·0	0·1 3·3 2·5 29·8 52·4 2·7 0·9 1·8	0·1 3·1 2·5 29·5 51·8 3·1 0·9	0·1 3·1 2·4 29·9 50·4 3·2 0·8	0·1 3·0 2·4 30·6 49·8 3·2 0·8 1·8	0·1 2·9 2·3 31·7 49·2 3·5 0·9 1·9	0·1 2·9 2·4 33·1 47·6 3·3 0·9 2·0	0·1 2·7 2·3 32·9 47·6 3·4 1·1	0·1 2·6 2·7 33·2 46·6 3·6 1·3 2·1
Yukon	6.5	b ∙5	7.1	8.3	8.3	7.5	7.7	7.8	7.8
Totals	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Distribution of Capital Employed in the Manufacturing Industries of Canada, by Industrial Groups and Percentages, 1928-30.

Industrial Group.	1928	•	1929		1930.		
industrui Group.	Amount.	Percent-	Amount.	Percent- age.	Amount.	Percent- age.	
	\$:		*		
Vegetable products	531,918,725	11-1	569,064,835	11.2		10-9	
Animal products		5.1		4.8		4.5	
Textile products	365,721,591 1 158 651 534	7.7 24.2	383,153,797 1,152,075,234	7.5 22.7	368, 567, 643 1, 221, 357, 252	7·1 23·5	
Iron and its producta	702.931.186	14.7	754.989.105	14.8	757,797,256	14.6	
Non-ferrous metals	253,367,370	5-3	298,721,106	5.9		6.2	
Non-metallic minerals	298,693,122	6.3	329,448,844	6-5	336,018,922	Ğ-5	
Chemicals and allied pro-		_					
_ducts	148,939,920	3.1	165,886,912	3.3	168, 119, 152	3-2	
Miscellaneous industries	119,602,877	2.5	130, 118, 324	2.5	84,912,229	1.6	
Central electric stations	956,919,603	20.0	1,055,731,532	20-8	1, 138, 200, 016	21.9	
Totals,	4,780,296,049	100-0	5,083,014,754	100 ⋅ 0	5,203,316,760	100.0	

20.—Forms of Capital Employed in the Manufacturing Industries of Canada, by Provinces and by Groups of Industries, 1930.

Province and Group.	Estab- lish- ments.	Land, Buildings, Fixturee, Machinery and Tools.	Materials on Hand, Stocks in Process, Finished Products, etc.	Cash, Trading and Operating Accounts and Bills Receivable.	Total Capital.
	No.	\$	¥	\$	*
Totals	24,020	3,584,344,724	848,927,120	770,044,916	5,203,315,760
Province.					
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia and Yukon	267 1,302 924 7,410 9,888 937 750 845 1,697	2,418.871 94,005,903 96,689,690 1,259,948,977 1,576,267,017 142,192,334 48,243,224 76,923,567 287,655,141	512, 227 22, 694, 045 19, 831, 890 257, 923, 102 429, 936, 376 24, 921, 511 10, 848, 555 19, 303, 309 62, 956, 105	510,860 16,971,215 24,089,950 209,192,309 425,166,455 21,299,319 6,394,361 13,703,385 52,717,052	3,441,958 133,671,163 140,611,530 1,727,064,388 2,431,369,848 253,413,164 65,486,140 109,930,271 403,328,298
INDUSTRIAL GROUP.	,				
Vegetable products. Animal products. Textiles and textile products. Wood and paper products. Iron and its products. Non-ferrous metal products. Non-metallic mineral products. Chemicals and allied products. Miscellansous industries. Central electric stations.	5,041 4,341 1,886 7,816 1,196 429 1,234 591 452 1,034	302, 234, 233 124, 297, 828 200, 335, 297 859, 927, 727 422, 153, 520 196, 360, 164 251, 894, 211 96, 264, 566 46, 930, 748 1, 083, 946, 430	162, 224, 591 60, 163, 696 87, 654, 895 200, 590, 275 160, 552, 656 65, 536, 403 54, 114, 879 32, 441, 260 14, 810, 904 10, 837, 561	104,944,945 48,873,448 80,577,451 160,839,250 175,091,080 63,708,982 30,009,832 39,413,326 23,170,577 43,416,025	569, 403, 769 233, 334, 972 368, 567, 643 1, 221, 357, 252 757, 797, 256 325, 605, 549 336, 016, 922 168, 119, 152 84, 912, 229 1, 138, 200, 016

Subsection 2.—Employment in Manufactures.

The total number of persons engaged in those manufacturing industries of Canada for which statistics were obtained in 1930 was in that year 644,439, as compared with 694,434 in the same industries in 1929 and 474,430 in 1922. The

1930 employees included 92,943 salaried employees, this figure being obtained from the manufacturers at the end of the year, and 551,496 wage-earners, the average number employed as derived from the manufacturers' records of the numbers on the pay-rolls on the 15th of each of the twelve months. Prior to 1925 the number of wage-earners was computed as the sum of the number recorded each month divided by 12 whether the establishment was operating the 12 months or not. Beginning with the statistics for 1925, in seasonal industries which are in operation only a limited number of months in each year, such as sawmilling, fruit and vegetable canning, etc., the average was computed by dividing the sum of the wage-earners reported on the 15th of each month by the number of months in operation. This change of method increased the apparent number of employees, especially in seasonal industries but also in the groups containing such seasonal industries and in provincial and Dominion totals. Consequently, the change of method exerted a reducing influence on apparent average wages and on all other averages per wage-earner and per employee.

The number of salaried employees and of wage-earners, as thus ascertained, is given for each of the years since 1917, the year of the first annual census of manufacturing production, in Table 21. Then, taking the percentages of the wageearners and the total employees in each year to those in 1917, and dividing these percentages into the volume of manufacturing production in each year (see pp. 412 to 416 for the index of volume), the quotients give tentative conclusions regarding the efficiency of production per wage-earner and per employee in years subsequent to 1917, as compared with that year. Since central electric stations were excluded in computing the index of the volume of production, employees in these establishments have been excluded also in computing the percentages relative to 1917 for both wage-earners and total employees, and consequently from the indexes of efficiency of production. These indexes of the efficiency of production are, of course, affected by the change explained above in the method of computing the number of employees in 1925 and subsequent years as compared with 1924 and previous years. Inasmuch as the change increased the apparent number of employees in 1925 and later years, it proportionately decreased the index of the efficiency of production. The table illustrates the development of modern industry which has accomplished a large increase in production with a comparatively small increase in wage-earners by better organization and the use of improved equipment. Capital invested in manufacturing industries, exclusive of central electric stations, has increased by 73.8 p.c. from 1917 to 1930, compared with a decrease of 1.2 p.c. in wage-earners, while the horse power used per wage-earner has increased from 3.04 in 1917 to 7.49 in 1930. The factor of better organization is not susceptible of measurement. However, salaried employees have increased by 35.2 p.c. since 1917, or more nearly in proportion to the growth in production than wage-earners. The result of these developments has been the increase of 44.5 p.c. in the volume of production per wage-earner and the somewhat smaller increase of 39.7 p.c. per employee, owing to the increased proportion of salaried employees in the total. The indexes may be considered as supplying satisfactory evidence of a general gain in volume of production per person employed. In this connection it should be remembered, however, that in 1917, owing to the large numbers overseas, many persons of low efficiency were being employed, their inefficiency being concealed at the time by the prevailing inflation of prices; it is possible that the sudden rise in the indexes of efficiency from 1920 to 1921 may be partly accounted for by their elimination in the contraction of industrial operations which occurred at that time.

21.—Salaried E	mployees and	Wage-Earners	in the	Manufact	uring Indu	istries of
Canada, wi	th Volume of I	Manufacturing	Produc	tion and Co	omparative .	Efficiency
of Froducti	on, 1917-30.				_	-

Year.	Salaried	Wage-	Total	to 1	e relative	Index Number of	Efficiency of Production.1		
-,	ьтрюу сез .	Employees. Earners. Employees		Of Wage- Earners.	Of Total Em- ployees.	Volume of Mf'd. Products.	Per Wage- Earner.	Per Em- ployee.	
	No.	No.	No.	p.c.	p.c.				
1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930.	68,726 70,706 81,681 83,015 74,873 76,040 78,273 76,230 77,623 81,794 85,483 91,243 96,607 92,943	552,968 647,599 529,327 526,571 381,203 398,390 446,894 432,273 466,602 499,745 533,450 566,7827 551,496	621, 694 618, 305 611, 1008 609, 586 456, 076 474, 430 525, 267 508, 503 544, 225 581, 539 618, 933 658, 023 694, 434 644, 439	100-0 99-0 95-7 95-7 68-5 71-6 80-5 77-6 83-8 89-9 95-8 101-5 98-8	100-0 98-8 98-1 97-7 72-6 83-9 86-6 92-7 104-6 102-2	100·0 102·0 98·1 95·0 86·1 96·0 104·8 102·9 112·7 128·1 136·5 148·8 157·5	100-0 103-0 102-5 99-9 125-6 134-1 130-2 132-7 134-5 142-5 146-8 146-8	100-0 103-2 100-0 97-2 118-6 127-0 124-9 127-3 130-1 138-2 138-5 142-0 142-4	

¹Central electric stations excluded.

Statistics of employment in manufacturing industries during 1930 derived from the Census of Manufactures, are shown in Table 7 of this chapter, (pp. 424 to 429). According to these statistics, the 24,020 establishments covered, employed 92,943 salaried employees and 551,496 wage-earners, a total of 644,439 persons. Out of every 1,000 persons employed in manufacturing, 144 were classed as salary earners and 856 as wage-earners; the former earned 25·0 p.c. and the latter 75·0 p.c. of the total amount paid out as remuneration for services.

Provincial Distribution of Employees in 1930.—An analysis of the returns by provinces shows that 48,958 or $52 \cdot 7$ p.c. of all employees on salaries were employed in Ontario; of this number 35,747 were males and 13,211 were females. The proportion of the male salary workers in Ontario to the total of such workers was $50 \cdot 7$ p.c. while female office employees constituted $58 \cdot 9$ p.c. of the corresponding total. In Quebec, which with 25,928 persons recorded the second largest number of salaried workers, were situated $28 \cdot 8$ p.c. of the total male and $24 \cdot 8$ p.c. of the total female salaried employees. British Columbia also had a higher proportion of male than female salaried employees, having $6 \cdot 5$ p.c. of the total male to $4 \cdot 6$ p.c. of the total female salary earners. Of the total salaries, \$97,716,795 or 53 p.c. was reported in Ontario, \$52,328,030 or $28 \cdot 4$ p.c. in Quebec, and \$11,380,384 or $6 \cdot 1$ p.c. in British Columbia.

Out of the total male wage-earners numbering 431,463 and the total female numbering 120,033, 47·1 p.c. of the former and 46·2 p.c. of the latter were employed in Ontario. Quebec manufacturers reported 30·4 p.c. of the total males as compared with 39·6 p.c. of the total females, while British Columbia had 7·7 p.c. of the former and 3·6 p.c. of the latter. As to earnings, Ontario firms paid out 49·5 p.c. of the total wages, Quebec 29·8 p.c. and British Columbia 7·9 p.c.

Distribution by Industries.—The wood and paper industries with 20,586 salaried employees, reported a larger number of these than any other group, having 22·1 p.c. of the total and paying 23·3 p.c. of the aggregate salaries; 24·7 p.c. of the total wage-earners, earning 23·9 p.c. of the total wages, belonged to this group. Only 9·2 p.c. of the total females working for wages were in the wood and paper

industries, as compared with 29 p.c. of the total males on wages. The textile industries had $18\cdot1$ p.c. of the wage-earners who earned $14\cdot3$ p.c. of the total wages; the number of female workers in these industries formed $49\cdot8$ p.c. of the total females and the males only $9\cdot3$ p.c. of the aggregate of male wage-earners. In the iron and steel group, $18\cdot7$ p.c. of the total wage-earners were paid $23\cdot5$ p.c. of the total wages. The number of men employed in these industries constituted $23\cdot3$ p.c. of the total male wage-earners in 1930, while only $2\cdot2$ p.c. of the female wage-earners were engaged in iron and steel plants.

22.—Percentages of Male and Female Employees on Salaries and Wages and Percentages of Total Salaries and Wages, by Provinces and Groups of Industries, 1930.

Province and Group.	Emple	oyees on Sa	laries.	G_1	Emp	loyees on W	ages.	TE7
Province and Group.	Males.	Females.	Total.	Salaries.	Males.	Females.	Total.	Wages,
The	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
PROVINCE. Prince Edward Island	0.2	0.2	0-2	0.1	0.3	0.6	0.3	0.1
Nova Scotia	2.0	1.9	2·0	ĭ.8	3.7	2.š	3.5	2.6
New Brunswick	1.9	1.8	1.8	1.7	3.1	2.6	3.0	2.1
Quebec	28 · 8	24.8	28.0	28.4	30 4	39-6	32 · 4	29-8
Ontario	50·7 4·6	58·9 4·2	52·7	53·0 4·4	47·1 4·3	46-2 3-0	46·9 4·0	49.5
ManitobaSaskatchewan	2.6	1.6	2.3	1.9	1.1	0.8	1.0	4.7 1.0
Alberta	2.7	2.0	2.6	2.6	2.3	1.2	2.1	2.3
British Columbia and Yukon	6.5	4.6	6.ŏ	6.ĭ	7.7	3.6	6.8	7.9
Totals	100.0	100.0	100.0	100.0	108 0	100.0	100 ⋅ 0	100.0
Industrial Group.	i 							
Vegetable products	11.2	12-8	11-6	11.5	11-3	20-3	13-3	11-1
Vegetable products	11-2	8.5	10.6	8.3	8 2	10.4	8-7	7.3
Textile products	9.0	15.0	10-5	10.3	9.3	49.8	18-1	14.3
Wood and paper products	22 4	21.4	22 - 1	23-3	29.0	9·2 2·2	24·7 18·7	23·9 23·5
Iron and its products Non-ferrous metal products.	18·7 7·9	15·5 8·7	17-9 8-1	19·5 8·3	23 · 3 6 · 2	3.8	18-7 5-7	6.7
Non-metallic mineral pro-	1.8	6-1	Q-1	0.0	0.2	""		0.1
duets	4.6	3.3	4.3	4.4	5-8	0.6	4.7	5-7
Chemicals and allied pro-							i	11
ducts	4-5	5.6	4.8	5.1	2.0	2.2	2.0	2.2
Miscellaneous industries	2.4	2.8	2·4 7·7	2.5	2.4	1.5	2·2 1·9	2·5 2·8
Central electric stations	8.1	6.4	4.7	6.8	2.5		1.9	2.8
Totals	100-0	100 0	100.0	100.0	100.0	100.0	100 - €	100-0

Monthly Record of Employment in Manufactures, 1930.—A monthly record of the number of wage-earners employed in Canadian manufactures, as compiled by the Census of Industry, is given by sex for 1929 and 1930 in Table 23. The peak of employment during 1930 was in May and for 1929 in June. Ordinarily manufacturing employment in Canada reaches its highest point about September. Some of the seasonal industries such as canning are most active then, textile industries are preparing winter goods and industry generally feels the active demand of the agricultural purchasing power resulting from the season's harvests. In 1929, however, the rising tide of "good times" was checked about midsummer and the recession set in during the autumn with the stock market crash. The harvests of 1929 in the Canadian West were disappointing also. In February 1930, employment began to pick up moderately. This expansion continued until May, after which there was a recession to the end of the year. The maximum employment for the two years was reached in June 1929 when 596,544 wage-earners were employed. This figure dropped to 510,061 in Jan. 1930, rose again to 556,386 in May and then fell to 464,086 in December 1930, a level practically the same as that of January, 1927.

While employment for male operatives expanded from the beginning of the year to its maximum in May, the number of female workers was greatest in September, chieffy on account of seasonal activity in the vegetable and fruit preserving group, which employs a considerable proportion of women. Textiles, the one group in which the majority of workers are women, also reported an active period during the autumn.

23.--Total Number of Wage-Earners Employed in the Manufacturing Industries of Canada, by Months, 1929 and 1936.

Month.		1929.		1930.			
Tuoneu.	Males.	Females.	Total.	Males.	Females.	Total.	
January February March April May June July August September October November December	409, 663 422, 912 439, 106 456, 326 473, 017 474, 157 473, 261 464, 087 485, 913 446, 752 425, 729 404, 700	111, 564 114, 904 116, 802 118, 943 121, 952 122, 387 121, 618 124, 422 130, 521 127, 814 121, 968 114, 631	521, 227 537, 816 555, 908 575, 269 594, 969 596, 544 594, 879 588, 569 586, 439 574, 560 547, 697 519, 331	401, 937 406, 854 416, 304 424, 877 440, 740 437, 339 427, 000 414, 618 409, 052 395, 666 375, 842 359, 671	108, 124 110, 708 111, 662 112, 233 115, 646 114, 827 112, 354 114, 785 121,078 116, 549 111,094	510, 06 517, 56; 527, 96; 537, 11; 558, 38; 552, 16; 539, 35; 529, 40; 530, 13; 512, 21; 486, 92; 464, 08;	

Subsection 3.—Salaries and Wages in Canadian Manufacturing Industries, 1930.

The total salaries and wages disbursed by manufacturers during 1930 was \$736,092,766 paid to 644,439 workers, compared with \$813,049,842 paid to 694,434 persons in 1929, \$510,431,312 paid to 474,430 persons in 1922 and \$732,120,585 paid to 609,586 persons in 1920 at the peak of the post-war inflation. Of the 1930 aggregate, \$184,239,117 or 25 p.c. was paid to 92,943 salaried employees who constituted 14.4 p.c. of the total number, and \$551,853,649 or 75 p.c. was paid in wages to 551,496 wage-earners who formed 85.6 p.c. of the aggregate number of employees.

The average salary paid in the manufacturing industries during 1930 was \$1,982, compared with \$1,954 in 1929, \$1,899 in 1927, \$1,843 in 1925 and \$1,791 in 1922. The average salary in 1930, viz. \$1,982 is shown to be \$28 or $1\cdot4$ p.c. higher than in 1929 and \$191 or $10\cdot7$ p.c. higher than in 1922. The average wage paid was \$1,001 in 1930, \$1,045 in 1929, \$997 in 1927, \$971 in 1925 and \$939 in 1922. Thus this average wage of \$1,001 in 1930 was \$44 or $4\cdot2$ p.c. lower than in 1929 but \$62 or $6\cdot6$ p.c. higher than in 1922.

Average Earnings, by Provinces, of Persons Employed in Manufactures.—Table 24 shows the number of salary and wage-earners and the average salary and wage paid in 1930 by manufacturers in the various provinces, also average earnings in 1929.

In 1930 there were successive rises in average salaries in each province, excepting New Brunswick which recorded a slight decrease as compared with the previous year. British Columbia showed the highest average of \$2,026, followed by Quebec with \$2,018 and Ontario with \$1,996. The head offices of many large corporations being located in Montreal, Toronto and Vancouver tends to raise the average salaries in these provinces. In the Prairie Provinces the averages were smaller, especially in Saskatchewan and Alberta, while in the Maritime Provinces average salaries were still lower, there being comparatively few large executive offices in these provinces.

All provinces with the exception of British Columbia, Alberta and Prince Edward Island reported lower wages in 1930. British Columbia with an average wage of \$1,171 was the highest in the Dominion, being \$70 higher than the general average. In the western provinces average wages are usually higher; this being due to an unusually small proportion of women workers, while many of the male employees were engaged in the better-paid wood and paper, electric light and power industries. In the four provinces situated to the east, average wages in manufacturing were lower than the mean for the Dominion, while from Ontario westward the opposite was the case.

The seasonal nature of some of the leading manufactures, notably fish-preserving and lumbering, tends to reduce the mean wage in the Maritime Provinces and Quebec, and Quebec also has a larger proportion of female wage-earners employed chiefly in the textile, food and tobacco industries, than any other province, except Prince Edward Island.

24.—Employees on Salaries and Wages in Manufacturing Industries, 1939, and Average Salaries and Wages, by Provinces, 1929 and 1930.

Province.	Employees on Salaries.			Average Salaries.		Eı	Average Wages.			
!	Male.	Female.	Total.	1930.	1929.	Male.	Female.	Total.	1930.	1929.
	No.	No.	No.	-	-\$	No.	No.	No.	\$. \$
Prince Edward Island Nova Scotia New Brunswick. Quebec. Ontario Manitoba Saskatchewan Alberta. British Columbia and Yukon	147 1,456 1,356 20,358 35,747 3,177 1,775 1,934 4,580	433 386 5,575 13,211 930 362 446	1,742 25,928 48,958 4,107 2,137	1,064 1,769 1,811 2,018 1,996 1,960 1,703 1,862 2,026	967 1,725 1,816 1,988 1,975 1,900 1,699 1,778 1,921	15,739 13,508 131,433 203,119 18,787 4,679 10,255	3,441 3,172 47,441 55,400 8,594 432	178,874 258,519 22,381 5,111 11,719	1,080	
Totals	70,525	22,418	\$2,943	1,982	1,954	431,463	120,033	551,496	1,001	1,045

Average Earnings in Forty Leading Industries.—Table 25 shows employees by sex and average salaries and wages in the forty leading industries during 1930, together with the salaries and wages paid in 1929. The rank of each industry is based on the aggregate of salaries and wages paid, as in Table 12 on p. 438.

Average Salaries.—In six industries the average salaries exceeded \$2,500; in seventeen they were from \$2,000 to \$2,500; in sixteen they ranged between \$1,500 and \$2,000, while in only one were they below \$1,500 in 1930. None of the six industries paying the highest salaries—breweries, pulp and paper mills, bridge and structural steel, non-ferrous metal smelting, petroleum, and primary iron and steel—reported a proportion of female workers equal to the general percentage in the forty leading industries, while the numbers employed were rather small except in the pulp and paper industry. The lowest salaries were reported by the butter and cheese industry. This is due to the fact that butter and cheese factories usually work less than the average number of days and are mainly situated in small towns and country places.

Average Wages.—The highest wages, or those above \$1,500 were paid in three industries—engraving, stereotyping and electrotyping; bridge and structural steel; and non-ferrous metal smelting—in all of which the proportion of skilled workers is probably high. In nine other industries the average wage ranged between \$1,200

and \$1,500. These were largely metal-working industries, non-metallic mineral products, printing and publishing and central electric stations, in all of which the proportion of women employed was low. In thirteen industries the average wage was between \$1,000 and \$1,200 while in the remaining fifteen the average was below \$1,000. This last group included such seasonal industries as sawmilling, and the flour and grist-mill industry with a large number of small grist mills in which work is intermittent. The other industries with low average wages were textiles, tobacco, and boots and shoes, in which the proportions of female wage-earners were high, the numbers in several industries being greater than those of the male.

25.—Statistics of Salaries and Wages Paid in Forty Leading Industries, 1930, together with Comparative Figures of Average Salaries and Wages Paid in 1929.

(Industries ranked according to the aggregate salaries and wages paid as in Table 12.)

Industry.	Total						
Industry.		_			Salaries.		
	Salaries and Wages.	Em- ployees.	Sala	uried Em	ployees.	Aver Salar	
	<u>_</u> .		Male.	Female.	Salaries.	1930	1929
	*	No.	No.	No.	*	*	_ - -
Pulp and paper	45,774,976	33,207	2,976	556	9,538,588	2,701	2,512
Railway rolling stock	37,625,050 28,512,901	25,952 43,457	1,739 1,465		4,203,257	2,274 2,022	2,230 2,063
Central electric stations	27,287,443	17,858	5,727	1,438	3,386,658 12,448,129	1.737	1.600
Printing and publishing			4,959		11,831,366	1.764	1.695
Electrical apparatus and supplies	26,260,004		3,568		9,620,479	1,957	1,793
Castings and forgings	25,871,261	20,499	1,912	607	5,574,926	2,213	2,180
Automobiles	19,473,782	12,541	1,631		4,775,918	2,163	2,282
Bread and other bakery products			700		1,669,572	1.530	1,400
Clothing, factory, women's	16,483,011		1,117 1,523		3,630,112 3,739,599	1,910 1,852	1,945
Rubber goods, including footwear Printing and bookbinding			1,529	540	4,394,820	2,076	1,841 2,070
Machinery	15,089,887		1.835	609	5,068,744	2,074	1,930
Hosiery, knitted goods and gloves.	15,057,147		744			2,047	2, 135
Primary iron and steel	14,934,325		664	130	1,992,950	2,510	2,452
fining	13,796,124	8,626	690		2,000,895	2,551	2,563
Butter and cheese		11,980	3,727	721	4,935,243	1,110	1,111
Cotton yarn and cloth	13,004,793		412 877	95	1.110.927	2,191	2,320
Boots and shoes, leather			894		2,370,504 2,615,142	1,943 2,147	1,978 2,108
Furniture Dyeing, cleaning and laundry work	12,774,596 12,141,767		731		2,064,474	1.722	1,785
Slaughtering and meat packing	12,114,667		1.451	288	3,539,917	2,036	1,892
Clothing, factory, men's			939			1,851	1,828
Biscuits, confectionery, chocolate							
Planing mills, eash and door fac	11,104,668	12,291	1,410	I I	3,607,864	1,741	1,963
tories, etc	10,981,763		977		2,275,359	1,914	1,846
Sheet metal products	10,452,887		1,059		2,603,195	1.858	1,893
Agricultural implements			1,182		2,915,138	1,905	1,883
Bridge and structural steel work			961 460		2,740,97f 1,317,159	2,591 2,518	2,530 2,457
Tobacco, cigars and cigarettee	8,190,130 7,837,711	8,905	1,015		2,861,409	2,059	1.823
Shipbuilding and repairs	7,145,593		507	57	1,192,618	2,115	2.248
Breweries	6,756,634	4,642	687	118	2,250,850	2,796	2,695
Brass and copper products:	6,742,752	5,297	781		1,986,431	1.977	1,735
Hardware and tools,	6,717,192		601	225	1,824,029	2,208	2,176
Flour and grist-mill products		5.923	819		2.011.876	1,988	1,901
Furnishing goods, men's			498 703		1,422,843 1,661,727	1,857 1,649	1.770 1.652
Coke and gas products Engraving, stereotyping and electro			442	l I	1,388,043	2,246	4,000
Clay products from demostic play	5,025,485 4,961,130		345		922,499	2,312	2,268
Clay products, from domestic clay Boxes and bags, paper	4,921,735		489		1,466,852	2,030	2,178
Totals, Forty Leading Industries	579,684,288	498,203	54,746	16,701	139,957,408	-	
Grand Totals, All Industries	736,092,766	644, 439	70,525	22,418	184,239,117	1,982	1,954

25.—Statistics of Salaries and Wages Paid in Forty Leading Industries, 1930, together with Comparative Figures of Average Salaries and Wages Paid in 1929—concluded.

(Industries ranked according to the aggregate salaries and wages paid as in Table 12.)

			Wages.		
Industry.		Vage-Earne	rs.	A ver Wa,	
	Male.	Female.	Wages.	1930.	1929.
	No.	No.	\$	\$	•
Pulp and paper	28,911	764	36, 236, 388	1,221	1,341
Ranway folling stock	24,068	36	33,421,793	1,387	1,455
Sawmills	41,704	78	25, 126, 243	601	723
Central electric stations	10,693		14,839,314	1,388	1,425
Printing and publishing.	8,722	1,634	15, 105, 686	1,459	1,465
Electrical apparatus and supplies	12,095 17,688		16,689,525 20,296,335	1,063 1,129	1,120 1,206
Automobiles	10, 197		14,697,864	1.422	1,200
Bread and other bakery products	14,414	2,231	17,774,961	1.068	1,060
Clothing, factory, women's	4.041	10,840	12.852.899	864	884
Rubber goods, including rubber footwear	9,333	3,811	12,155,880	925	1.028
Printing and bookbinding	7.088	2,410	11,268,228	1, 186	1, 198
Machinery	8.420	180	10.021,143	1, 165	1,239
Hosiery, knitted goods and gloves	5.583	11,705	12,434,026	719	741
Primary iron and steel	8.906	23	12,941,375	1.449	1.597
Non-ferrous metal smelting and refining	7,838		11,786,229	1,504	1,617
Butter and cheese	7,275		8, 136, 673	1,080	1,050
Cotton yarn and cloth	9,479		11,893,866	721	771
Boots and shoes, leather	7,785		10,487,558	826	871
Furniture	10,296		10,159,454	944	1,008
Dyeing, cleaning and laundry work	4,596		10,077,293	874	862
Slaughtering and meat packing	6,738	813	8,574,750	1,136	1,122
Clothing, factory, men's	4,605	4.900	9,078,786	955	1,078
Biscuits, confectionery, chocolate, etc	4,497	5,722	7,496,804	734	761
Planing mills, sash and door factories, etc	8,375 6,604	87 723	8,706,404 7,849,692	1,029 1,071	1,045 1.094
Sheet metal products	5,807	68	6,648,911	1,132	1, 188
Agricultural implements	3,885		5,945,091	1.530	1,605
Petroleum products.	4,592	19	6,872,971	1.491	1.544
Tobacco, cigars and cigarettes.	2.768		4,976,302	662	661
Shipbuilding and repairs.	4.569		5,952,975	1,301	1.310
Breweries	3.785		4,505,784	1,175	1,201
Brass and copper products	3,958	334	4,756,321	1,708	1,147
Hardware and tools	4,647	747	4,893,163	907	1,019
Flour and grist-mill products	4,779	_ 132	4,667,337	950	976
Furnishing goods, men's	1,061	7,138	5,014,875	612	638
Coke and gas products	3,017	6	4,303,075	1,423	1,483
Engraving, stereotyping and electrotyping	1,728	461	3,637,442	1,662	935
Clay products, from domestic clay	4,627 1,996	2,344	4,038,631	873 796	933 812
Boxes and bags, paper	1,390	2,344	3,454,883	., 30	
Totals, Forty Leading Industries	341,170	85,586	439,726,830		
Grand Totals, All Industries	431, 463	120,033	551,853,649	1,001	1,045

Real Earnings of Employees in Recent Years.—When the index number representing the average yearly wages, with 1917 as a base, is divided by the index number of the cost of living, converted to the same base, it is seen that real wages advanced by 13.6 p.c. between 1917 and 1930. The details of the computation are given in Table 26. There was little change in real wages during the three years 1917 to 1920 when prices were rising rapidly. During the following two years, 1921 and 1922, when prices dropped rapidly, real wages increased over 5 p.c. Since then there has been an almost continuous rise from year to year with the exception of 1930. In 1929 real wages reached a maximum of 117.7.

 Average Yearly Earnings and Real Wages of Wage-Earners in Manufacturing Industries, 1917-30.

j			ļ .	Index Numbers.				
Year.	Amount of Wages Paid.	Average Number of Wage Earners.	Average Yearly Earnings.	Average Yearly Earnings.	Cost of Living.	Real Value of Average Yearly Earnings.		
	\$	No,	\$					
1917 1918 1919 1920 1921 1922 1923 1924 1924 1925 1925 1926 1927 1928 1929 1929	420, 094, 869 480, 949, 599 496, 570, 995 583, 853, 225 381, 910, 145 374, 212, 141 428, 731, 347 420, 269, 406 452, 968, 655 501, 144, 989 531, 583, 259 580, 423, 493 624, 302, 170	552, 968 547, 599 529, 327 526, 571 381, 203 398, 390 446, 692 499, 745 532, 460 566, 780 597, 827 551, 496	760 878 938 1,109 1,002 939 972 971 1,003 997 1,024 1,045	100.0 115.5 123.4 145.9 131.8 128.6 126.1 127.9 132.0 131.3 134.8 137.5	100 · 0 113 · 8 125 · 3 145 · 2 127 · 6 116 · 8 116 · 8 116 · 0 115 · 1 115 · 6 116 · 8	100.0 101.5 98.5 100.4 103.2 105.8 107.9 111.0 113.0 114.1 116.5 117.7		

Percentages of Salaries and Wages to Value of Products.-Table 27 shows the relation between salaries and wages paid by manufacturers and the total net value of production. Figures of gross production are often used in such calculations, but the values out of which the wages of employees must in the long run come are the values added to the raw materials while they are in the factory. Such added values constitute the real production of the manufacturing plant and are alone available for payment of wages and salaries, of interest, rent and taxes, charges for fuel, power, lighting, repairs, and all other overhead charges. percentage of salaries was highest in the years 1921, 1922 and 1924. years in which manufacturing production was curtailed and it is probable that, salaried employees being a part of the organization of an industry rather than of its productive force, salaries were an abnormally high percentage of the lower levels of production then prevailing. The percentage has declined with the increasing manufacturing production since 1922, but in 1929 was still much higher than in 1917, while in 1930, due to decreased industrial activity, the percentage of salaries to value added rose to 10.5, an increase of 1 p.c. over the previous year. It should be borne in mind, however, that salaried employees increased by 35.2 p.c. in the period, while wage-earners decreased $1 \cdot 2$ p.c. (Table 21). The percentage of wages has fluctuated much less than that of salaries. The number of wage-earning employees may be more readily adjusted to the activity of the industry and wage levels likewise more readily adjusted to the price levels of the products. The percentage of wages to the values added in manufacture was thus almost the same in 1930 as in 1917. The percentage was highest in 1920, when, in the post-war inflation, average wages were highest (Table 26) and the efficiency of production lowest (Table 21).

27.—Percentages of Salaries and Wages Paid to Total Net Value of Manufacturing Production, 1917-29.

				Percentage-				
У евг.	Value Added by Process of Manufacture,	Salaries Paid.	Wages Paid.	of Salaries to Values Added.	of Wages to Values Added.	of Total Salaries and Wages to Values Added.		
	\$	\$	\$	р.в.	p.c.	p.e.		
1917 1918 1919 1920 1920 1922 1923 1924 1925 1925 1927 1927 1928	1,332,180,767 1,460,723,777 1,509,870,745 1,686,973,408 1,200,143,344 1,198,434,407 1,311,025,375 1,256,638,901 1,260,379,907 1,492,645,039 1,635,923,936 1,819,046,025 1,997,350,365 1,997,350,365 1,761,986,728	89, 287, 158 101, 507, 889 121, 892, 144 148, 287, 360 136, 874, 992 136, 219, 171 142, 738, 681 139, 614, 639 143, 056, 516 152, 705, 944 162, 348, 978 174, 770, 879 188, 747, 672 184, 239, 117	420,094,869 480,949,599 486,570,996 583,853,225 381,910,145 374,212,141 428,731,347 420,269,406 452,958,655 501,144,589 531,883,250 580,428,493 624,302,170 6551,853,649	6.9 8.1 8.8 11.4 10.9 11.1 10.2 9.9 9.7	31 · 5 · 9 · 32 · 9 · 32 · 6 · 31 · 6 · 31 · 2 · 33 · 4 · 33 · 3 · 5 · 32 · 5 · 31 · 3 · 31 · 3 · 31 · 3	38-2 39-8 41-0 43-4 42-8 43-6 43-6 43-8 43-8 42-4 41-8 41-8		

Subsection 4.--Size of Manufacturing Establishments.

An essential characteristic of the recent evolution of industry has been the increase in the size of the typical manufacturing establishment. The full utilization of highly specialized machinery necessitates large-scale production, while the improvements in transportation have widened the market, and the development of more efficient methods of business administration has made it possible for the individual manufacturer to supervise effectively a larger plant. An increase in the scale of production of the typical manufacturing establishment has been experienced in all industrial countries which have been affected by the so-called "Industrial Revolution", and not least in Canada where the rise of the factory system in industry has taken place approximately since Confederation.

The size of the manufacturing establishment is generally measured either by the number of employees or by the value of product, but each of these methods has its limitations. The former takes no account of the differences in capital equipment at different times or in various industries and obviously the increased use of machinery, as in the flour-milling industry, may lead to increased production concurrently with a decrease in the number of employees. The latter measure has to be adjusted for changes in the price level; and, as between industries, it makes those which handle expensive raw materials appear to operate on a larger scale. Both measures are subject to two limitations: first, they depend on the fluctuation of business activity and the demand of the consumer; secondly, over any lengthy period of time there is the difficulty of comparability resulting from changes in the method of the census.

Thus, while it is possible in a general way to state that the average size of the manufacturing establishment in Canada has increased between 1870 and 1930, the 1930 figures are not on the same basis as the 1870 figures, especially since they do not include all the small custom and repair establishments included at the earlier date. The same difficulty arises right up to the most recent times. It is only in the last few years that the statistics have been so analysed as to be strictly comparable, and the results of this analysis are given in Tables 28 to 31.

Size as Measured by Gross Value of Products.—In Tables 28 and 29 the size of the establishments reporting to the Census of Manufactures is shown by the gross value of products—Table 28 giving comparative figures for 1922 (the first year for which the figures are available) and 1930, and Table 29 the figures by provinces for 1930.

The comparative Table 28 shows that, while in 1922 the 420 establishments which had each a gross production of over \$1,000,000 had an aggregate value of products of \$1,268,056,129 or 51 p.c. of the total production of all manufacturing industries, the 626 establishments producing over \$1,000,000 each in 1930 had an aggregate value of products of \$2,046,162,259, or 59 p.c. of the grand total for all manufacturing establishments—a very significant change in the short period of eight years when the general trend of prices of manufactured goods was slightly downward.

28.—Manufacturing Establishments Grouped According to Gross Values of Products, with Total and Average Values of Products in each Class, for Canada, 1922 and 1930.

	Group.			1922.	ł	1930.			
				Total Production.	Average Pro- duction.	Estab- lish- ments.	Total Production.	Average Pro- duction.	
Gross Va	alue of P	roducts.	No.	\$	\$	No.	\$	\$	
Under \$25,00			14,978	114,205,770	7,625	14,900	96,354,806	6,467	
25,000 Ъ	ut under	\$ 50,000	2,401	85,075,807	35,433	2,729	96,674,700	35,425	
50,000	er	100,000	1,793	129,320,947	72,125	2,114	149,666,114	70,798	
100,000	a	200,000	1,355	191,675,689	141,458	1,657	235,533,089	142,144	
200,000	u	500,000	1,078	330,533,712	306,617	1,441	451,251,620	313,152	
500,000	а	1,000,000	516	363,341,076	704, 149	553	392,123,808	709,085	
1,000,000	ч	5,000,000	364	692,463,530	1,902,372	528	1,063,296,928	2,013,820	
5,000,000 au	ıd over.	,	. 56	575,592,599	10,278,439	98	982,865,331	10,029,239	
T	otals		22,541	2,482,209,130	110,119	21,020	3, 467, 766, 396	144,370	

¹The value of production in 1930 shown above is greater in the aggregate by \$38,795,768 than the value of production shown in the other tables of this report. This is due to the elimination from the other tables of the value of electric energy purchased by central electric stations from other generating plants for distribution to local consumers. For the reporting plant, however, the cost of such power is regarded as the cost of materials. This necessarily involves a duplication in the value of production which it is impossible to make compensation for, as between the groups.

29.—Manufacturing Establishments, Grouped According to Gross Values of Products, with Total Values of Products in each Class, by Provinces, 1930.

	Prince Ed	lward Island.	Nova	a Scotia.	New H	Brunswick.	
Group.	Estab- lish- ments.	Production.	Estab- lish- ments.	Production.	Estab- lish- ments.	Production.	
Gross Value of Products. (000 omitted.)	No.	\$	No.	;	No.	\$	
Under \$ 25 \$ 25 - 50 50 - 100 160 - 250 200 - 560 500 - 1,000 1,000 - 5,000 5,000 and over	226 25 8 8 - -	1,526,118 816,292 491,301 1,418,781	996 108 98 1 49 1 42 6 10	6,491,279 3,771,567 6,186,884 6,912,055 12,837,331 4,081,455 23,278,331 23,000,611	687 85 54 41 32 15	3,926,301 2,853,699 3,766,971 5,983,294 10,165,926 11,387,455 26,059,761	
Totals	267	4,255,492	1,302	86,559,915	924	64, 143, 407	
Group.	ଦ	uebec.	Ontario.		Ma	mitoba.	
Under \$ 25 \$ 25— 50 50— 100 160— 200 200— 500 1,000— 5,000 5,000 and over	5,132 666 514 398 367 146 154 33	35,541,983 23,586,978 36,505,913 57,191,094 113,317,358 102,453,162 330,614,710 329,253,925	290 272 44	28, 851, 927 47, 536, 649 74, 831, 848 116, 806, 879 238, 800, 350 206, 332, 146 532, 201, 086 492, 657, 574	522 107 105 87 69 16 26 5	4,198,370 3,865,986 7,406,852 12,293,227 21,898,374 11,811,581 50,121,410 31,971,980	
Totals	7,410	1,028,464,123	9,888	1,738,018,439	937	143,545,786	
Group.	Sask:	atchewan,	Al	iberts.	British	Columbia.	
Under \$ 25 50 50 100 220 200 500 500 1,000 1,000 5,000 and over	9	3,080,482 2,639,123 4,510,752 5,990,179 6,058,294 6,719,765 34,037,582	114 56 51 29 17	4,777,194 4,214,072 3,876,452 7,022,219 9,058,598 11,309,511 54,945,364	207 170 158 124 54	7,961,152 7,390,340 12,086,141 22,505,286 38,527,062 38,029,733 51,913,755 66,106,184	
Totals	750	63,036,177	845	95,203,410	1,697	244,519,65	

Includes one of the larger class grouped with those of the smaller class to avoid showing the individual production of any one establishment.

Size of Establishments as Measured by Number of Employees.—In Tables 30 and 31 the establishments reporting to the Census of Manufactures are classified by the number of their employees. In the comparative Table 30, it is shown that out of a total increase of 123,102 employees in our manufacturing industries between 1923 and 1930, 54,623, or almost 45 p.c., were in establishments with over 500 employees.

 Number of Establishments and of Employees in Canadian Manufactures. Grouped According to the Number of Employees per Establishment, 1923 and 1930.

		1923.		1930.			
Group.	Establish- ments.	Employees.	Average Employed.	Establish- ments.	Employees.	Average Employed.	
	No.	No.	No.	No.	No.	No.	
Fewer than 5 employees	13,156	23,632	1.7	12,620	24, 186	1:9	
5 to 20 employees 21 " 50 "	5,310 2,093	53,852 67,408	10-1 32-2	6,319 2,548	63,317 81,383	10.02 31.9	
51 " 100 "	1.031	73,449	71.2	1,217	86,077	70 - 7	
101 " 200 "	566	79,737	140-8	737	102,626	139-2	
201 " 500 " 501 and over	374	115.585	309.0	405	124,548	307.5	
301 and over	112	112,447	1,004.0	174	167,075	960-2	
Totals	22,642	526,110	23.2	24,020	649,2122	27.0	

In order to make the figures comparable this total is computed by dividing the employees in each establishment in each month by the actual number of months the establishment was in operation, while in Table 1 of this chapter the sum was divided by 12 for all establishments (see p. 449, subsection 2).

This total of employees in 1930 exceeds the total of 644.39 given lesswhere in this report because 4,773 contract workers in the salmon canneries of British Columbia are included here but are excluded

31.—Number of Establishments and of Employees in Canadian Manufactures, by Provinces, and Average Number of Employees per Establishment, 1930.

Province,	Under 5 Employ- ees.	5-20.	21-50.	51-100.	10 1-200 .	201-590.	501 and over.	Total.
Prince Edward Island— Establishments Employees Average per establishment	157 268 1 · 7	81 836 10-3	26 772 29 · 6	3 179 59·6	141	111	• • •	267 2,055 7.7
Nova Scotia— Establishments Employees Average per establishment	645 1,254 1.9	439 4,467 10·1	146 4,379 29·9	44 3,088 70·1	13 1,605 123 4	11 3,766 342·0	2,510 628·2	1,302 21,069 16·2
New Brunswick— Establishments Employees Average per establishment	418 836 2-0	317 3,213 10·1	126 3,678 29-1	34 2,295 67·5	15 2,142 142·8	11 3,763 342·0	3 2,495 831-8	924 18,422 19-9
Quebec – Establishments, Employees. Average per establishment	4,469 7,355 1-6	1,564 15,918 10-1	662 21,270 32·1	323 23,020 71·2	189 26,096 138-07	131 42,034 320-8	72 69,109 959-1	7,410 234,802 27-6
Ontario— Establishments Employees Average per establishment	4.715 10,436 2·2	2,788 27,697 9·9	1,139 36,814 32-3	585 41,272 70·5	379 53,844 142-1	198 58,130 293 · 5	84 79,284 943-8	9,888 307,477 31-0
Manitoba— Establishments Employees Average per establishment	448 922 2-0	268 2,690 10·0	121 3,929 32·4	51 3,475 68-1	25 3,391 135-6	20 5,695 284-7	6,386 1,596-5	937 26,488 28.3
Saskatchewan— Establishments Employees Average per establishment	525 732 1·3	145 1,332 9-1	47 1,421 30-2	18 1,208 67·1	t2 1,717 143-0	3 838 279 - 3	- 3 -	750 7,248 9-6
Alberta— Establishments Employees Average per establishment	517 933 1.8	198 1,872 9-4	65 2,173 33-4	34 2,429 71·4	22 2,874 130-6	9 3,818 424-2	-	845 14,099 16.7
British Columbia— Establishments Employees Average per establishment	726 1,450 1.9	519 5,292 10·1	216 6,947 32·1	125 9,111 72·8	82 10,957 133-6	23 7,691 334 · 3	6,1 04 1,017-3	1,897 47,5521 28-0

elsewhere.

Subsection 5.-Power and Fuel.

Power.—The power equipment installed in manufacturing establishments is a very good barometer of the industrial development of Canada, inasmuch as the production is increasingly dependent on the power equipment. Increases and decreases in productive capacity, measured in horse-power, are not the result of temporary fluctuations in costs and values in the same manner as capital investments, values of products, etc. Power equipment will not reflect temporary depressions, but over a period of several years will indicate industrial growth or decline.

Central electric stations, which generate electricity for both lighting and power purposes, are treated in Table 32 separately from the other groups of industries. Internal combustion engines include all gasolene engines, natural, coal and producer gas engines, and diesel and semi-diesel or other engines which produce power by burning the fuel in the cylinder.

Comparisons with the data for 1929 show an increase of 533,714 h.p. or 8.1 p.c. in 1930 in the total primary power equipment installed in all manufacturing establishments, including central electric stations, by far the largest increase amounting to 475,118 h.p., being in the central electric stations, there being a decrease in primary power installation in some of the other manufacturing groups due to the replacement of steam equipment by electrical equipment operated by purchased power. The water-power development of central electric stations increased by 425,182 h.p., while steam power installed increased by 46,349 h.p. and internal combustion engines by 3,587 h.p. Provinces with large water-power developments usually show the greatest primary power increases. During the year 1930, Ontario led with an increase of 147,737 h.p., Quebec came second with an increase of 123,796 h.p., British Columbia third with an increase of 99,216 h.p., Nova Scotia fourth with an increase of 46,633 h.p. and Manitoba fifth with an increase of 43,463 h.p. In the utilization of hydraulic power, Quebec exceeded Ontario for the first time in 1925. In 1927, Quebec exceeded Ontario or any other province in the total of installed primary power from all sources and has been the leading province since then, largely owing to its extensive water-power resources, 92 p.c. of its primary power in 1930 being derived from water.

The rapid increase in the development of power in Canada and in its utilization in manufacturing industries is illustrated by the summary figures for the years 1921 to 1930 in Table 32. The table is divided into two parts, the first showing manufacturing industries exclusive of central electric stations and the second showing central electric stations only. The abundance of readily available water power in many parts of Canada, facilitating the development of low-cost hydro-electric power, has no doubt played a large part in this rapid growth. Of the total primary power increase of 3,968,295 h.p., inclusive of central electric stations, in the 9 years, no less than 3,493,464 h.p. or 89 p.c. was in water power. However, some sections of Canada are not so well provided with water-power resources and chiefly in such sections primary power derived from steam engines and turbines and internal combustion engines has also increased rapidly during the period covered. In the provinces of Prince Edward Island, Nova Scotia, Saskatchewan and Alberta, primary power produced from fuels exceeded that from water in 1930. The total installation of electric motors increased 1,983,185 h.p. or 196 p.c. in the 9 years covered, by far the greatest part of this increase being in motors operated by power purchased from central electric stations.

22.-Totals for Canada, of Power Installed in the Manufacturing Industries other than Central Electric Stations and in Central Electric Stations, 1921-30, with Details by Provinces and Groups of Industries for 1936.

MANUFACTURING INDUSTRIES (EXCLUSIVE OF CENTRAL ELECTRIC STATIONS).

		Primary Power.				Electric Motors.		
Province and Group.	Steam Engines and Turbines.	Internal Com- bustion Engines.	Hydrau- lic Turbines and Water Wheels.	Total Primary Power.	Opera- ted by Pur- chased Power.	Opera- ted by Power Genera- ted by Establish- ments.	Total Electric Motors.	Total Power Equip- ment Em- ployed.
	h.p.	h.p.	h.p.	h.p.	h.p.	h .p.	ь.р.	h.p.
Totals, 1921	495,534	37 , 69 6	492,568	1,025,738	-	- 1	1,014,216	
Tetals, 1922	554,141	70,271	578,795	1,203,207	-	-	1,162,649	
Tetals, 1923	551,191	46,829	587,191	1,188,211	958,692	357,136	1,315,828	2,146, 90 3
Totals, 1974	652,913	54,250	575,18 9	1,282,352	1,256,183	338,001	1,654,184	2,538,535
Tetals, 1925	686, 425	57,247	596,738	1,340,410	1,547,754	431,678	1,982,432	2,888,161
Totals, 1926	704,158	54,128	643, 628	1,363,914	1,770,334	392,322	2,162,656	3,134,248
Totals, 1927	718,157	57,143	587,595	1,362,895	1,924,687	386,555	2,311,242	3,287,582
Totals, 1928	736,996	58,906	657,253	1,453,055	2,139,128	457,565	2,596,694	3,597,184
Totals, 1929	768,141	60,654	645,500	1,474,295	2,393,684	495,854	2,889,538	3,867,979
Totals, 1930	799,041	65,630	668,220	1,532,891	2,518,853	478,548	2,997,401	4,051,744
PROVINCE, 1930.								
P.E. Island. Nova Scotia. New Brunswick Quebec. Ontario Manitoba. Saskatchewan Alberta. British Columbia		3,866 3,287 8,238 37,710 1,209 1,478 2,283	1,335 9,931 13,950 282,858 259,885 1 132	3, 238 105, 769 80, 089 472, 224 587, 860 14, 257 12, 362 23, 849	47,248 1,026,413 1,025,354 101,267 16,453 41,884	56,151 254,714 582 89 3,523	1,031 100,797 80,704 1,082,564 1,280,068 101,849 16,542 45,407	3,869 168,693 127,337 1,498,637 1,613,214 115,524 28,815 65,733
and Yukon Group or	125,967	7,178	100,098	233,243	196,679	91,760	288,439	429,922
INDUSTRIES, 1930.		<u> </u>	4					na *
Vegetable products Animal products Textiles Wood and paper	23,507 23,092 465,766	13,109 5,835 1,246 17,451	40,987 2,016 32,175 505,374	114,086 31,358 56,513 988,591	114,811	26,404 2,510 30,720 262,866	225,845 76,985 145,531 1,400,790	313,527 105,833 171,324 2,126,515
Iron and its pro- ducts	151,354	21,604 410	4,438 69,460	177,396 89,918		113,779 20,191	512,992 332,090	576,609 401,817
crais	30,841 17,130	5 ,156 3 36	5,411 8,328	41,408 25,791	172,509 61,588	14,92 5 7,153	187,434 68,741	87,382
Industries	7,313	483	31	7,827	46,993	-	46,993	54,820

32.—Totals for Canada of Power Installed in the Manufacturing Industries other than Central Electric Stations and In Central Electric Stations, 1921-1930, with Details by Provinces and Groups of Industries for 1930—concluded.

CENTRAL ELECTRIC STATIONS.

		Primary	Power.		Electric Motors.				
Province.	Steam Engines and Turbines.	Internal Com- bustion Engines.	Hydrau- lie Turbines and Water Wheels.	Total Primary Power.	Opera- ted by Pur- chased Power.	Opera- ted by Power Genera- ted by Establish- ments.	Total Electric Motors.	Total Power Equip- ment Em- ployed.	
	h.p.	h.p.	h.p.	և .թ.	Б .р.	h.p.	h.p.	h.p.	
Totals, 1921	269,191	15,871	1,826,357	2,111,419		- '	-	2,111,419	
Totals, 1922	279,615	16,751	2,112,289	2,408,655		-	-	2,448,655	
Totals, 1923	273,679	17,191	2,282,547	2,573,417	-	_	-	2,573,417	
Totals, 1924	291,354	18,241	2,707,957	3,017,552	-	_	-	3,017,552	
Totals, 1925	306,491	20,188	3,416,018	3,742,697	_	_	-	3,742,697	
Totals, 1926	314,377	22,426	3,609,385	3,946,188	-		-	3,946,188	
Totals, 1927	320,774	22,610	3,975,012	4,318,396	-	-	~	4,318,396	
Totals, 1928	316,311	25,058	4,445,531	4,786,900	-	-	- !	4,786,910	
Totals, 1929	347,641	30,875	4,718,927	5,097,443	-	_	_	5,097,443	
Totals, 1930	393,990	34,462	5,144,109	5,572,561	_	_	_	5,572,561	
PROVINCE, 1930.						1			
P.E. Island	2,598	920		3,982	_	_	_	3,982	
Nova Scotia New Brunswick	88,706 22,530	1,184 1,170		120,082 109,185] [_	120,082 109,185	
Quebec	33,996 39,883	1,363 1,355	2,316,007	2,351,366 1,770,969			_	2,351,366 1,770,969	
Ontario	33,767	2,704	352,925	389,396	_		_	389,396	
Saskatchewan	100,855 75,512	17,589 4,266		118,444 149,298			_	118,444 149,298	
B. C. and Yukon	46,143		509,785	559,839			-	559,839	

Fuel.—The fuel used in industrial establishments in 1930 included 6,385,728 tons of bituminous coal, valued at \$34,073,553 constituting 60.3 p. c. of the total fuel cost. The other chief fuels in order of value were: fuel oil, comprising 13.9 p. c., gas (principally natural gas) 10.5 p. c., wood 4.04 p. c., coke 3.4 p. c. and anthracite coal 3.3 p. c. Out of a fuel account of over \$56,000,000, Ontario expended \$27,044,693 or 47.8 p. c. of the total. The manufacturing concerns of Quebec expended \$15,165,061, those of British Columbia \$3,495,758 and those of Nova Scotia \$2,916,336.

The groups of industries in which fuel was most extensively used in 1930 were: non-metallic minerals, \$13,103,000; wood and paper, \$12,671,000; iron and steel, \$9,650,000; and vegetable products, \$6,524,000. Fuel is used quite generally throughout the industrial field for the generation of power by means of internal combustion and steam engines. The most important industries where heat is applied directly to materials to transform them or to facilitate their manipulation are foundries and machine shops, blast furnaces and steel mills, smelting plants, brick-, tile-, lime- and cement-making, petroleum refining and the glass industry.

In such industries as the manufacture of coke and gas the coal used as a material which enters into the actual composition of the product is not treated as a fuel but as a raw material and is not, therefore, included in the figures of Table 33.

The total annual expenditure on fuel increased by \$4,877,835 or 9.4 p.c. in the 9 years from 1921 to 1930, covered by the summary figures in Table 33. During this period prices of fuels generally have declined. Thus there has been an increase of 56 p.c. in the quantity of bituminous coal used while the value has decreased 2 p.c. The fuels which have shown the greatest proportionate increases are gas and oil.

33.—Total Fuel Used in the Manufacturing Industries of Canada, 1921-30, with Details by Provinces and Groups, 1930.

						-		
Province and Group.	Bituming Quantity.	ous Coal. Value.	Anthra- cite Coal.	Coke.	Oil.	Wood.	Gas.	Total.1
	tons	•	*			•		•
77-4-4- 1401		ı ı		,	•	·	_	_
Totals, 1921	4,193,971	31,752,681	1					51,640,912
Totals, 1922	4,101,463	29,914,585	3, 616, 185	3,299,016	5,649,671	2,085,444	1,616,802	48,920,505
Totals, 1922	5,338,446	38, 283, 135	4,614,239	3,238,257	6,241,692	2,514,157	1,901,058	59,786,988
Totals, 1824	5,518,256	34,438,654	4,642,654	2,250,232	5,780,752	2,695,064	4,711,156	57,068,214
Totals, 1925	5,982,197	34,034,531	2,564,489	5,045,239	7,246,961	2,700,975	3,570,180	57,818,701
Totals, 1926	6,409,227	36,723,359	2,266,935	4,176,584	7,371,769	2,645,505	4,233,073	59,495,997
Totals, 1927	6,479,803	36,453,827	2,435,720	3,890,378	7,220,529	2,492,495	5,272,735	60, 106, 218
Totals, 1928	6,629,736	37,871,736	2,070,989	1,819,347	7,300,552	2,439,104	5,434,805	59,761,267
Totals, 1929	7,062,234	39,315,723	1,\$86,332	2,351,542	8,778,491	2,693,629	6,214,847	61,425,488
Totals, 1930	6,385,728	34,073,563	1,892,789	1,927,214	7,847,542	2,282,402	l	56,518,747
PROVINCE, 1930. P.E. Island. Nova Scotis New Brunswick. Quebec Ontario Manitobs. Saskatchewan Alberta British Columbia and Yukon GEOUP OF INDUSTRIES, 1930.	3,233,589 183,102 141,225 157,840 221,608	1,727,211 1,438,892 10,333,944 16,680,588 1,334,264 805,370 504,971	27,728 9,976 903,867 848,237 87,328 9,574 1,298	4,098 117,132 31,014 431,431 1,075,206 60,199 83,761 22,628	505,757 53,826 2,076,804 2,862,161 246,882 477,953 118,665	59,016 179,974 609,664 807,985 175,536 40,941 24,435	451,402 18,115 561,167 4,016,919 126,022 174,592 455,155	1,743,591 15,165,061 27,044,693 2,521,758 2,003,206 1,513,551
Vegetable products Animal products Textiles Wood and paper Iron and steel Non-ferrous metals Non-metallic minerals Chemicals Miscellaneous industries. Central electric stations	334,824 444,591 1,734,543 1,034,434 375,951	1,941,888 2,714,980 9,702,828 4,864,989 1,930,751 6,615,310 1,262,988 284,202	717,710 210,846 78,950 91,850 58,802 18,670	375,478 208,023 693,458 62,739 14,590	193,267 83,808 1,020,964 1,717,569 1,042,471 2,339,380 84,926	460,089 48,254 667,562 65,025 93,343 454,463 15,221 7,044	73,343 90,402 190,102 1,942,182 181,975 2,716,859 22,795 21,595	3,640,109 3,377,826 12,671,180 9,649,582 3,677,638 13,103,310 1,572,930 407,444

Includes other kinds of fuel which, in 1930, were as follows: lignite coal, \$1,296,160; gasolene, \$420,636; other fuels, \$825,313.

Section 5.—Manufacturing Industries in Cities and Towns.

The prosperity of most of the cities and towns of Canada, especially in the East, is intimately connected with their manufacturing industries, which provide employment for a large proportion of their gainfully employed population. In the West the cities are more largely distributing centres, though manufactures are rapidly increasing there also.

Table 34, indicating the extent to which the manufacturing industries of Canada are concentrated in urban centres, shows by provinces the proportion of the gross manufacturing production which is produced in cities and towns having a gross production of over \$1,000,000 each. In the more highly industrialized provinces of Ontario and Quebec such cities and towns account for about 88 p.c. of the total, while in British Columbia and Prince Edward Island, where sawmilling, fish-packing, and dairying are leading industries, the proportion falls to 56 p.c. or less. In the Prairie Provinces manufacturing is largely confined to a few large urban centres.

34.—Cities and Towns with a Gross Manufacturing Production of over \$1,000,000 each, Number of Establishments and Total Gross Production in such Cities and Towns as a Percentage of the Grand Total, by Provinces, 1930.

Nove—Statistics published in this table are in some cases higher than the figures published in Table 34, since, in the table below are included statistics of towns with less than three establishments and production of over \$1,000,000 each. It was not possible to publish this information in Table 36 without disclosing the operations of individual establishments.

Province.	Cities and Towns with a Gross Production of over \$1,000,000 each.	Establishments Reporting in Cities and Towns Producing over \$1,000,000 each.	Total Production in Cities and Towns Producing over \$1,000,000 each.	Total Production in each Province.	Production in Cities and Towns as a Per- centage of Total Pro- duction in each Province.
	No.	No.	\$	*	p.c.
Priace Edward Island. Nova Scotia Now Brunswick. Quebec. Ontario Manitoba. Saekatchewan Alberta. British Columbia.	10 9 55 111 7	273	68,789,291 45,487,896 875,429,966 1,539,442,139 131,481,877 53,511,357 81,168,277	85,802,931 63,468,262 1,022,280,687 1,713,025,322 142,424,990 62,276,766 94,314,782	80·0 7[·7 85·6 90·0 92·3 85·9 86·1
Canada	215	11,794	2,933,271,227	3, 428, 970, 628	85.5

The five chief manufacturing cities of Canada are Montreal, Toronto, Hamilton, Winnipeg and Vancouver. Statistics showing the trend of production in these cities during the latest nine years for which the figures are available are given in Table 35. According to the census of 1921, Hamilton was proportionately the most largely dependent of these cities upon manufacturing industries. About 45 p.c. of its gainfully employed population was employed in manufacturing, as compared with 30 p.c. in Montreal and Toronto, and 17 p.c. in Winnipeg and Vancouver.

Twenty-one other important cities with a gross production of manufactured goods of over \$20,000,000 each in 1930 were as follows, in descending order of the

value of their products: London, East Windsor, Kitchener, Oshawa, Walkerville, Calgary, Quebec, Three Rivers, Ottawa, Peterborough, Brantford, Sarnia, Edmonton, Niagara Falls, Regina, Shawinigan Falls, Montreal East, New Toronto, St. Boniface, La Salle and Sault Ste. Marie. Statistics of manufactures of cities and towns with a gross production of \$200,000 and over and with three or more establishments are given for 1930 in Table 36.

35.—Principal Statistics of the Manufacturing Industries of Five Leading Manufacturing Cities of Canada, 1922-30.

City and Year.	Estab- liah- ments.	Capital.	Em- ployees.	Salaries and Wages	Cost of Materials.	Gross Value of Products.
	No.	1	No.	•	*	\$ -
Montreal 1922 1923 1924 1925 1926 1927 1928 1929 1930	1, 461 1, 451 1, 560 1, 661 1, 736 1, 823 1, 834 1, 818 1, 825	350, 839, 911 473, 624, 425 469, 354, 640 517, 209, 355 543, 557, 135 552, 788, 702 481, 181, 947 495, 081, 057 485, 332, 186	78, 100 85, 603 86, 648 90, 584 96, 141 98, 353 101, 668 104, 330 98, 905	81,829,111 93,943,718 94,725,516 98,441,694 119,364,475 113,797,512 119,226,844 125,501,945 115,753,191	198, 697, 069 226, 198, 441 224, 134, 382 233, 387, 050 275, 714, 320 259, 104, 230 273, 015, 114 293, 927, 832 250, 718, 415	389,098,176 459,254,656 444,852,084 460,252,857 556,236,407 540,267,591 554,311,571 598,832,894 532,404,756
Toronto		392, 469, 184 389, 772, 678 410, 244, 068 429, 165, 022 451, 233, 686 475, 475, 308 505, 207, 658 549, 328, 334 524, 161, 983	78,833 82,267 80,001 82,728 86,439 92,238 100,034 102,406 94,745	92, 930, 846 97, 417, 033 96, 554, 310 100, 769, 782 107, 734, 556, 907 125, 579, 590 133, 722, 929 121, 221, 281	205, 568, 765 210, 786, 422 213, 493, 889 246, 399, 340 270, 225, 471 293, 830, 796 304, 208, 614 253, 974, 080	394,065,052 409,829,557 401,367,127 447,098,824 489,522,114 520,066,313 565,444,323 593,253,569 521,540,080
Hamilton 1922 1933 1924 1925 1926 1927 1928 1929 1930	437 436 427 415 417 422 426 410 439	143, 168, 098 170, 378, 119 170, 993, 755 166, 294, 590 172, 345, 590 179, 328, 754 201, 584, 803 221, 427, 642 214, 227, 256	23,476 25,797 23,772 23,619 27,087 29,210 30,787 35,376 31,053	26, 256, 146 31, 399, 136 28, 513, 251 27, 977, 960 33, 244, 170 36, 984, 470 40, 276, 968 47, 535, 648 39, 661, 672	50, 844, 910 77, 140, 899 56, 884, 010 62, 102, 984 74, 066, 846 72, 757, 263 79, 114, 898 94, 404, 240 75, 785, 902	100, 280, 131 141, 097, 732 118, 591, 000 122, 207, 849 146, 037, 049 152, 107, 454 166, 262, 355 197, 949, 081 166, 910, 535
Winnipeg. 1922 1923 1924 1925 1926 1927 1928 1929 1930	436 424 411 409 446 468 491 501 519	46, 251, 206 70, 788, 577 87, 489, 506 89, 688, 323 96, 801, 985 108, 635, 885 115, 678, 092 125, 321, 028 123, 781, 546	10, 679 11, 542 11, 934 14, 346 15, 474 16, 759 18, 340 19, 150	13,858,116 14,704,566 15,395,262 18,390,797 20,086,067 21,290,167 23,994,480 25,216,832 25,844,816	36, 766, 668 38, 172, 282 40, 837, 275 42, 388, 504 46, 504, 703 48, 921, 620 35, 275, 785 55, 116, 644 45, 720, 081	66, 925, 392 70, 529, 471 74, 755, 670 79, 614, 829 87, 696, 243 95, 590, 961 105, 456, 065 109, 320, 746 94, 407, 201
Vancouver	485 507 498 507 523 556 620 639 681	75, 030, 953 80, 053, 568 93, 699, 451 102, 105, 028 106, 624, 727 116, 754, 995 123, 029, 880 129, 078, 372 126, 684, 902	10,598 11,400 13,417 13,334 14,781 14,897 16,013 16,663 16,068	10, 579, 482 13, 815, 995 16, 920, 959 16, 384, 973 18, 347, 299 19, 254, 035 20, 263, 435 21, 882, 312 20, 874, 524	35, 507, 418 40, 518, 790 43, 691, 647 42, 020, 970 46, 120, 382 47, 290, 240 49, 597, 035 50, 933, 163 45, 730, 258	63, 172, 964 71, 221, 905 77, 860, 759 75, 823, 721 84, 831, 423 87, 754, 347 94, 131, 608 99, 646, 413 90, 975, 000

36.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1930.

City or Town,	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.		\$	\$
Prince Edward Island—						
Charlottetown	35	2,195,412	522	511,982	1,056,887	2,097,576
Summerside	14	388,842	111	66,296	144,100	306,789
97 G - 44.						
Nova Scotia—	100	21,049,113	3,986	4,568,220	6,071,349	16,067,662
HalifaxDartmouth	14	14.169.884	1.039	1,452,438	11,656,859	15,397,621
Sydney	81	26,808,824	2,238	2,729,247	6,479,682	14,507,166
Sydney Treaton Liverpool	3 11	9,826,450 18,650,501	947 707	1,186,825	4,443,504 1,499,663	6,789,798 5,027,063 3,505,910
Truro Amherst New Glasgow Yarmouth	29	18,650,501 4,851,735	966	1,074,553 751,770	1,499,663 1,799,772	3,505,910
Amherst	25	5 281 520	723 673	718,906 [1,050,489	1 2,412,708
New Glasgow	30	2,757,006 2,464,272	496	672,764 365,833	780,441 818,159	2, 131, 893 1,758,253
Windsor	30	2,579,431	285	236,320	663,816	1,196,217
Windsor Lunenburg Bridgewater Pictou Glace Bay Lockport Stellarton Port Hawkesbury North Sydeov	14	2,579,431 618,377	263	228,050 [349,274	759,900 630,056
Bridgewater	17 10	934,106 462,012	184 297	160,919 152 231	389,548 338,451	615,879
Glace Ray	8	1.229.069	75	152,231 92,243	28,832 307,996	516,058
Lockport,	6	418,274	182	79,287 69,714 92,788	307,996	482,013 480,205 428,963
Stellarton	11	799,478	82 153	69,714	122,103 235,547	428 983
North Sydney	5 12	582,024 223,614	122	108,682	245,271	417,819
Oxford	12	344.087	129	93,118	200,072	362,728
North Sydney Oxford Shelburne	19	306,980	171	137,907 66,586	171,578 196,290	349,852 339,268
Clarke Harbour	1 (1	543, 362 39, 823 441, 230 288, 862	80 79	20,656	275, 103	338,877
Hantsport	9 5 7	441,230	138	101,160 45,785	99,932	307.435
Midaleton	. 7	288,862	74 87	45,785	181,078	280,703 263,164
Hantsport. Midaleton. Stewiacke. Wolfville.	3 6	211,418 151,523	38	65,031 38,718	146,000 96,917	284,151
Bridgetown	i 81	617,599	80	62,778 69,331	114,845 68,715	207,907 200,059
Mahone Bay	12	617,599 346,781	115	69,331	68,715	200,059
New Brunswick—						
Saint John	126	24,885,946	3,513	3,606,363	12,355,168	19,883,665
Moneton	. 42	8,369,132	2,332	2,813,500	3,882,502	7,897,453 4,647,405
		16,482,184	588 576	652,973 505,187	2,056,505 1,369,042	2,686,641
St. Stephen. Bathurst Fredericton. Sackville. Grand Falls.	18 17	2,396,491 9,324,781 2,966,801	528	505,187 698,597	1,123,181	2,498,097
Fredericton	. 31	2,966,301	590	605,460	1,040,881 320,367	2,120,858 1,144,621
Sackville	16 11	1,883,364 13,945,629	471 135	$\begin{array}{c} 404,197 \\ 117,822 \end{array}$	107,480	1.067.975
Sussex	13	580.744	198	117,822 160,265 388,448	451,506 542,621	927,872
		2.063.620	480	388,448 205,201	542,621 450,187	874,757 864,006
Chatham		3,016,119 2,078,774	248 250	179,173	449.207	733,772
Compheliton	iš	1,181,380	206	225,286	375.068	714, 178
Newcastle Campbellton St. George Woodstock	. 8	532.724	138	110,662 84,119	108,506 64,724	277,678 269,107
Woodstock	. 17	646,931	103	04,113	01,125	250,101
Quebec—				*15 759 101	250,718,415	532,404,756
Montreal	. 1,825	485,332,181 68,153,767	98,905 9,824	115,753,191 9 349 274	15,470.992	38,314,617
Quebec. Three Rivers. Shawingan Falls. Montreal East. LaSalle.	243	80 842 254	5.896	9,349,274 6,296,342 4,745,684 2,757,205	17,142,507 4,581,949	38,314,617 37,972,620
Shawinigan Falls	23	178,967,616 34,739,735 27,934,981	3.573	4,745,684	4,581,949	24,510,936
Montreal East	6	34,739,735	1,816 1,319	1,703,325	12,723,156 7,112,880	22, 184, 054 21, 170, 280
LaSalle	32	30.950,769	3,368	5,690,264	7.187.771	17,387,918
Sherbrooke	. 68	24,152,604	4.353	4,319,521	6,766,771 4,745,358	15,946,699 11,385,686
Granby Drummondville	. 31	10,208,353	2,923	2,101,466 2,532,494	4,745,358	9,794,346
Drummondville	18	20,271,132 12,580,178	2,674 1,924	2,106,182	3.660.170	1 8,960,340
Hull	45	10.858.961	1,924 2,793	1.970.688	4,588,840	8,290,331 7,826,768
St. Jean	41	10,965,758	2.868	2,784,367 1,728,771	3,491,877 2,301,879	7,399,204
St. Jérôme	30	8,014,702 34,454,311	2,153 712	1.024.395	3,221,945	6,827,468
Port Alfred	16	6,670,130	1.345	1,024,395 1,125,795	4.519.277	6,790,091
Fort Alfred Magog Valleyfield La Tuque Westmount Kenogami	. 27 10	6,670,130 12,817,791 13,353,866	2,673 896	1.683.749	2,911,120 1,909,887	4,963,241 4,870,225
La Tuque	10 13	13,353,860 3,692,368	896 891	1,307,459 1,250,799	1,909,887 1,510,961 1,836,162	4,451,247
				1.077,902		4,440,336

36.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1930—continued.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
		_				
Imphes continued	No.	\$	No.		\$	\$
luebec—continued. Cap de la Madeleine	. 12	19.942.788	818	798, 517	1,896,647	4,363,63
Grand'Mère	16	25,768,133	1,091	1,263,315	1,602,192	4,357,99
St. Pierre	i 11 1	7, 905, 163	1.097	1,566,300	1,255,840	4,216,88
Donnacona	3	9,881,506 4,026,789 14,601,580	607	92,930	973,536	3,721,03
Montmorency St. Joseph d'Alma	اقة إ.،	4,026,789	1,283	1,000,446 783,703	973,536 1,987,907	3,633,84
St. Joseph d'Alma	8	14,601,580	499	783,703	1,964,051	1 8.474.42
Victoriaville	23	2,939,892 8,234,287	1,099 615	940,166	1,465,885 2,259,609	3,042,58 2,997,81
East Angus	27	14,738,255	557	704,220 542,996	2,259,009 470,044	2,840,76
Borel	17	2,775,946	806,1	1,490,138	936, 592	2,819,05
Beloeil	11 1	2,775,946 4,938,586	254	339,458	936,592 1,073,727 1,012,904 804,522	2,819,05 2,808,72
Joliette	41	2,584,290	755	339,458 589,145	1,012,904	$\{2,551,00$
Brownsburg	4	3, 128, 143	496	503,113	804,522	2,503,41
Beauharnois	7 /	6,281,370	509	490,669	671,078	2,443,79
Lauson	. 6 18	2,963,468 3,848,445	938	526,161	589,144	2,351,51 2,338,96
Verdun	:: ii	2 576 164	612	866,224 574,822	1,058,466 1,106,275	2,335,90
Outrement	∷ *†	2,576,164 1,745,460 6,495,234	580	574,822 725,358	972. C62	2,199,20
Windsor	! 81	6,495,234	562	694,456	972, C62 927, 079	l 2.107. 41
Coaticook	20 ↓	2,481,410 1,399,760	624	377,837	983,580	1,738,92
Farnbam	10	1,399,760	499	862,884	933,466	1,595,94
AsbestosLouiseville	10	620,539	166	194,333	1,087,605	1,542,47
Louiseville	11 4	1,299,994 1,620,658	536	304,559 418,576	1,030,035	1,502.79
DelsonLongueuil	∷ 11	3,089,280	393 230	418,370	379,806 479,678	1,408,97
Chandler	ີ "2.1	3,206.622	425	302,426 408,937	379,806 478,978 668,487	1,406,71
Buckingham	∷ 13 l	16,725,387	459	314,443	569,722	1,333,10 1,317,79
Rarthier	. 14 1	6.987.387	366	329, 135	641,687	1,238,16
Rimouski	10	3,501,163	306	285 125	493 347	1,205,44
Montmagny	14 1	3,501,163 2,298,524	442	371,370 64,077 169,721	328, 153	1,178,97
St. RémiPortneuf	. 12	508,472	85	64.077	809,064	1,116,79
Portneut	. 10	1,463,346	207	169,721	502,002	1,032,84
Jonquière. St. Georges Est Plessisville	11 10	1,857,925 417,132	215 168	283,378 161,642	542,100 630,348	1,024,70 974,67
Plessiaville	::\ i\(\cdot\)	886,864	291	944 675	486,641	941,22
Acton Vale	∷l iöl	649.412	311	172,453	615, 191	916, 94
Acton Vale	.] 14	649,412 732,672 415,651	283 222	242,615	586,708	852,16
Iberville	9	415,651	222	376,690	170,771	851,69 838,39
Rock Island	. 12	1,934,903	297	172,453 242,615 376,690 258,305 265,934	615,191 586,708 170,771 319,939	838,39
Loretteville	18 7	769,460	378	265,934	420,407	825,04
Laprairie	: 17 l	7,513,748 2,077,926	372 291	379,483 314,234	55,005 256,372	803,18 772,39
St. Raymond	∷ 73	1.032.634	225	160,901	322.802	749,62
St. Raymond St. Laurent	. 8 1	1,032,634 938,506	269	160,901 283,858 152,566	322,802 358,386	739,94
Thurso	91	1,276,076	132	152,566	554,398	738,60
Bedford	71	927,307	325	251,056	83,887	704.72
Waterloo	10, ի	841,252	244	192,887	266, 262	667,23
Lennorville	. 6	1,179,229 919,824	85 134	114,219	401.754	632,03
Pont Rouse	ː 13	781,360	105	133, 156 85, 504 97, 832	374,776 272 415	604,72 534,85
Pont RougeLac au Saumon	∷ *š	1,316,060	105 203	97 832	272,115 311,328	496, 48
Warwick	1ž l	551,558	146	105,568	291,681	494.70
St. Thérèse	14	995,071	159	119,219	189,935	490,99
Terrebonne	10	967,000	221	174 100	245, 593	482,44
Ste. Marie	13	276,542	215	108.482 92,701 129,937 116,755	287,261 167,882	471.12
Compton	3	167,602	151	92,701	167.882	464.78
Compton	. 15	167,602 923,746 274,641	121 155	129,937	132,811 233,842	454.97
Contrecœur	. 6	294,456	156	109,786	231,408	425,87
Lévis	∐ 1š	624,018	178	147,888	135,610	398,20 396,73
Mont Joli	71	271,595	100	62.240 L	212,991	386,74
Nicolet	. 11 !	340,649	161	105,998	210,938	382,31
Huntingdon	. 9	296,055	82	105,998 47,778 96,414	236,519	378,07
MéganticSt. Lambert	. 9	664,263	112	96,414	149,008	374.36
Sectatoring	9 1	910, 929	136	126,926	126,171	372, 12
Scotstown New Glasgow Shawville L'Assomption	: 3	281,631 203,735	134 39	111,559	133,182	345,13
Shawville	9	110,083	37	13,217 27 500	168,770 248,859	335,86 330,34
L'Assomption	[] Ž	387,761	117	98 681	184,476	323, 10
TABOUT 100	• 1	722,117	89	27,500 98,681 70,547	182,034	322,67
St. Tite	15 [164,292	93	60,179	196,079	284,63
Danville	. 10	307,088	I 85 ∣	72, 275	182,378	276, 19

36.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1930—continued.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	\$		*
Quebec—concluded.			ا مما			. .
Disraeli	9,	60,721 175,135	82 109	43,520 60,743	170,688 128,848	265,184 257,963
Beauceville Beauport	10	108,146	53	44,191	128,070	250,316
Sutton	i šl	275,795	80	58.483	148,761	249,948
Beebe Plain.	5 1	192,391	72	54,025	151,919	243,790
St. Marc des Carrières	. 6	78,668	99	74.203	35,761	235,942
Mont Laurier Ste. Anne de Bellevue	8 6	174,394 719,504	43 79	35, 182 83, 213	160,512	233,808 233,671
St. Félicien	. 23 l	242,869	93	28,421	48,023 160,965	225,748
Papineauville	. 4	38,941	15	9,550	181,695	216,425
Thetford Mines	15	412,552	100	87,078	81,211	215,385
Ontario-					İ	
Toronto	2,320	524, 161, 983	94,745	121,221,281	253,974,080	521,540,080
Hamilton	. 439	214,227,256 46,838,810	31,053	39,661,672	75,785,992	166,910,535
London East Windsor	. 228	46,838,810	9,366	11,014,370	17,786,502	45,497,024
Kitchener	14 135	41,428,765	6,004 8,374	9,778,461 8 998 423	25,652,099 18,739,948	44,123,658
Oshawa	43	38,911,220 32,505,290	5,381	8,928,433 4,522,593	25,474,132	41,893,483 41,382,402
Walkerville	. 62	36.022.961	4.694	6,946,923	22,951,007	1 39,586,056
Ottawa Peterborough	208	57.295.811	8,255	10.249,938	14, 257, 043	33, 104, 464
Peterborough	. 88	26,310,208	5,310	5,545,738	17,056,759	32,021,081
Brantford	. 105 42	63,571,322	6,775 3,202	7,440,750 4,616,369	13,941,043 20,427,450	29,049,118 27,936,512
Ningara Falla	69	26,128,121 45,745,986 24,644,287	2.852	4,616,369 4,098,130	8,005,870	27,936,512 27,152,123
New Toronto	. 13	24,644,287	2,648	3,990,871	8,005,870 10,935,934	[22,089,673
Sault Ste. Marie	. 46	68,346,064	1 2 255	3,744,842	9,360,324	20,311,921
ot. Catharines	.] 104	20,767,205	4,244	4,811,394	8,206,088	19,022,105 18,038,726
Welland	. 39 135	22,009,000	3,061 3,290	3,502,252 5,001,488	5 625 993	16, 882, 358
WindsorCornwall	41	22,539,035 27,503,583 25,253,452 16,974,035	3,673	5,091,488 3,547,423	9,118,885 5,625,993 5,756,701	16,882,358 15,797,802
Guelph	. 88	16,974,035	4,042	3,972,366	6,116,189	13,790,268
GuelphPort Colborne	, 18	11,881,252	721	1.062,752	10,518,090	13,584,724
Galt	1 77	16,270,332	4,023	4,156,855	5,196,005	12,896,121
Fort WilliamLeaside	. 41	29,831,639 12,660,369	1,287 1,614	1,778,956 2,391,193	5,273,460 7,706,879 4,852,749	12,553,998 12,308,440
Thorold	18	28.494.101	1 1 514	2,410,563	4,852,749	11.876.495
Chatham	56	28,494,101 14,248,051 11,176,325	1 2.008	2,410,563 2,315,524	7,070,269	11,841,496
Chatham Stratford	. 59	11, 176, 325	2,982	3,650,679	5,997,548	11,622,122
Woodstock	. 58	12,028,624	2,507 279	2,484,403	5,400,717 7,920,388	10,895,478 9,469,367 8,849,496
KeewatinIroquois Falls	. 3	4,046,212 26,443,546	1,098	2.003.383	2.339.126	8,849,496
Brockville	1 31	7.149,654	979	366,333 2,003,383 1,101,561	2,339,126 5,913,710	1 8,848,870
Fergus	. 14	7,149,654 1,706,971	743	836,125	2,401,319	8,528,966
Fergus Wallaceburg Kapuskasing	. 17	7,507,275	1,042	1,274,776	5,012,340	7,816,053 7,568.916
Kapuskasing	9	43,293,984 12,560,315	1,193 1,360	1,731,579 1,493,747	2,575,951 2,775,310	7,563,607
WaterlooKingston	57	13,824,851	1,632	1.996,160	3,400,460	7,132,752
Simcoe	. 28	13,824,851 6,284,950 18,672,539	835	704,243	3.441.633	6,051,825
Kenora	18	18,672,539	554	675, 265	3,544,823	5,964,086 5,965,218
LeamingtonBelleville	. 15	4,564,527	558 1,368	545,306 1,355,002	3,462,536 1,461,046	5,855,218 5,759,034
Port Arthur	46 23	11,203,325 20,147,935	1,082	1.560.249	1,932,779	5.520.947
Owen Sound,	. 54	7,046,547	1,712	1,560,249 1,708,819 1,678,344	1 2.440.504	5,268,119
Preston	. 33	6,649,871 2,505,270	1,633	1,678,344	1,997,180	4,873,204
Goderich Newmarket	. 20	2,505,270	387	366,048	3,578,615	4,829,488 4,751,312
Newmarket	16 35	2,392,513	640 1,243	680,923 1,075,936	1,697,664 2,540,441	4,629,874
PembrokeFort Francis	13	6,105,322 14,415,339	614	941.643	1,738,331	4,586,141
St. Thomas	45	4,130,686	1,121	941,643 1,108,480	1,738,331 2,135,807	4,367,172
St. Thomas	13	4,351,951 5,306,861	941	1,121,168	2,112,835	3,713,710
St. Marys Merritton	. 19	5,306,861	441 503	563,464 670 734	1,737,821 1,398,678	3,707,118 3,437,993
Merritton	9 19	5,240,072 5,018,077	1,049	679,734 902,661	1,601,022	3.412.835
Paris	1 20	3,940,919	660	[689,162	1 1.848,232	3,402,980
Ingersoll	23	3,940,919 4,397,315	710	796,654	1,862,988	3.222.741
Ingersoll Sandwich	. 12	8,095,060	665	987,332	365,540	3,152,398 3,123,742
Cardinal. Bowmanville	. 8	8,773,291	270 520	365,498 556,551	1,925,158 1,300,210	3,121,374
Bowmanville Orillia	.1 16	3,558,084	921	979,466	1,300,210 1,332,541	3.095,909
	20	5.777 70H	yzı	518.300	1,000,041	
ChippewaSudbury	.] 36	5,777,700 1,887,952 3,257,811		383,480 626,703	794,382 1,346,827	8,063,689 2,910,291

36.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1938—continued.

City or Town.	Estab- lish-	Capital.	Em- ployees.	Salaries and	Coat	Gross Value
	ments.		pioyecc.	Wages.	Materials.	Products.
ntario-continued	No.	\$	No.	\$	\$	*
Hawkeebury	.l 91	4 702.959	470	502.010	1,701,860	2,905,4
Brampton	24	4,702,959 2,701,322 4,592,784	892	592,910 901,548	1,304,297	2.867.1
Dundas	.l 20 l	4,592,784	740	903.494	1,304,297 1,558,294	2,867,1 2,848,0 2,804,7
Acton	. 15	3.423.514	526	536,214	1,733,429	2,804,7
Perth	. 19 /	3,884,407	688	786,718	1,165,045	2,785,9 2,782,3
Elmira	14	2,540,283	698	607,721	947,847	2,782,3
Petrolia Midland	13	2,256,001 3,744,312	178 488	239, 162	1,754,555	2,768,3
Trenton	28	3,744,312	621	460,482 588,677 462,422	1,796,841	2,684,9 2,680,0
Amherstburg	l ĩố l	4,020,679 14,017,756	320	462,422	1,469,006 512,711	2,601.4
Georgetown	. 14	2,420,365	502	500,569	1,552,411	2.545.3
Hespeler	. 14 1	5,900,100	1,006	896,611	1.101.826	2,538,1
Huntsville Bridgeburg	12	3,095,649	305	288,462 669,711	1,587,959 961,743	2,496,0
Bridgeburg	ן 21	2,280,892	351	669,711	961,743	2,424.5
Aylmer Hanover	. 11	2,680,538 3,764,194	270 783	270,530 714,218	1,239,394 1,177,694	2,393,8 2,392,2
Cabauma	16 30 30 1 30 1 30 1 30 1 30 1 30 1 30 1	2,444,172	470	433,656	851,070	2,084,2
Cobourg. Dunnville.	. 20	2,648,446	720	696,727	946,229	2,109,1
AUPOFR		1,318,326	365	378,618	1,299,639	1.992.3
Chesterville] 7	1,000,049	193	237,820	1,145,831	1.939.1
Carleton Place	. 15	2,009,130	539	569,422	641,572	1,849,3
Smítha Falls	.] 19 (2,009,130 4,820,774	570	641,442	751,096 1,021,350	1,849,3 1,837,1
Port Credit	. 5-	3,014,180	230	267,226	1,021,350	1,826,9
Blind River	. 6	7,709,175	290	388,960	1,173,125	1,820,4
Napanee	19	1,445,969	307	325,710	877,357	1,769.
Port Hope Collingwood	28 25	2,981,971	553 476	598, 100 405, 277	556,721 000 501	1,790,
Barrie,	i 18 l	4,669,437 1,624,134	312	495,277 367,721	900,501 1,053,379 887,031	1,745,1 1,717,9 1,723,6
Lândea v	36	2,309,127	433	415,899	887.031	1,704,
Lindsay Tillsonburg	. 20 l	1,801,671	358	327,531	966,388	1.634.7
Аут	.l -⊺š!	1.822.592	126	125,529	637, 160	1.621.
L48COWel	. 15	1 190 194	439	333.579	807,062	1,522,1
Oakville North Bay	. 16	1,398,624 1,776,424 1,483,781 1,583,034 1,331,068	367	434,569 357,032	800,899	1,498,3
North Bay	25	1,776,424	317	357,032	685,465	1,438,6 1,375,
Strathroy	. 16	1,483,781	275	270, 287	808,454 698,555	1,375,4
Kincardine	13 12	1,553,034	420 426	377,295 298,019	580,618	1,308,
GrimsbyGananoque	. 21	9 709 505	348	410,233	617,872	1,285,
Armeior	16	2,798,595 1,691,778	297	277, 423	535,887	1 1.253.9
Arnprior	il fål	5,636,424	312	277,428 329,355	489,473	1,253, 1,225,
Tavistock	. 10 l	473,610	182	155,941	489,473 967,887	1,225,
Lakefield	. 10	473,610 3,307,237	191	227,438	144,653	1,191,
Caledonia	. 10	2,038,466	214	239,695	562, 171	1,154,:
Messford	. 14	1,348,923	302	255,674	728, 781	1,144.
Cache Bay	. 3	1,307,681	191	223,382	791,947	1,101.
Cache Bay Sturgeon Falls Prescott	8 16	7,979,243 1,036,048	282 283	92,201	791,947 555,991 488,519	1,100, 1,099,
Pieton	24	1,000,040	294	392,281 238,866 172,752	660,888	1,086,
Picton	14	1,259,698 1,018,331	374	354,147	504,118	1,033,
Chesley Woodbridge	. 13	684,650	163	178,185	570 M45	965
Milton	18	3,038,489	342	353,960	225,933	962.
Walkerton,	. 20	1 777,905	280	245,769	1 488,750	961, 946,
Bloomfield	. 11	1.141.298	272	120,859	646,090 530,907	946,
Burlington Gravenhurst Wingham	.] 9	1,233,914 1,459,817	209	209,444	530,907	940,
Liravenhurst	. 10	1,459,817	302 226	301.879	302,744	936, 924,
Elora	13 8	758, 104	244	208,533 297,423	541,696 270,136	905,
Elora	18	1,471,490 1,602,309	263	272,998	544,349	878,
New Liskeard Humberstone] "9	636,858	205	192,656	426,445	J 875.
Brighton	. 18	636,858 1,018,339	220	l 111.982	426,445 477,222	874.
Brighton Copper Cliff Campbellford	. 4	1 8.654.717	131	135,053	j 202,957	874,
Campbellford	. 16	1,290,208	283	245,541	664,560	869,
Wellington Penetanguishene	. 8	I 1 10012 411	155	100.230	488,201	784,
Penetanguishene	. 15	1,164,918	316	836,259	289,668	778,
Norwich	.1 12	1,164,918 398,559 1,189,601	97	1 89,865	538.064	772,
Almonte Tilbury	17 8	1,189,601	317 213	240,186 154,002	420,974 400,362	768,
Tilbury Orangeville Whitby Mount Forest Sioux Lookout	13	857,978	175	1 146 022	400,362 427,351	735, 691,
Whithy	3 8	862,928	236	230.749	287,475	674,
Mount Forest	18	716,412	168	230,749 147,902 93,863	372,486	653,
Sioux Lookout	.] 8	796,829	118	93,863	l 390.892	643,
Cliaton	.1 12	660,242	142	134,413	373,396	643.

36.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over and with Three or more Establishments, 1930—continued.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
Ontario-concluded	No.	•	No.		<u>.</u>	
Bracebridge	17	1.611.495	189	164.917	363,265	639,130
Bracebridge New Hamburg	l 13 l	1,611,495 816,684	176	164,917 154,799	815,464 418,133	625,048 605,798 602,885
Deseronto Frankford	11	535.411	155	74.035	418, 133	605,798
Frankford	11	1,718,406	191	69,473	365,427	602,885
Forest	11	615,351 652,231	144	97,118 75,864	342, 103 401, 385	602,710 601,240
A lovondria	16	622 032	136	126,635	310,867	599, 674
Streetsville	liŏ	507.886	103	134,923	250,587	590, 621
Exeter Alexandria Streetsville Port Elgin Tweed	[9]	622,932 507,886 670,228	181	134,923 188,479	252,665	590, 621 567, 789
Tweed	11	479,425	162	149,858	260,248	542,258
Southampton Durham Dresden	.8	914,387	197	187,593	257,302	532,390
Durham	10 12	502,485	190 130	159,476 115,669 118,187	317, 103 288, 333 271, 265	523, 273 520, 543
Harriston	ii	594,616 567,906 450,765	185	118, 187	271.265	506, 125
Harriston	14	450,765	140	130,540	943 025	500,176
Burks Falls	. 6	737,984 163,393	223	183,094	926 740	492,220
Jarvis	5	163,393	30	30,834	382,267	481,765
Jarvis L. Kingsville. Waterford Haileybury. Ridgetown	11 1	1.206.530	103	90,931	382,207 227,061 279,146	472,788 455,038
Waterford	7 5	486,884 1,079,995	130 94	72,319 100,586	279,146 179,893	455,038 433,812
Haileybury	15	549.092	95	70,008	252,244	431,833
Weterdown	8	540.092	107	122 421	I 93.971	429,202
South River		862 X/O	143	102,803	218,881	420,963
Waterdown South River Dutton	. 9	133,659 704,745 468,491	33	102,803 28,571 88,682	218,881 328,082 191,022	1 A16 Q16
Essex	. 10	704,745	104	88,682	191,022	413,625
West Lorne	7	468,491	85 98	60,018	263,634 269,042	412,044
Wiarton	11 9	402,304 430 218	83	83,892 71,802	244 007	405,859 395,325
Mitchell	. 6	430,218 712,781 231,673 536,195	81	70,664	244,007 13,738 257,296	385,064
Teeswater	ʻl ši	231,673	38	34 697	257, 296	381,179
Mimico Teeswater Port Dover Hagersville	. 10	536, 195	89	61,515	213,045	360,332
Hagersville	6	117,316	18	17,092	242,897 257,934	355,472
Markham	. 5	229,246	31	33,743	257,934	350,295
Hagersville Markham Port Dalhousie Milverton Lucknow Palmerston Timmins	10	369,400	91 75	83,053 59,716 63,347	137,309 197,047	340,049 327,204 821,923
Milverton	: ii	331,514 332,530 164,019	79	63 347	191,883	321.923
Palmareton	9	164.019	29	24.259	227, 165	305,845
Timmins	. 15	607,410	97	95,074	139,718	293,694
Casseman	-1 1	338.650	69	48,593	200,418	291,379
Mauatadt	1 4	229,768 102,215	63	38,388	145.556 217,489	279,558 272,726
Brussels Kemptville Tara Thesselon	9 7	285,177	17 57	12,156 50,165	152,078	266, 623
T	. }	67,984	ı is	15, 151	211,890	262,071
Thecosion	ا فا	472, 526	1 216	92,382	122,278	249,567
Stayner	. 8	101,355 110,341	27 28 86	20, 144	189,844	244,972
Paisley	. 9	110,341	28	21,158 47,453	173,634 87,213	240,702
Parry Sound	17	476,441 753,230	86	47,453	87,213	237,962 235,538
Stayaer Paisley Parry Sound Delhi Arthur Port Perry Niagara Fort Erie Fonthill Belle River Iroquois Reniem	8 4	753.230 60,943	58 8	40,508	164,082 188,344	233,995
Artnur	10	187,591	39	9,782 27,745	143,485	233,404
Niogora	ˈl -š	358.966	51	43,134	143,485 104,260 74,779	233,404 225,377
Fort Erie	. 5 5	530,915 344,602	43	54,311 31,093	74,779	223,844
Fonthill	. 4	344,602	79	31,093	1 122 780	222,036
Belle River	. 5	413,220	57 57	51,655	87,396 98,964	210,410
Iroquois	7 8	195,167 321,600	75	54,429 33,044	106,036	216,410 215,396 212,830
Bienneim	10	139,843	53	45,405	129,700	1 212.534
Bienheim Beamsville Uxbridge Winchester	i iŏ l	124.613	25	16.338	144 860	209,687
Winchester	. ii	118,394	42	24,560 29,370	135,233 133,798	206,083
Stirling	11 5	124,771 70,826	46 31	29,370 16,648	133,798 159,336	203,210 202,749
Manitoba—						A4
Winnipeg	519	123,781,546	19,749	25,844,816 1,857,246 3,005,126 559,757 182,762	45,720,081 15,709,540	94,407,201 21,985,750 6,827,784 3,266,441
WinnipegSt. Boniface	. 40	TO 092 734	1,491	1,857,246	15,709,540	Z1,985,750
Tronggoone		6,853,170 3,657,861 779,854	2,020	3,005,126	3,472,685 1,901,801	3 266 441
Brandon	. 36	3,057,801 770 084	433 149	189,757	1,823.634	2,568,671
Portage la Prairie	. 14	1,990,436	394	434,973	338.477	1,401,460
Brandon Portage la Prairie Selkirk The Pas Dauphin	:	1,212,794	271	318,734	338,477 447,755	1,024,570 506,735
Danohin	12	494,301	87	88,230	275,232	506,735
Neepawa Shoal Lake	. 6	222,630 84,615	49	49,284 16,672	186, 174 151, 850	308,825 205,210
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36.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1930.—concluded

City or Town.	Estab- lish- ments.	Capital,	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
Saskatehewan	No.	*	No.	\$, s
Regina	84	35,486,916	2,758	4,039,789	14,729,011	25,961,543
Saakatoon	64	9,529,233	1,402	2,001,260	6,956,714	12,741,166
Moosejaw	31 18	8,928,115 2,386,089	831 403	1,136,668	7,451,757	11,421,584 3,387,064
Prince Albert North Battleford	13	656,352	114	481,824 114,200	1,721,032 324,821	676.740
Swift Current	i 6 !	730,057	109	133.463	244,178	642,815
Yorkton	li i	449,585	71	62,917	232,414	477,714
Estevan	9	915,500	108	115,427	134,832	374,325
Mewburn	11 3	450,923 107,314	69 17	84,888 24,014	118,958 222,737	331,447 292,084
Humboldt	4	107,005	14	17.318	177.882	266,580
Alherta—	-]	201,000			27.11022	
Calgary	153	35,701.054	5,287	7,029,185	22,970,988	39,230,983
Edmonton	153	24,760,067	4,606	5,937,286	15,584,973	27,660,417
Medicine Hat Lethbridge	19 26	8,298,909 3,093,428	622 392	796,054 525,945	5,952,916 1,388,103	8,765,979 3,956,623
Raymond	3	2,575,139	140	172,452	1,110,826	1,554,275
Redcliffe	6	1,983,062	276	342,575	266,147	735,785
Wetaskiwin	8	241,765	29	31,900	246,921	326,501
Red Deer	8	194,205	34	49,117	161,451	305,131
CamroseDidsbury	9 7	213,507 192,9 5 2	32 30	43,861 30,778	159,170 168,631	266,319 245,919
Ponoka	7	69,624	14	17,439	156,004	216.721
Clairmore	7	360,317	52	70,987	110,620	211,140
British Columbia—						
Vancouver	681	128,684,902	16,068	20,874,524	45,730,258	90,975,000
New Westminster Victoria	62 145	15,602,513 20,811,902	2,329 2,962	2,878,242 3,798,688	7,963,106 4,175,295	13,811,847 12,252,589
North Vancouver	l *iš l	5,800,483	716	1.043.525	1,459,745	3.078.305
Prince Rupert	19	3,782,789	431	670,532	1,692,842	2,733,202
Rossland	5	10,812,023	410	596,470	20,619	2,436,695
Port Alberni	7 25	1,518,943 2,227,135	372 362	466,015 434,773	1,156,965 683,962	2,432,318 1,564,965
Nelson Nanaimo	25	1,545,711	441	405, 989	577,397	1,499,069
Fernie	9	6,524,950	198	252,261	484,352	1,403,063
Abbotsford	5	572,555	283	266,623	923,592	1,328,756
RelownaPort Moody	20	1,160,224	392	272,106 277,960	642,396	1,243,628
Duncan	111	1,512,457 729,975	259 271	322,967	500,566 357,883	1,104,071 862,132
Vernon	15	2.100.657	201	180,812	365,884	809,136
Kamtoops	15	926,988	278	198,691	322,048	738,860
Mission	9]	471,010	98	81,639	267,125	404,876
Cranbrook	11 1	428,376 1,241,385	82 67	116,870 85,901	146,626 124,833	400,316 377,793
Courtenay	ا ۋ ا	200,113	58	80.901	71,548	371,752
Merritt	أيَّةِ أ	316,293	79	97,961	151.053	288,342
Merrice			101			

CHAPTER XV.—CONSTRUCTION.

Construction is the most conspicuous example of a great industry carried on in almost complete dependence on a local demand. The building industry is not only the most widespread in its operation, it is one which expands most rapidly in good times when it attracts great numbers of general and casual workmen—a characteristic which explains the high rate of unemployment from which the industry periodically suffers. Again, apart from the effect of cyclical fluctuations of general business conditions, the construction industry is decidedly seasonal, although new types of construction and mechanical improvements are making it possible to work more steadily on all branches of construction the year round. Conditions in the industry are being transformed on account of the increasing substitution of reinforced concrete for wood and brick construction. Nevertheless, in the winter there is a serious contraction, especially in outside operations, while in the other seasons the contractors employ a much larger number of men, casually engaged, than can be retained throughout the year. A considerable number of the men are in no sense skilled artisans and the supply of unskilled men is generally in excess of the demand.

Relation of Construction Industry to General Business Conditions.—Statistics showing activity in construction are of particular interest both to those engaged in the industry itself and to those concerned with the supplying of its raw materials, such as lumber, steel, cement, paint, glass and hardware. All of these latter industries are prosperous when the construction industry is active, and depressed when it is at a standstill; again, the effects of their activity and depression are felt throughout the whole field of industry, so that the current conditions in the construction industry react powerfully upon the whole economic life of the nation. Thus, in the period between 1909 and 1913, construction, mainly financed with borrowed money, contributed in large measure to produce the "boom" of those years.

During the war period the industry was at a low ebb, except for the construction of munition plants, but after the War the housing shortage was a serious problem, and considerable building was undertaken in spite of the high cost of materials and skilled labour, as shown in Table 4. The urgent requirements due to the practical suspension of the industry during the War were fully met in the post-war years, but the peak of the inflation cycle in 1929 is reflected in the highest value of construction contracts on record, aggregating \$576,651,800, exceeding 1928 by no less than \$104,619,200 and the former peak year, 1912, by \$113,568,800. In 1932, the total value of construction contracts awarded had declined to \$132,872,400, which was \$182,609,600 or 57 ·9 p.c less than in 1931, and represented a decline of \$443,-779,400 or 77 p.c. from the peak in 1929. (See Table 2.)

Construction in Transportation and Public Utility Industries.—The expenditure for construction by the transportation and public utility systems is incorporated in their general maintenance and structural accounts. The maintenance of way and structures account of the steam railways in 1931 totalled \$66,109,521 as compared with \$78,035,587 in 1930, while investments in the road bed and equipment of new lines in 1931 totalled \$22,350,280 and in additions and betterments on old lines, \$42,804,071. There were 305 miles of new lines opened

for operation during 1931, 427.7 miles completed but not opened for traffic, and 592.9 miles under construction. Total track mileage in 1931 was 56,908 as compared with 56,642 in 1930, a net increase of 266 miles. The expenditure of electric railways on maintenance of way and structures account decreased from \$3,977,114 in 1930 to \$3,291,490 in 1931. There was a net decrease of \$5,909,416 during 1931 in the capital investment of electric railways.

As for the telephone systems of Canada, the pole line mileage increased from 222,113 in 1930 to 222,196 in 1931, and the wire mileage from 4,790,224 to 4,985,076 in the same period. The property and equipment account was \$319,101,191 in 1930 and \$333,055,119 in 1931.

The pole line mileage of the telegraph systems increased from 52,824 in 1930 to 53,228 in 1931, and the wire mileage increased from 367,721 to 368,583. The telegraph and cable companies reported new construction valued at \$1,089,413 and alterations and repair work costing \$1,179,376, or a total expenditure for construction of \$2,268,789 for the year.

Contracts Awarded,—A record of contracts awarded during the years 1911-32, as compiled by MacLean Building Reports, Ltd., is given in Table 1. The aggregate for 1932 is 77 p.c. less than for the record year 1929. It is the lowest figure since 1918, when new construction was largely suspended on account of the War. Immigration was exceptionally great in 1912 and an extensive building program was necessary to care for the rapidly growing population; railway construction was also very active. In 1928 the high level was largely accounted for by residential building and industrial contracts were considerably ahead of 1927. Although residential construction declined in 1929, the tremendous increase in engineering construction and the significant advances in building for business purposes combined to make the record total. While construction operations of all types declined in 1930 when compared with 1929, the declines were most pronounced in the industrial, residential and business types, whereas engineering construction continued very active and was nearly double that of any year prior to 1929. It will be observed from Table 2 that construction for all purposes has declined greatly since then to the very low level recorded in 1932.

 Summary of the Value of Construction Contracts Awarded in Canada, 1911-32, as Compiled by MacLean Building Reports, Ltd.

Year.	Value of Construction Contracts.	Year.	Value of Construction Contracts.
1911 1912 1913 1914 1915 1916 1917 1918 1919 1919	\$ 345, 425, 000 364, 157, 000 241, 952, 000 83, 916, 000 99, 311, 000 99, 322, 000 190, 028, 000 255, 605, 000 240, 133, 300	1922 1923 1924 1925 1925 1927 1928 1929 1930 1930	\$ 331, 843, 800 314, 254, 300 276, 201, 100 297, 973, 000 372, 947, 900 472, 932, 600 472, 032, 600 476, 999, 600 315, 482, 000 132, 872, 400

Construction Contracts Awarded in Canada, 1927-32, by Provinces and Types
of Construction, as Compiled by MacLean Building Reports, Ltd.

				·		
Distribution.	1927.	1928.	1929.	1930.	1931.	1932.
Province.	•	\$	3	\$	\$	\$
Prince Edward Island	421,100	559.000	627,300	1,120,500	186,800	1,071,500
Nova Scotia	5,469,300	27,784,000		7,238,500	6,923,800	4,009,500
New Erunswick	3,597,200	7,825,000		11,067,600	9,756,800	4,258,500
QuebecOntario	133,182,600 196,159,000	144, 185,000 188,351,700		154,672,000 175,459,600	106, 125, 700	52,525,300
Manitoba	29,939,900	23,995,300			125,452,300 13,797,800	49,291,800 4,503,500
Saskatchewan	11,337,600	22, 127, 100	34,184,300	27,361,300	9,200,000	2,705,200
Alberta	7,507,300	17,909,700	29,159,600	25,081,700	14,334,700	5,948,200
British Columbia	31,337,600	39,295,800	51,428,400	32,987,500	29,704,100	8,558,900
Canada	418, 951, 600	472,032,600	576,651,800	456,999,600	315,482,000	132,872,400
Type of Construction.					i	
A	05 004 000	00 700 500	00 50- 000	15 000 000	10 000 000	
Apartments Residences	25,981,800 98,957,800	36,720,500 102,445,800		15,330,300 77,961,200	16,202,200 65,482,100	1,536,000 27,356,600
Totals, Residential	124,939,600	139,166,300	123,901,300	93,291,500	81,684,300	28,892,600
Ohh	10 455 500	0 005 500	0 005 000	# APE 800		0 700 000
Churches	12,052,700 7,354,700	8,327,500 10,889,100	8,867,800 12,915,100		7,744,600 3,420,000	2,736,800 2,945,400
Hospitals	8,897,200	9,596,300		14,636,200	12.142.500	3,985,900
Hotels and clubs	30,598,700	15,486,400		13,806,700	2,881.100	1,436,600
Office buildings	40,752,900 8,195,200	34,120,900 8,744,700	37,465,100 19,062,600		3,575,200 16,803,200	3,192,600 8,174,300
Public buildings Schools	22,244,000	20,907,400	19,062,600 22,482,800	35,079,800	15,808,200	6,749,900
Stores	11.831.900	27,448,000		10,006,100	9,035,900	4,742,100
Theatres	1,519,500	3,085,000		2,356,100	1,308,900	663,100
Warehouses	19,982,000	31,621,800	29,835,400	17,569,300	6,410,200	4,772,500
Totals, Business	163,428,800	170,226,600	190,161,700	151,103,700	81,174,300	39,399,200
Totals, Industriai	39,988,900	63,300,000	62,968,800	31,520,000	14,816,000	7,820,400
Duidan	23,468,900	7,360,200	11,218,500	11.883.709	16.064.600	7,675,500
Bridges	6,565,300	8,297,900	24,721,300		3,943,300	2,777,600
Sewers and water-mains	9,624,700	10,455,800	17,552,200	28,680,800	25,620,400	10,638,000
Roads and streets	24,382,800	29,412,500	41,690,800	40,490,200	41,035,800	20,019,500
General engineering	26,552,600	43,812,400	99,437,200	90,298,100	51,143,300	15,649,600
Totals, Engineering	\$0,591,300	99,338,800	194,620,000	181,084,400	137,807,400	56,760,200

Building Permits.—The estimated value of construction in 61 cities of Canada, as indicated by their building permits, is shown for the years 1927 to 1932 inclusive in Table 3. These cities had in 1931 about 36 p.c. of the population of Canada, while their 1932 building permits aggregated \$42,319,397 or 31.8 p.c. of the total contracts awarded, as shown in Table 1. In Table 3, the 35 cities for which statistics of building permits are available since 1910 are indicated by an asterisk (*), and the totals for these cities are given beneath the totals for the larger group.

Table 4 shows the value of the building permits issued by 35 cities in the years 1910-32. The average weighted index numbers of wholesale prices of building materials since 1913 are given together with index numbers, since 1921, of employment in the construction industries as reported by employers, both these indexes have been compiled by the Dominion Bureau of Statistics. The average index numbers of wages in the building trades since 1910 as compiled by the Depart-

ment of Labour are also given. These indexes show as far as possible the fluctuations in building costs with their effect upon construction work and employment. Attempts have been made to determine the relative proportion of material and wage costs in general building, but representative data could not be obtained. The reduction in the cost of building operations has probably been much more than is indicated by these figures. Index numbers of wages in the building trades are based chiefly on union rates in cities, and the types of construction which have been stimulated have been those where the higher paid trades have not been in great demand. The reduction in common labour costs has been proportionately greater than in the trades.

Owing to the increasing use of the automobile and other means of rapid transportation, a growing percentage of those who work in the cities reside outside the municipal boundaries. Hence arises, in part, the necessity for an extension of the record of building permits to include such suburban areas as the York Townships in the case of Toronto, and North Vancouver in the case of Vancouver. South Vancouver and Point Grey were annexed to Vancouver as from Jan. 1, 1929.

The construction contracts in 1932 as shown in Table 2 decreased by 58 p.c. compared with 1931 and the building permits of 61 cities in Table 3 decreased by more than 62 p.c.

3.—Value of Building Permits Taken Out in 61 Cities for the calendar years 1927-32.

Nors.—Asterisks indicate the 35 original cities, statistics for which are available since 1910.

Province and City.	1927.	1928.	1929.	1930.	1931.	1932.
	:	\$;	*	ş	\$
P.E.L, Charlottetown	1	1	20,000	158,000	1	587,000
Nota Scotia	1,840,647	3,478,176	5,748,282	3,564,302	3,174,980	1,109,75
*Halifax New Glasgow *Sydney	1,537,899 10,850 291,898	2,808,357 64,515 205,304	5,209,245 305,370 233,667	3,188,345 141,250 234,707	2,964,985 107,165 102,830	933,510 35,890 140,344
New Brunswick	1,365,065	1,262,266	2,037,934	3,634,614	1,783,462	648, 434
Fredericton*Moneton*Saint John	14,779 736,110 614,176	148, 015 270,813 843,438	23,500 768,698 1,245,736	482,000 456,827 2,095,787	140,295 385,850 1,257,317	18,500 184,395 445,539
Quebec	58,320,532	49,533,504	57,9 84,175	46,224,208	37,605,584	12,467,878
*Montreal-*Maisonneuve *Quebec	45,200,842 6,360,165 347,835 689,930 2,332,500 3,389,260	36,347,901 5,710,144 1,163,581 1,128,233 1,681,450 3,902,195	46,065,924 5,684,183 770,618, 755,240 1,498,065 3,220,145	37,504,590 4,912,257 468,540 812,150 851,730 1,674,941	31,876,676 4,049,875 55,065 676,350 242,030 705,588	10,557,438 1,179,465 107,230 229,300 108,075 286,370
Ontarie	79,883,344	104,777,546	95,455,627	69,042,946	44,371,578	16,887,761
Belleville*BrantlordChatham*Fort WilliamGalt.	670,010 571,599 575,087 1,209,450 181,023	239,323 802,528 780,020 2,062,000 378,581	533,730 473,387 813,560 1,759,000 527,315	312,360 1,034,957 821,258 1,227,300 264,901	221,900 506,677, 201,365 451,000 239,022	100,705 170,844 56,215 294,100 88,768

No information received.

3.—Value of Building Permits Taken Out in 61 Cities for the calendar years 1927-72—concluded.

Note.—Asterisks indicate the 35 original cities, statistics for which are available since 1910.

			 -	 -		
Province and City.	1927.	1928.	1929.	1930.	1931.	1932.
	•					
Ontarle—concluded.	`	`	`	· ·	,	•
*Guelph	493, 169	462,815	607,377	371,351	221,082	152,885
*Hamilton	3,837,150	6,342,100	7,008,320	6,291,100	5,026,050	1,424,300
*Kingston *Kitchener	420,467 1,272,632	678,203 1,524,625	908,900 1,645,351	1,056,986 1,344,232	548, 199 627, 853	349,039 363,048
*London Niagara Falls	2,814,950	2,561,705	2,408,900	2,744,735	1,746,900	567,690
Niagara Falls	1,517,510 5,255,188	2,056,415 3,015,070	905,510 1,478,090	483,678 195,470	158,018 146,375	186,266 41,314
Oshawa *Ottawa	6,446,045	5,421,085	3,403,333	6,295,275	3, 154,000	1,549,515
*Ottawa Owen Sound	330,350	262,375	529,850	132,000 797,895	81.975 278,526	22,415
*Peterborough *Port Arthur	624,295 3,473,736	625,577 5,292,545	618,278 555,945	995,487	341,975	192,919 284,437
#Stratford	221,254	224,412	354,849	414,410	164.535	50,068
*St. Catharines *St. Thomas	221,254 1,147,286 92,682	1,249,141 362,732	1,432,392 172,190	$\substack{610,067 \\ 180,327}$	563,626 139,640	221,566 44,955
Sarnia	1.064.4151	814,586	1.021.9621	633,899	171,818	62,404
Sarnia. Sault Ste. Marie	329,461	402,419	782,059 47,698,654	589,773 32,130,589	436,147 22,002,099	142,680 7,862,693
Toronto York Townships	31,274,876 6,041,635	51,607,188 8,210,380	0 824 9731	6,240,998	5.948.037	1,598,357
Welland	6,041,635 400,364	900 022	301,500 5,571,849 561,382 383,225	196,125	209,726	67,650
*Windsor East Windsor	4,930,832 1,054,531	4,518,723 758,315	5,571,849 561,382	2,250,130 424,233	436,507 22,136	848,377 44,043
Riverside	624.340]	496,460 762,775	383,225	424,233 153,920 183,775	29, 165	2,525
Sandwich	1.323,140	762,775 2,108,000	856, 190	183,775 472,000	21,130 138,000	12,050 17,000
Walkerville Woodstock	1,527,000 158,867	447,602	1,631,000 287,456	193,715	146,095	86,933
Woods Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the			, ,	·		•
Manitoba	8,561,122	11,846,635	12,007,695	7,631,620	4,953,908	2,381,433
	230, 252	428, 130	404,342	197,245	286.613	33,088
*BrandonSt. Boniface	761,570	871,105	553, 103	780,625	270.695	218,945
"Winnipeg	7,569,300	10,547,400	11,050,250	6,653,750	4,396.600	2,129,400
Saskatchewan	7,928,574	13,449,826	16,950,228	9,544,287	3,790,002	2,374,440
*Moose Jaw	1,280,489	1,074,078	1,025,474	1,058,303	473.047	392,542
*Regina	3,482,090	6,619,206	10,022,631	2,971,544	1,598,440 1,718,515	277,069 1,704,829
*Saskatoon	3,215,995	5,756,542	5,902,123	5,514.440	1,710,410	1,109,028
Alberta	5,398,691	10,252,579	17, 9 53,321	9,460,834	4,730,465	2,243,718
*Calgary	2,330,131	6,302,142	11,417,144	4,054,364	1,944,089	917,868
*Edmonton	2,568,565	3,374,971	5,670,185	4,300,935	1,377,175 1,294,056	1,093,045 192,150
Lethbridge Medicine Hat	438,684 61,311	498,590 116,876	559,392 306,600	984,830 120,705	115, 195	40,655
Medicale 1120	01,071	210,017			,	
British Columbia	21,315,767	24,465,168	27,187,687	17,718,514	11,812,866	3,618,984
Kamloopa	252,488	[28, 761	241,247	205,235	133,642	49,435
Nanaimo	211.065	128,761 45,269	112,640	117,053	45,350	56,269
New Westminster Prince Rupert	1,082,114	1,928,324	1,011,629	553,990 148,695	580, 321 156, 493	137,712 54,230
*Vancouver1	252,940 16,669,680	176,804 19,445,288	93,648 21,572,727	14.645.206	10,086,425	2,854,206
North Vancouver	322,739	19,445,288 912,780	292,515	150,073 1,898,262	94,025 736,610	77,455 389,673
*Vietoria	2,524,741	1,827,937	3,862,681			_
Totals—61 Citles		1			'	42,319,397
*Totals-35 Cities	154,904,047	187,269,237	211,228,814	151,324,214	101,647,955	38,370,313

South Vancouver and Point Grey were annexed to Vancouver city as from Jan. 1,1929. Their permits in earlier years have been included in the respective Vancouver totals.

4.—Value of Building Permits Issued by 35 Cities in the calendar years 1910-32 and Index Numbers of the Construction Industries.

		Average	e Index Numb	ers of—
Үеаг,	Value.	Wholesale Prices of Building Materials.	Wages in the Building Trades.	Employment as Reported by Employers in Construction Industries.
	*	(1913=	100.)	(1926=100.)
910. 911. 913. 913. 914. 915. 916. 917. 918. 919. 919. 920. 921. 922. 922. 922. 923. 924. 925. 926. 927. 928. 929. 929. 929. 929. 929. 929. 929	100,357,546 138,170,300 185,233,449 153,662,842 96,780,931 33,566,749 33,724,466 36,838,270 77,113,413 100,679,839 94,508,164 122,655,561 111,174,325 105,070,284 101,021,798 131,048,721 154,904,047 187,269,237 211,228,614 101,647,955 38,370,313	100-0 99-8 99-3 103-8 130-7 150-5 175-5 175-5 183-2 167-0 159-1 153-5 149-2 143-4 145-3 147-7 135-5	86-9 90-2 96-0 100-0 100-8 102-4 109-9 148-2 180-2 169-1 170-5 162-6 169-1 179-1 179-2 186-6 197-5 203-2	71- 76- 80- 80- 84- 100- 118- 129- 129- 131- 86-(

CHAPTER XVI.—EXTERNAL TRADE.

This chapter commences with an historical sketch of Canadian external trade, the Canadian tariff, and recent developments in external trade, followed by a brief account of the Commercial Intelligence Service. Thereafter is to be found a treatment of statistics of external trade under ten subordinate headings: historical statistics of Canadian trade; general analysis of current import and export trade; trade with the United Kingdom and the British Empire; trade with the United States and other foreign countries; geographical distribution of Canadian trade by continents and countries; principal commodities imported and exported; trade in raw and manufactured products; Canada's position in international trade; main historical tables and tables showing current trends (Tables 1 to 21); and comparison of the volumes of imports and exports (Table 22). The chapter is finally brought to a close with sections on the tourist trade of Canada, and on Canada's balance of international payments in recent years.

Section 1.—The Development of Tariffs.

An outline of the development of tariffs as affecting Canada naturally falls into two divisions: first, a historical sketch showing the various phases of Canadian trade which have influenced tariff development; and second, the present tariff conditions under which Canadian trade is carried on.

Subsection 1.—Historical Sketch of External Trade and Tariffs.

In the early history of the American continent each of the European nations establishing settlements in the New World endeavoured to monopolize the commerce of its colonies, prohibited the ships of other nations from resorting to them and prohibited its colonials from importing European goods from other countries, generally granting them, however, preferential treatment in its own market. In these circumstances the colonial wars in America were carried on by Governments permeated by the mercantile spirit, for "ships, colonies and commerce". Owing to this fact, wars resulting in the transfer of colonies from one European power to another involved great economic as well as political changes in the community so transferred. The traders who had previously controlled the trade between the mother country and its colony found their occupations gone, while new traders from the conquering State arrived to take over the import and export trade, which thereafter flowed in new channels, perhaps no more artificial than those which had previously existed.

Throughout the earlier part of the French régime in Canada, the foreign trade of the colony was in the hands of the monopolistic chartered companies, of which the Company of One Hundred Associates was the most notable. When its monopoly was cancelled in 1663, the external trade of Canada still remained a preserve of the merchants of Old France. Upon the conquest of the country by the British, the French merchants, who had their offices in Quebec and Montreal, for the most part returned to France, and the trade of the colony fell into the hands of the traders from England, Scotland and New England, who had flocked into the country at the heels of the invading armies. Some of their descendants are still among the leading figures in Canadian import and export trade.

For the first sixty years of British rule, Canadian commerce was carried on almost exclusively with or through the United Kingdom, the merchants of New England complaining, after the American Revolution, of being shut out from the Canadian trade. The geographical juxtaposition of the United States to British North America was, however, a factor which could not permanently be ignored, and smuggling became more and more prevalent as settlement extended westward along the International Boundary. In 1822 Great Britain made considerable concessions to United States traders in respect of the Canadian trade. In 1846 she abolished the preferential treatment which she had given to Canadian wheat, and in 1860 all vestige of preference to colonial products disappeared from the British tariff. As a consequence, the colonies which, like Canada, Nova Scotia and New Brunswick, were by this time enjoying responsible government, could not any longer be refused the right to control their own commercial policy—a fact which was emphasized in an important report prepared in 1859 by the then Minister of Finance, (Sir) A. T. Galt, and forwarded to the British Government. This report declared that the responsibility of the Canadian Government must be to the Canadian people, more especially in matters of taxation (the greater part of the revenue being raised by customs duties), and that the Canadian Government must affirm the right of the Canadian Parliament to adjust the taxation of the people in the way it deemed best, even if this should happen to meet with the disapproval of the British Ministry. This doctrine remained unchallenged by the British Government and, coming at a time when all important parties in Great Britain had accepted free trade as a fait accompli, it facilitated the setting up in Canada of a protective tariff, designed to secure the establishment in Canada of manufacturing industries, at a time when British opinion desired that the colonies should concentrate their attention on the production of food and raw materials and import from Great Britain the manufactured commodities which they required.

The Abolition of Preference and the Reciprocity Treaty of 1854.—The abolition of the British preference on Canadian wheat in 1846 brought about a depression in the flour-milling industry of Montreal and an ephemeral agitation for union with the United States. The effects of the repeal of the preference were, however, mitigated in 1849 by the repeal of the Navigation Acts and the consequent opening of the carrying trade between Canada and the United Kingdom to the shipping of the world. Meanwhile, the abandonment of protection in the Mother Country led to the initiation of negotiations for a reciprocity treaty with the United States. A treaty for the free exchange of natural products between them and the British North American colonies was negotiated in 1854, and became effective on Mar. 16, 1855. From its operation the Canadian farmer and fisherman derived considerable benefit, more especially during the period of the Civil War, when prices in the United States were particularly high. Partly as a consequence of the friction between Great Britain and the United States during the Civil War period and partly because the new Canadian tariff of 1859 shut out the manufactured goods of the United States, the treaty was denounced by the United States at the end of the ten-year period for which it had been negotiated and ceased to operate 12 months later on Mar. 17, 1866. The denunciation of the treaty had a considerable effect in bringing about the confederation of the British North American colonies, which it was hoped would to a great extent consume each other's products.

Tariff Policy since Confederation.—The immediate effect of Confederation was to abolish the tariff barriers which existed between the provinces entering the Dominion. As the area of Canada increased until, except for Newfoundland and

Labrador, it became conterminous with British North America, the area of internal free trade was thereby extended, while protection against outside competition was generally maintained. However, the protective tariff of the old province of Canada, adopted in 1859 with a prevailing rate of 20 p.c., was replaced in 1866 by a tariff assimilated to the revenue tariffs of the Maritime Provinces, with the rates of duties on the great bulk of manufactured commodities reduced from 20 and 25 p.c. to 15 p.c. Later on, the world-wide depression which commenced in 1873, and the consequent falling off in a revenue based upon trade, necessitated an increase of the general rate to $17\frac{1}{2}$ p.c., with a 20 p.c. rate on certain luxuries. Even this increase failed to fill the treasury.

In 1879, after the people had declared for a protective policy in the general election of 1878, the duties on imported manufactured goods were considerably increased, the rate on goods "not otherwise provided" being raised from 17½ p.c. to 20 p.c., the rates on cotton goods from $17\frac{1}{2}$ p.c. to rates, specific and ad valorem. equivalent, on the importations of 1881, to 30 p.c., while the duties on woollens were practically doubled. The rate on furniture and clocks was increased to 35 p.c.: on carriages, glassware, wall-paper and silks, to 30 p.c.; on boots and shoes, buttons, rubber goods and woodenware, to 25 p.c. Pig iron, previously free, now paid \$2 a ton, and the duty on iron billets, bars and rods was increased from 5 p.c. to 10 and $17\frac{1}{2}$ p.c., while manufactured iron and steel products and machinery were given 25 to 35 p.c. protection. Throughout the '80's the general trend of the minor revisions made in the tariff was still upwards but in the '90's a downward tendency became manifest. In 1891 the duty on raw sugar was repealed, and in 1894 material reductions were made on agricultural implements, and minor readjustments on cottons and woollens. This period was also marked by the thorough-going extension of protection to the iron and steel industry, both by customs duties and bounties.

In the tariff revision of 1897, the duties on Indian corn, binder twine, barbed wire, pig iron, flour and refined sugar were reduced or abolished, while the bounties on domestic pig iron were not reduced but in certain cases increased. But the most distinctive feature of the tariff revision of 1897 was the adoption of what was called a "reciprocal" tariff, one-eighth lower than the general. This "reciprocal" tariff was at once applied to the United Kingdom, and afterwards to New South Wales and to British India, while Belgium and Germany, in virtue of their trade treaties with Great Britain, were also admitted to the benefits of the "reciprocal" tariff, together with Argentina, Austria-Hungary, Bolivia, Colombia, Denmark, Persia, Russia, Sweden, Switzerland, Tunis and Venezuela, on account of most-favoured-nation treaties between these countries and Great Britain, also France and her colonies, in consequence of the Franco-Canadian treaty of 1893. A little later the "reciprocal" tariff was also extended to the Netherlands, Japan, Siberia, Morocco, Salvador, South African Republic, Tonga and Spain, under most-favoured-nation treaties between these countries and the United Kingdom.

The numerous concessions mentioned above were, however, of a merely temporary character, ceasing to exist in 1898 as a consequence of the denunciation by Great Britain of her most-favoured-nation treaties with Germany and Belgium. This left Canada free to confine her lower tariff rates to the United Kingdom and to sister Dominions and colonies. A British preferential tariff, consisting at first of a remission of 25 p.c. of the duty ordinarily paid (Aug. 1, 1898), and later of a remission of 33½ p.c. of the ordinary rate of duty (July 1, 1900), was established. This method of preference was abandoned in 1904 for a specially low rate of duty on almost all imported dutiable commodities.

Subsection 2.—Present Tariffs.1

Tariff of 1907 and Empire Preferences.—A new Canadian Customs Tariff was adopted on April 12, 1907, containing three columns of duties, British preferential, intermediate and general. This tariff with amendments is still in operation. The Tariff Act itself mentions as being entitled to the British preference those parts of the Empire which were already enjoying it under previous measures, namely: United Kingdom, British India, Ceylon, New Zealand, Union of South Africa, Southern Rhodesia, Bermuda, British West Indies, British Guiana and Straits Settlements. Power was taken to extend the same advantages, by Order in Council, to other parts of the Empire. Under this authority the British preference was, on Jan. 25, 1913, granted to: Swaziland, Basutoland, Bechuanaland Protectorate, Northern Rhodesia, Nyasaland Protectorate, Uganda Protectorate, East Africa Protectorate, Protectorate of Northern Nigeria, Colony and Protectorate of Southern Nigeria, Gold Coast, Sierra Leone, Gambia, Somaliland Protectorate, Federated Malay States, British North Borneo, Sarawak, Brunei, Mauritius and Dependencies thereof, Seychelles, St. Helena, Ascension, Friendly or Tonga Islands, Fiji. Falkland Islands and British Honduras. Further extensions were to: Irish Free State, Sept. 21, 1923; Territory of Western Samoa, Oct. 1, 1924; Newfoundland, June 26, 1928; Tanganyika Territory, Dec. 19, 1930; Channel Islands, Isle of Man, Kenya Colony and Protectorate, Colony and Protectorate of Nigeria, British Sphere of the Cameroons, British Sphere of Togoland, part of New Guinea under mandate of Australia, and Cyprus, all on Sept. 24, 1931.

Trade Agreements with Australia. -- Australia remained almost the only part of the Empire not accorded the British preferential tariff, either by Statute or Order in Council. However, a formal trade Agreement between Canada and Australia (superseding an arrangement of 1925, exchanging limited preferences by legislation) was brought into force on Aug. 3, 1931, providing for exchange of British preferential rates, except as set forth in two schedules—one of which concedes special Canadian rates on some Australian products, while the other specifies the tariff treatment given by Australia to Canada on certain items, as well as enumerating items which Australia reserves as regards granting preferential treatment. Canada is accorded the British preferential tariff of Australia on all but 18 of the 438 items comprising the entire tariff. On six items the intermediate tariff applies and on the other twelve, the general tariff. An important concession to Canada is the creation of new or larger margins of preference than existed in the former tariff on some products of importance to Canada. Other general provisions waive antidumping laws, define qualifications for domestic products, and permit either country to apply its general tariff rates to imports from the other which are injuriously affecting the sale of similar domestic goods, provided that, after three months' notice, the exporting country has failed to remedy the situation.

Trade Agreements with British West Indies.—To the British West Indies concessions independent of the British preference were made in an Agreement of 1912, which obtained West Indian preferential rates of four-fifths of the general tariff on some Canadian goods. In 1920 a second trade Agreement, broader both as to the extent of the preferences exchanged and the number of West Indian signatories, superseded the first. This in turn was replaced on July 6, 1925, by one still more extensive, brought formally into force by proclamation as from April 30,

¹ Revised by W. Gilchrist, Chief, Foreign Tariffs Division, Department of Trade and Commerce.

1927. It is binding for a 12-year period and thereafter until terminated on a year's notice. It includes: Jamaica, Trinidad, Barbados, Bahamas, Leeward Islands, Windward Islands, Bermuda, British Guiana and British Honduras. The larger colonies give a preference of 2s. per brl. on flour, and various stated amounts on some other commodities of importance. The preference on manufactured goods in general, when not specially dealt with, ranges from 20 p.c. to 50 p.c. of the general tariff. In return Canada grants the colonies: (a) specific amounts of preference on sugar and some other selected tropical products; (b) a 50 p.c. reduction from the general tariff on goods for which no special provision is made.

Trade Agreement with New Zealand.—Imports from New Zealand have been accorded British preferential rates since 1904. Furthermore on Oct. 1, 1925, the special rates of the trade Agreement with Australia were extended to New Zealand. Canada was granted the British preferential rates of New Zealand established in 1903. However, from Oct. 12, 1930, after due notice, Canada withdrew the Australian treaty rates as regards imports from New Zealand, and on June 2. 1931, New Zealand withdrew her British preferential rates from all but a few items of Canadian goods. After negotiations a new trade Agreement for one year with New Zealand was brought into force by proclamation as from May 24, 1932. In this Agreement Canada grants New Zealand rates lower than British preferential on various articles of outstanding interest to her, and otherwise extends to her the British preferential tariff. New Zealand restores the British preferential rates to Canada except on six items on which however, she, concedes rates lower than the general tariff. On lumber, laths, and shingles, where no preference existed previously because the general and preferential rates were the same, New Zealand creates a differential between her British preferential and general tariffs, so as to afford Canada a tariff preference on such products. Under a general provision of the Agreement anti-dumping laws of both countries are suspended except in the case of imports injurious to domestic industry when the exporting country does not apply remedial measures after 30 days' notice. Other general provisions extend the Agreement to Western Samoa and Cook Islands.

Preferences by Great Britain Prior to the Imperial Conference, 1932.— Great Britain, between 1919 and 1931, granted preferences to Empire products within the limited scope of her tariff of that time. By 1931 there were preferences on: motor cars, clocks and watches, musical instruments, cinematograph films, all known as "McKenna duties"; sugar, goods containing sugar, glucose, tobaccos, certain dried fruits, chicory, cocoa, coffee, hops, spirits, wines, silk and artificial silk goods; pottery, buttons, household hollow-ware (safeguarding duties); and on "key industry goods" mainly certain chemicals, optical instruments, are lamp carbons, vacuum tubes, metallic tungsten, some scientific instruments and scientific glassware. In consequence of the Abnormal Importations (Customs Duties) Act, passed Nov. 20, 1931, to remain in effect for six months, giving authority for Orders in Council imposing duties, not to exceed 100 p.c. ad valorem, on foreign manufactured goods, some 50 items were subjected to 50 p.c. ad valorem. The Horticultural Products (Emergency Customs Duties) Act, passed Dec. 11, 1931, to remain in force for twelve months, gave the Government power to impose duties by Orders in Council up to 100 p.c. ad valorem on certain fresh fruit, fresh vegetables and flowers of non-Empire origin. Two Orders were passed under this Act. The Import Duties Act effective Mar. 1, 1932, imposed a duty of 10 p.c. ad valorem on goods which were not otherwise subject to duty except for some exemptions including wheat and maize, meats (not including canned), live animals, raw

cotton, flax and hemp, wool, hides and skins, newsprint, pulp, wooden pit-props, metallic ores, coal and certain other minerals, unwrought copper and all goods imported for shipbuilding. Products of the Dominions, India, and Southern Rhodesia were exempt from this duty until Nov. 15, 1932, their treatment after that date to depend on the Imperial Conference. Products of other parts of the British Empire were exempt from the 10 p.c. duty without limitation as to date. By an Order effective April 26, 1932, the 10 p.c. general tariff was increased to rates ranging from 15 to 33½ p.c. ad valorem, on a wide range of merchandise, chiefly manufactured goods.

The Imperial Economic Conference, 1932.—The United Kingdom-Canada Agreement.—Under this Agreement the United Kingdom, while continuing to grant to products of Canada those preferences and exemptions from duty established by the Import Duties Act cited above, provided, for important Canadian products, additional preferences by the imposition of new or increased duties on competing foreign imports. Chief among these products were: eggs, butter, cheese, condensed milk, wheat, fresh and canned apples, and unwrought copper. A continuation of a 10 p.c. preference was guaranteed on dutiable timber, fresh and canned fish, asbestos, lead and zinc. Canada was granted unrestricted entry for a maximum quota of 2,500,000 cwt. per annum of bacon and hams, and for 10 years a margin of preference of 2s.04d. per lb. on unmanufactured tobacco. Certain preferences accorded in United Kingdom Agreements with other Dominions apply automatically to Canada as an Empire country. As regards eggs, poultry, butter, cheese, and other milk products, free entry is guaranteed for three years, after which the position as regards these articles is subject to review. Increased preferences to Canada in many of the non-self-governing Colonies and Protectorates were provided for on selected articles. The British reserved the right to remove duties on foreign wheat, copper, lead and zinc if at any time Empire producers were unwilling or unable to provide, at world prices, the United Kingdom requirements. In return Canada agreed to widen the margin of preference on imports from Britain on a great variety of goods as set forth in a schedule attached to the Agreement. Actual changes were made in 225 Canadian tariff items, on 223 of which the margin of the British preference was increased. The tariff was lowered on 133 items, more than half of which were placed on the free list, in the other cases the margin was increased by raising the intermediate and general tariffs. By major groups, the tariff changes mainly concern iron and steel, drugs and chemicals, textiles, leather goods, glass, vegetable oils, as well as a wide list of miscellaneous commodities. Generally speaking manufactured goods of a class or kind not produced in Canada were made free. Additional preferences were also provided for imports into Canada of various commodities produced largely in the non-self-governing Colonies and Protectorates. Canada agreed that the tariff should be based on the principle that protective duties should not exceed such a level as would give United Kingdom producers full opportunity of reasonable competition in Canada on the basis of the relative cost of economic and efficient production with special consideration to be given to industries not fully established. Canada undertook to institute the Tariff Board, already authorized by Statute, to review duties on United Kingdom goods in accordance with these principles and not to increase these duties except in accordance with the Board's findings. Canada further agreed to abolish surcharges on imports from the United Kingdom as soon as Canada's finances would allow and to give sympathetic consideration to the abolition of the exchange dumping duty on British goods. The Agreement was to continue for 5 years and be subject thereafter to termination upon 6 months' notice by either party.

Other Agreements.—The Agreement between Canada and the Union of South Africa places commercial relations between these two Dominions on a treaty basis for the first time. It covers the principal commodities which each Dominion can sell to the other, but is more limited in scope than the trade Agreements concluded earlier with Australia and New Zealand. A considerable extension of the preferred list of commodities has been obtained for Canada. Special consideration has been given to corn from South Africa, although fruits in certain seasons, peanuts, sugar and molasses are also given consideration. Wheat, flour, apples, hosiery, binder twine, machinery, vacuum cleaners, iron pipes, tools, shooks, lumber, canned fish, motor cars, electrical appliances, rubber goods and paper products are the chief items on which concessions are made to Canada.

The Agreement with the Irish Free State secured for all goods the produce and manufacture of Canada imported into the Irish Free State the benefits of the lowest rates of duty accorded to similar products of any country. In return, goods the produce of the Irish Free State, when imported into Canada, were to be accorded the same tariff treatment as similar goods imported from the United Kingdom.

The Agreement with Southern Rhodesia made provision for the exchange of preferential treatment on selected lists of commodities. In addition, other goods not enumerated in the schedules continue to enjoy the benefits of existing and future British preferences. Indian corn, citrous fruits and peanuts are given free entry by Canada, whereas Southern Rhodesia gives our manufacturers important concessions on cream separators, batteries, boots and shoes, and paper products.

Other Empire Preferences on Canadian Goods.—Even in the absence of trade Agreements many tariff preferences are accorded to Canadian goods throughout the Empire. The general position now is that nearly all goods, the produce or manufacture of Canada, shipped in accordance with prescribed regulations, are granted tariff preferences over non-Empire goods in Great Britain and Northern Ireland, Australia, New Zealand, Fiji, Western Samoa, British West Indies (thirteen tariffs), Bermuda, British Guiana, British Honduras, Southern Rhodesia, Northern Rhodesia (Zambesi Basin), Gambia, Sierra Leone, Seychelles, British Somaliland, Cyprus, and Isle of Man. To a considerable extent tariff preference is similarly granted to Canadian goods in the Irish Free State, the Union of South Africa, Ceylon, and Mauritius, also on some goods in the Federated Malay States, the Unfederated Malay States, British North Borneo, Sarawak, and Brunei. Empire motor cars enjoy preference in Hong Kong, the Straits Settlements, and Guernsey; spirits and malt liquors in Gibraltar; and wines in the Falkland Islands.

Canadian Tariff Arrangements with Foreign Countries.—Arising out of some old British treaties, later British treaties or favoured-nation clauses sanctioned by Canadian Acts of Parliament, or in consequence of purely Canadian conventions of commerce, Canada extends on a reciprocal basis most-favoured-nation customs treatment except where otherwise indicated to the goods of the following countries:—

Country.	Treaty or Convention.	Date.
Economic Union of Belgium and	Treaty of Amity, Commerce and Navigation with Great Britain. Exchange of Notes granting Canadian Intermediate Tariff for most-favoured-nation treatment in Brazil. Convention of Commerce with Canada	

Country.	Treaty or Convention.	Date.
Colombia	Treaty of Friendship, Commerce and Navigation with	
	Great Britain	Feb. 16, 1866.
Czechoslovakia	Convention of Commerce with Canada	Mar. 15,1928.
Denmark	Treaties of Peace and Commerce with Great Britain	
Estonia	Canadian Trade Agreements Act accepted favoured-	July 11, 1670.
2300144	nation provision of United Kingdom-Estonia Treaty	1
	of Commerce and Navigation, Jan. 18, 1926	June 11, 1928.
Finland	Finland Trade Agreement Act accepted most favoured-	
	nation terms of United Kingdom-Finland Treaty of	
Germany	Commerce and Navigation of Dec. 14, 1923 Exchange of Notes granting Canadian Intermediate	June 12, 1925.
Certifiany	tariff for Conventional rates of German tariff (for 3	
	months)	Jan. 1, 1933.
Hungary	Canadian Trade Agreementa Act accepted favoured-	· ·
	nation provision of United Kingdom-Hungary Treaty	E 11 1000
Italy, colonies and possessions	of Commerce and Navigation of July 23, 1926 Convention of Commerce with Canada	June 11, 1928. Jan. 4, 1923.
Japan	Japanese Treaty Act sanctioned (with provisos) United	364. 2, 1920.
	Kingdom-Japan Treaty of Commerce and Navigation	•
	of April 3, 1911	April 10, 1913.
Latvîa	Canadian Trade Agreements Act accepted most-	Į
	favoured-nation provision of Great Britain-Latvia Treaty of Commerce and Navigation, June 22, 1923.	
Lithuenia	Canadian Trade Agreements Act accepted most-	20110 11, 1520.
	favoured-nation provision of Great Britain-Lithuania	•
	Agreement respecting commercial relations, May 6,	}_
NT-AL13- NT-AL13-T-3/	1922	June 11, 1928.
Netherlands, Netherlands Indies, Surinam and Curação	Convention of Commerce with Canada	July 11, 1924.
Norway	Convention of Commerce and Navigation between	July 11, 1524.
- · · · • · · · · · · · · · · · · · · ·	Great Britain and (Sweden and) Norway	Mar. 18, 1826.
Portugal, including Madeira,		1
Porto Santo, and Azores	Canadian Trade Agreements Act accepted most- favoured-nation provision of Great Britain-Portugal	ļ
	Treaty of Commerce and Navigation, Aug. 12, 1914.	Inno 11 1098
Roumania	Exchange of Notes under Article 36, Treaty of Com-	June 11, 1020.
	merce and Navigation between the United Kingdom	•
	and Roumania, Aug. 6, 1930	Sept. 30, 1930.
Serb-Croat-Slovene Kingdom (Yugoslavia)	Canadian Turda Assumunta Ast assured	1
(1 ngostavia)	Canadian Trade Agreements Act accepted most-fav- oured-nation provision of United Kingdom-Serb-	-
	Croat-Slovene Kingdom Treaty of Commerce and	
_	Navigation, May 12, 1927	Linne 11, 1928.
Spain	Spanish Treaty Act sanctioned United Kingdom- Spain Treaty of Commerce and Navigation, Oct. 31,	
	Spain Treaty of Commerce and Navigation, Oct. 31,	
	1922 (revised April 5, 1927), also United Kingdom- Spain Agreement, June 27, 1924, regulating treatment	
	of companies	June 11, 1928.
Sweden.,	Convention of Commerce and Navigation between	
Switzerland	Great Britain and Sweden (and Norway)	Mar. 18, 1826.
DWIDEEDHICK	Treaty of Friendship, Commerce and Reciprocal Establishment between Great Britain and Switzer-	
	land	Sept. 6, 1855.
Venezuela	Treaty of Amity, Commerce and Navigation between	
	Great Britain and Colombia (of which Venezuela was then part)	
		April 18, 1825.

Under mutual most-favoured-nation customs treatment each contracting country accords to the goods of the other the lowest duties applied to similar products of any foreign origin, unless there are reservations. These reservations would be tariff concessions, not considered of relatively great importance, which one country may grant to another on historical, geographical, or some related ground. Most-favoured-nation obligations do not include Canadian preferences given to other parts of the Empire. Canada's concessions to France in the Convention of Commerce of 1922 established the rates applicable to most-favoured foreign nations. The Convention was for an indefinite period, subject to termination on either party giving six months' notice. Canada gave such notice on Dec. 16, 1931, so that the Convention expired on June 16, 1932. That abrogation automatically cancelled all rates lower than the intermediate tariff to all most-favoured nations. The Canadian Government expressed its willingness to enter immediately on negotia-

tions with France for a new convention beneficial to the commerce of both countries. Negotiations were carried on in Paris during the winter 1932-33 but at the time of going to press no new Agreement had been ratified.² As the situation stands in March, 1933, therefore, rates of the intermediate tariff apply to most-favoured nations, and to Brazil and Germany.

The value to Canada of most-favoured-nation treatment in foreign countries depends on the customs system of the country concerned. Several countries have maximum and minimum schedules, meaning that there are reduced duties for practically all goods imported from reciprocating or treaty countries. Some countries, on account of rates conceded in treaties, maintain reduced duties on specified items of their tariffs. Many countries throughout the world have uniform tariffs regardless of the origin of the goods. The benefit of most-favoured-nation treatment depends also on the extent to which tariff favours apply to countries competing with Canada in the market in question.

Dumping Duties!.—In the Canadian custom tariff there is also an anti-dumping clause. In 1930 and 1931 the statutory provisions relative to the levying of special or dumping duty were amended. Special or dumping duty is now leviable upon goods exported to Canada of a class or kind made or produced in Canada, if the export or actual selling price to an importer in Canada is less than the fair market value of the same article when sold for home consumption in the usual and ordinary course, in the country whence exported to Canada, at the time of its exportation, or is less than the fair market value, or value for duty thereof, as determined or fixed under the provisions of the Customs Act, R.S.C., 1927, c. 42 (see also sections 36, 37, paragraphs "a" and "e" of 41, and section 43, Statutes of 1930, c. 2). It is provided that the special duty shall not exceed 50 p.c. ad valorem in any case and that goods of a class subject to duty under the Excise Act shall be exempt.

Provision is also made for the levy of additional special or dumping duty not exceeding 50 p.c. when it appears that any person owning or controlling or interested in a business in Canada and also in any other country, or carrying on a business in any other country and owning, controlling or interested in a business operating in Canada is enabled thereby to import goods for further manufacture or assembling, or for resale and disposal of such imported goods, whether in the form as imported or as further processed, assembled or manufactured, at prices below the duty paid value thereof as entered at Customs plus, if any, the cost of processing, assembling or further manufacture in Canada. The Minister may declare that goods of such class or kind were and are an importation subject to additional special or dumping duty not exceeding 50 p.c.

Drawbacks.—Drawbacks of 99 p.c. of duties paid on imported materials are allowed by the customs laws and regulations in cases where articles manufactured from such materials are afterwards exported.

Surtax.—In 1903 the Customs Tariff Act of 1897 was amended to provide for a surtax of one-third of the duty on goods, the product of any foreign country which treats imports from Canada less favourably than those from other countries. This surtax was at once applied against certain German goods but was removed on Mar. 1, 1910, when Canada obtained the conventional rates of the German tariff on a specified list of goods. Under the Customs Tariff Act of 1914 the rate of surtax was left to be fixed in each case by the Governor in Council but was not to exceed 20 p.c. ad valorem. In the 1931 Tariff Amendments the maximum of the rate of surtax was increased to 33\frac{1}{3} p.c. ad valorem.

¹ Revised in the Customs and Excise Division, Department of National Revenue. ² An Agreement between the two Governments was signed on May 12, 1933.

Powers of the Governor in Council.—The Governor in Council may make reductions of duties on goods imported into Canada from countries granting reductions on Canadian products.

The Governor in Council is given power to prohibit the importation of any goods exported directly or indirectly from any country not a contracting party to the Treaty of Versailles executed at Paris, France, on June 28, 1919.

In the event of producers of goods taking advantage of any duty under the provisions of the Customs Tariff, the Governor in Council is empowered to reduce or remove such duty and, where a producer violates the provisions of sec. 17, to impose upon all his products an Excise duty equivalent to the amount of Customs duty which would be paid by such goods if imported under the provisions of the General Tariff. These provisions, however, do not apply to agricultural products.

Combinations.—Whenever it is deemed in the public interest to inquire into any combination alleged to exist detrimental to consumers, the Governor in Council may commission or empower any judge of the Supreme Court or of the Exchequer Court of Canada, or of any superior court or county court in Canada, to hold an inquiry in a summary way and to report to the Governor in Council whether such combination exists, the judge being empowered to compel attendance of witnesses, examine them under oath, and require production of books and papers, etc., and, upon the judge reporting the existence of such a combination, the Governor in Council is given authority to admit the article concerned free of duty, or so reduce the duty thereon as to give the public the benefit of reasonable competition if it appears that the disadvantage to the consumer is facilitated by the duties of Customa imposed on a like article.

Section 2.—The Commercial Intelligence Service.¹

The Commercial Intelligence Service, maintained by the Department of Trade and Commerce, is designed to further the interests of Canadian trade in other parts of the Empire and in foreign countries. To this end there are established throughout the world offices administered by Trade Commissioners. These Trade Commissioners make periodical reports upon trade and financial conditions, variations in markets and the current demand or opportunities for Canadian products. They also secure and forward to the Department in Ottawa specific inquiries for Canadian goods and in general exert their best efforts for the development and expansion of overseas markets.

Organization at Ottawa.—Besides the overseas organization of the Commercial Intelligence Service, there is a headquarters staff at Ottawa. This is presided over by a Director, who is the head of the Service and administers and unifies the work assigned to the various Trade Commissioners. Assisting the Director are the following divisions: Trade Inquiries—where trade reports and information on foreign markets are filed in order to answer foreign and Canadian trade inquiries; Editorial—where the Commercial Intelligence Journal is compiled; Foreign Tariffs—where all the latest tariff data are kept and tariff inquiries answered; and the division handling the Directory of Canadian Exporters—where Canadian exporters are listed, with their agents abroad, commodities handled, ratings, cables and codes used, etc., and where the Foreign Importers' Directory is kept up to date by periodical reports from the Canadian Trade Commissioners.

¹ Revised by L. D. Wilgress, Director, Commercial Intelligence Service, Department of Trade and Commerce.

Also, in order to keep abreast of Canadian industrial development, each Canadian Trade Commissioner makes a periodic tour of Canada and while in this country gives first-hand information to the Canadian manufacturer regarding opportunities and conditions of trade in his territory.

Organization Abroad.—A list of the countries in which Canadian Trade Commissioners are located, showing territory covered, name, post office and cable address of the Trade Commissioner in each case, is given below:—

CANADIAN GOVERNMENT TRADE COMMISSIONERS.

Note.—Cable address of Trade Commissioners is "Canadian" unless otherwise stated,

Attenting Republic (Territory includes Chile and

Uruguay)	Harry A. Scott, B. Mitre 430, Buenos Aires (1).
Australia. Belgium.	D. H. Ross. Address for letters—Box 196c, G.P.O., Melbourne. Office—Safe Deposit Building, Mel- bourne. Commercial Agent—B. Millin, The Royal Exchange, Sydney, N.S.W. Henri Turcot, 98 Boulevard Adolphe Max, Brussels.
Brazil	A. S. Bleekney. Address for letters—Caiza Postal 2164, Rio de Janeiro. Office—Ed. Da "A Noite", Sala 802, Praca Maua.
British West Indies— Trinidad (Territory includes Barbados, Windward and Leeward Islands and British Guiana)	Acting Trade Commissioner. Address for letters— P.O. Box 125, Port of Spain. Office—Colonial Bank Building.
Jamaica (Territory covers Jamaica, Hayti, the Bahamas, and British Honduras)	F. W. Fraser, P.O. Box 225. Office—Canadian Bank of Commerce Chambers, Kingston. L. M. Cosgrave. Address for letters—P.O. Box 264,
	Shanghai. Office—Daily News Building, 17 The Bund, Shanghai. Paul Sykes. Address for letters—P.O. Box 169, Dairen, Maochuria. Office—Cornabe Building, I Higashi-Koen-Cho, Dairen, Manchuria. (Ter- ritory covers Manchuria.)
Cuba (Territory includes San Domingo and Puerto Rico),	E. L. McColl. Address for letters—Apartado 1945, Havana. Office address—Royal Bank of Canada Building, Calle Aguiar 75, Havana.
Egypt (Territory includes the Sudan, Palestine, Cyprus, Iraq, Syria and Persia)	Yves Lamontagne. Address for letters-P.O. Box 1770, Cairo. Office-22 Shari Kasr el Nil, Cairo.
France (Territory includes French Colonies in North Africa)	Hercule Barré, 3 rue Scribe, Paris (9). Cable addresa —Cancomac.
Germany (Territory covers Germany—except the Rhine Valley — Czechoslovakia, Austria, and Eastern European countries),	Acting Trade Commissioner, Monckebergstrasse 31, Hamburg.
Hong Kong (Territory includes South China, the	Acting Trade Commissioner, 1 Corai Street, Athens.
China)	V. E. Duclos. Address for letters—P.O. Box 80, Hong Kong. Office—Gloucester Building, Hong Kong.
India and Ceylon	R. T. Young. Address for letters—P.O. Box 2003, Calcutta. Office—8 Esplanade Mansions, Gov- ernment Place East, Calcutta.
Irish Free State and Northern Ireland	J. H. English, 66 Upper O'Connell Street, Dublin, Irish Free State; and 44 Ann Street, Belfast, Northern Ireland. Cable Address—Adanac.
Italy (Territory includes Spain, Portugal, Gibraltar, Canary Islands, Malta, Italian colonies in Africa, Albania, and Yugoslavia)	A. B. Muddiman, Via Manzoni Nr. 5, Milan (102).
Tokyo	J. A. Langley, Commercial Secretary; Richard Grew, Trade Commissioner, Address for letters —P.O. Box F101, Tokyo Central, Office— Imperial Life Assurance Building, Marunouchi,
Kobe	Tokyo. Acting Trade Commissioner. Address for letters— P.O. Box 230, Kobe. Office—Chamber of Commerce Building, Kobe.
	

¹ As at Jan. I, 1933.

CANADIAN GOVERNMENT TRADE COMMISSIONERS—concluded.

VIII VIII VV	TO DO THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY
Merico (Territory includes Guatemala, Honduras, and Salvador)	Acting Trade Commissioner, Address for letters— Apartado Num. 126-bis, Mexico City. Office— Edificio Banco de Londres y Mexico, Num. 30, Mexico City. Cable address—Cancoma.
Netherlands (Territory includes the Rhine Valley and Switzerland)	
	G. R. Heasman. Address for letters—P.O. Box 84, Batavia, Java. Office—Chartered Bank Build- ing, Malacca St., Batavia, Java.
	C. M. Croft. Address for letters —P.O.Box 33, Auckland. Office—Yorkshire House, Shortland Street, Auckland.
Norway (Territory includes Scandinavian countries and Finland	F. H. Palmer, Jernbanetorvet 4, Oslo.
	J. A. Strong. Address for letters—P.O. Box 222, Panama City. Office—Royal Bank of Canada Building, Santa Ana Plaza, Panama City. C. S. Bissett. Address for letters—Casilla 1212,
	Lima. Office—Calle Coca, 478, Lima. G. R. Stevens. Address for letters—P.O. Box 683, Cape Town. Office—Clegborn and Harris Building, Adderley Street, Cape Town. Cable address— Cantracom.
United Kingdom— London (Territory covers Home Counties, Southesstern Counties, and East Anglia)	Harrison Watson, Canada House, Trafalgar Square, S.W. 1. Cable address—Sleighing, London.
London (Territory—for fresh fruit only—covers United Kingdom, Norway, Denmark, Sweden, France, Holland, Belgium, Germany, and Spain)	J. Forsyth Smith, Fruit Trade Commissioner, Walter House, Bedford Street, Strand, W.C. 2. Cable address—Canfrucom.
London	W. A. Wilson, Animal Products Trade Commissioner, Canada House, Trafalgar Square, S.W. 1. Cable address—Agrilson.
Liverpool (Territory covers North of England, Lincolnshire, North Midlands, and North Wales)	H. R. Poussette, Century Bldgs., 31 North John Street.
	Douglas S. Cole. Northeliffe House, Colston Ave. Gordon B. Johnson, 200 St. Vincent Street. Cable address—Cantracom.
United States— New York City (Territory includes Bermuda)	

Under an arrangement made by the Minister of Trade and Commerce with the British Foreign Office, Canadian manufacturers exporters and others interested in trade matters may secure information and advice from British commercial diplomatic officers and British consuls in all countries in which Canada is not represented by her own Commercial Intelligence Service.

Commercial Intelligence Journal.—The Commercial Intelligence Journal, containing the reports of the Trade Commissioners and other pertinent material relating to export trade, is published weekly by the Department of Trade and Commerce in both English and French editions. The subscription price for either edition is \$1 per annum in Canada and \$3.50 outside of the Dominion. Special reports dealing with various phases of Canada's export trade are also issued from time to time, as supplements to the Commercial Intelligence Journal.

Section 3.—Statistics of External Trade.1

Note.—For the correct interpretation of the statistics of external trade, it is necessary that the following definitions and explanations of the terms used should be carefully kept in mind.

Fiscal Years.—The Canadian fiscal year ended on June 30 of the years from 1868 to 1906, and on Mar. 31 of 1907 and subsequent years.

Quantities and Values.—In all the following tables of imports and exports, the quantities and values are based upon the declarations of importers (import entries) and exporters (export entries), as subsequently checked by customs officials.

Imports: Valuation.—"Imports" means "Imports entered for consumption" "Entered for consumption" does not imply that the goods have been actually consumed in Canada, but that they have passed into the possession of the importer and that duty has been paid on that portion liable for duty.

The value of imported merchandise under the main provisions of the law is the fair market value or the price thereof when sold for home consumption in the principal markets of the country whence, and at the time when, the same was exported directly to Canada, also not less than the price to jobbers or wholesalers generally, nor less than the actual cost of production of goods at time of shipment plus a reasonable advance for selling cost and profit. The values shown are in Canadian dollars converted from the currency of the country whence exported at exchange ratios as prescribed for Customs purposes by existing authorities.

Canadian Exports: Valuation.—"Canadian produce" exported includes Canadian products or manufactures, also exports of commodities of foreign origin which have been changed in form or enhanced in value by further manufacture in Canada, such as sugar refined in Canada from imported raw sugar, flour ground from imported wheat, and articles constructed or manufactured from imported materials. The value of exports of Canadian merchandise is the actual cost or the value at the time of exportation at the points in Canada whence originally shipped.

Foreign Exports: Valuation.—"Foreign produce" exported consists of foreign merchandise which had previously been imported (entered for home consumption). The value of such commodities is the actual cost.

Countries to which Trade is Credited.—Imports are classified as received from the countries whence they were consigned to Canada. The countries of consignment are the countries from which the goods have come, without interruption of transit, save in the course of transhipment or transfer from one conveyance to another. The countries whence goods are consigned are not necessarily the countries of actual origin, since goods produced in one country may be purchased by a firm in another country and thence despatched, after a longer or shorter interval, to Canada. In such cases the second country would be the country of consignment to which the goods would be credited. An example is the case of tea grown in the Orient but purchased in the bonded market in London, England; Canadian statistics record such imports as coming from the United Kingdom.

Exports are credited to the country of final destination, i.e., the country to which they are consigned, whether that country possesses a seaboard or not. The

Revised by W. A. Warne, Chief, External Trade Branch, Dominion Bureau of Statistics. This Branch publishes the Annual Report of the Trade of Canada, the Condensed Preliminary Report of the Trade of Canada (annual), the Quarterly Report of the Trade of Canada, the Calendar Year Report of the Trade of Canada, the Sammary of the Trade of Canada, the Sammary of the Trade of Canada (mosthly), etc. For complete list of the publications of this Branch see Chapter XXIX, Section 1, under "External Trade".

country of final destination is the country to which goods exported from Canada are intended to pass, without interruption of transit save in the course of transhipment or transfer from one means of conveyance to another.

Discrepancies in Trade Statistics between Canada and Other Countries.—Canadian statistics of exports are rarely in exact agreement with the import figures of her customers and similar differences occur with Canadian imports. Many factors contribute to these discrepancies; among these are the following:—

- (1) Differences in the basis of the Canadian valuations and the valuations of other countries.
- (2) Even where the statistics cover the same period of time, there are quantities of goods in transit at the beginning and end of the period. Such goods are included in the statistics of the exporting country but not in the statistics of the importing country.
- (3) By far the greatest discrepancies occur from the impossibility of determining the country of final destination for exports or the actual country of origin for imports. Thus about 20 p.c. of Canada's exports to overseas countries are shipped via the United States. Some of this is credited by importing countries to the United States. Canadian grain exports, for example, are to a large extent routed through the United States in bond. Most of this grain leaves Canada with the United Kingdom as the stated destination, but large quantities are later diverted to other European or overseas countries and some is taken out of bond for consumption in the United States. Thus the Canadian record of exports to the United Kingdom may be \$100,000,000 or more in excess of Canadian products actually received by the United Kingdom, while stated exports to other overseas countries are short this amount. Again, United States grain is routed through Canada and shipped from Montreal and therefore frequently shown by other countries as imported from Canada, while it is included in United States statistics as an export to Canada, As mentioned above, purchases in bonded markets in England, Germany, Belgium and France are included in Canadian imports from those countries but are not included by those countries in exports to Canada.

For more detailed discussion of this subject see the article and tables on "Discrepancies in Trade Statistics" on pp. 778-81 of the Annual Report on the Trade of Canada, 1928, published by the Dominion Bureau of Statistics.

Subsection 1.—Historical Statistics of Canadian Trade.

A general view of the trade of Canada in the fiscal years from 1868 to 1932 is furnished in Table 1 (p. 516), giving the imports of merchandise for home consumption, dutiable and free, and the exports of Canadian and foreign produce, the total trade as here given being the aggregate of the two. Necessarily, some difficulties have been met in maintaining comparable statistics through such a length of time, one of the most serious of these arising through different methods adopted in dealing with exports of foreign produce. For example, the shrinkage in the exports of foreign produce after 1920 has been due to change of statistical method rather than to actual diminution in value or volume of such goods exported. For the past 12 years, re-exports of foreign products from bonded warehouses have no longer been included in Canadian trade statistics either as imports or as exports.

while the exports of foreign produce during this period have been composed of goods which had previously been entered as imports for home consumption. Such goods are debited to Canada when entering this country, and should be credited to Canada when re-exported.

From Table 2 it will be observed that, in most of the years from Confederation to the outbreak of the Great War, imports entered for consumption exceeded total exports, especially during the great growing period from 1904 to 1914. From 1915 to 1929, except in the fiscal year ended Mar. 31, 1921, there was an annual excess of total exports over imports entered for consumption. In the fiscal years ended Mar. 31, 1930 and 1931, however, there was an excess of imports which was changed to an excess of exports in 1932 and 1933.

The percentage of exports to imports rose to a peak of $164 \cdot 62$ in 1918, owing to the exportation of war supplies, then dropped to $97 \cdot 60$ in 1921, rose again to $143 \cdot 28$ in 1926 and has since declined to $109 \cdot 72$ in 1929, $91 \cdot 72$ in 1930 and $90 \cdot 12$ in 1931, rising to $101 \cdot 56$ in 1932 and $118 \cdot 32$ in 1933.

The values of coin and bullion imported and exported are shown in Table 3. Amounts collected in export duties from 1868 to 1892, and in import duties from 1868 to 1932, together with the cost of collection expressed as a percentage of the total duties, are stated by years in Table 4. Tables 5 and 6 show respectively our exports of Canadian produce and our imports for home consumption, furnishing figures of our trade with the United Kingdom, United States and other countries since 1868. These figures show the overwhelming predominance of the two great English speaking countries in our foreign trade; in the fiscal year ended Mar. 31, 1932, for example, 71·0 p.c. of our exports of domestic produce was shipped to these two countries, which, in the same year, together provided 79·2 p.c. of our imports for home consumption. Tables 7 and 8 show respectively by years the percentage proportions of imports from the United Kingdom and the United States to totals of dutiable and free imports since 1907, and the ad valorem rates of duty collected on imports from these and from all countries from 1868 to 1932.

Importations of important raw materials used in Canadian manufacturing industries are given in Table 9 for the fiscal years ended 1911 to 1933.

Subsection 2.—General Analysis of Current Import and Export Trade.

The external trade of Canada, in common with that of every other country in the world, suffered a severe decline, both in volume and in value, following the War. By 1929, however, the value of Canada's external trade had reached an amount greater than even during the war years. Since then Canada's trade, like that of the principal trading countries of the world, has declined severely, reflecting the general depression in commerce and industry. The adverse factors which influenced Canada's foreign trade in the fiscal year 1930-31 continued during 1931-32, and the Dominion's trade suffered a still further decline. The general decline in world trade, which had its beginning in the fall of 1929 and continued throughout the year 1930, was particularly severe during the fiscal year 1931-32, being more marked than for the fiscal year 1930-31. The further drop in commodity prices was one of the principal factors in this decline. The particulars are set forth in the following statement:—

	Imp	ortg.	Exports (Canadian).
Fiscal Year.	Declared Value.	Based on 1926 Average Value.	Declared Value.	Based on 1926 Average Value.
		*	*	8
1924	893,367,000	855,692,000	1,045,351,000	1,189,945,000
1925	796,933,000	805,247,000	1,069,067,000	1,120,360,000
1926	927,329,00 0	927,329,000	1,315,356,000	1,315,356,000
1927	1,030,893 000	1,100,530,000	1,252,158,000	1,283,685,000
1928	1,108,956,000	1,195,690,000	1,228,349,000	1,302,285,000
1929	1,265,679,000	1,403,097,000	1,363,710,000	1,548,578,000
1930	1,248,274,000	1,413,206,000	1,120,258,000	1,255,496,000
1931	906,613,000	1,169,380,000	799,743,000	1,097,832,000
1932	578,502,000	880,930,000	576,344,000	1,005,876,000

Canada's total imports of merchandise in 1932, amounting to \$578,503,904, show a decrease of 36·2 p.c. compared with 1931, and exports of domestic merchandise, amounting to \$576,344,302, a decrease of 27·9 p.c. During the past year, the drastic decline in commodity prices has materially affected the comparability of trade statistics. When the fluctuations in import and export prices have been eliminated from Canadian trade, by re-valuing the quantities imported and exported in 1932 at 1926 average values, as in the above table, the 1932 imports declined 24·7 p.c. and exports 8·4 p.c. from 1931. (See also Subsection 10 and Table 22 of this chapter.)

The decline in Canada's trade was not so marked as that of the United States and some other countries. However, the trade of both Canada and the United States suffered more from the general trade depression of the world than the trade of the chief commercial countries of Europe, with the exception of Hungary and Spain.

Statistical Tables of Current Trade.—Tables 10 to 18 (pp. 524-589) deal with the current trade statistics of the Dominion. Tables 10 and 11 are summary tables, showing by groups our trade with the United Kingdom, the United States and all countries, by values and percentages, for the latest four fiscal years. Table 12 shows the same in detail for exports and Table 13 for imports of all important articles. Table 14 shows by main classes imports as dutiable and free and exports as of Canadian and foreign produce for the five fiscal years 1928-32. Table 15 shows imports and exports for the fiscal year ended 1932 by degree of manufacture and by origin, and Table 16 gives similar information on a classification according to purpose. Table 17 gives our imports and exports for the two latest years by ports and provinces, and Table 18 shows the values imported from different countries under the general, preferential and treaty rate tariffs in 1931 and 1932.

The statistics in the following table indicate the trend of Canadian trade by main groups in 1914 (pre-war year), 1921 (peak year of post-war inflation) and 1932, (a) with all countries, (b) with the United Kingdom, and (c) with the United States.

SUMMARY OF THE TRADE OF CANADA BY MAIN GROUPS, FISCAL YEARS ENDED MAR. 31, 1914, 1921 AND 1932.

Group.	Values of Im (Million)	Values of Exports Canadian (Million \$).			Percentages of 1932— Imports to—Exports to—			
	1914. 1921.	1932.	1914.	1921.	1932.	1914.	1921.	1914.

(a) WITH ALL COUNTRIES.

				l 1		ı	1			
Agricultural and Vegetable				i i	l 1					
Products	97.6	259 - 4	128-6	201-2	482-1	204 - 4	13(+7	49-6	10t-6	42-4
Animals and Products	41-1	61.7	24 - 6		188 - 4	68.8		39.9		36.5
Fibres and Textiles	109 - 2	243 - 6	83 - 9		18.8	5.5		34-5	290-0	
Wood and Paper	37-4	57.5	32.0	63 - 2	284 - 6	175.7		55-6		
Iron and Its Products	143.8	245 · 6	98.8		76.5	15.5		40.2		
Non-Ferrous Metals	35.6	55.7	34.3		45.9	1.69		61.6	129 - 6	150.5
Non-Metallic Minerals	85.3	206 · t	$102 \cdot 2$	9.8	40.4	13 · 4	119.8	49.6	144.0	33 - 2
Chemicals and Allied Pro-										
ducts	17 - 1	37.9	30.7	4.9	20.1	10.5		81.0		
Miscellaneous Commodities.	52 - 1	72.7	48-4	5.7	32 · 4	13 · 4	83.8	59.7	235.0	41-4
				H						
Totals	619-2	1,240.2	578-5	431-6	1,189-2	576.3	93 - 5	46.7	133 ⋅ 5	48.5
			ļ	Į l		1				

(b) WITH THE UNITED KINGDOM.

Agricultural and Vegetable Products. Animals and Products. Fibres and Textiles. Wood and Paper Iron and Its Products. Non-Ferrous Metals. Non-Metallic Minerals. Chemicals and Allied Products. Miscellaneous Commodities	16.2 5.7 60.6 3.7 17.3 4.8 6.3 4.3 13.2	6.7 9.1 6.0 17.1	2.6 30.6 3.8 13.4 4.3 10.3 4.1 7.1	35-4 0-2 12-8 1-4 16-6 0-4 0-6 1-0		98.7 32.0 1.4 13.7 3.8 17.3 0.9	45-6 50-5 102-7 77-4 89-5 163-5 95-4 53-8	50.0 27.5 122.6 80.2 64.2 113.2 68.3 41.5	225·0 516·0 310·0	37.2 21.6 174.7 29.0 91.1 44.9
Totals	132 - 1	213-9	106+4	215.2	312-8	174-0	80-6	49.7	80.8	55.6

(e) WITH THE UNITED STATES.

Agricultural and Vegetable Products	Products 44-1 119-6 44-6 34-1 146-6 11-0 101-1 37-3 32-3 7-5 Animals and Products 23-3 42-9 14-2 32-3 75-8 22-4 60-9 33-1 69-4 29-5 7-1 1-7 95-0 30-4 142-0 23-9 80-0 20-0 140-5 80-8 48-8 311-0 65-0 17-0 23-9 81-0 20-0 19-6 31-1 65-0 35-7 155-0 15-8 80-8 48-8 311-0 65-0 35-7 155-0 15-8 80-8 48-8 311-0 65-0 35-7 155-0 15-8 80-8 48-8 311-0 65-0 20-0 36-2 297-5 58-7 105-0 155-0 15-8 80-8 80-8 31-0 65-0 20-0 36-2 297-5 58-7 105-0 15-5 105-0 15-8 105-0 14-1 41-1 41-1 41-1 41-1 41-1 41-1											
		Products. Animals and Products Fibres and Textiles. Wood and Paper Iron and Its Products. Non-Ferrous Metals. Non-Metallic Minerals Chemicals and Allied Products. Miscellaneous Commodities.	44·1 23·3 32·5 31·7 121·4 27·7 74·2 9·6 31·8	42.9 101.7 52.4 226.9 46.0 188.4 28.1 50.2	14·2 30·9 25·6 81·0 27·0 77·9 20·4 30·1	32.3 1.2 45.2 2.0 34.2 7.2 3.2 4.0	75.8 7.1 216.0 19.6 30.0 22.5 12.0	22.4 1.7 140.5 3.1 36.2 8.2 4.1 8.0	60.9 95.0 80.8 66.7 97.5 105.0 212.4 94.7	33 · 1 30 · 4 48 · 8 35 · 7 58 · 7 41 · 4 72 · 6 60 · 0	69.4 142.0 311.0 155.0 105.8 114.0 128.2 200.0	29.5 23.9 65.0 15.8 120.6 36.5 34.2 63.0

The statistics in the following table indicate the trend of Canadian trade from 1914 to 1932, (a) with all countries, (b) with the United Kingdom, and (c) with the United States.

SUMMARY OF TREND OF CANADIAN TRADE, 1914-32, (Values in Millions of Dollars.)

			(YAMUES	и вишю	are of the	Hars.,			
_	Į.	nports in	o Canad	a.	Export	ts from C	anada.	Excess	Percentage
Fiscal Year.	Duti- able Goods.	Free Goods.	Total Im- ports.	Per cent Free.	Can- adian Pro- duce.	Foreign Pro- duce.	Total Exports.	of— Imports (i) Exports (e).	Percentage of Exports to Imports.
	·	··	(a) W	TH ALL		IBS.			
	أدميد)				·	Ĭ	
1914	410·3 279·8	208 · 9 176 · 1	619+2 455-9	33·7 38·6	431·6 409·4	23·8 52·0	455·4 461·4		73·6 101·2
1916. 1917. 1918. 1919. 1920. 1921.	289 4	218-8	508 - 2	38.6 48.0	741.6	37.7	779 · 3 1 · 179 · 2 1 · 586 · 1	(e) 271-1	153 - 3
1917	461.7	384 - 7	846-4	45.4	1,151.4	27.8	1.179-2	(e) 332·8	139.3
1918	542·3 526·5	421·2	963·5 919·7	45 · 4 43 · 7 42 · 7 34 · 8 31 · 6 33 · 7 33 · 0 33 · 8 35 · 1	1,540-0 1,216-4	46·1: 52·3	1 268.7	(e) 622-6 (e) 349-0	164-6 137-9
1920	693-6		1,064.5	34.8	1,239.5	52·8 47·1 21·2	1,268·7 1,286·6 1,210·4	(e) 222-1 (i) 29-7	120.9
1921	847-5 495-6	392-6 252-2	1,240-1	31.6	1,189-2 740-2	21 · 21 13 · 7	1,210-4	(i) 29·7	97.6
1922	537-3	265·3	747-8 802-6	33.0	931·5	13.8	753 · 9 945 · 3 1,058 · 8	(e) 6-1 (e) 142-7	100·8 117·8
1924	591-3	302-1	893 - 4	33.8	1,045-4	13 · 8· 13 · 4	1,058.8	(e) 165·4	118.5
1925	516-0 583-0	280 · 9· 344 · 3	796-9	35 · J 37 · I	1.069-1	12·3 13·3	1,081·4 1,328·7	(e) 284.5	135.7
1927	659.9	371.0	927·3 1,030·9	36.0	1,315·4 1,252·2	15.4	1,267-6	(e) 401·4 (e) 236·7	143·3 122·9
1928	710-1	398.9	1,109.0	36⋅0	1.228-4	22.2	1 250-6	(a) 141.6	112-8
1929	821.1	444 · 6 429 · 1	1,265·7 1,248·3	35·1 34·5	1,363·7 1,120·3	25·2 24·7	1,388·9 1,145·0	(e) 123·2 (i) 103·3	109·7 91·7
1931	819·2 574·1	332.5	906-6	36.6	799.7	17.3	817.0	(i) 103·3 (i) 89·6	90.1
1921 1922 1923 1924 1924 1926 1927 1928 1929 1930 1930 1930 1931	388.5	190-0	578 - 5	32-8	576-4		587-6	(e) 9·1	
		- 1	(b) With	TEE UN	тио Ки	NGDOM.			-
1914	102 · 4	29-71	132 - 11	22.5	215-2	7.1	1 222.3	l(e) 90·2	167.5
1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1923	68.0	22.1	90-1	22 · 5 24 · 5 32 · 8 29 · 5	186-6	25 - 1	222·3 211·7	(e) 121·6	234.9
1916	52.0	25-4	77.4	32-8	451.9	11.2	l 463·1	(e) 385⋅7	598-3
1917	75·5 58·0	31-6 23-3	107 · 1 81 · 3	29·0 28·6	742·1 845·5	13-9 15-6	756-0 861-1	(e) 648-9 (e) 779-8	705·9 1,059·1
1919	50.0	23·0 33·1	73 - 0	28-6 31-5 26-2 20-5 18-8 17-7 17-8 17-5	540.7	20-1	l 560⋅8	(e) 487·8	768-2
1920	93·2 170·1	33·1 43·8	126-3	26-2	489·2 312·8	6·8	496-0	(e) 369·7· (e) 100·3	392·7
1922	95.1	22.0	213·9 117·1	18.8	299.4	1.0	314-2 300-4 379-9 361-2 397-2	(e) 183 3	256-5
1923	116-2	25 - 1	141.3 153.6	17.7	379 1	0.8	379-9	(e) 238·6	268-8
1924 1925	126·1 124·7	27·5 26·4	153 · 6 151 · 1	17.8	360·1 395·9	1 · 1 1 · 3	361-2	(e) 207·6 (e) 246·1	235·1 262·8
1926	133-1	30.6	163.7	18.6	508-2	1.1			811.1
1927	135-0	28.9	163-9	17.6	446-9	1.1	448-0	(e) 284·1	273 - 3
1928	150 · 1 154 · 4	36·4 39·6	186-5	19-1	410-7	2·1 1·9	412-8	(e) 226·3 (e) 237·6	222·1 222·4
1929	148.7		194-0 1 89- 2	20·4 21·4	429-7 281-7	1.4	283-1	(e) 231.0	149.6
1930 1931	108-6	40-9	149.5	27-4	219.8	1-4	220.7	(e) 71·2	147.5
1932	79-7	26.7	106-4	25 · 1	174-1	0.9	175-0	(e) 68-6	164.5
			(c) Wir	н тяв U	NITED S	FATRS.			
1914	249-5	146-8	396.3	37.0	163 - 4	13-6	177-0 186-3 216-7 290-6 440-8 477-7	(i) 219·3	44.6
1915	168-6	128.5	297 - 1	43.2	173.8	13.0	186.3	(i) 110-8	62.7
1910	199·5 332·0	333.3	370-9 665-3	40·2 50·1	201·1 280·6	15·6 10·0	210.7	(i) 154·2 (i) 374·7	58·4 43·7
1918	429.3	336-6	792-9	43 · 2 46 · 2 50 · 1 45 · 8 44 · 5	417-2	23.6	440.8	(i) 352·1 (i) 272·5	43·7 55·6
1915 1916 1917 1918 1919 1919 1920 1921 1922 1923 1924 1925 1925 1927 1928 1929 1930 1930 1930	416.5	333 - 7	750-2	44.5	454.9	22.8	477 - 7	(i) 272·5	63 · 7
1021	499·7 544·0		801 · 1 856 · 2	37·6 36·5	464-0 542-3	37·1 18·4	501 · 1 560 · 7	∥(I) JUU'V	62·5 65·5
1922	312-1	203-9	516.0	39.5	292-6	11.5	304-1	(i) 211-9	88.9
1923	332-2	208-8	541.0	38.6	369-1	11.2	1 380⋅3	(í) 180∗7	70.3
1924	355-9 287-1	245·3	601·2	40·8	430-7	10.9	441.6 427.2 485.9	(i) 159·6 (i) 82·6	73 · 4 83 · 8
1926	338-0	270-7	509·8 608·6	43·7 44·5	417-4 474-9	9·8 11·0	485.9	(i) 122·7	79-7
1927	392.7	294.3	687 0	42.9	466-4	12.9	479·3 496·8	(i) 207·7	79-7 69-7
1928	416-0 523-9	302 · 9	718-9	42·1	478-1	18.7	496.8	(i) 222·1	69.0
1930	523 - 3	324 - 1	868-0 847-4	39 6 38 2	499-6 515-0	21·7 21·6	521 · 3 536 · 6	(i) 346.7 (i) 310.8	60·1 63·3
1931	359.6	224 - 8	584 · 4	38-5	349-6	14.3	363 · 9 244 · 4	(i) 220·5	62-3
1932	229-6	122 - 1	351.7	34.7	235-2	9.2	244-4	(i) 107-3	69.5

Subsection 3.—Trade with the United Kingdom and the British Empire.

Trade with the United Kingdom.—The import and export trade with the United Kingdom is outlined for the years 1914, 1921 and 1932 for the main groups of commodities on p. 496, while total imports and exports are shown for each year since Confederation in Tables 5 and 6 on pp. 520 and 521. In the post-war period imports from the United Kingdom have risen from a low point at \$117,135,000 in the fiscal year ended 1922 to a peak of \$194,041,000 in 1929 and declined again to \$149,497,000 in 1931 and \$106,372,000 in 1932. In the case of exports of Canadian produce, the value was \$299,362,000 in 1922, \$508,238,000 in 1926, \$429,730,000 in 1929, \$219,246,000 in 1931 and \$174,044,000 in 1932. Bountiful harvests and receptive world markets were the basis of a high level of exports in the years 1925-29. In this connection it should be emphasized that there is a wide discrepancy between Canadian figures of exports to the United Kingdom and the United Kingdom record of imports from Canada, due to the diversion to other countries of grain products exported via the United States (see p. 493), so that the excess of Canadian exports to the United Kingdom over imports from that country is not actually so large as our records show.

In connection with the serious decline in trade with the United Kingdom since 1929, it should be remembered that short crops in 1929 and subsequent years, together with an over-supply of foodstuffs on the world's markets, affected Canada's trading position very unfavourably while, as a result of the wide decline in prices, the recession in the value of exports and imports has been much greater than that in volume.

Canadian exports to the United Kingdom are made up very largely of grains and vegetable products, animal products, wood and paper products and non-ferrous metals. In the fiscal year ended 1932, the exports of wheat and wheat flour declined nearly \$47,000,000 as compared with 1931. Other important commodities to show reductions in value of exports were: rubber footwear, cheese, raw furs, newsprint paper, planks and boards, nickel in matte and pig lead. Important exports to the United Kingdom to show increases were: barley, raw tobacco, oats, live cattle, butter and copper. Exports to the United Kingdom of non-ferrous metal products, owing to the increased productive capacity of Canada in commodities of this group, have stood up remarkably well. In fact, the total of \$17,266,000 in 1932 was higher than for any previous year with the exception of the war years 1917-19, when prices were very much higher.

A decrease in imports from the United Kingdom in the fiscal year ended 1932, as compared with 1931, occurred in every one of the nine main groups. However, in recent years from 50 p.c. to 60 p.c. of Canada's imports from the United Kingdom have been made up of textiles and alcoholic beverages. It was in these commodities that the principal decreases occurred—\$18,657,000 in textiles and \$7,821,000 in beverages. Other leading imports to show reductions were: tea, leather, iron and steel products, and coal. No leading imports showed increased values.

The commodities making up Canada's export and import trade with the United Kingdom are dealt with in detail in Tables 12 and 13 of this chapter.

Trade of Canada with the British Empire.—Canada was the first of the British Dominions to grant a preference on goods the produce and manufacture of the United Kingdom and reciprocating British Dominions and possessions. This preference was extended by Order in Council from time to time to other portions of the British Empire until now it is applicable to practically every British Dominion and possession. In the case of Newfoundland, in addition to the preference, Canada grants free admission to fish and fish products. Australia receives special conces-

sions under the Trade Agreement of 1931 and the British West Indies under the Agreement of 1925 referred to on p. 483. The British preferential tariff enacted in 1897, as well as trade treaties and agreements negotiated with British and foreign countries, have had the effect of stimulating Canada's external trade. When the British preference became effective in 1897 Canada's total imports from the United Kingdom in that year amounted to only \$29,401,000, compared with an import in 1887 valued at \$44,741,000 and in 1873 at \$67,997,000. From 1873 to 1897 imports from the United Kingdom decreased \$38,596,000 or 56.7 p.c. Thus, since the introduction of the British preferential tariff, a downward trend in imports from the United Kingdom has changed to one strongly upward. But, in spite of the encouragement offered by the preferential tariff, a study of the figures in the following table will show that trade with the United Kingdom, and with the British Empire as a whole, has not grown so rapidly as that with foreign countries, with the result that in both imports and exports the percentage of the total trade of Canada carried on with the British Empire has declined. The proportion of trade with parts of the Empire other than the United Kingdom has increased but not sufficiently to overcome the decreased percentage with the United Kingdom. However. during the two latest years the proportion of trade with both the United Kingdom and the total British Empire showed a distinctly upward trend, especially in imports. but in exports also, although both the volume and direction of Canada's exports vary widely with the vicissitudes of crops here and in other parts of the world.

In the interpretation of statistics covering a long period such as those in the table following, the wide fluctuations in price levels should be borne in mind. Thus the fiscal year 1896, just prior to the introduction of the British preference, marked about the close of a long period of declining prices which began in the '70's. Prices followed a rising trend from then to the last pre-war fiscal year 1914, and rose very steeply throughout the War to a peak in the fiscal year ended 1921. In the following year, 1922, prices suffered a sudden drop and then remained fairly steady until 1929, since when the recent serious decline has occurred. (See Chapter XX). The trade of Canada with the British Empire in certain fiscal years was as under:—

TRADE OF CANADA WITH THE BRITISH EMPIRE.

•	Cana	dian Trade w	ith—	Perc T	entage of T rade with-	otal
Item and Fiscal Year.	United Kingdom.	Other British Empire.	Total British Empire.	United Kingdom.	Other British Empire.	Total British Empire.
Imports.			-	p.c.	p.c.	p.c.
1886			41.416,566		2.5	43.2
l 896	32,824,505				2.2	33 - 4
1906	69,183,915			24-4	5.1	29.5
914	132,070,406				3.6	
921						21.
922	117, 135, 343	31,973,910			4.3	20-0
926,	163,731,210		208,820,128			22.
929		63,346,829			5.0	20.3
930					5-1	20.
931	149, 497, 392				6-2	22.7
932	106,371,779	41,440,214	147,811,993	18-4	7-2	25 - 0
Exports (Canadian).	00 004 000	0.000.000		ا ما		
886	36,694,263					51.4
896	62,717,941				3.7	60.9
906					4.5	58.
914	215,253,969	23,388,548		49.9	5.4	55 - 3
921		90,607,348			7.6	33.
922					6-3	46
926	508,237,560				6.9	45-
929					7.8	39
930		97,825,173			8.8	33-
1931	219, 246, 499				9.2	36.6
932	174,043,725	44,912,662	218,956,387	30.2	7.8	38-

Subsection 4.—Trade with the United States and other Foreign Countries.

Trade with the United States.—During the fiscal year 1932 nearly 61 p.c. of Canadian imports came from the United States, including large importations, though greatly reduced from the previous year, in all the nine main groups of commodities.

Iron and its products was again the leading group, including machinery, automobiles and parts, rolling-mill products, etc., while non-metallic minerals, chiefly coal and petroleum products, were second in importance. The total values of these main groups of imports, arranged in order of importance, with the decrease in 1932 compared with 1931, were: (1) iron and its products, \$81,005,384, decrease \$86,669,335 or 51.7 p.c.; (2) non-metallic mineral products, \$77,871,155. decrease \$41,113,263 or 34.6 p.c.; (3) agricultural and vegetable products, \$44,-578,848, decrease \$23,001,533 or 34.0 p.c.; (4) fibres, textiles and textile products, \$30,944,027, decrease \$17,300,392 or 35.8 p.c.; (5) miscellaneous commodities, \$30,131,580, decrease \$15,136,929 or 33.4 p.c.; (6) non-ferrous metal products. \$27,026,602, decrease \$22,134,515 or 45.0 p.c.; (7) wood, wood products and paper, \$25,584,827, decrease \$12,553,201 or 32.9 p.c.; (8) chemicals and allied products, \$20,359,822, decrease \$2,842,170 or $12 \cdot 2$ p.c.; and (9) animals and animal products, \$14,184,530, decrease \$11,968,905 or 45.8 p.c. Among commodities, the leading imports were: coal, machinery, crude petroleum, automobile parts, fresh fruits, gasolene, raw cotton, iron plates and sheets, settlers' effects, engines and boilers, and raw silk. Raw silk was the only one of these in which the value of imports increased even slightly over the previous year. All the others, together with automobiles and farm implements, showed large reductions compared with the previous year.

Among Canadian exports to the United States the wood and paper products group is by far the most important. Indeed newsprint paper constituted about 38 p.c. of the total value of these exports in the fiscal year 1932. Other large items in this group, such as wood pulp, planks and boards, pulpwood and numerous other less important wood and paper products, made the exports under this group as a whole amount to 60 p.c. of the total exports to the United States, as compared with only 54 p.c. in the previous year, so that, while exports of all these important commodities were of reduced value, the reduction was not so great proportionately as in other exports. Non-ferrous metals was still the second most important group of exports, although the value of exports to the United States under this group made a further decline of 38 p.c. due to large reductions in exports of raw gold, copper, nickel, and silver and aluminium. The total values of the nine main groups of domestic exports, arranged in order of importance, with the decrease in 1932 compared with 1931, were: (1) wood, wood products and paper, \$140,473,352, decrease \$48,-476,056 or 25 · 6 p.c.; (2) non-ferrous metal products, \$36,176,490, decrease \$22,659,-193 or 38.5 p.c.; (3) animals and animal products, \$22,342,515, decrease \$11,725,893 or 34.4 p.c.; (4) agricultural and vegetable products, \$11,035,258, decrease \$16,609,-

116 or 60·1 p.c.; (5) non-metallic mineral products, \$8,233,323, decrease \$5,021,935 or 37·8 p.c.; (6) miscellaneous commodities, \$7,960,570, decrease \$4,398,520 or 35·6 p.c.; (7) chemicals and allied products, \$4,123,489, decrease \$2,238,202 or 35·2 p.c.; (8) iron and its products, \$3,097,883, decrease \$3,020,237 or 49·3 p.c.; and (9) fibres, textiles and textile products, \$1,743,794, decrease \$324,737 or 15·7 p.c.

The total trade of Canada with the United States in the fiscal year 1932 was $37 \cdot 1$ p.c. less than in 1931 and $56 \cdot 9$ p.c. less than in 1930. Imports decreased $39 \cdot 8$ p.c. from 1931 and $58 \cdot 5$ p.c. from 1930, while exports were $32 \cdot 9$ p.c. less than in 1931 and $54 \cdot 5$ p.c. less than in 1930.

For a more detailed treatment of the commodities making up our export and import trade with the United States, see Tables 12 and 13 of this chapter.

Canadian Trade via the United States.—Imports from overseas countries via the United States have steadily declined in recent years, especially those from the British Empire. This decrease has followed: (1) general propaganda to utilize Canadian sea and river ports, (2) additional concessions to goods imported under the preferential tariff if they come direct. Provision has been made, in trade treaties and agreements negotiated with foreign countries, that goods must be imported via a Canadian sea or river port in order to obtain the full benefits of special rates of duty. Between 1920 and 1932 imports via the United States have decreased from 9.5 p.c. to 2.2 p.c. of the total imports from overseas countries.

The proportion of exports from Canada to overseas countries via the United States shows a slight decline since 1927, the percentages for the past eleven fiscal years being: 1922, 32·8; 1923, 41·1; 1924, 36·2; 1925, 39·3; 1926, 39·2; 1927, 39·5; 1928, 38·9; 1929, 36·7; 1930, 33·8; 1931, 27·5 and 1932, 18·7. The decline has thus been very marked in the latest year. Details by countries are given in Table 21 of this chapter.

Trade with Other Foreign Countries.—The relative changes in the positions occupied by the United States and other foreign countries in Canada's trade in various years from 1886 to 1932 are shown in the following table. Imports from the United States increased from 44.6 p.c. of total imports in 1886 to 64 p.c. in 1914. During the War and the years immediately following, when production and exports by many European countries were curtailed, imports from the United States rose to a high proportion and were 69 p.c. in 1921, while those from other foreign countries declined. With this exception the proportion of imports from other foreign countries has remained surprisingly constant over the period of nearly half a century, although in the two latest years there has been a tendency for the proportion of total imports from the United States to decline, while that from other foreign countries has risen slightly. In the case of Canadian exports, on the other hand, those to the United States have fluctuated between 34 p.c. and 46 p.c. of the total, while those to other foreign countries have increased from 4.5 p.c. to 21 p.c. of total Canadian exports.

TRADE OF CANADA WITH THE UNITED STATES AND OTHER FOREIGN COUNTRIES.

	Cana	lian Trade w	ith—	Percentage of Total Trade with—				
Item and Fiscal Year.	United States.	Foreign Foreign States Foreign		n Foreign Chited Foreign		Total Foreign Countries.		
Imports.	\$	\$		p.e.	p.c.	p.c.		
886	42,818,651	11,756,920		44.6	12.2	56-8		
896 906	53,529,390 169,356,452	16,618,619 30,694,894	70,148,009 199,950,846	50·8' 59·6	15·8 10·9	66-6 70-5		
914,,,,,,,	896, 302, 138	68, 365, 014	464,667,152	64.0	11.0	75.0		
921 922	856, 176, 820 515, 958, 196	117,979,374 82,736,883	974, 156, 194 598, 695, 079	69-0 69-0		78 - 6 80 - 0		
926	608,618,542	109,890,062	718,508,604	65.6	11.9	77-4		
929	868,012,229 847,442,037	140, 278, 652 148, 156, 943		68-6 67-9	11·1 11·8	79·7		
931 932,	584,407,018	117,307,251	701,714,269	64·5 60·8	12·9 13·6	77-4		
Exports (Canadian),		,						
886	34,284,490	3,515,148	37.799 ,638	44 - 1	4.5	48-		
896	37,789,481	5, 152, 185	42,941,686		4.7	39-		
906	83,546,306 163,372,825	13,516,428 29,573,097	97,062,734 192,945,922	35·5 37·9		41- 44-		
921	542,322,967	243,388,515	785,711,482	45-6	20-5	66-		
922	292,588,643	101,816,627 241,800,429	394,405,270 716,787,796	39·5 36·1	13·8 18·3	58 - 54		
926	474,987,367 499,612,145	328, 108, 239		36.7	24.0	60-		
930	515,049,763	225,637,401	740,687,164	46.0	20.0	66- 63-		
931	349,860,563 235,186,674	157,217,708 122,201,241		43.7 40.8	19·7 21·2	62 ·		

With further reference to the trade of Canada with countries other than the United Kingdom and the United States, attention is directed to Tables 10 to 36 (pp. 132-165) of the Condensed Preliminary Report on the Trade of Canada, 1932, published by the Dominion Bureau of Statistics and giving the trade of Canada in leading commodities with 81 British and foreign countries for the fiscal years 1931 and 1932.

Subsection 5.—Geographical Distribution of Canadian Trade by Continents and Countries.

Geographical Distribution of Canadian Trade by Continents.—During the fiscal year ended Mar. 31, 1932, values of exports to all continents were reduced as compared with the previous year. Canada again sold more goods to North America than to Europe, although the proportion to Europe increased considerably, there being increased proportions to both the United Kingdom and 'other Europe', while the proportion to North America (both the United States and other North America) and the other continents decreased. Imports declined in value from every continent as well as the two leading individual countries. North America was again the chief source of imports, providing 64 p.c. of the total. The proportions of imports supplied by Europe, other North America, South America, Asia, Oceania and Africa increased, while the proportion from the United States decreased. Summary statistics are given in the following statement:—

TRADE OF CANADA, BY CONTINENTS, 1926, 1931 AND 1932.

(With proportion of Trade with each Continent.)

	Imports for Consumption.					Exports (Canadian).						
Continent.		Values fillion :			Percentages of Totals.		Values (Million \$).			Percentages of Totals.		
:	1926.	1931.	1932.	1926.	1931.	1932.	1926.	1931.	1932.	1926.	1931.	1932.
Europe United King-	223-4	224-2	•		24 - 7	27-1	648-5	-309⋅2	251.2			
domOther Europe	163·7 59·7	149·5 74·7	106·4 50·6	17·6 6·5	16·5 8·2	18·4 8·7	508 · 2 140 · 3	219·2 90·0	174·0 77·2	38·6 10·7	11.3	13.4
North America United States Other North	644 · 7 609 · 8	607 · 8 584 · 4	369·3 351·7	69·5 65·7	67·1 64·5	63·8 60·8	516·2 474·9	395 · 4 349 · 6	266-8 235-2	39·2 36·1	49·4 43·7	
America South America	34·9 17·1	25 6	17.3	3·8 1·9	2·6 2·9	3·0 3·0	27 · 4	45·8 20·6	31-6 8-9	3·1 2·1	5·7 2·6	
Asia Oceania Africa	32-7 8-7 0-8	27.7 14.4 6.9	18·8 9·5 6·6	3.5 0.9 0.1	3.0 1.6 0.7	3.3 1.7 1.1	77.2 32.6 13.3	39+4 20+0 15+0	28·3 10·2 10·9	5.9 2.5 1.0	4-9 2-5 1-9	4.1 1.1
Totals	927-4			100.0		100.0		799-6	576-3	100.0		

Imports from Principal Countries.—The relative order of the four leading countries which supplied Canada with goods in the fiscal year ended Mar. 31, 1932, was unchanged from 1929 to 1931, although in every case the value shows a heavy decrease. The principal countries from which Canada increased her imports over the previous year were Australia (raisins and currants, canned fruits, sugar, worsted tops, etc.), British South Africa (fruits, corn and sugar), Trinidad and Tobago (sugar), and British Guiana (sugar). With the depression in world trade, imports from most countries fell off, but disproportionately large reductions, that is, reductions in the percentage of imports, occurred in imports from New Zealand (butter and other animal products), Argentina (corn and flaxseed) and the United States. In appraising changes over the ten-year period shown by the comparison with the imports of 1922, the great decline in prices should be kept in mind as well as the effects of the current trade depression. Thus, appropos of the price decline, while the value of imports from the United Kingdom was about 10 p.c. less in 1932 than 1922, the average import valuations had declined over 40 p.c. in the same period, so that undoubtedly imports from the United Kingdom were in larger volume in 1932 than ten years before, and the same, though to a less degree, holds true with imports from the United States and Japan. But from many countries imports were greater in value in 1932 than 1922. The most important of these were Germany, Australia, Colombia and British South Africa, while imports were also greater in a less marked degree from the Netherlands, Belgium, Jamaica, Italy, China, Trinidad and Tobago, and Czechoslovakia. On the other hand, imports have declined greatly from Switzerland, Peru, Mexico and Hong Kong, while the diversion of imports of raw sugar and other tropical products from Cuba and Santo Domingo to countries willing to make more favourable trade agreements with Canada, such as the British West Indies, British Africa and the Fiji Islands, has resulted in Cuba dropping from 4th to 31st place.

CANADA'S IMPORTS FROM THIRTY-FIVE LEADING COUNTRIES, 1932.

Note.—Countries arranged in order of importance, 1932.

	Rank	i	Country.	Value of Imports.	In	erease (+) or 1932 Compa			Percent Impo	
1922	1931	1932				1922.		193 t.	1922.	1932.
			- 	3	_	*		\$	р.с,	p.c.
1 2 3 18 6 10 29 9 11 30 8 5 15 3 27 7 22 2 31 3 14 9 16 6 23 8 4 2 23 4 2 21 2 7 24	1 2 3 4 5 8 6 6 7 3 18 15 0 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 7 8 9 10 11 12 13 14 15	United States. United Kingdom France. Germany Japan Netherlands Avstralia. British India. Belgium Colombia. British Guiana. British Guiana. British South Alrica. Italy. China Switzerland Peru. Trinidad and Tobago. Czechoslovakia. Barbados. Argentina. Fii Ceylon. Other British West Indies Newloundland Spain. British East Africa. New Zealand Brazil. Cuba. Sweden. Mexico. Hong Kong Straits Settlements. Totals, Above 35 Countries Totals, All Countries British Empire. Foreign Countries.	4,323,169 4,193,437 3,725,558 8,687,517 3,515,589 3,124,902 2,759,668,363 2,608,363 2,608,430 1,573,916 1,560,516 1,493,791 1,483,881 1,476,630 1,436,338 1,090,230 981,091 879,476	11++1++1++1++++11++11+1+++1+111+111 11	164, 271, 421 10, 763, 564 8, 136 9, 616, 053, 2 2, 204, 230 1, 825, 922 4, 617, 121 1, 202, 003 1, 674, 902 1, 624, 742 2, 190, 498 4, 195, 431 2, 966, 067; 2 3, 12, 931 4, 948, 941 1, 446, 244 2, 407, 940 321, 124 235, 283 640, 250 613, 413 335, 441 1, 449, 244 2, 407, 940 321, 124 253, 283 640, 250 613, 413 335, 441 1, 498, 196 91, 855 90, 778 1, 499, 228 76 512, 701 12, 016 14, 988, 196 91, 855 1, 443, 798 908, 965 165, 614, 808 165, 614, 808 165, 614, 808 168, 300, 428	11+111+1+111111111111111111111111111111	232, 720, 243 43, 125, 613 43, 125, 613 5, 433, 961 4, 529, 167, 1, 529, 167, 1, 529, 167, 1, 680, 048 3, 326, 980 3, 372, 288 3, 372, 288 1, 586, 576; 386, 576; 386, 576; 386, 576; 386, 576; 386, 576; 386, 576; 387, 288, 385 426, 523 1, 591, 173 4, 131, 334 4, 131, 334 4, 131, 334 4, 131, 334 4, 131, 334 4, 131, 334 4, 131, 334 4, 131, 334 4, 131, 334 4, 131, 334 1, 137, 898 1, 177, 880 1, 427, 556 1, 157, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981 1, 177, 981	69-0 15-78 69-3 10-5 69-3 10-5 69-3 10-5 69-3 10-5 69-3 10-5 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 69-3 6	60.8 18.4 2.30 1.00 1.00 1.00 0.99 0.8 0.8 0.6 0.6 0.5 0.4 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1

Exports to Principal Countries.—After a decline in 1931 Canada's exports to most of the principal countries showed a further falling off in the fiscal year 1932 as compared with 1931, the contraction being due to a serious decline in commodity prices as well as reduced volume. Exceptions to the general rule in the latest year occurred in the cases of France, due to large increases in the exports of wheat, the Netherlands and Denmark due to increased exports of grains, and Norway, due to copper-nickel matte. As a result France rose from 6th to 3rd place among the The United States and the United Kingdom nations as a market for Canada. retained first and second places respectively with Japan in 4th place, in spite of the fact that there was a considerable reduction in the value of exports in each case. The percentages of exports in 1932 over 1931 increased to the United Kingdom, France, Japan, Belgium, Netherlands, Germany, British South Africa, Denmark, and Norway, while percentages decreased to the United States, Newfoundland, China, Argentina, Italy, New Zealand, and British India, exports to Italy, Argentina and New Zealand showing disproportionately large decreases. During the ten-year period covered by comparisons with 1922, exports to many countries have increased

in value despite the great decline in commodity prices in the interval. Most important among the countries to which exports have increased in value and percentage are: France, Japan, Belgium, Netherlands, Germany, St. Pierre and Miquelon, British South Africa, and China. On the other hand, exports to each of our two principal customers, the United States and the United Kingdom, were lower in value in 1932 than in 1922; in the case of the latter the decline in value was 42 p.c. and the decline in the proportion to total exports was from 40 p.c. to 30 p.c. Other countries which took a decreased proportion of Canada's exports in 1932, as compared with 1922, were Newfoundland, Australia, Italy, Greece, Trinidad and Tobago, Cuba, and British Guiana.

CANADA'S DOMESTIC EXPORTS TO FORTY LEADING COUNTRIES, 1932.

Nove.-Countries arranged in order of importance, 1932.

Rank	·	Country.	Value of Exports.	aI	crease (+) or 1932 Comps			Percent Expo	
1922 1931	1932		OI DIENTES.		1922.		1931.	1922.	1932.
			*		*			p.e.	p.c.
2 1 2 2 6 4 3 3 5 9 16 12 2 14 6 16 13 5 5 15 15 15 15 15 15 15 15 15 15 15 15	1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 5 16 6 17 8 19 20 21 12 22 3 24 25 26 27 28 29 3 3 3 4 3 5 3 3 6 7 3 8 8 3 9 4 40	United States United Kingdom France Japan Belgium Netherlands Germany St. Pierre and Miquelon British South Africa Newfoundland China Australia Argentina Italy Denmark New Zealand Norway British India Irish Free State Iamaica Greece Other British West Indies Sweden Trinidad and Tobago Bermuda Cuba Hong Kong Menco Barbados Portuguese Africa British Honduras Brazil British Guiana Finland Peru Spain Venezuela Colombia Dutch East Indies Puerto Rico Totals, Above 40 Countries Totals, All Countries	2,385,789 2,147,637 1,948,898 1,637,676 1,434,659 1,366,947 1,092,425 1,008,412 978,469 666,103 549,827 556,103 549,827 553,891 567,258 450,184	+++++++1+1+1+1+++1+++1+++1++11++1++11	57, 401, 969 125, 317, 950 9, 746, 993 1, 724, 170 1, 677, 3, 919, 233 5, 895, 709 4, 511, 106 5, 290, 618 1, 111, 312 11, 070, 494 11, 632, 499 404, 306 5, 285, 500 1, 494, 377 2, 661, 421 420, 538 2, 400, 998 404, 377 2, 661, 421 420, 556 22, 969 549, 375 2, 336, 756 22, 969 1, 165, 563 2, 400, 998 888, 254 857, 448 1, 922, 559 1, 519, 636 82, 448 1, 922, 548 1, 1111	114, 473, 889 45, 202, 774 4, 668, 563 2, 403, 275 3, 024, 604 2, 536, 980 1, 385, 444 4, 056, 785 3, 214, 057 1, 400, 726 1, 286, 994 1, 286, 994 1, 287 1, 488, 484 1, 114, 695 3, 230, 240 1, 875, 533 3, 230, 240 1, 875, 533 3, 230, 240 1, 875, 533 3, 230, 240 1, 875, 533 3, 230, 240 1, 875, 533 3, 230, 240 1, 875, 533 3, 230, 240 1, 875, 533 3, 230, 240 1, 138, 433 2, 1, 230, 427 527, 340, 522 1, 819, 713 361, 446 722, 997 751, 127 750, 977 750, 937 750, 937 756, 336 658, 049 446, 520 228, 934	\$9.5 40.4 1 2.07 1.3 0.6 0.4 0.5 1.3 0.6 0.5 1.3 0.6 0.5 0.2 0.3 0.7 0.2 0.2 0.2 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	40- 30- 30- 30- 20- 20- 11- 11- 11- 11- 11- 11- 11- 11- 11- 1	
		British Empire Foreign Countries	218,956,387 357,387,915	-	126,879,023 37,017,355	=	73,908,009 149,490,356	46·7 53·3	38 62

¹ The United Kingdom included the Irish Free State in 1922.

Statistical Tables of Trade by Countries.—Statistics showing the course of import and export trade during the latest five fiscal years, by countries with which Canada carries on trade, will be found in Tables 19 (imports) and 20 (exports). Table 21 shows by countries the values of goods imported into and exported from Canada via the United States for the latest two fiscal years.

A series of tables showing Canadian trade in principal commodities with the leading countries with which she trades (other than the United Kingdom and the United States, which are exhaustively dealt with in Tables 12 and 13) followed Table 21 in the 1931 Year Book. These tables have been omitted in the present edition to economize space. They will be found in the Condensed Preliminary Report on the Trade of Canada, 1932 (pp. 132-165), while historical tables showing our trade with these and other countries in each year since Confederation will be found on pp. 14-19 of the Annual Report of the Trade of Canada for 1932, both published by, and obtainable from, the Dominion Bureau of Statistics.

Subsection 6.-Principal Commodities Imported and Exported.

While Canadian imports and exports in all the principal groups show a decrease in value in the fiscal year 1932 as compared with 1931, imports were still greater than exports in the textile, iron, non-metallic mineral, chemical and miscellaneous groups, while exports predominated in the agricultural, animal, wood and non-ferrous metal groups. Nevertheless, the largest group of imports was that of agricultural and vegetable products, followed by non-metallic minerals, iron and textiles. In 1931 the iron group of imports was the highest, while as recently as 1929 imports of iron products exceeded those of vegetable products by 50 p.c. But the decline since then has affected the imports of iron products much more than those of vegetable and of non-metallic mineral products. In the fiscal year 1932, as compared with 1931, total imports declined 36 p.c. but imports of iron products declined 49 p.c., textiles 36 p.c., non-metallic minerals 34 p.c. and vegetable products 28 p.c. In domestic exports, while the average decline from the previous fiscal year was 28 p.c., exports of vegetable products dropped 30 p.c., non-ferrous metals 28 p.c., wood and paper products 24 p.c. and animal products 18 p.c.

For further information respecting Canada's trade in principal commodities with all countries, fiscal years 1929-32, see Table 13 for imports and Table 12 for exports.

Canada's Principal Imports.—The statement which follows shows the principal commodities imported into Canada in the fiscal years 1890, 1900, 1910, 1920, 1930 and 1932, the commodities being arranged in order of importance in 1932. In the interpretation of the trends in imports shown by the figures in this table, the effect of price changes and of fluctuations of the so-called business cycle should be kept in mind. Thus the Bureau of Statistics' index number of wholesale prices on the 1926 base was 59·3 in the calendar year 1889, 52·1 in 1899, 58·5 in 1909, 134·0 in 1919, 95·6 in 1929 and 72·1 in 1931, these calendar years approximating to the fiscal years ended 1890, 1900, 1910, 1920, 1930 and 1932. In the matter of business fluctuations, the fiscal year 1910 was influenced by the general development boom in Western Canada, 1920 was affected by the feverish activity which immediately followed the War, 1930 represented the end of the security inflation period and the beginning of the downturn, while in 1932 the effects of the depression and price decline were being severely felt.

During the period of 42 years covered by the table, great changes have occurred in the character of the leading imports, due to developments both in the industrial organization of the country and the goods consumed by the people. present-day leading imports such as crude petroleum, automobiles and parts, artificial silk, electric apparatus, aluminium, were in 1890 either non-existent or formed very insignificant items of trade. Imports of farm implements in 1890 amounted to only \$161,000 but, due to the tremendous agricultural expansion in Canada since that time as well as to increasing mechanization of agricultural operations, imports of farm implements have grown to a large item in spite of the wide development of their manufacture within the country. On the other hand, a number of the leading imports of 1890, such as woollen goods and raw wool, sugar and products, cotton goods and raw cotton, tea, grain products and meats, have become relatively much less important as imports. Then again, there were certain leading imports in 1890, such as coal, rolling-mill products, machinery and fruits, which still remain among the chief items of imports owing to the absence of coal and high grade iron ore deposits in the central portion of Canada where population and industry are chiefly concentrated, and to the demand for fruits which cannot be grown in Canada.

It is estimated that about one-third of the imports during recent years have been for use in the various industries of the Dominion. The decrease in imports of such commodities in the past three years has been about proportional to the decrease in total imports. Of the leading 62 commodities imported in the fiscal year 1932 for further manufacture in Canada, 49.8 p.c. by value was raw materials, 24.4 p.c. partly manufactured and 25.8 p.c. was classed as fully or chiefly manufactured goods such as automobile parts and engines, rolling-mill products, etc.

CANADA'S LEADING IMPORTS, FISCAL YEARS, 1890, 1900, 1910, 1920, 1930 AND 1932.

(Commodities arranged in order of importance, 1932.)

Coal 8,013,156 11,012,223 27,516,878 60,072,629 56,312,418 Alcoholic beverages 1,698,161 1,938,112 4,459,566 9,135,536 45,026,487 Machinery 1,877,551 5,159,952 14,690,873 6,716,791 69,117,528 Crude petroleum 2,244 1,189,071 20,306,693 50,951,202 Fruits 2,400,851 3,133,407 8,316,462 33,463,270 34,277,882 Sugar and products 6,452,654 8,610,885 14,962,770 78,18,354 27,387,158 Rolling-mill products 5,645,704 11,905,937 15,692,051 39,985,746 61,884,002 Electrical apparatus 317,515 810,900 3,883,538 15,550,254 37,611,268 Petroleum, refined 690,233 830,025 2,236,681 10,566,692 25,180,476	
Coal 8,013,156 11,012,223 27,516,878 60,072,629 56,312,418 Alcoholic beverages 1,686,161 1,938,112 4,459,566 9,135,536 45,026,487 Machinery 1,877,551 5,159,952 14,680,873 36,716,791 69,117,528 Crude petroleum 2,400,851 3,133,407 8,316,462 33,463,270 34,279,791 Sugar and products 6,452,654 8,610,845 14,962,770 73,183,364 27,987,158 Bolling mill products 5,645,704 11,905,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,883,538 15,550,254 37,611,263 Petroleum, refined 690,233 830,025 2,326,681 10,586,692 25,180,476	1932.
Alcoholic beverages 1,685,161 1,938,112 4,459,566 9,135,536 45,026,487 Machinery 1,877,551 5,159,952 14,690,873 36,716,791 69,117,528 Crude petroleum 2,400,851 3,133,407 8,316,462 33,463,277 34,277,882 Sugar and products 6,452,654 8,610,845 14,962,770 36,18,354 22,778,825 Rolling-mill products 5,645,704 11,905,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,883,538 15,560,254 37,611,204 Petroleum, refined 690,233 830,025 2,326,681 10,566,692 25,1180,476	*
Alcoholic beverages 1,685,161 1,938,112 4,459,566 9,135,536 45,026,487 Machinery 1,877,551 5,159,952 14,690,873 36,716,791 69,117,528 Crude petroleum 2,400,851 3,133,407 8,316,462 33,463,277 34,277,882 Sugar and products 6,452,654 8,610,845 14,962,770 36,18,354 22,778,825 Rolling-mill products 5,645,704 11,905,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,883,538 15,560,254 37,611,204 Petroleum, refined 690,233 830,025 2,326,681 10,566,692 25,1180,476	35,501,362
Machinery 1,877,551 5,159,952 14,690,873 36,716,791 69,117,528 Crude petroleum 23,244 1,189,071 20,306,693 50,951,202 Fruits 2,400,851 3,133,407 8,316,462 33,463,270 34,63,270 34,277,882 Sugar and products 6,452,654 8,610,845 14,962,770 73,618,354 27,987,156 Rolling mill products 5,645,704 11,905,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,888,538 15,550,254 37,611,263 Petroleum, refined 690,233 830,025 2,326,681 10,566,692 25,180,476	25,929,880
Fruits 2,400,851 3,133,407 8,316,462 33,463,270 34,277,882 Sugar and products 6,452,654 8,610,845 14,962,770 73,618,354 22,987,158 Rolling mill products 5,645,704 11,905,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,888,538 15,550,254 37,611,268 Petroleum, refined 690,233 830,025 2,366,681 10,566,692 25,180,476	24,387,589
Fruits 2,400,851 3,133,407 8,316,462 33,463,270 34,277,882 Sugar and products 6,452,654 8,610,845 14,962,770 73,618,354 22,987,158 Rolling mill products 5,645,704 11,905,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,888,538 15,550,254 37,611,268 Petroleum, refined 690,233 830,025 2,366,681 10,566,692 25,180,476	24, 194, 084
Sugar and products 6,452,654 8,610,845 14,962,770 73,618,354 27,987,156 Rolling mill products 5,645,704 11,908,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,888,538 15,550,254 37,611,263 Petroleum, refined 690,283 830,025 2,326,681 10,566,692 25,180,476	
Rolling-mill products 5,645.704 11,905,937 15,692,051 39,985,746 61,894,002 Electrical apparatus 317,515 810,900 3,888,538 15,550,254 37,611,263 Petroleum, refined 690,283 830,025 2,326,681 10,586,692 25,180,476	
Electrical apparatus 317,515 810,900 3,688,538 15,550,254 37,611,268 Petroleum, refined 690,283 830,025 2,326,681 10,566,692 25,180,476	
Petroleum, refined	
	13,471,595
Cotton goods 3,792,584 6,399,705 17,928,093 51,435,017 28,316,037	13,756.029
Automobile parts 269,586	13,451,825
Books and printed matter 1,404,583 1,588,432 4,127,179 11,228,918 18,130,779	12,609,325
Woollen goods, including car-	,,
peta	11,848,325
Paner 1 208 683 1 378 749 4 567 810 9 949 574 14 764 904	8.825.141
Settlers' effects	8,262,445
Raw cotton 3,539,249 4,229,198 9,384,801 33,854,457 21,682,463	7,802,044
Flax, bemp and jute	7,671,578
Vegetable oil 612,671 826,882 1,862,265 15,973,417 12,244,151	7.644.017
Grain and grain products 3.034,049 8,298,884 7,806,665 9.086,073 25,082,671	7.585.738
Engines and boilers 188,759 778,364 2,019,558 12,997,757 15,146,437	7,210,249
Clay and products	7, 195, 457
Tea	7,125,314
Vegetables	6,746,722
Raw silk	6,499,154
Silk goods 2,654,505 3,880,535 5,590,829 31,341,944 19,606,589	6,404,808
Rubber and products 1,512,427 2,942,044 6,151,157 18,059,435 20,025,316	6,271,708
Leather	6,198,308
Wood, unmanufactured 1,444,727 3,775,240 8,324,585 14,112,391 15,348,150	5,755,866
Glass and glassware 1,268,314 1,658,694 2,932,104 6,926,459 10,453,706	5,744,616

CANADA'S LEADING IMPORTS, FISCAL YEARS, 1890, 1900, 1910, 1920, 1930 AND 1932—concluded.

(Commodities arranged in order of importance, 1982.)

Nood, manufactured							
Part	Commodity.	1890.	1900.	1910.	1920.	1930.	1932.
Part	<u> </u>						 .
1,732,215	i		\$ 1	\$	8	•	*
1,732,215	Furs	1.058,001	2,106,441	5,768,075	12,877,520	11.953.949	5,070,008
Attaninium	Wood, manufactured			3,085.079		12,707,244	4,817,836
Artificial silk goods Cobacco, raw. 1.344,985 1.508,359 1.508,359 1.709,711 1.773,943 1.804,775,241 1.773,9460 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,965 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.174,976 1.17	Automobiles	.=.					4,755,753
Cobacco, raw Stone and products. Sone and products. Sone and products. Sone and products. Sone and products. Sole and products. Sole and products. Sole and products. Sole and products. Sole and products. Sole and products. Sole and products. Sole and products. Sole and products. Sole and products. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and educational equipment. Sole and equipment. Sole and educational equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole and equipment. Sole		159	12,543	794,490			
Stone and products		1 344 985	1 508 350	3 220 230			
Defice green							
Dyeing and tanning materials. 14,444						5,924,685	3,674,413
rials	Nuts (edible)	231,449	400,441	1,237,292	5,889,573	5,095,109	3,646,143
Tertilizers	Dyeing and tanning mate-	454.54			BOO		0 445 040
Scientific and educational equipment. 200, 495 364, 198 1, 118, 437 3, 282, 803 4, 956, 519 3, 323, 85 3, 321, 82 3, 321, 82 3, 321, 82 3, 321, 82 3, 321, 82 3, 321, 83 3, 323, 82 3, 321, 83 3, 323, 82 3, 323, 82 3, 321, 83 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3, 323, 82 3,							
equipment 200, 485 364, 198 1, 118, 4377 3, 282, 803 4, 956, 519 3, 323, 82 3, 333, 345, 54 7 2, 611, 207 1, 4, 578, 106 30, 075, 483 3, 315, 54 52 2, 618, 867 2, 661, 606 2, 228, 215 1, 4, 578, 106 30, 075, 483 3, 315, 54 536, 606 2, 228, 215 4, 631, 015 7, 000, 457 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3, 291, 34 3,	Scientific and adventional	14,444	29.214	0,390,420	1,190,102	5,005,092	3,307,704
Farm implements		200,495	364, 198	1.118.437	3,282,803	4.956.519	3,323,829
Paints and varnishes	Farm implements			2,661,207			3,315,542
Drugs and medicines	Paints and varnishes	672,885					3,291,342
155.513	Brass and products	554,545					
Hides and skins, raw	Drugs and medicines						
Soda and sodium compounds 329,084 624,873 785,524 2,982,371 4,416,621 2,585,881 12,100 151,510 599,446 5,830,957 3,833,801 2,844,19 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940 7,940			4 914 019				
Noils and tops			694 873				
Noollen yarn							2,844,145
Hardware and cutlery	Woollen yarn	117,729		1,671,765	4,445,240	5,870,358	2,642,966
Totton yarn	Cellulose products						2,631,038
Raw wool 1,729,058 1,574,834 1,587,175 7,672,211 4,806,945 2,262,250 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,900 1,9							
Sulphur							
Refrigerators. 899,683 1,060,708 1,630,744 3,491,678 3,474,921 1,881,31							2.226.934
Fish. 899,683		11,210	215,100				2,156,831
Dastings and forgings 268, 463 538, 612 1,027,460 6,519,188 4,497,406 1,827,536 Clocks and watches 773,538 668,378 1,459,617 3,126,267 3,495,659 1,763,76 Animals, living 823,440 1,100,151 3,118,217 2,570,377 2,802,754 1,722,44 Iron ore. 551 282,191 3,845,550 4,601,716 5,020,921 1,698,97 Cocos and chocolate 118,559 286,363 1,130,335 7,626,745 3,651,425 1,697,31 Meats 1,632,143 1,371,184 2,427,901 22,100,333 7,598,473 1,698,77 Fubes and pipes (iron) 484,008 1,122,987 2,358,848 4,160,378 5,948,162 1,654,61 Gums and resins 159,508 287,276 2,256,307 4,987,716 3,431,591 1,601,63 Gums and products 484,189 1,271,270 3,488,260 8,568,035 14,389,391 1,601,63 Foys and dolls 172,782 199,305 497,210 1,534,722	Fish	899,683	1,060,708	1,630,744			1,981,313
Clocks and watches	Manila and sisal fibre						
Animals, living 823,440 1,160,151 3,118,217 2,570,377 2,802,754 1,722,48 (ron ore 551 282,191 3,346,550 4,601,716 5,020,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,698,97 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,921 1,998,19 (200,		268,463					
1.698.97 1.698.98 1.709.88 1.698.98 1.709.88 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98 1.698.98							
18,569 286,363 1,130,335 7,626,745 8,651,425 1,697,315	Iron ore					5.020.921	1.698.98
Meats 1,632,143 1,371,184 2,427,901 22,100,333 7,598,473 1,689,75 Fubes and pipes (iron.) 484,008 1,122,987 2,358,848 4,160,378 5,948,162 1,654,66 Seeds 478,397 1,916,994 1,167,321 4,210,782 5,061,255 1,634,11 Gums and resins 159,508 287,276 2,256,307 4,987,716 3,431,591 1,601,65 Copper and producte 484,189 1,271,270 3,488,290 8,68,055 14,398,632 1,580,91 Binder twine 5,159 866,892 1,772,885 3,490,524 1,845,305 1,521,77 Foys and dolls 172,782 199,305 497,210 1,534,722 2,691,408 1,494,82 Wire, iron 387,490 1,844,783 3,530,226 5,843,623 3,658,798 1,347,42 Nickel plated ware 13,573 18,843 578,591 1,630,047 3,022,935 1,322,010 2,488,649 1,078,44 172,200 2,488,074 975,2 2,488,074 975,2	Cocos and chocolate			1,130,335	7,626,745		1,697,351
Seeds 478, 397 1, 916, 994 1, 167, 321 4, 210, 782 5, 061, 255 1, 643, 11 Gums and resins 159, 508 287, 276 2, 256, 307 4, 987, 716 3, 431, 591 1, 601, 65 Copper and products 484, 189 1, 271, 270 3, 488, 260 8, 568, 035 14, 898, 632 1, 580, 97 Binder twine 5, 159 866, 892 1, 772, 885 3, 490, 524 1, 845, 305 1, 521, 77 Coys and dolls 172, 782 199, 305 497, 210 1, 534, 728 22, 698, 340 1, 268, 492 2, 687, 492 3, 420, 609 4, 216, 833 2, 908, 340 1, 396, 448 1, 300, 226 5, 302, 262 5, 303, 623 3, 685, 798 1, 347, 44 3, 573, 501 1, 630, 047 3, 022, 985 1, 132, 33 1, 242, 010 2, 485, 869 1, 091, 54 1, 324, 201 2, 485, 869 1, 091, 54 1, 324, 201 1, 242, 010 2, 485, 869 1, 091, 54 1, 092, 710 2, 488, 074 9, 75, 44 1, 324, 32 1, 324, 32 1, 324, 32 1, 324, 32 1, 324, 32 1, 324, 32 1, 324, 3	Meats	1,632,143	1,371,184	2,427,901		7,599,473	1,689,749
Gums and resins 159,508 287,276 2,256,307 4,987,716 3,431,591 1,601,650 1,271,270 3,488,260 8,568,035 14,898,632 1,580,99 1,772,885 3,490,524 1,845,305 1,521,77 1,702 and dolls 172,782 199,305 497,210 1,534,728 2,691,408 1,494,87 1,258,409 1,637,422 3,420,609 4,216,333 2,998,340 1,396,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,346,44 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,335 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,305 1,345,30	Tubes and pipes (iron)					5,948,162	
Copper and products. 484, 189 1, 271, 270 3, 488, 260 8, 568, 035 14, 898, 632 1, 580, 281 1, 772, 881 3, 490, 524 1, 845, 305 1, 521, 77 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79 1, 79	Seeds						
Binder twine 5, 159 866, 892 1, 772, 885 3, 490, 524 1, 845, 305 1, 521, 775 793 and dolls 172, 782 199, 305 497, 210 1, 534, 728 2, 691, 408 1, 494, 85 414, 834 3, 530, 226 5, 843, 623 3, 658, 798 1, 347, 490 1, 844, 788 3, 530, 226 5, 843, 623 3, 658, 798 1, 347, 447, 848 3, 530, 226 5, 843, 623 3, 658, 798 1, 347, 448, 137 578, 963 1, 337, 431 1, 432, 010 2, 485, 869 1, 091, 55 41 1, 630, 647 3, 622, 985 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 132, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 32, 37 41 1, 3						0,401,091 14 909 839	
Toys and dolls. 172, 782 199, 305 497, 210 1,534, 728 2,691, 408 1,494, 84 Wire, iron . 387, 490 1,844, 783 3,530, 226 5,843, 623 3,655, 798 1,347, 42 (wire, iron . 13,578 18,343 578,591 1,630, 047 3,022, 935 1,347, 42 (wire, iron . 14,127 578,963 1,337, 431 1,242, 010 2,483,869 1,001, 101, 101, 101, 101, 101, 101, 1				1 772 585		1.845.305	1,521,778
Hats and caps. 1,258,409 1,637,422 3,420,609 4,216,333 2,908,340 1,396,445 Wire, iron. 387,490 1,844,788 3,530,226 5,843,623 3,658,798 1,347,45 (wellery 444,137 578,963 1,337,431 1,242,010 2,485,869 1,031,55 (wellery 427,305 825,541 891,820 2,050,286 3,192,449 1,078,45 (Thin in blocks, etc. 266,463 580,855 1,005,467 2,662,728 2,488,074 975,27 (Artificial silk, yarns, etc. 140,232 449,341 811,669 1,884,082 1,316,418 889,35 (Diamonds, unset 110,480 451,792 1,992,710 4,470,846 3,138,871 711,00 Musical instruments. 434,814 390,407 1,207,592 4,329,093 3,130,873 670,978	Toys and dolls						1,494,839
Wire, iron. 387, 490 1,844,783 3,530,226 5,843,623 3,658,798 1,347,42 Nickel plated ware 13,578 18,843 578,591 1,630,047 3,022,935 1,132,33 Fewellery 444,137 578,903 1,337,431 1,242,010 2,485,869 1,091,59 Tools 427,305 825,541 891,820 2,060,286 8,192,449 1,078,45 Tin in blocks, etc. 26,463 580,855 1,006,467 2,662,728 2,488,074 975,2 Artificial silk, yarns, etc. - - 160,586² 1,436,738 1,678,450 927,73 Soap 140,232 449,341 311,669 1,884,082 1,316,418 889,34 Diamonds, unset 110,480 451,792 1,902,710 4,470,846 3,133,871 711,0 Musical instruments 434,814 390,407 1,207,592 4,329,093 3,130,873 670,97	Hats and caps			3,420,609			1,396,49
lewellery 444, 137 578, 903 1,337,431 1,242,010 2,485,869 1,091,57 Tools 427,305 825,541 891,820 2,050,286 8,192,449 1,078,47 Tin in blocks, etc. 266,463 580,855 1,006,467 2,662,728 2,488,074 975,27 Artificial silk, yarns, etc. - - 160,5862 1,436,738 1,678,450 927,77 Soap 140,232 449,341 311,669 1,834,082 1,316,418 889,374 Diamonds, unset 110,480 451,792 1,902,710 4,470,846 3,193,871 711,00 Musical instruments 434,814 390,407 1,207,592 4,329,093 3,130,873 670,97	Wire, iron	387,490					
Tools	Nickel plated ware						
Tin in blocks, etc. 266,463 580,855 1,005,467 2,662,728 2,488,074 975,27 4 745,662 3,662,728 1,465,738 1,678,450 927,77 5,604	Jewellery						1.078.492
Artificial silk, yarns, etc	Tip in blocks ate					2,488,074	975,274
Soap 140, 232 449, 341 811.668 1.684, 082 1.316,418 889, 37 Diamonds, unset 110.480 451.792 1.902,710 4.470,845 3,193,871 711.03 Musical instruments 434,814 390,407 1,207,592 4,329,093 3,130,873 670,97			-			1,678,450	927,743
Diamonds, unset 110,480 451,792 1,992,710 4,470,846 3,193,871 711,09 Musical instruments 434,814 390,407 1,207,582 4,329,093 3,130,873 670,9	Soap	140,232		811.669	1,584,082	1,316,418	889,342
00 004 44 484 000 000 00	Diamonds, unset				4,470.846		
Butter 62, ZIZ 290, Z20 92, 934 170, 394 14, 471, 086 200, 30							
	Butter	62,212	290,220	92,934	170,984	14,4(1,000	200,000

Canada's Principal Exports.—The statement which follows gives Canada's leading domestic exports for the fiscal years ended 1890, 1900, 1910, 1920, 1930 and 1932, arranged in descending order of importance in 1932. In the interpretation of these figures of exports over the 40-year period, the same qualifications should apply regarding price changes and business fluctuations as cited in the case of imports (p. 506).

Over the period of 42 years covered by the table, the changes in Canada's exports have been very great, both in volume and in the relative importance of commodities. The great agricultural expansion of the Canadian West had scarcely begun in 1890. The leading exports then were sawmill and timber products, cheese, fish, cattle, barley, coal and furs, indicating the large dependence of Canadian production at that time upon the eastern forests, mixed-farming areas, and fisheries. Of the five leading exports in 1932 four were very unimportant in 1890. The year 1910 is the first year in this table in which wheat appears as the leading export although this first occurred in 1906. The rise of the great pulp and paper industry to a leading position has been still more recent, and similarly with regard to the production of non-ferrous metals, automobiles and rubber tires. On the other hand, exports of the products of mixed-farming operations, such as cattle, meats, hides, cheese and butter, while showing wide fluctuations, have not expanded proportionately, and in some cases were little or no greater in 1932 than in 1890. Much of the new agricultural area developed since 1890 has been better adapted to grain growing than to mixed-farming operations, so that, with the growth of population, the production of the older mixed-farming districts is to a larger extent consumed within the country. The rising importance during the two past decades of the mining and metallurgical industries producing non-ferrous metals in Canada is illustrated in this table by the increased importance since 1910 of exports of gold, copper, nickel, zinc, silver, lead, aluminium and platinum. Gold refined in Canada and exported as bullion is not shown in the table.

CANADA'S LEADING DOMESTIC EXPORTS, FISCAL YEARS, 1890, 1900, 1910, 1920, 1930 AND 1932.

(Commoditie	s arranged	in order of	importance,	1932.}

						
Commodity.	1890.	1900.	1910.	1920.	1930.	1932.
	\$	*	\$		\$	*
Wheat	388,861	11,995,488	52,609,351	185.044.806	215,753,475	115,739,383
Newsprint paper	1	,000,120	2.512,243	53, 640, 122,		103.003.352
Wood pulp		1.816,016	5,204,597	41.383.482	44.704.958	27,684,782
Fish		10.564.688	15,179,015	40,687,172	34,767,739	23,594,230
Wheat flour	521.383	2,791,885	14,859,854	94,262,922	45,457,195	
Planks and boards	17,637,308	22,015,990	33.100.387	75,216,193	49,446,887	18,766,452
Gold, raw		14.148.543	6,016,126		34,375,003	13,671,565
Copper bars, etc	V-1,			541.338		13,057,733
Furs, raw		2,264,580	3,749,005			12, 110, 157
Nickel		1,040,498	3.320.054	9.039.221	25,034,975	12.109.400
Whiskey	25,383	396.671	1.010.657	1.504.132		11,622,256
Cheese		19,856,324	21,607,692	36,336,863	18,278,004	10.593.967
Barley		1,010,425	1,107,732		10.388.735	10,002,911
Pulpwood	80.005	902,772	6,076,628	8,454,803	13.860.209	8, 196, 144
Fruits (chiefly apples)	1.073.890	3,305,662	5,492,197			7,507,040
Copper ore and blister	133,251	1,387,388	6.023.925	11.871.039		6,346,192
Vegetables (chiefly pota-	1,	-,		,		.,,.,
toes)	597.074	503,993	1.534.228	11,656,483	11,240,747	5,554,068
Zinc	_	- 1	-	950,082	8,366,712	5,261,647
Silver	201,615	1,354,053	15,009,937	14.255,601	11,569,855	5.160.528
Rubber tires	-		-	7,395,172	18,153,225	5, 152, 61
Meats	895,757	13,615,621	8,013,680	96,161,234	15,030,671	4,960,816
Oats	256,156	2,143,179	1,566,612	9,349,455	4,055,855	4,662,333
Asbestos raw		490.909	1,886,613		12,074,065	4,628,117
Lead	2,000	688,691	529,422	1,193,144	10,637,887	4,441,562
Films	1 - 1	- 1	7,746	1,486,079	4,790,619	4,011,672
Settlers' effects	818,001	1,095,536	2,274,005	7,631,498		3,970,000
Machinery	143,815	446,391	924,510	6,416,591	7,154,706	3,675,623
Cattle	6,949,417	8,704,523	10,792,156	46.064.631	13,119,462	3,634,784
Automobiles			405,011	14,883,607	35,307,645	3,617,251
Rubber footwear		- 1	129,618		9,986,392	3,611,517
Stone and products		575,749	955,636			3,254,804
Aluminium in bars, etc	, i – l	- l	1,202,723	5,680,871	13,828,010	3,161,608

For footnote see end of table, p. 510.

CANADA'S LEADING DOMESTIC EXPORTS, FISCAL YEARS, 1890, 1900, 1910, 1920, 1930 AND 1932—concluded.

(Commodities arranged in order of importance, 1932.)

Commodity.	1890.	1900.	1910.	1920.	1930.	1932.
	\$	\$	*	\$	\$	
Soda and sodium compounds	~	-	-	1,491,0182	4,208,518	2,841,609
eather, unmanufactured	727,087	1,535,440	1,296,480	11,742,268	8,496,951	2,816,58
Electrical energy	-	-	- (4,590,818	4,028,154	2,710,416
Logs, wood	682,572	760,416	999,681	1,819,083	3,677.917	2,694,26
Datmeal and rolled oats	254,657	474,991	1,123,861	4,283,772	2,440,968	2,633,63
Pobacco, raw	234	3,681	76,564	130,264	1,504,264	2,536,99
Farm implements	367,198	1,692,155	4,319,385	11,614,400	18,396,688	2,484,96
Cereal foods	- 1	- 1	1,689,648	1,087,901	2,431,137	2,405,40
Shingles (wood)	340,872	1,131,506	2,331,443	10,848,602	6,704,494	2,398,48
Butter	340,131	5,122,156	222,927	9,844,359	543,851	2,362,88
Fimber, square	4,353,870	2,013,746	934,723	2,148,162	4,235,309	2,150,17
Acids	5.545	67	· -	901,397	5,098,529	2,112,96
Rve	220,761	279.286	84.658	3,475,834	1,451,640	2,025,19
Seeds (chiefly flax and clo-						
ver)	182,200	322,652	4,602,797	9,915,891	3.237.774	1,992,37
Milk, preserved	102,20		541,372	8.517.771	3.262.101	1,980,09
Fertilizera	4.291	51,410	371.815	6,694,037	7,990,313	1,946,18
Coal	2,447,986	4,599,602	5.013,221	13, 183, 666	3,998,692	1.872.20
ugar and products	18, 101	100.108	153,357	30,695,005	4,798,712	1,753,17
Paper board	20,104	200,200	300,000	4,568,066	2,506,496	1.751.70
Hides and skins, raw	506,402	1,396,907	5.508.185	19,762,646	7,730,914	1.745.33
Petroleum products	15,812	1,653	1,155	1,230,237	2.527.178	1.620.90
Binder twine	10,011	1,000	787, 251	5,530,908	1,502,421	1,499,36
Platinum concentrates, etc	_ !	120	61,717	39.058	357.748	1.370.63
Electric apparatus	<u> </u>	7.460	27,743	424,476	2.521.045	1,297,09
Bran, shorts and middlings	86,225	145,206	1.842,620	2.983.843	2.582.484	1,273,64
Poles telephone etc	92.326	48.872	56, 177	209,286	3.917.536	1,242,27
Poles, telephone, etc	150.380	10.939	11.328	1.320.773	64.736	1,211,44
l'ubes aud pipe (iron)	100,000	10, 555	11,900	2.325.369	2,202,769	1.112.07
Laths (wood)	392,500	749.301	1,882,950	3,668,511	8,095,417	1.095.66
	382,900	137,651	228, 183	6.595,688	4.727.137	1.085.73
Pigs, ingots, etc., (iron)		107,001	9,098	2,917,197	1,655,568	1,064,92
rrapping paper	- 1	- 1	8,080	1.644.157	2,332,962	889.76
Brass	08 017	325.161	100.085	7.730.826	1,743,096	851.74
lardware and cutlery	96,917	929,104	100,080	3.097.466	2,298,742	714.22
Automobile parts	1 000 254	1 414 100	1 905 940	4.087.670	2,007,944	523.10
Hay	1,068.554	1,414,109	1,805,849		1,681,814	381.81
Rolling-mill products	- [- [2 000	5,071,221	2.107.390	281.26
Aluminium manufactures	- 1	-	6,008	64,864		281,20 181.09
Milk and cream, fresh		ا ۾ ۾	0.455	1,699,090	5,879,174	
tle, beer and porter	10,347	6,272	2,687	145,077	1,995,990	24,12

¹ For 1891, the first year recorded. ² For 1922, the first year separately recorded. ² For 1927, the first year value was recorded. The amount generated for export in millions of kilowatt hours was 538 in the fiscal year 1911; 950 in 1920; and 1,497 in 1930. ⁴ For 1903, the first year separately recorded.

Subsection 7.—Trade in Raw and Manufactured Products.

Relation Between Trade in Raw and Manufactured Products.—The industrial development of a country is indicated by the character of the goods it imports and exports. In the early years of Canada's development the imports were made up chiefly of manufactured products and the exports of raw and semi-manufactured products. Since the opening of the twentieth century this has been almost reversed, a large percentage of the imports consisting of raw and semi-manufactured products for use in Canadian manufacturing industries, and the exports consisting to a considerable degree of products which have undergone some process of manufacture. In fact the leading manufactures of Canada are for the processing of those raw materials in the production of which Canada excels and many of these processed domestic products are dependent upon foreign markets for part of their output. Furthermore, as the population of the country grows,

the range of elaborated goods formerly imported which may be manufactured on a competitive basis of mass production within the country expands, so that there are now many industries in Canada serving the domestic and even foreign markets, using raw materials which must be imported such as rubber, cotton and sugar. Since the opening of the present century, Canada has passed through much the same stages of development in her economic life as did the United States during the last quarter of the nineteenth century, although the trend in Canada has been more pronounced in increasing the proportion of partly and fully manufactured goods as compared with raw materials exported, rather than in increasing the proportion of raw materials compared with that of partly and fully manufactured goods imported. Since 1929, the rapid decline in commodity prices, which has affected raw materials so much more than manufactured goods, has tended to increase the percentages of both imports and exports of manufactures.

STATEMENT SHOWING PROPORTIONS OF RAW MATERIALS AND PARTLY AND FULLY MANUFACTURED GOODS IMPORTED INTO AND EXPORTED FROM CANADA AND THE UNITED STATES, 1900, 1914 AND 1920-32.

	1	Raw M	aterial	в.	Pai	tly Ma Go	mulacti ods.	red	Fu	lly Mai Go	nufactu ods.	red
Fiscal Year.	Imports.		Emp	Exports.		orts.	Exports.		Imports.		Erports.	
	Can.	U.S.	Can.	U.S.	Can.	U.S.	Can.	U.S.	Сап.	U.S.	Сац.	U.S
	p.c.	p.c.	p.c.	p.c.	p.e.	p.a.	p.c.	p.c.	p.c.	p.e.	p.c.	p.¢.
900	24·9	44.0	41·5	40·2	10-6	15·8	7·7	11-2	64·5	40·2	40·8	48-
914	21·8	46.5	63·2	39·9	9-3	16·9	10-1	16-1	68·8	36·6	26·7	44-
920	27·5	52.8	35·7	32·6	13-2	15·3	15·1	12-5	59·3	31·9	49·2	51-
921	24·9	41·1	44·2	35-5	11·7	14-8	16-6	10·3	63-5	44-1	39-2	54 ·
922	28·9	46·4	44·5	39-1	9·6	15-6	14-5	11·1	61-5	38-0	41-0	
923 924 925	28-4 28-4 27-7	48.3 44.6 49.8	44.7 43.4 44.7	36·3 35·7 39·4	9·7 11·2 10·8	18.8 18.5 18.4	16·2 16·8 15·1	12·5 14·1 13·5	61 · 9 60 · 4 61 · 5	32·9 36·9 31·8	39·1 39·8 40·2	51 · 50 ·
926	27·6	54·5	47·1	33·4	10·0	17·8	14·4	13·6	62·4	27·7	38·5	53·
927	25·6	51·1	46·2	35·0	10·1	17·8	14·6	14·1	64·3	31·1	39·2	50·
)28)	25·6	50·3	47·2	32·3	9·6	18·0	15·4	14.9	64·8	31.7	37·4	52
)29	23·0	47·9	48·5	29·6	8·0	19·8	14·3	13.8	69·0	32.3	37·2	56
)30	23·1	46·5	38·3	27·0	7·7	20·4	19·1	13.8	89·2	33.1	42·6	59
931	23-9	45·8	38·2	29·1	7·6	18·7	17·8	13.3	68-5	35·5	44-0	57 -
932	25-2	44·3	38·3	34·6	8·4	17·0	16·0		66-4	38·7	45-7	52 -

The table on p. 512 shows how Canada's imports and exports, analysed into the three categories of raw materials, partly manufactured goods, and fully or chiefly manufactured goods, are distributed among the continents and leading countries of the world as well as the United Kingdom, other British Empire countries, the United States and other foreign countries. This latter analysis clearly demonstrates that the imports into Canada from the British Empire except the United Kingdom, consist chiefly of raw and semi-manufactured products, while the exports are made up mainly of fully manufactured products.

In trade with industrialized continents such as Europe and Asia, Canadian imports are largely manufactured goods and exports raw materials or partly manufactured goods, while in trade with South America, Oceania, Africa and North America (if the United States be excluded) the situation is the reverse.

See also Table 15 of this chapter on this subject.

CANADA'S IMPORTS AND EXPORTS, BY CONTINENTS AND LEADING COUNTRIES, ACCORDING TO DEGREE OF MANUFACTURE, YEAR ENDED MAR. 31, 1982.

Nors.—Values in millions of dollars. Totals for continents include trade with countries other than those specified.

		=	Imp	orts.				Ехр	orts (I	Domest	ic).	
Continent and Country.		w rials.	Par Man tur		Man	liy ulac- ed.	Ra Mate		Man	rtly ufac- ed.	Fu Man tur	ulae-
	Value.	Per cent of Total.	Value.	Per cent of Total.	Value.	Per cent of Total.	Value.	Per cent of Total.	Value.	Per cent of Total.	Value.	Per cent of Total.
EUROPE.	\$	p.c.		p.c.	\$	p.c.	\$	p.c.	\$	p.c.	*	p.e,
Belgium Czechoslovakia Denmark France Germany Italy Netherlands	0.2 0.1 0.4 0.6 0.5	4.5 2.7 41.6 2.8 5.5 13.0	0-2: - 0-4 0-5 0-2 0-1	4·7 1·1 10·4 3·1 4·3 5·1 1·6	4.8 2.7 12.8 10.5 3.4 4.7	90-8 96-2 48-0 94-1 90-2 81-9 81-3	2·1 14·2 7·0 2·8	66 3	1·3 - 1·5 1·8 0·5 1·3	9·1 2·0 0·9 8·5 16·9 10·7 9·5	1·1 0·2 1·7 2·2 1·7 1·0 2·1	8·1 94·7 44·1 12·3 15·9 23·0
Norway Sweden Switzerland United Kingdom	0·1 8·4	0.5 5.1 2.9 7.8	0·1 4·2 6·0	1.1 11.7 3.9	0.5 0.7 3.6 93.8 	98.4 83.2 97.1 88.3	2·3 1·5	74.8 68.4 61.3 4.7 55.8	0·1 0·2 16·7	1.6 8.2 4.4 9.6	1.0 0.7 0.8 60.2	30.5 90.9 34.6
Totale, Europe N. America.			6.0	9.0	109.4		132.1	-00.3	23.0	9.4	-(3·5	-00.1
British West Indies Newfoundland St. Pierro-Miquelon United States	8.0 0.8 108.3		7·0 - 19·9	59·7 0·8 5·7	1.7 0.7 0.1 223.5	14.6 48.3 97.2 63.5	1·6 0·2	4·4 24·8 1·8 22·6	0·3 0·1 54·2	4·1 1·0 0·3 23·1	7·6 4·9 8·5 127·9	91·5 74·2 97·9 54·3
Totals, N. America.	114-0	80.9	27.6	7.5	227-7	61-6	56.7	21.2	54.9	20-6	155 - 3	58-2
S. AMERICA. Argentina British Guiana Colombia Peru	1·9 5·1 3·5	73-3 0-2 100-0 100-0	4·3 -	94.7	0·7 0·2 -	26-7 5-1 -			0·2 _ _ 0·1	5·2 4·7 1·0 12·8	0·6 0·8	93·5 82·0 47·9 50·6
Totals, S. America	11.8	68-5	4.4	25 · 5	1.0	6.0	0.7	8-4	0.7	7.9	7-4	83.7
Asia. British India China Japan	0+4 0+8 1+8	22.8	1.5 0.1	0·7 40·2 1·5	4.7 1.4 4.1	92·0 37·0 68·8	∥ 1⋅7	0·1 28·4 34·4	1·8 2·7 7·1	58-1 46-2 43-0		41·8 25·4 22·6
Totals, Asia	3-9	21.2	1.8	9.8	12.8	89-0	7.5	26.5	11-8	41.7	9.0	31.8
OCEANIA. Australia	0·6		1-9 2-6 0-5	32·5 99·7 44·6	3.3	57-6 0-3 4-4	-	1.8	1·0 0·1	18·3 30·6 2·2	0.1	78 · 2 67 · 6 92 · 9
Totale, Oceania	1.2	12-1	5.0	52-1	3.4	35.8	0.4	3.9	1.1	10.9	8.7	85.2
AFRICA. British East Africa British South Africa	0·2 1·9		1·2 2·4	85·4 55·2	0·1	1.6	_ 2·7	0·4 32·1	0.2	0·5 1·9	0·4 5·5	99·1 66·0
Totals, Africa	2.8	43.0		55.0	0.1	2.0		27-3	0-3			70 · 2
Grand Totals	145 - 6		 -	8.4	384 - 5		<u> </u>	38.3		16.0	<u> </u>	45.7
United Kingdom Other Br. Empire	8·4 8·3	7.8 20.0	4·2 20·1	3.9 48.6	93·8				16.7 3.9			
Totals, Br. Empire	16.7	11.3	24-3	16.4	106-8	72.3	103-8	47-4	20.6	9.4	94-6	43.2
United States Other foreign countries	108·3 20·6				223·5 54·2		53·1 63·6	22 6 52 0				
Totals, Foreign Countries	128-9	29.9	24 · 1	5.6	277-7	64.5	116-7	32.6	71-8	20 · 1	168-9	47-3

Subsection 8.—Canada's Position in International Trade in the Calendar Years 1913 and 1932.

Canada, during the calendar year 1932, even with a material decrease in her trade, has maintained a relatively high place among the trading nations of the world. In 1930 the Dominion stood in fifth position in total trade and total imports, but in sixth position in total exports. In the calendar year 1931, due to unstable trade conditions, there were some notable changes in the relative positions of certain leading trading nations in world trade. The United Kingdom, Canada and British India, the three greatest trading nations of the British Empire, all moved downwards in their relative positions with respect to values of total exports in 1931. Germany in 1931 displaced the United Kingdom from second place in the value of exports, while Belgium and Argentina moved up to fifth and sixth positions, respectively, displacing British India and Canada. In 1932 Canada, in export trade, once more moved into fifth position, displacing Belgium and Argentina, but occupying, as last year, eighth place in total imports, and seventh place in total trade; the Netherlands, Belgium and Italy occupied fifth, sixth and seventh positions in total imports, while Belgium and the Netherlands occupied fifth and sixth positions in total trade.

COMPARISON OF THE TRADE OF THE PRINCIPAL COUNTRIES OF THE WORLD, CALENDAR YEAR 1932.

Country.	Tota	l Trade.	In	aporta.	Domestic Exports.		
Country.	Rank.	Amount.	Rank.	Amount.	Rank.	Amount.	
United Kingdom United States Germany France Belgium Netherlands Canada Italy Japan British India Argentina	2 (2) 3 (4) 5 (6) 7 (9) 8 (9)	Mill: ~n \$ 4, 250-9 3, 293-3 2, 476-5 979-0 978-5 946-5 872-5 869-6 672-3	4865873 4865873 4865873	Million \$ 2,797.9 1,502.4 1,110.6 512.2 592.2 452.6 478.3 439.1 400.2 296.1	1 (12) 3 (4) 4 (5) 10 (7) 5 (11) 7 (8)	Million \$ 1,453-0 1,790-9 1,365-9 771-6 466-8 336-3 493-3 490-3 490-3 490-3 490-3 490-8 430-3 400-4	

Note.—The figures in parentheses represent relative positions in 1931.

Canada's Share in World Trade.—Two tables on pp. 70 and 71 of the Condensed Preliminary Report on the Trade of Canada, 1932, published by the Dominion Bureau of Statistics, and not reproduced here to economize space, show in values and percentages Canada's share in the imports and in the exports of the forty principal trading countries of the world for the calendar years 1913, 1922 and 1930.

Since 1913 Canada has made remarkable progress in the expansion of her export trade to the world's markets, and in supplying her requirements from all parts of the world. The first of the above-mentioned tables showing "Canada's Share in Imports of Principal Countries", indicates that while in 1913 Canada provided only 1.95 p.c. of the total imports of these countries, in 1930 her share was 3.50 p.c.

With regard to Empire countries, imports from Canada by the British West Indies expanded from 9·7 p.c. in 1913 to 17·8 p.c. of their total imports in 1930; by British Guiana from 9·3 p.c. to 15·8 p.c.; by Australia from 1·2 p.c. to 2·3 p.c.; by New Zealand from 2·1 p.c. to 8·9 p.c.; by British South Africa from 2·0 p.c. to 3·2 p.c.; by Newfoundland from 32 p.c. to 41 p.c.; while the percentage for the United Kingdom remained stationary at 3·6 in 1930 and 3·8 in 1913. Among the principal foreign countries, imports from Canada by the United States increased from 7·9 p.c. of its total imports in 1913 to 13·1 p.c. in 1930; by Germany from 0·6 p.c. to 1·3 p.c.; by Italy from 0·4 p.c. to 3·4 p.c.; and by France from 0·2 p.c. to 0·9 p.c.

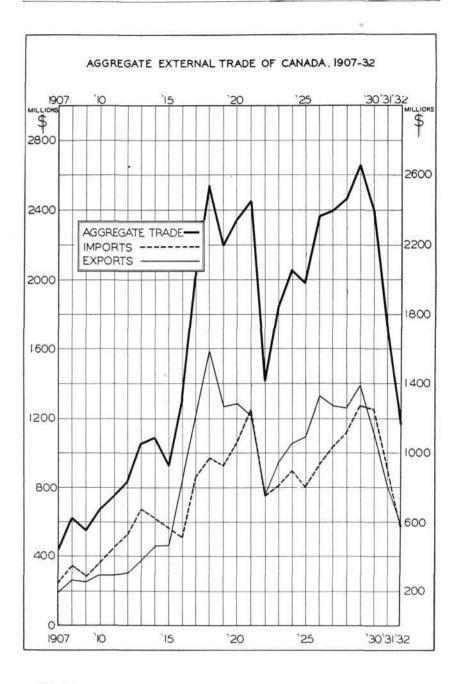
In the interpretation of these and all tables showing trade between Canada and other specified countries, it should be borne in mind that there are numerous and, in some instances, quite large discrepancies between the figures of trade with a specified country as shown by Canada and as shown by that country. These arise in all countries, chiefly through inability to trace the actual origin of imports and final destination of exports. A large proportion of Canada's overseas exports passes through the United States and is therefore credited to that country rather than Canada by the importing countries. If the Canadian figures of declared exports be substituted, the total imports from Canada of these 40 principal countries in 1930 would be \$853,350,000, or 3.63 p.c. of the total imports of these countries in 1930.

The other side of this trade expansion is shown in the other table, "Canada's Share in Domestic Exports of Principal Countries", which indicates the increasing proportion of the exports of 40 countries taken by Canada. The exports of these countries to Canada increased from $3\cdot39$ p.c. of their total exports in 1913 to $4\cdot35$ p.c. in 1930.

Among countries of the Empire, Canada's purchases from the British West Indies increased from 11·8 p.c. of their total exports in 1913 to 22·3 p.c. in 1930; from New Zealand from 2·7 p.c. to 5·7 p.c.; from Fiji from 4·7 p.c. to 28·0 p.c.; from Australia from 0·2 p.c. to 1·1 p.c.; and from the United Kingdom from 4·5 p.c. to 5·1 p.c. Among the principal foreign countries, exports to Canada by the United States increased from 15·9 p.c. of its total exports in 1913 to 16·6 p.c. in 1930; by France from 0·4 p.c. to 1·1 p.c.; by Belgium from 0·5 p.c. to 1·0 p.c.; by the Netherlands from 0·1 p.c. to 0·9 p.c.; and by Japan from 0·8 p.c. to 1·3 p.c.

Subsection 9.—Main Historical Tables and Tables showing Current Trends in External Trade.

In this subsection are assembled in summary form the main tables of Canadian trade since Confederation, while the figures of trade in the latest years are given in greater detail by countries and commodities. Tables 1 to 9 inclusive are of an historical character, white Tables 10 and 11 give in summary form, and Tables 12 and 13 in detail, our exports and imports for the four latest fiscal years. In Table 14 imports are divided into dutiable and free, and exports into Canadian and foreign produce. Table 15 analyses our trade in the latest year by main groups of origin and degrees of manufacture. Table 16 classifies that trade according to purpose. Table 17 gives trade by provinces and customs ports, and Table 18 by tariffs. Tables 19 and 20 deal with our imports and exports by countries in the latest five years, while Table 21 shows the values of our imports and exports transported via the United States.



1.—Aggregate External Trade of Canada, fiscal years 1868-1933.

Dutiable								
Dutiable		Imports of for B	MERCHANDIS	B ENTERED PTION.	Export	гв от Мвисна	NDISE.I	Imports for Home Consumption
1869. 43, 585, 696. 23, 524, 468. 67, 500, 159. 48, 504, 899. 4, 196, 621, 52, 701, 720, 119, 791, 871, 871, 872, 873, 874, 874, 874, 874, 874, 874, 874, 874	1 ear.	Dutiable.	Free.	Total.			Total.	(Merchan-
1869. 41.069, 342; 22.065,599 63,184,941 52,400,772 3,855,501 56,256,573 19,411,517 1870. 45,127,422; 21,774,652 69,902,747; 89,9043,590 6,527,622 81,247,228 1871. 60,094,362 24,120,226 84,214,388 57,630,1024 9,883,244 67,483,268 151,697,658 1872. 68,276,157 33,85,13 66,942,377 13,156,943,157 1874. 77,322,536 36,679,210 11,164,858 57,630,1024 9,883,244 67,483,268 151,697,658 1877. 77,322,536 36,942,377 123,150,1867 77,71,970 10,614,606 57,365,603 210,550,948 1875. 78,138,511 32,370 14,141,518 12,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,518 14,141,5		\$			\$ 200		\$ 500	3 8 9 9 9
1871. 0. 04.5.02. 21.774. 652. 65. 91.277. 59. 143. 39. 6. 5.274. 222. 65. 571. 223. 151. 697. 65. 1872. 68. 276. 151. 38. 679. 121. 194. 55. 68. 65. 581. 0. 06. 1276. 151. 38. 679. 121. 194. 55. 68. 65. 581. 0. 06. 1276. 151. 38. 679. 121. 194. 55. 68. 65. 581. 0. 06. 1276. 151. 38. 679. 121. 194. 55. 68. 65. 581. 0. 06. 1276. 151. 38. 679. 121. 194. 55. 68. 679. 38. 28. 29. 1877. 57. 128. 511. 39. 270. 057. 171. 406. 55. 86. 65. 581. 0. 06. 14. 066. 57. 78. 36. 06. 31. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251. 194. 251.	1868	43.655,696	23,434,468			4,196,821 3,855,801	52,701,720 56,258,573	119,791,879
1874	1870	45,127,422	21,774,652	66,902,074	59.043.590	6,527,622	65,571,212	132,473,286
1874. 71, 198, 176	1871	60,094,362	24,120,026	84,214,388	57,630,024	9,853,244	67,483,268	151,697,656
1874.	1872		58,079,210 58,310,9531	104,955,857 124,509,129	76 538,025	9,405,910	78,029,700 85,943,935	210,453,064
1876. 60, 238, 297, 32, 274, 810, 92, 531, 310, 72, 491, 437, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 467, 72, 349, 479, 72, 349, 479, 72, 349, 479, 72, 349, 479, 349, 349, 349, 349, 349, 349, 349, 34		76,232,530	46,948,357	123,180,887	78,741,997	10,614,096	87,356,093	210,536,980
1877. 66.916,770 33.2,09,624 94.126,394 68,800.546 77.111,1087 7.7111,1087 75.141,654 169,280,04 1878. 55.7436,306 62.21,275.683 77.072.519 62.431,025 68,255.644 70,786.666 149,555.182,967 15.717,575 69,900.542 72.899,607 13.240,068 86,139,702 156,040,238,349 15.883,389 85,757.433 25.887,731 121.861,496 87.702.431 94.187.657 7.628,458 101,766.610 121,219,11,3883 91,583,339 30.273,157 121.861,496 87.702.431 94.187.657 7.628,458 101,766.610 121,219,11,3883 91,583,339 30.273,157 121.861,496 87.702.431 94.187.657 7.628,458 101,766.610 121,219,11,3883 91,583,339 30.273,157 121.861,496 87.702.431 94.187.657 7.628,458 101,766.610 121,219,11,3883 91,583,339 30.273,157 121.861,496 87.702.431 94.785,400.618 25.383,318 95.592,377 77.756.79 1131,735 8.079.646 87.211,381 186,283,283,283,283,283,283,283,283,283,283			39,270,057					194,255,710
1879. 55, 426, 836 23, 275, 838 78, 702, 519 62, 481, 028 1, 324, 006 86, 129, 370, 318, 321, 324, 006 86, 129, 370, 321, 324, 321, 324, 324, 324, 324, 324, 324, 324, 324		60,238,297	32,274,810	92,513,107	72,491,437	7,234,961		
1879. 55. 426, 836 23, 275, 683 78, 702, 519 62, 431, 025 8, 355, 644 70, 786, 669 149, 489, 18 1880. 54, 132, 967 15, 717, 757 69, 900, 542 22, 319, 609 13, 240, 609 68, 139, 70, 786, 669 149, 489, 18 1881. 71, 620, 725 18, 867, 604 90, 488, 329 8, 344, 701 33, 375, 117 77, 319, 818 185, 517, 433 25, 387, 371 121, 861, 148 94, 137, 657 7, 628, 845 101, 766, 100 212, 911, 238, 338, 389, 273, 157 121, 861, 496 77, 702, 481 97, 761, 763, 869, 104, 869, 105, 872, 204 1885. 73, 209, 618 22, 222, 204 18, 867, 768, 881, 885, 778, 209, 618 22, 222, 404 18, 967, 158, 886, 76, 658, 819 25, 832, 818 95, 992, 137, 77, 756, 709, 74, 438, 618, 764, 764, 764, 764, 764, 764, 764, 764	1878	59,773,039		90.395.851	67,989,800	11,164,878	79, 154, 678	169,550,529
1881. 71, 629, 725 18, 627, 649 90, 488, 329 83, 944, 701 13, 375, 177, 177, 178, 188, 187, 508, 188, 188, 178, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 118, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188, 188,	1879	55.426,836	23,275,683	78,702,519	62,431,025	8,355,644	70,786,669	149,489,188
1882. 98.75, 483 25.887, 751 111, 148, 184 94, 137, 657 7, 628, 463 101, 766, 110 212, 911, 283, 283, 91, 538, 339 30, 273, 157 121, 861, 496 87, 702, 431 97, 173 97, 173 97, 174, 244, 249, 219, 315, 708, 218, 218, 218, 218, 218, 218, 218, 21	1880							
1884. 80 .010.498 25 .962.490 105, 972.797 79, 833.008 .989.106 89, 299.106 89, 219, 315, 195, 1886. 77, 3299.618 39, 25, 323, 318 38, 95, 95, 755, 778 79, 131, 735 8, 079, 646 87, 211, 331 186, 967, 1588. 77, 8120, 670 24, 686, 531 105, 107, 210 30, 660, 900 85, 549, 330 89, 516, 242 194, 617, 478 181, 186, 927, 1888. 69, 445, 524 31, 102, 594, 100, 871, 282 81, 382, 072 84, 33, 399, 516, 242 194, 617, 478 1881, 629, 645, 524 31, 102, 594, 100, 871, 282 81, 382, 072 84, 33, 399, 516, 242 194, 617, 483 181, 186, 927, 1889. 77, 106, 285 34, 576, 287 111, 682, 573 85, 257, 586 6, 933, 457 87, 210, 111 198, 309, 104, 1890. 77, 106, 285 43, 476, 287 111, 682, 573 85, 257, 586 6, 933, 457 87, 210, 111 198, 309, 104, 1890. 77, 106, 285 43, 476, 287 111, 682, 573 85, 257, 586 6, 933, 457 87, 210, 111 198, 309, 104, 1890. 77, 106, 285 43, 476, 287 111, 682, 573 85, 257, 586 6, 933, 457 87, 210, 111 198, 309, 104, 1890. 78, 1894. 62, 779, 182 46, 291, 728, 115, 179, 830, 105, 488, 788, 811, 788 87, 818, 814, 814, 824, 824, 824, 824, 824, 824, 824, 82	1881	71,620,725	18,867,604	90,488,329	83,944,701			187,808,147
1884. 80,010,488 25,962,480 169,972,978 79,832,098 9,389,166 89,222,204 195,195,186 1885. 773,269,618 26,486,187 99,755,775 79,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755 879,1817,755	1883			121.861.496		9.751.778	97,454,204	
1886 70. 688, 819 25. 333, 318 85. 992, 137 77. 756, 704 7. 433, 679 85. 194, 783 181. 186, 292 1889 74. 757, 139 34, 623, 657 100, 671, 622 81, 382, 672 8. 803, 334 90, 185, 142, 194, 617, 45 1890 77. 106, 226 34, 576, 287 111, 682, 573 88, 671, 738 8. 633, 345 90, 185, 146, 61 90, 887, 104 1891 74, 384, 606 36, 987, 918 111, 682, 573 88, 671, 738 8. 738, 631 97, 470, 982 209, 991, 944 1892 69, 160, 737, 571 45, 999, 676 115, 179, 830 105, 488, 798 8. 871, 738 8. 738, 631 97, 470, 386 200, 901, 931 1894 62, 779, 182 46, 291, 785 421, 18, 236 100, 675, 891 102, 828, 441 64, 485, 943 109, 331, 144 200, 683, 686 1896 72, 29, 756 40, 397, 662 106, 677, 897 102, 828, 441 162, 397, 182 66, 220, 765 40, 397, 662 106, 677, 897 102, 828, 441 162, 397, 182 66, 220, 765 40, 397, 662 106, 677, 897 107, 7805 66, 606, 738<	I884	80.010,498	25,962,480	105,972,978	79,833.098	9.389,106	89,222,204	195,195,182
1887. 78, 120, 679 26, 986, 531 105, 107, 210 80, 960, 909 8, 544, 533 89, 510, 82, 421 194, 617, 436, 888 69, 645, 824 31, 925, 980 100, 671, 625 81, 832, 972 8, 803, 334 89, 510, 827, 1989. 77, 106, 286 34, 576, 287 111, 625, 573 55, 575, 586 69, 933, 455 87, 210, 111 198, 309, 101, 1891. 74, 536, 086 34, 576, 287 111, 625, 573 55, 575, 586 69, 933, 455 87, 210, 111 198, 309, 101, 1891. 74, 536, 086 34, 576, 287 111, 625, 573 55, 575, 586 69, 933, 455 87, 210, 111 198, 309, 101, 1892. 69, 150, 737 45, 999, 676 115, 160, 413 99, 082, 466 18, 121, 791 112, 154, 225, 227, 314, 577, 1894. 62, 779, 182 46, 291, 729 109, 070, 911 103, 851, 764 11, 833, 806 115, 685, 569, 224, 758, 819 1895. 85, 557, 655 42, 118, 280 100, 675, 891 102, 523, 441 64, 465, 642 114, 430, 654 229, 901, 48, 1898. 74, 625, 688 51, 682, 674 126, 307, 162 144, 546, 662 14, 980, 883 433, 172 59, 989, 244 126, 307, 162 144, 546, 662 14, 980, 883 144, 477, 782 41, 075, 584 1990. 89, 433, 172 59, 989, 244 126, 307, 162 144, 546, 662 14, 980, 883 144, 477, 782 41, 075, 584 1990. 105, 999, 756 71, 961, 163 177, 930, 919 177, 431, 386 170, 677, 775, 194, 500, 194, 346, 785 68, 304, 881 172, 651, 676 188, 972, 301 142, 253, 254 183, 237, 555 355, 889, 23 1991. 105, 999, 756 71, 961, 163 177, 930, 919 177, 431, 386 170, 677, 775, 194, 500, 194, 194, 194, 194, 194, 194, 194, 194								
1888 69, 645, 524 31, 025, 804 100, 671, 625 81, 382, 972 8, 803, 394 90, 185, 466 190, 887, 190 1890 77, 106, 286 34, 523, 625 711, 116, 625, 573 85, 257, 586 9, 631, 782 87, 210, 811 198, 309, 108 1891 74, 583, 636 69, 707, 777 45, 999, 676 115, 100, 413 99, 632, 466 112, 179 112, 154, 257 226, 901, 90, 932 1892 69, 150, 737 45, 999, 676 115, 179, 830 105, 488, 798 8, 911, 835 112, 112, 154, 257 226, 901, 488 1894 62, 779, 182 46, 291, 729 109, 677, 911 103, 881, 764 113, 33, 806 112, 184, 257 223, 141, 779 1896 67, 239, 759 46, 291, 789 38, 121, 402 105, 678, 891 102, 828, 441 64, 485, 693 193, 313, 484 209, 889, 247 1896 67, 239, 759 40, 347, 792 38, 121, 402 105, 677, 895 102, 828, 441 103, 833, 164 113, 333, 61 113, 414, 432, 634 214, 975, 528 1898 74, 625, 688 1682, 677 126, 617, 827	1886			95.992,137 105.107.210	77,756,7040		85,194,783 89,516,249	
1890	1888		31.025.804	100,671,628	81.382.072	8.803.394	90,185,466	190.857.094
1891	1889	74,475,139	34,623,057	109.098,196	80,272,456	6,938,455	87,210,911	198,309,107
1892 69, 160, 737 45, 999, 676 115, 160, 413 99, 032, 466 13, 121, 791 112, 154, 257 227, 314, 654 227, 610, 614 384 62, 779, 182 46, 291, 729 109, 070, 911 103, 851, 764 11, 833, 805 115, 685, 569 224, 758, 48 3891, 838, 312, 402 100, 675, 891 102, 828, 441 6, 485, 043 109, 379, 682 100, 675, 891 102, 828, 441 6, 485, 043 108, 311, 348 229, 676, 68 224, 758, 48 294, 989, 379 38, 121, 402 105, 361, 161 109, 707, 905 6, 666, 738 116, 314, 547, 703 221, 675, 703 241, 075, 83 1896, 67, 239, 789 38, 121, 402 105, 361, 161 109, 707, 905 6, 666, 738 116, 314, 457, 703 241, 075, 83 1896, 848, 172, 789 38, 481, 712, 699, 839 241, 401, 401, 401 144, 265, 469 144, 265, 469 144, 265, 469 168, 972, 301 142, 265, 269, 889 154, 285, 808, 80 389, 381, 832, 372 389, 389, 839, 744 285, 694, 809 179, 677, 757 194, 500, 889, 379 100, 103, 899, 766 71, 961, 163 177, 7930, 919 177, 431, 386 17, 077, 757 194, 500, 899, 379 243, 809, 445 189, 9								
1893	1891		36,997,918		88,671,738 90,092,466	8.798,631 12 121 701	97,470,369 112,154,257	209,004,323
1894 62,779,182 46,291,729 109,070,911 103,851,764 11,833,805 115,685,569 224,758,484 209,989,377 1896 67,239,759 33,121,402 105,361,161 109,707,805 6,606,738 116,314,543 221,675,70 1897 66,220,765 40,397,062 106,617,827 123,632,540 10,825,163 134,457,703 221,675,70 1898 74,625,088 51,686,074 126,307,162 144,548,662 14,980,838 159,529,545 258,386,70 1899 88,443,172 59,989,244 149,422,416 137,360,792 14,252,354 14,925,354 159,529,545 258,386,70 1900 104,346,795 68,304,881 172,651,676 168,972,301 14,265,254 183,237,555 355,889,23 1901 105,989,756 71,961,163 177,930,919 177,431,386 17,077,757 194,509,143 372,440,08 1903 136,796,085 88,288,744 225,044,809 144,406,743 10,823,685 10,823,874 10,823,886 10,824,886 10,936 10,824,886 10,936 10,824,886 10,936 10,824,886 10,936 10,824,886 10,936 10,824,886 10,936 10,824,886 10,936 10,824,886 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,936 10,93	1892	69.873.571	45.297.259	115, 170, 830	105,488,798			229,601,484
1895	1894	62,779,182	46,291,729	109,070.911	103,851,764	11,833,805	115,685,569	224,758,480
1897		58 ,557,655	42,118,236		102,828,441			
1899			40 307 062	105,361,161	109,707,805 123,832,540	6,606,738 10,825,163	116,314.043	
1901 105, 989, 756 71, 961, 163 177, 930, 919 177, 431, 386 178, 707, 757 194, 509, 142 372, 440, 688, 1903 136, 796, 665 88, 298, 744 225, 094, 809 214, 401, 674 10, 828, 808 284, 809, 576 94, 999, 839 243, 909, 415 198, 414, 439 126, 412, 292, 761 450, 324, 677, 1905 150, 928, 737 101, 035, 427 251, 964, 214 190, 854, 946 10, 617, 115 201, 472, 061 453, 436, 271, 907 152, 065, 529 98, 160, 306 250, 225, 885 180, 545, 306 11, 173, 846 246, 667, 802 530, 398, 983 1908 218, 160, 047 134, 390, 382 352, 540, 879 246, 960, 968 18, 407, 994 263, 388, 952 615, 909, 83 1909 175, 014, 160 113, 890, 036 288, 594, 196 242, 803, 584 178, 178, 178, 178, 188, 189 279, 247, 551 19, 516, 442 298, 763, 993 669, 082, 193 1911 282, 723, 812 170, 000, 791 452, 724, 603 279, 247, 551 19, 516, 442 298, 763, 993 669, 082, 193 1912 335, 304, 060 187, 100, 615 529, 623, 857 749, 229, 236, 658, 164, 425, 594 1914 410, 238, 744 208, 935, 254 619, 193, 998 419, 158, 483 450, 494, 658 393, 217, 047 919, 711, 705 221, 241, 190, 566 363, 532, 573 18, 158, 489 279, 323, 673, 573, 244, 250 1918 542, 341, 522 421, 190, 566 363, 532, 573 1, 540, 207, 788 442, 606, 858 249, 658 393, 217, 047 919, 711, 705 216, 443, 306 27, 283, 304, 306, 304, 304, 304, 304, 304, 304, 304, 304	1898	74,625,088	51,682,074	126,307,162	144,548,662	14.980.883	159.529.545	285,836,707
1901 105, 989, 756 71, 961, 163 177, 930, 919 177, 431, 386 178, 707, 757 194, 509, 142 372, 440, 688, 1903 136, 796, 665 88, 298, 744 225, 094, 809 214, 401, 674 10, 828, 808 284, 809, 576 94, 999, 839 243, 909, 415 198, 414, 439 126, 412, 292, 761 450, 324, 677, 1905 150, 928, 737 101, 035, 427 251, 964, 214 190, 854, 946 10, 617, 115 201, 472, 061 453, 436, 271, 907 152, 065, 529 98, 160, 306 250, 225, 885 180, 545, 306 11, 173, 846 246, 667, 802 530, 398, 983 1908 218, 160, 047 134, 390, 382 352, 540, 879 246, 960, 968 18, 407, 994 263, 388, 952 615, 909, 83 1909 175, 014, 160 113, 890, 036 288, 594, 196 242, 803, 584 178, 178, 178, 178, 188, 189 279, 247, 551 19, 516, 442 298, 763, 993 669, 082, 193 1911 282, 723, 812 170, 000, 791 452, 724, 603 279, 247, 551 19, 516, 442 298, 763, 993 669, 082, 193 1912 335, 304, 060 187, 100, 615 529, 623, 857 749, 229, 236, 658, 164, 425, 594 1914 410, 238, 744 208, 935, 254 619, 193, 998 419, 158, 483 450, 494, 658 393, 217, 047 919, 711, 705 221, 241, 190, 566 363, 532, 573 18, 158, 489 279, 323, 673, 573, 244, 250 1918 542, 341, 522 421, 190, 566 363, 532, 573 1, 540, 207, 788 442, 606, 858 249, 658 393, 217, 047 919, 711, 705 216, 443, 306 27, 283, 304, 306, 304, 304, 304, 304, 304, 304, 304, 304	1899	89,483,172	59,989,244	149,422,416	137,360,792	13,520,088	154,880,880	304,803,296
1902. 118, 657, 496 78, 080, 308 196, 737, 804 196, 019, 703 13, 991, 101 209, 970, 864 406, 708, 606 1903. 136, 796, 605 88, 898, 744 225, 928, 744 226, 838, 874 225 225, 948, 104, 674 190, 848, 678, 104, 106, 107, 108, 108, 108, 108, 108, 108, 108, 108	1900		100,204,001			14,205,254		
1903 136, 796, 065 88, 298, 744 225, 094, 809 214, 401, 674 10, 828, 087 225, 229, 761 450, 324, 571 1904 148, 909, 576 94, 999, 839 324, 309, 4715 198, 641, 439 121, 641, 239 211, 055, 678 454, 985, 692 1905 150, 928, 737 101, 035, 427 251, 964, 214 190, 854, 946 10, 617, 115 201, 472, 061 453, 436, 273 1906 173, 046, 109 110, 694, 171 283, 740, 280 235, 483, 966 11, 173, 846 246, 667, 802 530, 389, 083 1908 218, 160, 047 134, 380, 332 352, 540, 879 246, 960, 968 16, 407, 984 263, 388, 952 615, 909, 83 190, 9227, 264, 346 143, 350, 353 370, 318, 199 279, 247, 551 1516, 442 298, 763, 993 669, 082, 193 1911 282, 723, 812 170, 000, 791 452, 724, 603 274, 316, 583 17, 492, 294 307, 716, 151 830, 120, 823 1913 441, 606, 885 299, 600, 349 671, 207, 234 355, 754, 600 213, 755 370, 819, 199 290, 223, 857 176, 163, 353 <t< td=""><td></td><td>105,969,756</td><td>71,961,108</td><td>177,930,919</td><td>196,019,763</td><td>13,951,101</td><td>209, 970, 864</td><td>406.708.668</td></t<>		105,969,756	71,961,108	177,930,919	196,019,763	13,951,101	209, 970, 864	406.708.668
1906	1903	136,796,065	88,298,744	225,094,809[214,401,674	10,828,087	225, 229, 761	450,324,570
1906. 173,046,109 110,694,171 283,740,280 225,483,956 111,73,846 246,667,802 530,898,08: 309,032 300,036 280,225,885 180,545,306 111,541,927 192,087,233 442,313,061 300,031 113,580,036 288,594,196 246,960,988 11,541,927 192,087,233 442,313,061 300,031 300,036 288,594,196 242,603,584 17,318,782 259,922,366 548,516,561 599,837 301,501 300,007 41,601 113,580,036 288,594,196 272,408,384 17,318,782 259,922,366 548,516,561 599,837,309,980 669,082,103 41,605 410,000,007 452,724,603 274,316,583 17,318,782 259,922,366 548,516,561 569,082,103 41,605 410,000,007 452,724,603 274,316,583 15,683,657 290,000,210 742,724,815 311,313,303 410,482,75,591 410,482,745,591 410,482,745,591 410,482,745,591 410,482,745,591 410,482,745,591 410,482,745,591 410,482,745,591 410,482,745,591 410,482,482,483 410,482,745,591 410,482,482,483 410,482,483 4	1904	148,909,576	94,999,839	243,909,415		12,641,239		
19072 182,685,529 98,180,308 250,225,885 180,545,306 11,541,927 192,087,233 442,313,66 198,83 218,160,047 134,380,832 352,540,879 246,960,968 16,407,984 263,388,952 615,909,83 1910 227,264,346 143,053,553 370,318,199 278,247,551 19,11 288,723,812 170,000,791 452,724,603 274,316,558 15,683,657 290,000,210 742,724,813 2911 235,304,060 187,100,615 522,404,675 290,223,857 17,492,294 307,716,151 307,716,151 30,120,822 1911 491,406,885 229,600,349 671,207,234 355,754,600 21,313,755 377,083,3551 1048,275,598 409,418,836 52,023,673 461,442,509 917,398,417 491,461,463 409,418,836 52,023,673 461,442,509 917,398,417 461,733,609 384,717,269 863,532,578 1,541,902,388 461,442,509 917,398,417 461,733,609 384,717,269 863,532,578 1,541,810 877,568 483,838 477,4631,223 479,4631,223 479,4631,223 479,4631,223 479,4631,223 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1908. 218, 180,047 134, 350,832 352, 349,879 246,960,998 10,407,934 203,385,992 101,997,835 109,982 101,907,934 203,385,992 101,907,934 203,385,992 101,907,834 101,907,934 203,385,992 101,907,934 203,385,992 101,907,934 203,385,992 203,385,992 203,385,992 203,985,244 203,885,981,199 279,247,551 19,118,752 259,223,865 259,224,603 274,216,583 15,683,657 290,023,857 279,222,385 290,007,16,151 830,120,822 101,482,559 290,223,857 1749,2294 307,716,151 830,120,822 104,482,509 104,463,483 104,255,584 104,255,584 104,255,584 409,418,836 23,848,785 455,437,224 1,042,755,584 104,255,584 409,418,836 27,833,89,942 104,425,509 917,338,417 104,425,509 917,338,417 104,425,509 107,46,631,222 104,461,425,509 917,338,417 104,425,509 104,425,509 107,46,631,222 104,461,425,509 107,46,631,222 104,461,425,509 107,46,631,222 104,461,425,509 104,461,425,509 104,461,425,509	1906	173,046,109 182,065,520	98 160 30A	283,740,280 250,225,885	285,485,990 180,545,306	11.541.927		
1909	1908	218, 160, 047	134,380,832	352,540,879	246,960,968	16,407,984	263,368,952	615,909,831
1911 282,723,812 170,000,791 452,724,603 274,316,582 15,683,657 290,000,210 742,724,812 1912 335,304,060 187,100,615 522,404,675 290,223,857 17,992,293 307,716,151 830,120,821 1914 441,606,885 229,600,349 671,207,234 355,754,600 21313,755 377,168,3551,048,275,581 307,716,151 830,120,821 1914 440,238,744 208,936,254 619,193,998 431,583,499 23,848,785 455,437,224 1074,674,631,221 1915 279,792,195 176,163,713 455,955,908 409,418,836 502,367,367 461,442,506 917,398,417 1917 461,733,809 384,717,269 846,450,878 1,561,406,88 37,889,432 779,300,070 1,287,501,204 1918 522,341,652 421,191,056 963,532,5781 1,540,027,788 416,404,158,682 1,792,111,100,20,256,607,222,549,702,376 1920 683,655,165 370,872,988 1,064,582,123 1,294,488,192 47,166,611 1,286,658,709 2,351,186,83 1921	1909	175,014,160	113,580,036		242,608,584		259,922,366	
1912. 335, 304, 0601 187, 100, 615 522, 404, 675 290, 223, 857 17, 492, 294 307, 716, 151 830, 120, 821 1913 441, 606 885 229, 600, 349 671, 207, 234 355, 754, 600 21, 315, 755 377, 068, 35511, 048, 275, 758 1914 441, 6258, 744 208, 935, 254 619, 193, 998 431, 583, 489 23, 348, 785 455, 437, 224 1, 1074, 631, 221, 1915 279, 792, 195 176, 103, 713 455, 955, 908 409, 418, 836 52, 023, 673 461, 442, 509 917, 398, 417, 1918 249, 1918 344, 1918 344, 1918 344, 1918 344, 1918 344, 1918 347, 561, 406 80, 323, 1919 347, 561, 406 80, 323, 1919 347, 561, 406 80, 323, 1919 347, 561, 406 80, 323, 1919 347, 561, 406 80, 565, 165 870, 872, 988 1, 664, 528, 1231 1, 234, 418, 418, 418, 418, 418, 418, 418, 41					278,241,001 074 212 EFO			
1913	1911		187,100,791	522,404,675	290,223,857	17,492,294	307.716.151	830,120,826
1915. 279,792,195 176,163,713 455,955,908 400,418,836 52,023,673 461,442,509 917,398,417 1916. 289,366,527 218,834,607 508,201,134 741,610,638 37,689,432 779,300,0701,287,501,204 1917. 461,733,609 384,717,269 846,450,878 1.51,375,768 27,835,332 1.79,211,1002,025,661,978 1918. 542,341,522 421,191,056 963,532,578 1.540,027,788 46,142,004 1.586,169,702 2.549,702,377 1919. 526,444,658 393,217,047 919,711,705 1.216,443,806 52,321,479 1.268,765,285 2.188,476,99 1921. 847,561,406 392,597,461 240,158,882 1.89,163,701 741,804,332 740,240,680 740,240,680 13,686,329 753,927,097 1.501,731,341 1922. 495,626,323 252,178,009 747,804,332 748,844,444 740,240,680 13,484,394 945,295,837 1.747,875,081 1924. 591,299,094 302,067,773 893,366,687 1.045,351,056 13,442,509 13,444,144 13,444,445,440 1.384,434 1.588,763,297 1.951,731,341 1926. 583,051,670 344,277,062 927,328,732 1.369,067,353 1.344,344 1.344,434 1.384,344 1.358,700,137 2.256,028,864 1.228,343,434 1.344,344 1.383,700,137 2.256,028,864 1.228,273,582 1.324,343 1.344,344 1.384,344 1.388	1913	441.606.885	229,600,349	671,207,234	355.754,600	21,313,755	377,068,355	1.048.275,589
1916 289, 366, 527 218, 834, 607 508, 201, 134 741, 610, 638 37, 689, 432 779, 300, 070 1, 287, 501, 204, 1917 461, 733, 609 384, 717, 269 846, 450, 878 11, 151, 375, 768 27, 835, 132 1, 179, 211, 100 2, 025, 661, 978, 1918 542, 341, 552 421, 191, 056 963, 532, 578 11, 540, 027, 788 41, 204, 041, 586, 169, 702, 2, 546, 702, 376, 1919 526, 494, 658 393, 217, 047 919, 711, 7051, 216, 443, 506 52, 321, 479 1, 268, 765, 225 1, 248, 192, 1921 347, 561, 406 392, 567, 476 1, 240, 158, 862, 123 1, 239, 492, 098 47, 166, 611, 1, 286, 658, 709, 2, 351, 186, 832 1921 347, 561, 360 392, 567, 476 1, 240, 158, 862, 1189, 163, 701 12, 264, 418 1, 210, 428, 119 2, 450, 587, 001 1922 495, 626, 523 252, 178, 009, 747, 804, 332 740, 240, 680 13, 686, 329 753, 327, 009, 1, 501, 731, 341, 1923 537, 268, 782 265, 320, 462 802, 579, 244 1924 591, 299, 094 302, 067, 773 893, 366, 867, 1, 045, 351, 056 134, 434 494, 545, 256, 837, 416, 416, 416, 416, 416, 416, 416, 416	1914	410,258,744				23.848,785	455,437,224	1,0/4,681,222 917,398 A17
1917. 461, 733, 609 384, 717, 289 384, 819, 878, 81, 151, 875, 768 27, 835, 332 1, 179, 211, 1002, 025, 661, 976 1918. 542, 341, 522 421, 191, 056 963, 532, 578 1, 540, 027, 788 46, 142, 041, 158, 683, 685, 165 370, 872, 958 1, 044, 588, 1231, 1239, 492, 098 47, 166, 611, 126, 678, 709, 235, 188, 476, 992 495, 626, 323 252, 178, 099 747, 804, 332 740, 240, 680 13, 686, 329 753, 927, 928, 732 255, 320, 462 802, 579, 244 13, 144, 128, 144, 128, 165, 165, 165, 165, 165, 165, 165, 165						27 690 439	779 300 070	1 287 504 204
1921 847, 561, 406 892, 597, 4761, 249, 158, 882 [1, 189, 163, 701] 21, 264, 4181, 1,210, 428, 11912, 450, 587, 001 1922 495, 626, 323 252, 178, 009 747, 804, 332 740, 240, 680 13, 484, 384 397, 783, 297, 0091, 591, 731, 741, 7875, 081 1923 537, 258, 732 255, 320, 462 802, 579, 244 931, 451, 443 13, 844, 384 945, 295, 8371, 747, 875, 081 1924 591, 299, 094 302, 067, 773 93, 366, 8671, 045, 351, 056 13, 412, 241, 1, 058, 763, 2371, 1, 952, 130, 164 1925, 166, 032, 537, 1, 069, 067, 635 12, 294, 290, 1, 081, 861, 643, 1878, 284, 188 1926, 583, 051, 670 344, 277, 062 927, 328, 732, 1, 169, 967, 673 13, 344, 346 1, 328, 700, 137, 2, 256, 028, 866 1927 659, 897, 013 370, 995, 492, 1, 030, 892, 505, 1, 252, 157, 506 15, 415, 636 (, 267, 573, 1442), 298, 465, 647 1928 710, 050, 228 398, 906, 238, 1, 108, 956, 466, 1, 228, 849, 343 122, 244, 693, 6611, 255, 579, 091, 1, 363, 709, 672 25, 186, 403, 1, 388, 896, 075, 2, 654, 575, 166 1930 819, 230, 474 429, 043, 108, 1, 248, 273, 582, 1, 120, 258, 302 24, 679, 7681, 1, 449, 80, 670, 238, 211, 652 1931 574, 090, 230 332, 522, 465 96, 612, 659, 576, 466			384,717.269	846.450.878	1.151.375.768	27,835,332	1,179,211,100	2,025,661,978
1921 847, 561, 406 892, 597, 4761, 249, 158, 882 [1, 189, 163, 701] 21, 264, 4181, 1,210, 428, 11912, 450, 587, 001 1922 495, 626, 323 252, 178, 009 747, 804, 332 740, 240, 680 13, 484, 384 397, 783, 297, 0091, 591, 731, 741, 7875, 081 1923 537, 258, 732 255, 320, 462 802, 579, 244 931, 451, 443 13, 844, 384 945, 295, 8371, 747, 875, 081 1924 591, 299, 094 302, 067, 773 93, 366, 8671, 045, 351, 056 13, 412, 241, 1, 058, 763, 2371, 1, 952, 130, 164 1925, 166, 032, 537, 1, 069, 067, 635 12, 294, 290, 1, 081, 861, 643, 1878, 284, 188 1926, 583, 051, 670 344, 277, 062 927, 328, 732, 1, 169, 967, 673 13, 344, 346 1, 328, 700, 137, 2, 256, 028, 866 1927 659, 897, 013 370, 995, 492, 1, 030, 892, 505, 1, 252, 157, 506 15, 415, 636 (, 267, 573, 1442), 298, 465, 647 1928 710, 050, 228 398, 906, 238, 1, 108, 956, 466, 1, 228, 849, 343 122, 244, 693, 6611, 255, 579, 091, 1, 363, 709, 672 25, 186, 403, 1, 388, 896, 075, 2, 654, 575, 166 1930 819, 230, 474 429, 043, 108, 1, 248, 273, 582, 1, 120, 258, 302 24, 679, 7681, 1, 449, 80, 670, 238, 211, 652 1931 574, 090, 230 332, 522, 465 96, 612, 659, 576, 466	1918	542,341,522	421,191,056	963,532,578	1,540,027,788	46,142,004	1,586,169,792	2,549,702,370
1921 847, 561, 406 892, 597, 4761, 249, 158, 882 [1, 189, 163, 701] 21, 264, 4181, 1,210, 428, 11912, 450, 587, 001 1922 495, 626, 323 252, 178, 009 747, 804, 332 740, 240, 680 13, 484, 384 397, 783, 297, 0091, 591, 731, 741, 7875, 081 1923 537, 258, 732 255, 320, 462 802, 579, 244 931, 451, 443 13, 844, 384 945, 295, 8371, 747, 875, 081 1924 591, 299, 094 302, 067, 773 93, 366, 8671, 1, 045, 351, 056 13, 412, 241, 1, 058, 763, 2371, 1, 952, 130, 164 1925, 166, 032, 167, 033, 166, 631, 1, 046, 351, 056 13, 412, 241, 1, 058, 763, 2371, 1, 952, 130, 164 1926, 167, 034, 167, 162, 167, 183, 184, 184, 184, 184, 184, 184, 184, 184	1919		393,217,047	919,711,705	1,216,443,806 1,226,402,008	92,321,4791 47 166 6111	1,268,769,289 1 286 658 709	2,188,470,990 2,251,186,832
1922. 495, 626, 323 252, 178, 009 747, 804, 332 740, 240, 680 13, 685, 329 753, 287, 782 265, 320, 462 802, 579, 244 931, 451, 443 13, 412, 241 1,058, 763, 2471, 1,952, 180, 164 1924. 591, 299, 094 302, 067, 773 833, 366, 8871, 045, 351, 056 13, 412, 241 1,058, 763, 2371, 1,952, 180, 164 1925. 516, 014, 455 280, 918, 082 796, 932, 5371, 069, 067, 353 12, 294, 290 1,081, 361, 643 1,878, 294, 180 1926. 583, 051, 670 344, 277, 062 927, 328, 782 1,358, 555, 791 13, 344, 346 1,338, 700, 1372, 256, 028, 866 1927. 659, 897, 013 370, 995, 492 1,030, 892, 505 1, 252, 157, 506 15, 415, 636 1,267, 573, 142 2,288, 405, 647 1929. 821, 075, 430 444, 603, 6611, 255, 679, 091, 1363, 709, 672 22, 186, 4031, 388, 806, 075 2, 657, 505, 554, 501 1930. 819, 230, 474 429, 043, 1081, 248, 273, 5821, 1, 20, 258, 302 24, 679, 7681, 144, 938, 0702, 383, 211, 652 1931. 574, 690, 230 332, 522, 465 966, 612, 693, 779, 742, 667 729, 742, 667 26, 81 18, 742, 822, 843, 843						21 284 418	1 210 429 110	2.450 587 001
1925. 516, 014, 455 280, 918, 062 766, 932, 5371, 1.069, 067, 353 12, 294, 290 1, 081, 361, 643 1, 878, 294, 186 1926. 583, 051, 670 344, 277, 062 927, 328, 782 1, 315, 355, 791 13, 344, 346 1, 328, 700, 187 2, 256, 028, 864 1927. 659, 897, 013 370, 995, 492 1, 030, 892, 5051 1, 262, 187, 506 15, 185, 185, 185, 185, 185, 185, 185, 1	1921	495.626.323		747 804 332	740.240.6801	13,686,329	753,927,009	1,501.731,341
1925. 516, 014, 455 280, 918, 062 766, 932, 5371, 1.069, 067, 353 12, 294, 290 1, 081, 361, 643 1, 878, 294, 186 1926. 583, 051, 670 344, 277, 062 927, 328, 782 1, 315, 355, 791 13, 344, 346 1, 328, 700, 187 2, 256, 028, 864 1927. 659, 897, 013 370, 995, 492 1, 030, 892, 5051 1, 262, 187, 506 15, 185, 185, 185, 185, 185, 185, 185, 1	1923	537, 258, 782	265,320,462	802,579,244	931,451,443	13,844,394	945,295,837	1,747,875,081
1926. 583,051,670 344,277,062 927,328,782 : 315,355,791 13,344,346 : 328,700,137 : 256,028,866 1927. 659,897,013 370,995,492 : 0,308,892,505 : 1,252,157,506 15,415,636 : 267,573,142 : 2,298,465,647 1929. 821,075,430 444,603,661 : 1,265,679,091 : 1,363,709,672 : 258,867 25,186,403 : 1,388,896,075 : 2,654,575,166 1930. 819,230,474 429,043,108 : 248,273,582 : 1,20,258,302 : 24,679,768 : 1,144,938,070 : 238,234,211,652 1931. 574,090,230 332,522,465 906,612,695 : 799,742,667 : 77,285,381 : 317,028,048 : 723,640,743 : 1,221,215 : 587,565,517 : 1,166,099,421 1932. 388,498,048 : 190,005,856 : 578,563,904 : 576,344,302 : 11,221,215 : 587,565,517 : 1,166,099,421	1924	591,299,094	302,067,773	893,866,867 708,932,537	1,040,351,056	12 294 2961	1.081 861 6430	1.878.294.180
1931 574,090,230 332,522,455 906,612,950 797,42,007 17,220,381 317,020,481,122,181,186,080,421 1932 388,498,048 190,005,856 578,503,904 576,344,302 11,221,215 587,565,517 1,166,080,421				927.328 789	1.315.355 791	13,344,346	1,328,700,137	2,256,028.869
1931 574,090,230 332,522,455 906,612,950 797,42,007 17,220,381 317,020,481,122,181,186,080,421 1932 388,498,048 190,005,856 578,503,904 576,344,302 11,221,215 587,565,517 1,166,080,421	1927		370,995,492	L.030.892.50 5	1,252,157,506	15,415,636	1,267,573,142	2,298,465,647
1931 574,090,230 332,522,455 906,612,950 797,42,007 17,220,381 317,020,481,122,181,186,080,421 1932 388,498,048 190,005,856 578,503,904 576,344,302 11,221,215 587,565,517 1,166,080,421	1928	710,050,228	398,906,238	,108,956,466	1,228,849,343	22,248,691	1,250,598,034	2,359,554,500
1931 574,090,230 332,522,455 906,612,950 797,42,007 17,220,381 317,020,481,122,181,186,080,421 1932 388,498,048 190,005,856 578,503,904 576,344,302 11,221,215 587,565,517 1,166,080,421	1929		444,603,661]] 420,042,109[248, 273, 599	1.420.258 302	20, 180, 403	1,144,938,070	2.393,211.652
1932 388,498,048 190,005,856 578,503,904 576,344,302 11,221,215 587,565,517 1,166,069,421 19333 256,349,686 149,921,644 406,271,329 473,799,955 6,913,842 480,713,797 886,935,126		574,090.230	332,522.465	906,612,695	799,742,667	17,285,381	817,028,048	1,723,640,743
1933 256,349,6851 149,921,6441 406,271,329 473,799,9351 0,915,5421 480,713,7978 586,950,120	1932	388,498,048	190,005,856	578,503,904	576,344,302	11,221,215	587,565,517	1,166,069,421
· · · · · · · · · · · · · · · · · · ·	19333	256,349,686	149,921,644	406,271,329	473,799,955	0,913,842[480, 713, 797	000, 950, 120

¹ Including exports to the United States estimated "short" in the years 1868-1900. ² Nine months. ²Preliminary figures.

Ratio of Exports to Imports and Values per Capita of Exports, Imports and Total Trade, fiscal years 1868-1933.

	Trade, fisc	tal years 18	65-1 93 3.			_
	Excess of Imports Entered	Ercess of Total Exports	Percentage Rate of Total Exports	Value	s per capit	a of—
Fiscal Year.	for Consump- tion over Total Exports.	over Imports Entered for Consumption.	to Imports Entered for Consumption	Exports Canadian Produce.	Total Imports.	Total Trade.²
	\$	\$	p.e. 78+55	\$	\$	\$
1868	14,388,439 6,898,368	1 =	78+55 89-07	14.38 15.85	19.90 18.50	34 · 28 33 · 85
1870	1,330,862	_	98.01	17.09	19.37	86.46
1871	16,731,120	-	80 - 13	16.38	23 · 94	40-32
18721873	26,326,102 38,565,194		74·92 69·03	18 · 23 20 · 87	29·06 33·94	47·29 54·81
874 875	1 X5 X24 7U4] -	70.92	20.06	32.20	52-26
875	40,561,426 12,786,709 18,984,740		64·45 86·18	17-93 18-36	30·21 23·43	48.14
876 877	18,984,740		79-83	16.97	23.45	41.79 40.42
878	11.241.170	-	87-56	16-67	22-16	38-83
879	7.915,850	16,239,161	89·94 123·23	15.06 17.29	18·98 16·58	34·04 83·87
381	_	6,831,489	107.05	19-36	20.86	40.22
882	9,379,074	_	91.57	21.47	25.35	46.82
383 384	24,407,292 16,750,774		79·97 84·19	19·78 17·80	27 · 49 23 · 63	47·27 41·43
885	12,544,394		87-42	17-43	21.98	39-41
385	12,544,394 10,797,354 15,596,968	<u>-</u> .	88.75	16-94	20.92	37.86
987 388	10,486,162		85·16 89·58	17·46 17·36	22.66 21.47	40·12 88·83
8 89	21.187.285	~	79-93	16-94	23-02	39.96
890	17,373,206	1	84-44	17-79	23.30	41-09
891 892	14,063,585 3,006,156	i <u>-</u> -1	87·39 97·39	18·31 20·26	23·02 23·55	41 · 33 43 · 81
893	740,176		99.36	21-37	23.33	44.70
894 895	_	6,614,658 8,637,593 10,453,382	106-06	20.84	21.88	42.72
396		8,637,598 10,453,382	108-58 110-40	20 · 43 21 · 57	20.00 20.72	40·43 42·29
397	-	27,839,876	126-11	24 - 04	20-73	44.77
198	-	33,222,383 5,458,464	126.30 103.65	27·80 26·12	24·29 28·41	52·09 54·53
900	_ =	10,585,879	106.13	81.75	32.44	64.19
01	_	16 578 224	109-32	32-84	33 - 13	65 97
02	-	13.233,060 134,952	106-73 100-06	35 · 43 37 · 79	35·56 39·68	70·99 77·47
104	32,853,737	134,992	86.53	34.06	41.87	75.93
×05	50,492,153	l' -	79.96	31.85	42.05	73 90
06	37,082,478 58,138,602	-	86 · 93 76 · 77	38·16 28·65	45-98 39-70	84-14 68-35
X08	89.171.927	J 1	74 - 71	38.05	54.31	92.36
106 109 110	28,671,830 71,554,200	-	90+06 80+68	36 · 24 40 · 37	43·10 58·54	79·34 93·91
011	169 794 303	[64.06	38.06	62.82	100.88
112. 113. 114.	214,688,524	: -	58.90	39-40	70.93	110.33
913	294, 138, 879	-	56·18 73·56	47-26 56-10	89·17 80·49	136 · 43 136 · 59
115	103,130,114	5.486.601	101.20	52-08	57-99	110.07
116	-	271,098,936 332,760,222 622,637,214 349,053,580	153+34	92·29 140·75	63 · 24 103 · 48	155 - 53
917 918	_	332,760,222 622,637,214	139·31 164·62	184.91	103 · 48 115 · 69	244 · 23 300 · 60
919	-	349,053,580	137-95	143-48	108-48	251-96
020	-	222, 130, 586	120.87	143-61	123 - 34	266.95
921	29,730,763	6.122,677	97 · 60 100 · 82	135·32 83·00	141 · 20 83 · 84	276-52 166-84
922	_	142,716,593	117-78	103 39	89 09	192 · 48
)24)25	-	1185 308 43A I	118-51 135-69	114,35 115-04	97·72 85·76	212·07 200·80
926	_	284,429,106 401,371,405 236,680,637	143.28	139 - 19	98-13	237.32
927	-	236,680,637	122-92	129.96	106 - 99	236 · 95
928	_	141,641,568 123,216,984	112-76 109-72	124-92 136-00	112·78 126·23	237·70 262·23
)29 ,,)30	103,335,512	-	91.72	117 83	122-31	240-14
931	89,584,647		90-12	77.09	87.39	164-48
982 9337	_	9,061,613 74,442,468	100·16 118·32	54·86 44·55	55.06 38.20	109-92 82-75
ova		12,274,700	110.92	##+90	99, M	62-15

¹ Nine months.

² Not including exports of foreign produce.

^{*} Preliminary figures.

3.-Movement of Coin and Bullion, fiscal years 1868-1933.

Note.—Up to 1919 "silver bullion in bars, blocks, ingots, drops, sheets and plates, unmanufactured" was included in "coin and bullion" but since that time it has been regarded as "merchandise". The figures from 1899 have been revised in accordance with the new arrangement.

	Total		Exports.	<u> </u>	Total Im-	
Fiscal Year.	Imports.	Canadian.	Foreign.	Total.	ports and Exports of Coin and Bullion.	
	\$	3		3	\$	
1868	4,895,147 4,247,229	4,866,168 4,218,208		4,866,168 4,218,208	9,761,315 8,465,437	
1870	4,335,529	8,002,278	-	8,002,278	12,337,807	
1871 1872		6,890,350 4,010,398		6,690,350 4,010,898	9,423,444 6,764,147	
1873	3,005,465	3,845,987	_ [3,845,987	6,851,452	
1874	4,223,282	1,995,835 1,039,837	-	1,995,835 1,039,837	6,219,113	
1875 1876	2,220,111	1,240,037	-	1,240,037	3,249,920 3,460,148	
1877	2,174,089		733,739 168,989 704,586	733,739 168,989	2,907,82	
1878 1879	803,726 1,639,089		704,586	704,586	972,713 2,343,675	
1879			1,771,755	1,771,755	3,653,56	
1881 1882		_ :	971,005 371,093	971,005 371,093	2,094,280 1,874,830	
1883	1,275,523	_	631,600	631,600	1,907,122	
1884 1885	2,207,666		2,184,292 2,026,980	2,184,292 2,026,980	4,391,958 4,981,224	
1886	3,610,557		56,531	56,531	3,667,088 537,787	
1887 1888	582,218 2,175,472		5,569 17,584	5,569 17,534	537,787 2,193,006	
1889	575,251		1,978,256	1,978,256	2,553,507	
1890			2,439,782	2,439,782	3,522,793	
1891 1892	1,811,170 1,818,530	129,328 306,447	817,599 1,502,671	946,927 1,809,118	2,758,097 3,627,648	
1893	6,534,200	309,459 310,006	3.824.239	4.133.698	10,067,898	
1894 1895		310,006 256,571	1,529,374 4,068,748	1,839,380 4,235,319	5,862,453 8,901,939	
1896,	5,226,319	256,571 207,582	4,491,777	4,699,309	9,925,628	
1897 1898		327,298 1,045,723	3, 165, 252 3, 577, 415	3,492,550 4,623,138	8,168,744 9,013,983	
1899	4,629,177	1.101.245	2,914,780	4,016,025	8,645,202	
1900	8,152,640	1,670,068	6,987,100	8,657,168	16,809,808	
1901 1902			1,978,489 1,669,422	1,978,489 1,669,422	5,285,558 7,723,213	
1903	8,695,707	-	619,963 I	619,963	9,315,670	
1904 1905	7,554,917 9,961,340] _ [2,465,557 1,844,811	2,465,557 1,844,811	10,020,47 11,806,15	
1906	6.670.527		9,928,828	9,928,828	16,549,35	
1907 (9 months)	7,029,047 5,887,737	_	13,189,964 16,637,654	13,189,964 16,637,654	20,219,01 22,525,39	
1909	9,611.761	2	1,589,791	1,009,793	11,201,554	
1910		-	2,594,536 7,196,155	2,594,536 7,196,155	8,109,355 16,422,876	
1911 1912	25,077,515		7,601,099	7,601,099	32,678,614	
1913	4,309,811 14,498,451	1,219	16,163,702 23,559,485	16,163,702 23,560,704	20,473,513 38,059,15	
1914	131,483,396	667	29.365.701 I	29.366.368	160,849,764	
1916	33,876,227	315 86,087	103, 572, 117 196, 460, 961	103,572,432 196,547,048	137,448,659 223,533,594	
1917	11,290,341	290,281	3,201,122	3,491,403	223,533,594 14,781,74	
19191	-	280, 117	49,815,279	50,045,396	100,508,890	
1920		24,368,846	9,815,827		41,403,448	
1922	4 788 246	18,085,904	5,251,430 25,782,806	34,184,673 23,337,331	28, 125, 57	
1923	. 26,455,231	1,766,060 12,521,619	25,782,806 12,924,211	27,548,866 25,445,830	54,004,09° 28,942,53	
1925	. 4,142,292	2,948,353	1,971,620 25,242,303	4,919,973	9,062,26	
1926. 1927.	51,437,859 46,086,458	45,880,408 2,011,391	25,242,303 43,040,819	71,122,711 45,052,210	122,560,576 91,138,666	
1928	. 31,308,807	30,855,656	31,031,311	61.886.967	93, 195, 77	
1929		36,932,465 410,435	58,299,998 4,494,783	95, 232, 463 4, 905, 218	124,792,777 7,621,430	
1931		80	44,996,512	44,998,592	84, 123, 510	
1932	1,815,016	44,994,578	22,860,214 6,842,342	67,854,792	69,669,80	
19332,	. 1,010,985	50,722,602	6,842,342	57,564,944	58,575,921	

¹No record for 1919 imports and exports. ² Preliminary figures.

4.—Duties Collected on Exports, 1868-92, and on Imports for Home Consumption, 1868-1932, with Percentages of Expense of Collection to Gross Customs Revenue Collected, fiscal years 1868-1932.

Note.—Duties on exports were not collected after the year 1892. The figures in this table are the gross figures of duties collected; the net national revenue from customs taxation, because of the drawbacks paid where commodities on which duties have been collected are afterwards exported in a more highly manufactured state, is considerably smaller. For statistics of net customs revenue see Statement of Customs Duties, Table 4, in Chapter XXI on Public Finance.

Fiscal Year.	Duties Collected on Exports.	Duties Collected on Imports.	Percentage of Expense of Collection to Gross Customs Revenue.	Fiscal Year.	Duties Collected on Exports.	Duties Collected on Imports.	Percentage of Expense of Collection to Gross Customs Revenue.
	\$	\$	p.e.		\$	\$	p.c.
1868	17,986	8,801,446	5.99	1881	8, 141	18,492,645	3.87
1869	14,403	8,284,507	7.09	1882	8,810	21,700,028	3.33
1870	37,912	9,425,028	5-41	1883	9,756	23,162,553	3-26
1871	36,066	11,807,590	4.21	1884,	8,515	20, 156, 448	3-96
1872	24,809	13,020,684	4-04	1885	12,305	19,121,254	4-14
1873	20, 152	12,997,578	4.35	1886	20,726	19,427,398	4.10
1874	14,565	14,407,318	4-55	1887	31,397	22,438,309	3⋅64
1875	7,243	15,354,139	4.44	1888	21.772	22,187,869	3.81
1876	4,500	12,828,614	5-61	1889	42.207	23,742,317	3.62
1877	4,103	12,544,348	5.75	1890	93,674	23,921,234	3 63
1878	4,161	12,791,532	5.58	1891	64,803	23,416,266	3.83
1879	4,272	12,935,269	5.56	1892	108	20,550,474	4.39
1880	8,896	14,129,953	₅₋₀₄				}

Fiscal Year.	Duties Collected on Imports	Percentage of Expense of Collection to Gross Customs Revenue.	Fiscal Year.	Duties Collected on Imports.	Percentage of Expense of Collection to Gross Customs Revenue.		Duties Collected on Imports.	Percentage of Expense of Collection to Gross Customs Revenue,
	\$	p.c,		\$	p.e.			p.c.
1893	21,161,711	4.26	1906	46,671,101	3.31	1919	158,046,334	3⋅13
1894	19,379,822	4 · 75	19072	40,290,172	3-04	1920	187,524,1821	2.49
1895	17,887,269	5-13	1908	58,331,074	3.30	1921	179,667,6831	3⋅36
1896	20,219,037	4.43	1909	48,059,792	4 - 15	1922	121,487,3941	3-22
1897	19,891,997	4.73	1910	61,024,239	3.31	1923	133,808,3701	2 - 58
1898	22, 157, 788	4-37	1911	73,312,368	2.98	1924	135,122,345	2.49
1899	25,734,229	4.02	1912	87,576,037	2.78	1925	120,222,454	3.09
1900	28,889,110	3.71	1913	115,063,688	2.74	1926	143,933,111	2 - 83
1901	29,106,980	8-86	1914	107, 180, 578	3.59	1927	158,966,367	2.66
1902	32,425,532	3.62	1915	79,205,910	4-77	1928	171,872,768	3-09
1903	37,110,355	3-31	1916	103,940,101	3 - 55	1929	200,479,505	3.02
1904	40,954,349	3-31	1917	147,631,4551	2.54	1930	199,011,628	3.30
1905	42,024,340	3-49	1918	161,595,629	2-51	1931	149,250,992	4.45
	l	Į Į	1	<u> </u>	<u> </u>	1932	113,997,851	4-87

Includes War tax. I Nine months.

 Exports to the United Kingdom, to the United States and to Other Countries, of Merchandise the Produce of Canada, fiscal years 1868-1933.

						
Fiscal Year.	Exports to United Kingdom.	Per cent Can, Exports to U.K. to Total Can, Exports. (indse.)	Exports to United States.	Per cent. Can. Exports to U.S. to Total Can. Exports, (undse.)	Exports to Other Countries.	Total Exports of Canadian Produce.
1868 1869 1870	\$ 17,905,808 20,486,389 22,512,991	p.c. 36·9 39·1 38·1	\$ 25,349,568 26,717,656 30,361,328	p.c. 52·3 51·0 51·4	\$ 5,249,433 5,196,727 6,169,271	\$ 48,504,809 52,400,772 59,043,590
1871. 1872. 1873. 1874. 1874. 1876. 1876. 1877. 1878. 1879. 1880.	21, 733, 556 25, 223, 785 31, 402, 234 35, 769, 190 34, 199, 134 34, 379, 005 36, 491, 671 35, 861, 110 29, 393, 424	37.7 38.3 41.6 46.8 49.1 47.4 52.2 52.7 47.1	29, 184, 358 32, 371, 496 36, 714, 144 33, 195, 805 27, 902, 748 30, 080, 738 24, 326, 332 24, 381, 009 25, 491, 356	\$0.6 49.9 48.0 43.0 40.0 41.5 35.9 40.8	6,732,110 7,735,802 8,421,647 7,777,002 7,607,941 8,031,694 8,212,543 7,747,681 7,546,245	57,630,024 65,831,083 76,538,025 76,741,997 69,709,823 72,491,437 68,030,546 67,989,800 62,431,025
1880	35, 208, 031 42, 637, 219 39, 816, 813 39, 538, 067 37, 410, 870 36, 479, 051 36, 094, 263 38, 714, 331 33, 648, 284 33, 504, 281 41, 499, 149	48-3 50-8 42-3 45-1 46-9 46-1 47-8 41-3 41-3 41-7	29, 566, 211 34, 038, 431 45, 782, 584 39, 513, 225 34, 332, 641 35, 566, 310 34, 284, 490 35, 269, 922 40, 407, 483 39, 519, 940 36, 213, 278	40·6 48·6 45·1 43·0 44·9 44·1 49·6 49·2 42·5	8, 125, 455 7, 269, 051 8, 538, 260 8, 651, 139 8, 089, 587 7, 085, 874 6, 777, 951 6, 976, 656 7, 326, 305 7, 248, 235 7, 545, 158	72,899,697 83,944,701 94,137,657 87,702,431 79,333,098 79,131,735 77,756,704 80,960,909 81,382,072,456 80,272,456 85,257,586
1891 1892 1893 1894 1895 1896 1896 1897 1898	43, 243, 784 54, 949, 055 58, 409, 606 60, 878, 056 57, 903, 566 62, 717, 941 69, 533, 852 93, 065, 019 85, 113, 681 96, 562, 875	48-8 55-4 58-6 56-3 56-2 56-2 64-4 62-0 57-1	37, 743, 430 34, 686, 070 37, 296, 110 32, 562, 509 35, 603, 863 37, 789, 481 43, 664, 187 38, 989, 525 39, 320, 485 57, 996, 488	42-0 35-0 35-4 31-4 34-6 34-4 27-0 29-0 34-2	7,684,524 9,417,341 9,783,062 10,411,199 9,321,014 9,200,383 10,434,501 12,494,118 12,920,626 14,412,938	88, 671, 738 99, 032, 466 106, 488, 708 103, 851, 764 102, 828, 441 109, 707, 805 123, 632, 540 144, 548, 662 137, 380, 792
1900 1901 1902 1903 1904 1905 1906 1906 1907 1908	92, 957, 525	52-3 55-8 58-4 55-5 50-9 54-1 54-7 51-1 52-1	67, 983, 673 66, 567, 784 67, 786, 387 66, 856, 885 70, 426, 765 83, 546, 306 62, 180, 439 90, 814, 871 85, 334, 806 104, 199, 675	38-3 34-0 31-6 33-7 36-9 35-5 34-4 36-8 35-2	16,590,188 20,104,634 21,435,327 21,436,632 22,3313,314 24,481,185 19,673,681 29,951,973 30,884,054 35,564,931	177, 431, 386 196, 019, 763 214, 401, 674 198, 414, 439 190, 354, 946 235, 483, 956 180, 545, 306 240, 960, 968 242, 603, 584 279, 247, 551
1911 1912 1913 1914 1915 1916 1917 1918 1919	132, 156, 924 147, 240, 413	48-2 50-7 47-8 49-9 45-6 60-9 64-5 54-9 44-5	104, 115, 823 102, 041, 222 139, 725, 953 163, 372, 825 173, 320, 216 201, 106, 488 280, 616, 330 417, 233, 287 454, 873, 170 464, 628, 183	38·0 35·2 39·3 37·9 42·3 27·1 24·4 27·0 37·4	38,043,806 40,942,222 45,866,744 52,901,045 49,430,066 88,651,761 128,611,901 277,314,432 220,819,659 286,311,278	274, 316, 553 290, 223, 857 355, 754, 600 431, 588, 418, 836 741, 610, 638 1, 151, 375, 768 1, 540, 027, 788 1, 216, 443, 806 1, 239, 492, 098
1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930	312, 844, 871 299, 361, 675 379, 067, 745 360, 057, 782 395, 843, 433 508, 237, 560 446, 872, 851 410, 691, 392 429, 730, 485 281, 745, 965	28·3 40·4 40·7 34·4 37·0 38·6 35·7 33·4 31·5	542, 322, 967 292, 588, 643 369, 080, 218 430, 707, 544 417, 417, 144 474, 987, 367 466, 422, 789 478, 145, 38 499, 612, 145 515, 049, 768	45.6 39.5 39.6 41.2 39.0 36.1 37.3 38.9 36.7 46.0	333, 995, 863 148, 290, 362 183, 303, 780 254, 555, 786 255, 806, 766 332, 130, 864 338, 861, 866 389, 512, 568 434, 367, 042 323, 462, 574	1,188,163,701 740,240,680 931,451,443 1,045,351,060,067,353 1,315,355,791 1,222,157,506 1,228,349,343 1,363,709,672 1,120,258,302
1931 1932 1933 ²	219, 246, 499	27·4 30·2	349,669,563 235,186,674 143,160,400	43-7 40-8 30-2	230,835,605 167,113,903 146,278,536	799,742,667 576,344,302 473,799,955

¹ Nine months.

^{*} Preliminary figures.

6.—Imports from the United Kingdom, from the United States and from Other Countries, of Merchandise Entered for Home Consumption, fiscal years 1868-1933.

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Fiscal Year,	Imports from United Kingdom.	Per cent Imports from U.K. to Total Imports, (mdse.)	Imports from United States.	Imports. (mdse.)	Imports from Other Countries.	Total Imports for Home Consumption
1868 1869 1870	\$ 37,617,325 35,496,764 37,537,098	p.e. 56·1 56·2 56·1	\$ 22,660,132 21,497,380 21,697,237	p.c. 33-8 34-0 32-4	6,812,702 6,160,797 7,667,742	\$ 67,090,159 63,154,94 66,902,07
1871 1872 1873 1874	48,498,202 62,209,254 67,996,945 61,424,407 60,009,084	57·6 59·7 54·6 49·9 51·1	27, 185, 586 33, 741, 995 45, 189, 110 51, 706, 906 48, 930, 358	32·3 32·1 36·3 42·0 41·7	8,530,600 9,004,118 11,323,074 10,049,574 8,469,126	84,214,38; 104,955,36; 124,509,12; 123,180,88; 117,408,56;
1872 1873 1874 1875 1876 1877 1878 1878 1879	60,009,084 40,479,253 39,331,621 87,252,769 30,967,778 33,764,439	43.8 41.8 41.2 39.3 48.3	44,099.880 49,376,008 48,002,875 42,170,306 28,193,783	47.7 52.5 53.1 53.6 40.3	7,933,974 5,418,765 5,140,207 5,564,435 7,942,320	92,513,107 94,126,394 90,395,851 78,702,519 69,900,542
1881 1882 1883 1884	42,885,142 50,356,268 51,679,762	47·4 45·3 42·4 39·6 40·1	36,338,701 47,052,935 55,147,243 49,785,888	40.6 42.3 45.3 47.0 45.7	11,264,486 13,735,981 15,034,491 14,261,969 14,147,817	90, 488, 329 111, 145, 184 121, 861, 496 105, 972, 978
1885 1885 1887 1887 1888 1899	40,081,448 39,033,006 44,741,350 39,167,644 42,251,189 43,277,009	40-7 42-6 38-9 38-7 38-8	45,576,510 42,818,651 44,795,908 46,440,296 50,029,419 51,365,661	44.6 42.6 46.1 45.9 46.0	14,140,480 15,569,952 15,063,688 16,817,588 17,039,903	99,755,776 98,992,137 105,107,216 100,671,628 109,098,196 111,682,573
1891	42,018,943 41,063,711 42,529,340 37,035,963 31,059,332	37·7 35·7 36·9 34·0	52,038,477 51,742,132 52,339,796 50,746,091	46·7 44·9 45·4 46·5	17. 481,534 22,354,570 20,301,694 21,288,857 19,437,555 19,007,266	111,533,954 115,160,413 115,170,836 109,070,911 100,675,891 105,361,161
1895 1896 1897 1898 1899	31,059,332 32,824,505 29,401,188 32,043,461 36,966,552 44,280,041	30·9 31·2 27·6 25·4 24·7 25·7	50,179,004 53,529,390 57,023,342 74,824,923 88,506,881 102,224,917	49·8 50·8 53·5 59·2 59·2 59·2	19,437,555 19,007,266 20,193,297 19,438,778 23,948,983 26,146,718	100, 675, 891 105, 361, 161 106, 617, 827 126, 307, 162 149, 422, 416 172, 651, 676
1901	42,820,334	24·1 25·0 26·2 25·3 24·0	107,377,906 115,001,533 129,071,197	60·3 58·4 57·3 58·7 60·6	27,732,679 32,713,545 37,230,574 38,854,825	177,930,919 196,737,804 225,094,809 243,909,415
1903 1904 1905 1906 1906 1907 1908 1909	60,342,704 69,183,915 64,415,756 94,417,320 70,682,600 95,337,058	24 · 4 25 · 8 26 · 8 24 · 5 25 · 8	152,778,576 169,256,452 149,085,577 205,309,803 170,432,360 218,004,556	59·6 59·5 58·2 59·0 58·9	38,842,934 45,299,913 36,724,502 52,813,756 47,479,236 56,976,585	251, 964, 214 283, 740, 280 250, 225, 835 352, 540, 879 288, 594, 196 370, 318, 199
1911	109,934,753 116,906,360 138,742,644 132,070,406 90,157,204	24·3 22·4 20·7 21·4 19·8	275,824,265 331,384,657 436,887,315 396,302,138	60-8 63-4 65-0 64-0 65-2	66,965,585 74,113,658 95,577,275	452,724,608 522,404,675 671,207,234 619,193,998
1915(1916 1917 1918 1919	107,096,735 81,324,283 73,035,118	15.2 12.7 8.4 8.0	297, 142, 059 370, 880, 549 665, 312, 759 792, 894, 957 750, 203, 024 801, 097, 318	73·0 78·6 82·3 81·6 75·3	68,656,645 59,916,224 74,041,384 89,313,338 96,473,563 137,068,174	455, 955, 908 508, 201, 134 846, 450, 878 963, 532, 578 919, 711, 705 1, 064, 528, 123
1921 1922 1923 1924 1925 1926 1927 1927 1928	213,973,562 117,135,343 141,330,143 153,586,690 151,083,946	17-3 15-7 17-6 17-2 19-0	856, 176, 820 515, 958, 196 540, 989, 738 601, 256, 447 509, 780, 009	69-Q . 69-0 . 67-4 . 67-3 . 64-0	170,008,500 114,710,793 120,259,363 138,523,730 136,068,582	1,240,158,882 747,804,332 802,579,244 893,366,867
1926	151,083,946 163,731,210 163,939,065 186,435,824 194,041,381 189,179,738	17.6 15.9 16.7 15.3 15.2	608, 618, 542 687, 022, 521 718, 896, 270 868, 012, 229 847, 442, 037	65 · 6 66 · 6 64 · 9 68 · 6 67 · 9	154,978,980 179,930,919 203,624,372 203,625,481 211,651,807	796, 932, 537 927, 328, 732 1,030, 892, 505 1,108, 956, 466 1,265, 679, 091 1,248, 273, 582
1931 1932 1933 ²	149, 497, 392 106, 371, 779 86, 353, 691	16·5 18·4 21·2	584,407,018 351,686,775 232,548,055	64 · 5 60 · 8 57 · 2	172,708,285 120,445,350 87,369,583	906, 612, 695 578, 503, 904 406, 271, 329

¹ Nine months. Preliminary figures.

7.—Percentage Proportions of Imports from United Kingdom and United States respectively, to Totals of Dutiable and Free in the 26 fiscal years 1997-32.

Note.—For the years 1868 to 1906, see Canada Year Book, 1927-28, p. 499.

	Uni	ted Kingd	om.	United States.			
Fiscal Year.	Dutiable to Total Dutiable.	Free to Total Free.	Dutiable and Free to All Imports.	Dutiable to Total Dutiable.	Free to Total Free.	Dutiable and Free to Al! Imports.	
1907 (9 months). 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1922	P.C. 32-05 32-05 32-84 29-84 31-80 28-89 24-95 24-95 24-91 16-35 10-70 19-50 13-44 20-07 19-20 21-32	p.c. 16-04 17-35 16-35 16-49 15-05 14-72 13-43 14-20 12-61 11-63 8-24 5-50 8-93 11-17 8-72 9-49 9-12	p.c. 25-79 26-83 24-52 25-78 24-52 20-71 21-35 19-79 18-45 7-97 11-87 11-87 11-61 17-61	p.c. 93 50-59 51-76 52-29 54-14 58-72 62-57 60-27 68-81 79-10 72-04 64-19 62-97 61-85 60-20	p.c. 71 28 70 51 70 20 69 22 72 05 71 74 69 78 70 16 72 85 86 29 86 29 84 74 81 20 81 21 80 88 78 66	P. c. 50 58 16 59 100 58 81 60 83 63 96 65 13 72 95 78 57 81 25 69 02 67 41 67 30	
1925 1926 1927 1928 1928 1929 1930 1931	24·16 22·83 20·44 21·13 18·82 18·14 18·91 20·51	9.40 8.89 7.81 8.98 8.91 9.45 12.31	18-96 17-65 15-90 16-76 15-34 15-16 16-49 18-39	55 · 63 57 · 97 59 · 52 58 · 59 63 · 82 63 · 88 62 · 65 59 · 11	79.36 78.94 79.53 76.06 77.40 75.55 67.59	64.00 65.76 66.73 64.87 68.56 67.89 64.46 60.78	

Average ad valorem Rates of Duty Collected on Dutlable and Total Imports from United Kingdom, United States and all Countries in the 65 fiscal years 1868-1932.

Imports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Ports Po											•			_
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1868		able Im-	Im-	able Im-	Im-	Im-	lm-	Fiscal Year.	Ĭm-	Im-	Im-	lm-	Im.	Total Im- ports.
1892 29.4 22.1 28.5 16.1 29.7 17.8 1925 22.1 18.2 23.1 13.0 23.3 1893 29.8 22.3 26.7 14.6 30.3 18.4 1926 21.6 18.4 23.9 13.2 24.7 1894 30.0 22.3 27.0 13.7 30.9 17.8 1927 23.9 19.7 23.1 13.2 24.7 1895 30.1 22.6 26.7 13.7 30.5 17.8 1928 25.9 20.6 23.3 13.5 24.2 1896 30.2 22.4 26.7 14.5 30.0 19.2 1929 25.9 20.6 23.4 14.1 24.4 1897 30.7 21.1 26.7 14.3 30.0 18.7 1930 25.5 20.0 23.8 14.4 24.8 1898 30.7 21.1 26.7 14.5 30.0 18.7 1930 25.5	1869 1870 1871 1872 1872 1873 1874 1873 1874 1875 1876 1877 1878 1879 1879 1881 1882 1883 1884 1885 1888 1899 1891 1890	p.e. 16.98 16.44 16.44 16.44 16.45 16.56 16.55 19.44 15.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 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19	7.88.41.76.57.19.39.79.41.15.50.89.13.45.82.37.89.14.82.37.89.14.82.37.89.14.82.37.89.14.82.37.89.14.82.37.89.14.82.37.89.14.82.37.89.14.83.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.14.83.37.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.18.77.1	20.2 20.2 20.9 19.6 18.3 18.9 21.8 21.4 22.3 25.3 25.3 25.3 25.3 31.8 31.9 30.9 30.9 30.9 30.9	13 · 1 13 · 1 14 · 0 10 · 4 11 · 1 12 · 4 10 · 4 11 · 1 13 · 3 14 · 2 20 · 2 20 · 2 21 · 4 21 · 6 19 · 0 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7 21 · 7	1902 1903 1904 1905 1906 1907(9 ms.) 1908 1909 1910 1911 1912 1915 1915 1916 1917 1918 1919 1919 1920 1920 1920 1923 1924 1925 1926 1927 1928 1929 1929 1929	24 · 6 · 6 · 1 · 24 · 8 · 8 · 8 · 1 · 6 · 1 · 24 · 8 · 8 · 1 · 24 · 8 · 8 · 24 · 24 · 24 · 25 · 25 · 27 · 24 · 24 · 24 · 24 · 25 · 25 · 27 · 24 · 24 · 24 · 24 · 24 · 24 · 24	18-3 17-6 18-27 18-3 18-3 18-3 18-9 19-16-19-11-19-5 19-5 19-5 19-11-19-5 16-6 20-11-19-7 18-3 20-6 20-6 20-6	24 · 2 · 2 · 2 · 2 · 4 · 8 · 7 · 0 · 9 · 5 · 3 · 0 · 9 · 5 · 3 · 1 · 9 · 1 · 2 · 4 · 8 · 7 · 0 · 9 · 5 · 3 · 0 · 9 · 5 · 3 · 1 · 3 · 1 · 3 · 4 · 3 · 2 · 4 · 8 · 2 · 4 · 4 · 2 · 4 · 4 · 2 · 4 · 4 · 3 · 5 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2	12 · 4 13 · 23 13 · 5 13 · 1 12 · 8 13 · 2 13 · 2 13 · 3 14 · 4 14 · 9 13 · 9 13 · 9 13 · 9 13 · 9 13 · 9 13 · 9 13 · 9 14 · 9 15 · 9 16 · 9 17 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 · 9 18 ·	27.3 1 1 27.8 27.7 8 27.7 8 27.8 27.8 27.8 27.8	16.58 16.41 16.57 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 16.52 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Imports for Home Consumption of certain Raw Materials Used in Canadian Manufactures, fiscal years 1911-33.

Norg.-For the years 1902 to 1910, see Canada Year Book, 1926, p. 463.

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Fiscal Year.	Sugar, Raw.	Vegetable Oil for Soap Industry.	Crude Cotton- seed Oil.	Raw Rubber (including Balata).	Tobacco, Raw.	Hides and Skins.	Cotton, Raw (including Linters).	Hemp, Dressed or Undressed.	Silk, Raw, etc.
	ton.	gal.	cwt.	ewt.	lb.	\$	cwt.	cwt.	lb.
1911 1912 1913 1914 1915	271,532 281,402 310,101 347,168 335,820	407 895	80,916 243,872 265,789 293,849	44,313 56,755	17,204,271 17,203,513 22,153,588 17,598,449 18,595,957	8,105,330 8,903,727 18,486,459 8,831,010 12,842,558	727,939 774,578	81,013 82,661 64,996 55,572 55,376	112,581 75,776 101,669
1916 1917 1918 1919 1920	298, 433 365, 772 382, 807 359, 470 540, 787	815,923 1,267,174 2,061,672 2,390,107 861,462	430,013 315,621 406,850 459,685 578,986	192.272	20,834,672 17,702,637 17,824,947 25,103,080 24,345,295	12,441,731 12,873,970 8,796,966 5,427,544 22,654,661	969,679 877,634 880,374 1,117,235 964,715	50, 914 15, 846 45, 177 72, 887 46, 553	158.648
1921 1922 1923 1924 1925	347,504 432,212 571,728 419,710 419,371	1,103,672 1,342,390 1,928,386 1,886,162 1,692,744	417,301 488,683 258,381 216,082 213,201	283 9871	20,007,411 20,870,509 14,548,694 15,941,339 13,712,885	10,652,787 5,898,087 7,947,410 461,5811 502,5861	986,315 983,860 1,252,615 985,966 1,008,793	47,090 77,833 203,844 340,402 249,032	272,508 371,570 368,026 335,495 361,403
1926 1927 1928 1929 1930	579,272 564,779 447,389 409,585 402,871	2,591,232 3,177,800 3,377,856 3,241,587 2,874,972	335,755 297,706 623,148 302,197 400,653	502,312 582,039 777,169	14,943,864 17,446,774 18,475,772 18,726,618 17,113,472	534,0891 579,0851 678,6701 507,7731 486,4421	1,355,738 1,497,438 1,462,246 1,511,270 1,260,699	281,639 123,426 99,503 27,390 42,620	679,923 938,459 1,282,815
1931 1932 1933 ⁵	415,090 405,687 441,557	3,080,061 3,073,477 3,689,995	174,711 386,275 390, 05 5	552,694	16,580,394 13,075,335 10,199,212	281.3164	1,067,222 1,009,023 1,009,073	28,423 18,348 15,810	2,539,133
Fiscal Year.	Wool, Raw. ²	Noils and Worsted Tops.	Artificial Silk Rovings, Yarns,etc.	Manila Grass and Sisal.	Rags, Waste Paper and other Waste.	Iron Ore.	Alumina, Bauxite, Cryolite.	Tin in Blocks, Ingots, etc.	Crude Petroleum for Refining.4
	cwt.	\$	lb.	cwt.	cwt.	ton.	cwt.	cwt.	gal.
1911 1912 1913 1914 1915	64,224 71,954 92,092 72,521 131,940	778,320 689,304 980,432 1,072,066 1,312,885	115,710 129,982 128,148	272,638 290,362 343,644 189,010 283,660	536,604 564,296 750,003 716,882 540,922	2,116,933 1,972,207 1,055,724	186, 152 218, 998 276, 170 312, 259 261, 553	46,076	54,310,597 72,231,006 143,338,070 177,879,835 196,203,287
1916 1917 1918 1919 1920	211,407 145,812 115,380 158,767 117,717	2,587,949 2,988,177 4,418,854 5,314,793 5,847,787	183,278 276,873 160,090 161,206 360,297	382,233 323,441 491,739 314,150 453,853	510,472 780,062 505,643 570,211 826,593	1,595,995 2,318,547 2,203,506 2,227,919 1,632,011	385,959 816,509 1,664,799 1,916,929 451,349	38,683 28,044 44,010	186,753,081 135,533,089 191,376,057 260,819,944 298,540,725
1921 1922 1923 1924 1925	182.556 193.217	5,533,1083 7,225,3813 9,110,3103 8,606,1793 5,823,1123	512,109 570,450 933,791 1,239,986 1,684,811	453,754 187,521 216,818 268,722 255,317	1,142,850 686,483 870,542 1,123,282 1,232,567	1,950,291 656,902 1,044,999 1,807,223 911,586	1,198,605 166,695 792,210 1,266,799 1,358,148	39,258 39,837	311,719,057 391,292,960 397,603,716 418,791,375 140,671,846
1926 1927 1928 1929 1930	164,234 138,957 140,219 103,343	6,142,0813 7,887,4873 8,133,1203 8,646,9983 6,293,8633	1,689,730 1,516,448 1,563,020 2,240,704 2,132,362	439,699 519,807 524,124 745,831 459,588	1,307,473 1,364,897 1,371,469 1,314,494 1,606,931	1,053,593 1,445,504 1,491,234 2,272,130 2,456,919	1,336,538 1,647,244 2,663,166 3,444,911 2,738,777	50, 858 48, 742 58, 928 56, 318	170,616,511 596,466,714 709,959,837 365,335,849 ,110,169,704
1931 1932 1933	96,245	6.649,268° 7,369,400° 8,007,079°	2,569,574 1,501,739 958,047	485,442 468,443 749,014	1,254,557 1,363,974 792,085	1,428,970 802,163 66,514	2,221,550 1,704,029 745,455	38,095 1	994,384,918 ,016,355,361 945,587,999

¹ Cwt. ² Includes hair of the camel, alpaca, goat, etc. ³ Pounds. ⁴ Prior to 1917 includes all crude petroleum. ⁵ Preliminary figures.

10.—Exports to the United Kingdom, to the United States and to All Countries, by Classes of Merchandise the Produce of Canada, by Values and Percentages, fiscal years 1929-32. Ŧ

VALUES

<u> </u>		114			VALUE	58.						
		1929			1930.			1931.			1932.	
Class.	United Kingdom.	United States.	All Countries.	United Kingdom.	United States.	All Countries.	United Kingdom.	United States.	All Countries.	United Kingdom.	United States.	All Countries
egetable products (except chemicals, fibres and wood) mimals and their products	325, 105, 581	\$ 58,527,194	\$ 646,514,058	\$ 186,521,591	48,626,508	\$ 384,635,751	\$ 141,108,053	\$ 27,644,374	\$ 292,280,037	\$ 98,725,113	\$ 11,035,258	\$ 204,398,36
(except chemicals and fibres)	47,644,803	84,993,501	158,757,272	40,673,780	66,894,165	133,009,145	31,173,615	34,068,408	83,714,772	32,028,165	22,342,515	68,798,6
products	810,836	4,930,498	9,678,019	976,568	3,961,130	9,066,226	1,048,925	2,068,531	6,504,182	1,386,235	1,743,794	5,512,1
paper on and its products on-ferrous metals and their	22,350,947	235,665,010 11,157,421	288,621,745 82,256,717	21,450,183 6,848,000	237,669,418 11,635,491	289,566,675 78,589,580	17,350,424 4,073,233	188,949,408 6,118,120	230,604,474 38,937,661	13,734,973 3,798,363	140,478,352 3,097,883	
productson-metallic minerals and		63,221,555	112,778,194	15,404,363	101,728,976	154,319,429	17, 153, 570	58 ,835,683	95,6 5 2,063	17,266,439	36, 176, 490	69,072,8
their products (except chemicals)	1,771,253			1,952,156				l ' '	i ' '		' '	l ' '
ducts liscellaneous commodities	4,036,885		19,438,064 18,263,813	4,888,740 3,030,584	12,535,510 13,336,314	22,468,462 20,057,938	2,714,386 3,077,474		12,825,852 18,115,846			10,535,00 13,367,2
Totals	429,730,485	499,612,145	1,363,709,672	281,745,965	515,049,763	1,120,258,302	219,246,499	349,660,563	799,742,667	174, 0 43,725	235,186,674	576,344,3
				PERCENT	rages of	EACH C	LASS.					
egetable products (except chemicals, fibres and wood) nimals and their products (except chemicals and	75.65	p.c. 11·71	p.e. 47·41	p.c. 66·18	9.c. 9.49	p.c. 34-33	p.c. 64·36	p.c. 7·91	p.e. 36·55	p.c. 56·73	p.c. 4·69	p.c. 35
fibres)	11.09	17-02	11-64	14· 4 3	12.98	11-87	14 - 22	9.75	10-47	18-40	9.50	11.
products	0.19	0.99	0.71	0.35	0.77	0.81	0.49	0.59	0.81	0-80	0.74	0.
paper on and its products on-ferrous metals and their	5·20 2·03	47·16 2·23	21·16 6·03	7·64 2·43	46·10 2·26	25.84 7.02	7·92 1·85	54-04 1-74	28·83 4·87	7-89 2-18	59·74 1·32	30· 2·
products	3-80	12-66	8.27	5.46	19.76	13.78	7.82	16.83	11.96	9-92	15.38	11-
their products (except chemicals)	0-41	3.60	2.01	0.69	3.62	2.55	0.70	3 - 79	2.64	0.51	3-50	2.
ducts	0.94	2 · 16	1.43	1.74	2.48	2.01	1 · 23	1.82	1.60	1-80	1-75	1.6

2.59

100.00

1.79

100-00

 $1.23 \\ 1.41$

100.00

3.53

100.00

1-80 1-77

100-00

 $1.60 \\ 2.27$

100.00

3.38

100-00

2.32

100 - 03

1.08

100-00

1.34

100-00

0.94 0.69

100.00

ducts.....

Tetals.....

Miscellaneous commodities.

2.47

100.00

11.—Imports from the United Kingdom, from the United States and from All Countries, by Classes of Merchandise Entered for Home Consumption, by Values and Percentages, fiscal years 1929-32.

VALUES.

Class.		1929.			1930.			1931.			1932.	
Ciass.	United Kingdom.	United States.	All Countries.	United Kingdom.	United States.	All Countries.	United Kingdom.	United States.	All Countries.	United Kingdom.	United States.	All Countries.
Agricultural and vegetable		*	\$	\$	*	\$	*	\$	\$	\$	*	
products (except chemicals, fabres and wood)	53,670,561	103,667,472	233, 130, 244	51,279,282	98,752,133	227,048,817	41,762,787	67,580,381	177,628,778	30,220,997	44,578,848	128,621,260
Animal products (except chemicals and fibres) Fibres, textiles and textile		42,654,255	71,661,754	5,288,528	37,388,126	69,853,833	3,783,222	26,153,435	45,995,705	2,614,531	14,184,530	24,563,246
products	77,021,060	81,889,787	206, 439, 173	68,243,821	71,997,597	185,241,252	49, 207, 120	48,244,419	130,717, 0 22	30,549,937	30,944,027	83,879,362
paper	4,935,029 18,802,533	50,564,294 316,095,527	59,214,818 348,194,597	5,250,702 21,323,484	51,736,243 282,192,471	60,951,077 314,366,791	4,540,804 18,069,505	38, 138, 028 167, 674, 719	46.042,029 198,983,477	3,527,024 13,383,622	25,584,827 81,005,384	32,008,168 98,811,706
Non-ferroge metals and their products		63,117,952	76,858,365	7,828,832	75,683,919	90,421,154	6,320,121	49,161,117	60,595,034	4,284,756	27,026,602	34,301,105
their products (except chemicals)	12,100,661	185, 154, 049	166,964,231	13,601,758	149,293,985	186,496,388	12,902,472	118,984,418	153,578,658	10,286,241	77,871,155	102, 147, 347
ducts	4,963,687 10,030,226					39,907,503 73,986,767			35,650,772 62,471,220			30,781,345 43,440,365
Totals	194,041,381	848,012,229	1,265,679,091	189,179,738	847,442,037	1,248,273,582	149,497,392	584, 407, 018	906,612,695	106,371,779	351,686,775	578,5 0 3,9 0 4

PERCENTAGES OF EACH CLASS.

Agricultural and vegetable products (except chem-	p.c.	p.c. t	p.c.	p.c.	p.c. (p.c.	p.c.	p.c.	p.c.	p.e. [p.c.	p.c.
icals, fibres and wood)	27-67	11.95	18-42	27 · 11	11-65	18-20	27.94	1t · 56	19-59	28-41	12-68	$22 \cdot 22$
Animal products (exceptchemicals and fibres)	2.92	4.92	5.86	2.80	4-41	5-59	2.53	4.48	5.07	2.46	4.03	4.25
Fibres, tertiles and tertile	39.69	9.44	16.32	36-08	8-50	14 - 85	32.92	8.26	14.42	28.72	8-80	14.51
Wood, wood products and paper	2.54	5.82	4-68	2.77	6-11	4-88	3.04	6.53	5.08	3.60	7.27	5.53
Iron and its products	9.69	36.40	27.27	11.26	33.29	25 18	12.07	28.68	21.40	12.58	23.03	17.08
products Non-metallic minerals and	3.53	7-27	6.07	4-14	8-94	7.24	4-23	8-41	6-68	4.03	7-68	5.93
their products (except chemicals)	6-24	15.57	13-19	7-19	17-62	14-94	8+63	20.36	16-94	9-67	22 · 15	17-66
ducts Miscellaneous commodities	2·55 5·17	3·02 5·61	2·98 5·41	2·87 5-78	3 · 18 6 · 30	3·20 5·92	3·08 5·56	3-97 7-75	3.93 6.89	3·85 6·68	5·79 8·57	5·31 7·51
Totals	100-00	100-00	100-00	100-00	100.00	100.00	109.00	100-00	100-00	100.00	100.00	100-00

12.—Principal Exports of Canadian Produce from Canada to United

No.	Item.		United I	Kingdom.	
	Toolii.	1929.	1930.	1931.	1932.
	I. Agricultural and Vegetable Products. A. Mainly Food. Fruits—				
1	Fresh— Applesbrl.	\$66,003 3,884,822	6,626,009	5,091,415	1,422,603 5,577,339
3	Canned or preserved lb.	186 4,731,935 353,143	3,842,377 288,360	990 2,783,224 194,163	6,774,912 392,117
4	Juices and syrups, n.o.p gal.	308,069 202,627	318,839 210,709	246,407 157,362	230,210 175,758
	Totale, Fruits1	4,530,321	7,193,230	5,523,656 	6,194,367
5	Vegetables— Fresh— Beets, sugarton	_	_	_	
6	Potatoesbush.	_	-	-	
7	Turnipsbush.	<u>-</u>	Ξ:	-	
8	Canned	14,075,970 1,019,899 433,657	6,400,027 408,196 549,668	8,301,431 500,010 1,346,262	9,077,018 454,125 1,512,530
•	Totals. Vegetables!	1,453,899	957,874	1,846,272	1,966,655
	Grains and Farinaceous Products—	1,100,000	307,573		- 1,900,000
14	Grains— Barleybush.	25,960,614 17,552,851	11,301,028 7,560,339	2,235,137 686,120	8, 168, 571 3, 025, 852
11	Beans,bush.	88 418	38 260	84 436	12.858 8.395
12	Buckwheatbush.	205,052 180,313	12,595 10,302	36,544 20,302	170,507 76,093
13	Oatebush	6, 298, 471	2,373,314 1,452,935	850, 599 303, 816	6,082,621 1,971,456
14	Peae, wholebush.	4,043,185 19,866 83,129	5,695 26,160	9,138 39,971	8,685 29,748
15	Ryebush,	4,646,828 5,368,687	358,088	1,082,433 398,546	2, 116, 572 916, 138
16	Wheatbush.	229,801,402 260,008,624	286,074 113,224,273 139,798,345	131,679,398 106,759,872	110,552,532 65,302,614
	Totals, Grains ¹ \$	287,246,190	149, 138, 627	108, 209, 063	71,330,905
17	Milled Products— Bran, shorts and middlingsewt.	1,680 3,101	88,043 114,339	13,602 18,928	204,889 171,709
18	Oatmeal cwt.	388,055 2,072,979	331,390 2,010,839	427,580 2,216,712	650,395 2,201,827
19	Wheat flour brl.	2,775,924 16,971,984	2,278,916 14,077,257	2,727,865 12,540,874	2,065,077 7,317,910
:	Totals, Milled Products ¹ \$	19,068,560	16,227,816	14,786,687	9,713,893
20 21	Cereal foods, prepared \$ Malt \$	2,176,645	2,384,994 —	2,441,154 36	2,323,635
į	Totals, Grains and Farinaceous Products ¹ \$	308, 553, 517	167,762,533	125, 444, 100	83,421,504
22	Sugar and Its Products— Candy	7,750	5, 176	5,583	3,493 1,260
23 24	Maple sugar and syrup	3,129 13,207 127,609 621,186	2,568 8,147	2,118 16,024	1+200
ļ	Totals, Sugar and Its Products1 \$	733,086	125,868	94,380	104,987
25	Hops lb.	307,240 90,189	282,272 62,704	196,393 45,802	42, 191 4,876
	Totals, Agricultural and Vegetable Products —A. Mainly Food:	\$15,417,085	176,132,354	132, \$84, 168	91,705,797

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32.

1929. 1950. 1931. 1932. 1930. 1930. 1931. 1932. No.			_						
1979		Unite	d States.			All Co	untries.		
279, 508	1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	No.
\$40,946	252,508 279,359 19,634	526,410 490,716 167,345 15,106 6,408	253,567 595,799 375,454 29,269	68,030 229,568 128,842 12,277 3,780	4,867,180 282,384 5,085,895 390,087	8,111,943 493,618 4,254,466	597.477 3.444.304	231,240 7,263,489 431,813	3
40, 946		1.080.219	892 847	319,623	5.917.152		i		-
12,380,823	40, 846 245, 521 1, 873, 317 1, 140, 731 2, 829, 590 624, 872 3, 947, 976 215, 501 16, 590 2, 411, 458 67, 816 29, 048 44, 324 207, 387, 59, 051 53, 203 31, 862 22, 611 35, 157, 743	42,772 241,860 5,392,657,551 2,668,696 1,088,618 8,778,407 435,727 12,262 7,547,813 88,425 69,949 218,277 742,904 155,595 137,273 33,988 30,150 25,491 99,143 42	47,551 288,346 5,010,348 1,911,025 589,009 236,562 12,333 570 4,896,832 632,119 230,010 23,956 65,231 448,399 306,564 417,444 164,038 6,533 29,000	6,115 33,198 2,949,377 1,472,377 1,472,377 1,954,615 367,481 11,446,874 304,304 2,923 2,406,728 55,723 16,969 10,283 16,063 23,692 10,533 46,729 46,300 77,613 348 16,811 13,456 46,300 77,613	40,646 245,521 4,949,156 3,083,452 2,852,171 633,485 1,423,061 486,824 6,083,673 35,699,767 25,743,971 45,976 214,645 402,386 361,616 15,657,348 10,241,838 230,188 9,456,512	42,772 241,866 7,957,588 8,042,228 1,094,688 17,249,042 994,794 589,490 11,240,747 14,817,071 10,388,755 22,047 758,505 186,549 16,496,181 4,055,855 37,230 143,310 1,526,368	47,551 288,346 7,102,119 5,658,367 1,928,332 545,662 11,023,835 674,986 1,377,228 8,695,725 3,468,729 1,169,403 25,630 70,918 661,189 425,183 3,258,501 1,146,266 1,146,266	5, 115 33, 198 4, 723, 618 2, 466, 244 1, 967, 162 371, 411 22, 477, 523 849, 946 1, 538, 447 5, 554, 068 24, 337, 678 10, 002, 911 26, 327 29, 339 741, 041 332, 077 13, 841, 332, 077 13, 841, 359, 813 67, 775 111, 899 4, 359, 813 2, 025, 199	5 6 7 8 9 10 11 12 13 14 15
3.562,618 1.834.712 2.924.538 1.725.442 3.645.819 1.986.356 3.008.574 2.018.332 17 5.351,954 2.362.814 2.854.854 1.1021.491 5.496.024 2.582.484 2.902.696 1.273.648 86 1.50 2.1 1.512 3.073.375 2.440.968 2.523.865 2.633.632 2.073 1.962 6.34 1.204 1.1405.728 7.893.866 2.523.865 2.633.632 1.150 2.549 3.756 6.5117.779 4.5457,195 32.876,234 13.897,543 5.367,586 2.377.666 2.867,320 1.029,197 73.796,136 5.05,49,600 38,407,020 2.2881,956 6.692 8.782 13.477 25.543 2.238.690 2.431.137 2.492.467 2.405,404 2.400 - 198.632 998.663 54.332 64.735 284.866 1.211.448 21 19.265,799 11.981.893 12.260,528 5.015,620 553.587,951 287.047,429 222,918.888 159,726,251 10.345 2.139 2.300 1.259 1.691.007 1.858,519 1.411.004 899.877 22 4.529 703 5.70 405 501.255 526.776 393.477 233.867 243.869 1.341,950 294.823 1.818,006 578.346 231 1.422,954 2.648.606 1.711.914 677.462 4.329.822 4.798,712 3.188,138 1.753.174 417	12,380,823	7,487,014	7,727,678	2,670,650	428,524,326	215,753,475	177,419,769		16
6,692 2,400 8,782 - 13,477 198,632 25,543 998,663 2,238,690 54,332 2,431,137 64,736 2,492,467 284,866 2,405,404 1,211,448 21 19,265,799 11,981,893 12,260,528 5,015,620 553,587,951 287,047,429 222,918,888 159,726,251 10,345 2,139 4,529 2,300 703 1,259 4,529 1,691,007 703 1,858,519 501,255 1,411,004 589,877 299,877 233,867 22 338,677 233,867 233,867 21 338,477 233,867 233,867 23 23,869 13 419,950 294,823 294,823 1,485,006 1,485,006 578,346 578,346 23 12,176,348 1,423,936 1,423,936 904,209 904,209 887,130 24 1,422,954 2,648,605 1,711,914 677,462 4,329,822 4,798,712 3,188,138 1,753,174 417 58 - - - 32,005 64,551 48,362 6,204	3,562,518 5,351,954 13, 86, 2,073	1,834.712 2,362,814 3 15 1,962	2,924,538 2,854,854 5 21 634	1,725,442 1,021,491 1,150 1,512 1,204	3,645,819 5,496,024 598,412	1,988,356 2,582,484 407,050 2,440,968	3,006,574 2,962,696 488,334 2,523,868	2,018,332 1,273,648 798,840 2,633,632 5,413,740	18
19.265,799 11,981,893 12,260,528 5,015,620 553,587,951 287,047,429 222,916,888 159,726,251 10,345 2.139 2.300 1.259 1.681,007 1.858,519 1.411,004 898,677 23,4529 703 570 405 501,255 526,776 398,477 233,867 1.350,140 2.404,046 1.466,921 562,467 1.365,927 2.415,087 1.485,005 578,346 16.029 3,069 13 419,950 294,823 187,754 140,825 1.045 79,646 15,092 112 2.176,348 1.423,936 904,209 687,150 24 1.422,954 2.648,605 1,711,914 677,462 4.329,822 4,798,712 3.188,138 1.753,174 147 322,039 250,723 216,065 54,819 58 92,505 64,561 48,362 6,204	5,367,586	2,377,666	2,867,320	1,029,197	73,796,136	50,549,600	38,407,020	22,881,956	
10.345	6,692 2,400	8,782	13,477 198,632	25,543 998,663	2,238,690 54,332	2,431,137 64,786	2,492,467 284,866	2,405,404 1,211,448	29 21
4,529 703 570 405 501,255 526,776 393,477 233,887 1,350,140 2,404,046 1,466,921 562,467 1,365,927 2,415,087 1,486,005 578,346 23 1,045 79,646 15,092 112 2,176,348 1,423,936 904,209 687,150 24 1,422,954 2,648,605 1,711,914 677,462 4,329,822 4,798,712 3,188,138 1,753,174 417 - - 322,039 250,723 216,065 54,819 58 - - 92,505 64,561 48,362 6,204	19.265,799	11,981,893	12,260,528	5,015,620	553,587,951	287,047,429	222,918,888	159,726,251	
	1,350,140 216 1,045 1,422,954	703 2,404,046 16,029 79,646	1,466,921 3,069 15,092	562,467 13 112	501,255 1,365,927 419,950 2,176,348 4,329,822 322,089	526,776 2,415,087 294,823 1,423,936 4,798,712 250,723	393,477 1,486,006 187,754 904,209 3,188,138 216,065	233,867 578,346 140,825 687,150 1,753,174 54,819	23 24
		23,312,016	19,820,570	8,484,020	<u> </u>				

12.--Principal Exports of Canadian Produce from Canada to United

_		United Kingdom.					
No.	Item.	1929.	1930.	1931.	1932.		
_	I. Agricultural and Vegetable Products—con.						
	B. OTHER THAN FOOD.						
1	Beverages—		_	18	103		
1	Brewed (ale, beer)gal.	-	_	42	183		
2	Distilled— Whiskeygal.	20,829 85,758	30,676	12,649 41,291	20,389 72,786		
3	Other gal.	11	95,005 9,999	2,504 7,001	12, 160 10 74		
4	Fermented (wines) gal.	60 133	35,436 164	135	205		
		214	247	206	277		
	Totals, Beverages	86,032	130,688	48,540	73.320		
5	Oil cake and mealcwt.	12,880 30,540	1,680 4,580	2,812 5,410	45, 448 60, 182		
	Rubber— Raw and waste	802	3,202 384,775	206			
7	Raw and waste	218,418 75,076	384,775 126,297	365,866 112,012	225,425 65,239		
8	Canvas shoes with rubber soles pair	1,213,394 893,059	2,048,676 1,432,964	1,812,256 1,255,600	756,828 486,329		
•	Boots and shoes, rubber, n.o.p pair	1,398,976 2,364,776 29,979	1,175,607 1,987,227	991,995 1,578,038	963,670 1,340,048		
10	Hose	29,979	30,961	34,153	8,418		
11	Tiree, automobile casings	100,062 1,166,614	40,455 428,958	10,084 110,110	4,072 14,870		
12 13	Tires and tubes, other \$ Other manufactures \$	98,083 1,095,842	24,621 2,589,601	4,657 1,987,353	1,498,425		
	Totals, Rubber \$	5,724,231	6,573,835	5,082,029	3,413,346		
••	Seeds— Clover	21,169	41 704	30,365	97,146		
14	Flaxeed. bush.	229,379 1,164	41,794 325,075 2,937	231.958	664,590 4,872		
15	Flarseed	4,656	12,336	745,262 929,327	9,686		
	Totals, Seeds1\$	269,986	375,300	1,186,928	686,466		
16	Tobacco— Uumanufactured	6,247,871	5,293,167	4,820,202	7,950,353		
	1 a	1,926,085 999,156	1,389,334 322,326	1,415,103 94,704	2,500,060 110,141		
17 18	Fodders, n.o.p. \$ Hay top	47,621	105,184	19,240	12,598 144,408		
19	Senega root	496,307 100,942 115,978	1,398,781 183,683 160,595	259,074 19,968	45,645		
	*	115,978	160,595	10,244	16,697		
	Totals, Agricultural and Vegetable Products —B. Other than Food!	9,688,496	10,389,237	8,123,885	7,019,316		
	Totals, Agricultural and Vegetable Products	325, 105, 581	186,521,591	141, 168, 053	98,725,113		
	II. Animals and Animal Products.	_					
	Animale, Living—	7,050	150	4,123	25,200		
20 21	For exhibition	7,000	190	3,000	20,200		
22	Other—Cattle, I year old or less	_	_	0,000 	_		
23	Cattle more than 1 year old	405	-	6,223	26,734		
24	Horses	61,770		623,405 25	2,165,423 10		
25	PoultryNo.	250 -	1,700	10,561	500		
26	SheepNo.	-	[[2,814	Ξ		
24	вшеер,	l -	-	ı - I	-		

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1829-32-continued.

		mtries.	Ali Co			l States.	United	
2.	193	1931.	1930.	1929.	1932,	1931.	1930.	1929.
25, 45 24, 12		270,102 337,210	1,481,215 1,995,990	4,110,698 5,608,866	-	253,418 320,444	1,449,122 1,959,477	4,092,113 5,588,870
12,60	2,51	3,239,164	2,904,579	2,355,431	_	171,608 2,681,244	1,050,681	1,126,399
8,50	11,69	18,722,198 49,342	25,856,136 70,243	24,122,725 34,112	-	4.948	16,405,341 25,508	18,111,595 17,730
17,60 $1,77$]	154,843 11,441 71,793	477,031 36,598 115,081	267, 160 40, 046	-	70, 206 10, 539	368, 281 85, 487 113, 198	231,042 38,722
2,34				120,656		69,592		118,591
_	11,60	19,286.044	28,444,238	30,118,907	-	3,141,486	18,846,297	24,050,698
31,41 74,90		312,336 564,596	530,229 1,302,956	425,527 1,047,993	47,850 60,515	201,660 379,655	443,615 1,086,558	285,367 692,577
6,30	2.37 1.55 1.51 2.10 61 4.69 1.89	72,553 1,270,183 438,556 5,217,179 3,577,980 1,632,067 2,568,477 205,681 1,153,960 10,508,716 1,256,232 2,404,590 21,062,785	231, 658 1,565,598 9,654,627 9,654,627 6,517,039 2,199,944 3,469,196 1,663,128 15,873,678 2,269,544 3,022,813 32,248,353	258, 835 1, 179, 700 450, 956 7, 621, 156 5, 177, 217 2, 067, 889 3, 412, 632 81, 722, 502 16, 646, 374 1, 581, 023 30, 582, 514	37, 456 8, 070 1,000 101 60 161 359 26, 546 8, 702 30, 560 5, 292 16, 085 117, 349	69,374 4112 295 427 460 1,154 39,410 2,778 15,202 1,691 26,543 154,130	211 724 266 200 418: 541 100 187 48.249 3.062 2.947 2.900 16,715 312,383	242, 108 100 61 2, 555 2, 415 228 869 61, 625 2, 187 23, 533 6, 043 10, 377 347, 031
76,400 16,474 51,78 12,37	1,04	580,077 1,396,892 1,917,236 2,819,096	1,316,752 772,831 1,732,087 3,237,744	1,890,451 3,028,329 5,745,397 7,944,625	27,868 1,041,602 1,142,095 1,218,127	278,501 651,540 987,654 1,499,924	872,623 769,894 1,719,751 2,709,119	1,529,144 3,027,155 5,740,716 7,503,126
22,922 86,996 87,330 86,282 16,263 11,330	8, 22 2, 53 85 52 34 13	6,051,319 1,505,594 1,206,218 156,722 1,590,657 183,392 103,950	6,811,391 1,504,264 1,446,677 162,188 2,007,944 728,221 660,284	524,119 593,017	3,001 1,115 537,101 32,814 254,040 158,895 56,898	4,736 1,433 999,054 119,464 1,094,720 60,472 36,636	5,254 1,264 934,223 35,719 321,854 468,512 432,776	5,388 2,120 823,693 50,433 440,427 260,178 283,434
.0,36	29,63	48,770,605	71,630,301	76,260,783	2,551,238	_ 7,823,801	25,314,492	\$4,816,264
8,36	204,31	292,280,037	\$84, 6 35,751	646,514,058	11,035,258	27,644,374	48,626,508	58,527,194
8,564 8,274 6,129	- '23 55	254,261 2,646 544,110	277,959 4,209 748,575	392,435 3,516 589,213	210,330 5,139 536,674	250, 138 2, 485 472, 147	273,441 4,061 708,011	384,335 3,387 556,058
7,059 7,696 5,846 0,959 7,306 9,853 4,903 6,876 1,030 6,073	28 3 2,79 20 7 6	27, 690 538, 175 18, 920 1, 717, 913 6, 452 169, 823 111, 114 72, 313 1, 146 9, 174	85,700 2,070,884 149,463 10,300,003 1,165 179,520 662,291 546,504 5,531 58,851	76,989 1,922,311 160,411 12,182,519 920 166,251 676,239 594,064 10,559	6,713 168,127 67,041 61,635 123	27,188 531,686 9,720 837,998 6,020 119,514 98,122 66,825	85, 226 2, 066, 048 147, 045 10, 142, 460 108, 619 650, 222 543, 938 4, 432 49, 300	76,720 1,919,420 157,731 11,987,127 545 104,901 674,961 591,631 9,694 114,082

12.-Principal Exports of Canadian Produce from Canada to United

		United Kingdom.					
No.	Item.	1929.	1930.	1931.	1932.		
	II. Animals and Animal Products—continued.						
1	Other—concluded. Swine	- 1	-	- \			
2	ForesNo.	121	200	194	77		
•	***************************************	34,950	53,820	50,700	12,004		
	Totale, Animale, Living ¹ \$	110,580	66,821	692,931	2,205,347		
3	Bones, horns and hoofs	493					
4	Fresh— Halibutcwt.	499	_	_			
-	.	5,000	-	- [56		
5	Herringscwt.	[]	-	- [-		
•	Lobsterscwt.	<u>- 1</u>	-	-	_		
7	Salmon or lake troutewt.	-	-	111 1,333	-		
8	Mackerelcwt.	}	-	1,000			
1	Salmon	15,126 277,366	21,935	31,996 641,383	26,909		
10	Smeltscwt.	277,366	454, 112 -	041,383	456, 218		
11	Tullibeecwt.	-		=			
12	Whitefishcwt.	-		-			
14	# III (AITSII			-			
	Totals, Fish, Fresh ¹	283,247	454, 126	642,831	456,554		
13	Canned— Clamscwt		10	3	5		
	 	122 11	157	52	66		
14	Codfish, bonelessewt.	140			00 614		
1\$	Lobsters,ewt.	22,971 1,453,569 103,857	28,650 1,765,971	22,060 1,274,778	28,646 1,355,138		
16	Salmonewt.	$103,857 \\ 1,902,627$	90,829 1,857,726	144,612 3,116,037	205,178 3,646,393		
17	Sardinescwt.	52 472	200 1,920		407 3,214		
	Totals, Fish, Canned	3,357,935	3,625,958	4,390,867	5,005,266		
	Dried, Salted, Smoked, Pickled—						
18	Codfish, driedcwt.	8,086 65,830	629 6,657	1,143 9,929	594 4,315		
19	Codfish, pickledtwt.	-	-		=		
20	Codfish, smokedewt.	_ [- [-		
21	Haddockewt.	-	35 352	4 20	-		
22	Herring, dry-saltedcwt.	-	-!	-	-		
22	Herring, pic'_tedewt.		-	4			
24	Herring, smokedcwt.	15	20	12	21 172		
25	Mackerel, pickledcwt.	65 -	150 -	- 1	- 174		
26	Pollock, hake and cusk, driedewt.	[- - 4		563 2,590		
27	Salmon, dry-salted (chum)cwt.	30	16		2,580		
28	Salmon, pickledcwt.	30 831 11,392	736 20,502	283 6, 186	566 9,826		
	Totals, Fish, Dried, Salted, Smoked,	77,317	27,677	16,220	16,931		
	Totals, Fishery Products, n.o.p.1. \$	3,719,872	4, 107, 761	5,051,110	5,481,301		
					-		

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1928-32-continued.

1929. 1980. 1981. 1982. 1929. 1980. 1981. 1982. 1982. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983. 1983	_	Unite	d States.		<u> </u>	All Co	untries.		No.
144,544 99,557	1929.	1930.	1931.	1932,	1929.	1930.	1931.	1932.	NO.
144,544 99,557	6,758	1,793	244	1,166	9,298	3,730	2,267	3,714	1
16, 154, 716	788	11 587	1 401	518	2.409	63,550 4,265	21,397 992	26,071 683	2
91,155									-
49,151 41,736 34,897 37,277 49,950 41,919 34,918 37,597 4 614,172 530,535 440,046 386,405 62,886 572,896 443,966 399,103 829,225 307,544 190,721 102,894 383,377 380,912 100,985 110,985 103,285 1 614,407 41,607 41,736 38,807 41,738 380,211 1,612,986 130,985 110,985 110,985 130,285 1 1,612,986 2,318,109 41,885 30,861 1,467 45,510 47,601 30,601 1 1,612,986 2,318,109 42,843,85 25,570 44,85,510 47,601 30,601 1 1,612,986 2,318,109 42,843,85 25,570 47,867 2,318,135 22,285 180,000 106,819 524,500 309,917 204,422 25,249 16,001 10,774 20,443 8 180,060 106,819 60,225 124,618 180,069 106,619 60,241 124,624 88,237 45,888 50,984 55,490 84,714 75,982 94,853 113,105 3 680,064 633,233 698,202 517,5711 1,105,1199 1,125,913 1,496,924 1,346,924 77,355 33,040 84,877 88,889 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,081,891 1,0							_ 		-
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387									•
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387	49,151	41,736	34,697	37,277	49,950	41,919	34,918	37,597	4
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387	382.925	307.544	190,717	102.954	383.377	309.912	190,995	103.265	
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387	571,599	448,624	411,836	306,382	574,807	455,587	413,601	308,081	1 [
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387	1.612.966	2.318.109	2.208.189	1,831,554	1,612,966	2,318,133	97,394 2.208.189	1.831.562	•
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387	47.637	45,644	34,365	25,570	47,637	45,644	34,482	25,570	7
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387	25, 249	524,606 16 001	369,917	244,998	564,149 25,240	524,606 16,601	371,352	244,993	1
869, 064 683, 223 698, 202 697, 203 1, 051, 199 1, 225, 013 1, 496, 924 1, 213, 379 1, 061, 175 99, 385, 53, 304, 064, 877 68, 3822 73, 372 53, 305, 305, 364, 887, 387, 319 1, 081, 175, 327, 361, 199 36, 386, 387, 387, 387, 387, 387, 387, 387, 387	180,069	106,619	60,225	124,616	180,069	106,619	60,241	124,624	il °
718, 681 690, 428 287, 429 203, 400 718, 681 620, 428 287, 429 203, 400 12 118, 684 113, 407 94, 443 81, 464 116, 840 113, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 10, 292, 840 8.606, 189 1171, 501 1271, 104 215, 501 99, 1024 30, 836 171, 524 216, 214 100, 293 31, 858 27, 504 281, 86 19, 233 19, 679 27, 561 28, 313 19, 523 20, 138 12, 833 90 279, 619 192, 292 190, 092 298, 281 281, 159 195, 466 104, 970 14, 626 13, 668 13, 153 17, 036 47, 085 54, 883 54, 289 63, 446 15, 915, 360 86, 514 737, 468 746, 879 30, 147, 735 3, 456, 379 3, 048, 713 2, 913, 304 143 92 30, 609 651 100 547, 769 3, 048, 713 2, 913, 304 16, 918, 918, 918, 918, 918, 918, 918, 918	040 044	40F 000	50,954	55,490	84,714	76.983	94,353	113,195	9
718, 681 690, 428 287, 429 203, 400 718, 681 620, 428 287, 429 203, 400 12 118, 684 113, 407 94, 443 81, 464 116, 840 113, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 10, 292, 840 8.606, 189 1171, 501 1271, 104 215, 501 99, 1024 30, 836 171, 524 216, 214 100, 293 31, 858 27, 504 281, 86 19, 233 19, 679 27, 561 28, 313 19, 523 20, 138 12, 833 90 279, 619 192, 292 190, 092 298, 281 281, 159 195, 466 104, 970 14, 626 13, 668 13, 153 17, 036 47, 085 54, 883 54, 289 63, 446 15, 915, 360 86, 514 737, 468 746, 879 30, 147, 735 3, 456, 379 3, 048, 713 2, 913, 304 143 92 30, 609 651 100 547, 769 3, 048, 713 2, 913, 304 16, 918, 918, 918, 918, 918, 918, 918, 918	73,855	53,040	64,877	68,362	73,372	53,055	64,887	68,373	10
718, 681 690, 428 287, 429 203, 400 718, 681 620, 428 287, 429 203, 400 12 118, 684 113, 407 94, 443 81, 464 116, 840 113, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 81, 464 116, 840 13, 407 94, 443 10, 292, 840 8.606, 189 1171, 501 1271, 104 215, 501 99, 1024 30, 836 171, 524 216, 214 100, 293 31, 858 27, 504 281, 86 19, 233 19, 679 27, 561 28, 313 19, 523 20, 138 12, 833 90 279, 619 192, 292 190, 092 298, 281 281, 159 195, 466 104, 970 14, 626 13, 668 13, 153 17, 036 47, 085 54, 883 54, 289 63, 446 15, 915, 360 86, 514 737, 468 746, 879 30, 147, 735 3, 456, 379 3, 048, 713 2, 913, 304 143 92 30, 609 651 100 547, 769 3, 048, 713 2, 913, 304 16, 918, 918, 918, 918, 918, 918, 918, 918	1,091,751	803,266	832,814	785,859	1,091,993	803,548	832,984	786,022	
1,516,004 1,500,814 1,055,617 879,347 1,516,004 1,500,814 1,055,617 879,347 10,703,156 10,825,680 9,436,690 7,850,402 11,257,772 11,484,241 10,292,840 8,606,189 11,721 13,979 5,825 2,268 11,749 14,029 5,925 2,342 13,171,104 215,501 99,024 30,836 171,524 216,214 100,293 31,858 27,504 29,1619 192,232 19,679 27,581 28,313 19,523 20,138 14,626 13,698 13,153 17,036 47,085 54,883 54,289 63,446 19,570 14,626 13,698 13,153 17,036 47,085 54,883 54,289 63,446 15,733 1,036 163,903 9,104,735 3,450,779 3,047,387 473,077 16,8539 1,753 1,036 163,903 9,108,342 8,802,488 6,317,741 6,678,853 68 32 -	718,681	620,428	267, 420	203.400	718.681	620,428	267.420	203,400	111
10,793,156	116,840 1,516,004	113,407 1,500,814	94.443	81,464 879,347	116,840 1,516,094	113,407 1,500,814	94,443 1,095,617	81,464	12
27, 504	0,793, 156							8,606,189	
27, 504	11.721	13.979	5.825	2.26A	11.749	14.029	5.925	2_342	12
27, 304 23, 168 19, 233 19, 679 27, 581 28, 313 19, 523 20, 138 14 288, 369 279, 619 192, 292 190, 092 288, 281 281, 159 195, 646 194, 670 14, 626 13, 698 13, 153 17, 036 47, 086 54, 833 54, 289 63, 446 15 915, 360 856, 514 737, 468 746, 679 30, 147, 35 3, 456, 379 30, 487, 713 2, 913, 304 793 144 92 30, 099 651, 100 547, 709 427, 387 473, 077 16 8, 539 1, 753 1, 036 163, 903 9, 108, 342 8, 302, 468 63, 17, 741 6, 6768, 853 68 32 - 4, 361 469, 841 623, 824 359, 087 271, 427 1,407, 221 1, 358, 382 1, 037, 036 1, 143, 124 13, 272, 129 13, 067, 116 10, 117, 022 9, 543, 527 120, 293 103, 738 89, 745 86, 186 541, 725 531, 398 408, 345 367, 104 18 1,068, 944 965, 804 750, 778 522, 811 4, 784, 829 4, 828, 643 3, 195, 199 2, 210, 468 80, 784 72, 827 100, 733 66, 811 80, 903 83, 242 106, 887 70, 545 19 374, 545 349, 726 440, 699 256, 672 375, 673 388, 207 459, 058 271, 707 18, 120 12, 755 8, 494 53, 377 18, 339 12, 894 8, 678 5, 478 223, 512 172, 044 106, 444 55, 273 227, 179 173, 766 108, 837 57, 330 123, 442 20, 873 18, 339 10, 420 42, 505 40, 606 36, 971 21, 040 21 189, 008 188, 997 177, 899 95, 676 321, 596 331, 221 299, 863 151, 949 10 25 1, 409 228 1, 157, 130 1, 082, 965 771, 98, 839, 711 22 33, 442 20, 873 18, 339 10, 420 42, 505 40, 606 36, 971 21, 040 21 189, 008 188, 997 177, 899 95, 676 321, 596 331, 221 299, 863 151, 949 10 25 1, 409 228 1, 157, 130 1, 082, 965 771, 998 839, 711 22 33 136 4, 366 1, 439 1, 199, 482 1, 198, 489 177, 778 87, 586 17, 341 20, 298 11, 275 5, 982 55, 186 48, 613 47, 584 28, 591 23 170, 399 144 179, 199, 482 1, 198, 489 171, 767 28, 599 126, 20 211, 1488 14, 728 14, 498 86, 328 179, 128 90, 594 80, 403 24 11, 275 5, 832 57, 673 39, 37, 615 48, 436 492, 985 350, 005 9, 626 7, 482 4, 402 29, 941 30, 781 297, 645 200, 525 156, 830 12, 666 77, 482 4, 400 24, 414 19, 211, 600 107, 015 123, 449 434, 491 27 180, 202 11, 488 14, 47, 284 14, 488 63, 281 79, 128 90, 594 30, 403 25 120, 625 17, 170 38, 39 10, 420 41, 199, 448 21, 983, 073 1, 279, 775 88, 43, 733 24, 434 434, 491 27, 444 444	171.104	215,501	99,024	I 20.93£	II 177 594	l 216.214	l 100_293	l 31859	tl .
144 92 30,009 651,100 547,769 427,387 473,077 16 8,539 1,753 1,036 163,903 9,108,342 8,302,488 6,317,741 6,076,853 2 1 -	27,504 288 360	28,168 270 610	I 19.233	19,679	27,58t	28.313	19,523	20,138	14
144 92 30,009 651,100 547,769 427,387 473,077 16 8,539 1,753 1,036 163,903 9,108,342 8,302,488 6,317,741 6,076,853 2 1 -	14.626	13,698	13, 153	17,036	47,085	54,883	54,289	63,446	15
2 1 1 - 802 47,533 62,185 37,780 32,283 17,807,806 8 32 - 4,361 469,841 623,824 369,087 271,427 1,407,221 1,358,382 1,037,036 1,143,124 13,272,129 13.067,116 10,117,022 9,543,527 120,293 103,738 89,745 86,186 541,725 531,398 408,346 367,104 18 1,068,944 965,804 750,778 522,811 4,784,829 4,828,643 3,195,190 2,210,468 80,784 72,827 100,733 66,811 80,903 83,242 105,887 70,545 19 374,545 349,726 440,699 256,672 375,673 388,207 459,058 271,767 18,129 12,755 8,494 55,327 18,339 12,994 8,678 5,478 52 23,112 172,044 106,444 55,273 227,179 173,706 108,837 57,330 23,442 20,873 18,399 10,420 42,505 40,608 36,971 21,040 21 189,068 188,997 177,899 95,676 321,596 331,221 299,863 151,949 10 25 1,409 228 1,157,139 1,082,965 771,998 839,711 23 33 136 4,356 1,439 1,198,482 1,983,073 1,279,778 872,325 173,341 20,298 11,275 5,932 35,186 48,613 47,584 28,591 23,597 26,262 17,170 8,879 76,760 73,653 67,253 43,733 24,102,82 117,039 58,354 29,461 310,781 297,645 20,525 156,830 12,040 11,488 14,728 14,488 63,281 79,128 90,594 85,004 32,595 10,741 86,422 88,325 75,074 337,015 483,436 422,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 12,02 11,488 14,728 14,489 63,281 79,128 90,594 83,403 24,102,104 11,103,107,11 297,645 20,525 1,56,830 12,040 14,19 21,600 107,015 123,449 434,491 27,104 109 3,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 151 100 3,398 151 116 775,295 330,337 76,27,375 202,993 151 100 3,398 151 116 775,295 330,337 76,27,479,99 5,445,514 100 3,398 151 116 775,295 330,337 76,244,545 183,010	915,360	856,514	737,468	i 746.679	II 3.014.735	3,456,379	3,048,713	2,913,304	١.,
1,407,221 1,358,382 1,637,036 1,143,124 13,272,129 13,067,116 10,117,022 9,543,527 120,293 103,738 89,745 86,186 541,725 531,398 403,345 367,104 18,068,944 965,804 750,778 522,811 4,784,829 4,828,643 3,195,190 2,210,408 80,784 72,827 100,733 66,811 80,903 83,242 106,887 70,545 19 374,545 349,726 440,699 256,672 375,673 388,207 459,058 271,767 18,120 12,755 8,494 5,327 18,339 10,420 42,505 40,698 86,78 5,478 29 223,512 172,044 106,444 55,273 227,179 173,705 108,837 57,330 33,422 20,873 18,339 10,420 42,505 40,606 36,71 21,040 21 10 25 1,409 208 1,157,139 1,082,965 771,998 839,711 22 </td <td>8,539</td> <td>1,753</td> <td>1,036</td> <td>163.903</td> <td>9,108,342</td> <td>8,302,468</td> <td>6.317.741</td> <td>6,078,853</td> <td>1.9</td>	8,539	1,753	1,036	163.903	9,108,342	8,302,468	6.317.741	6,078,853	1.9
1,407,221 1,358,382 1,637,036 1,143,124 13,272,129 13,067,116 10,117,022 9,543,527 120,293 103,738 89,745 86,186 541,725 531,398 403,345 367,104 18,068,944 965,804 750,778 522,811 4,784,829 4,828,643 3,195,190 2,210,408 80,784 72,827 100,733 66,811 80,903 83,242 106,887 70,545 19 374,545 349,726 440,699 256,672 375,673 388,207 459,058 271,767 18,120 12,755 8,494 5,327 18,339 10,420 42,505 40,698 86,78 5,478 29 223,512 172,044 106,444 55,273 227,179 173,705 108,837 57,330 33,422 20,873 18,339 10,420 42,505 40,606 36,71 21,040 21 10 25 1,409 208 1,157,139 1,082,965 771,998 839,711 22 </td <td>2</td> <td>1</td> <td></td> <td>802</td> <td>47,538 469,841</td> <td>62,185 623,824</td> <td>37,780 359,087</td> <td>32,283 271,427</td> <td>17</td>	2	1		802	47,538 469,841	62,185 623,824	37,780 359,087	32,283 271,427	17
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	1,407,221	1,358,382	1,037,036	1,143,124	13,272,129			-	
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	120 202	102 729	Po 745	96 196	EA1 798	£31 3no	400 946	267 104	١.,
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	1,068,944	965,804	750,778	522,811	4,784,829	4,828,643	3, 195, 190	2,210,468	i
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	80,784	72,827	100,733	66,811	80,903	83.242	105,887	70,545	19
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	18, 120	12,755	8,494	250,072 5,327	18.339	12,894	8,678	5,478	20
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	223.512	172.044	106,444	55,273	227,179	173,705	108,837	57,330	
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	189,068	168.997	18,33V 177,899	10,420 95,676	42,505 321,596	331,221	299,863	21,040 151,949	21
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	10			298	1,157,139	1.082.985	771,998	839,711	222
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	17.341	20.298	4,300 11,275	1,439 5 039	1,998,482	1,983,073 48 613	1,279,775 47 594	887,235 28 501	22
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	76,300	84,506	45,357	21,596	172.943	184,819	171,672	87,586	l
101,741 86,422 88,325 75,074 337,015 483,426 492,985 350,005 9,626 7,482 4,430 2,414 53,235 58,278 45,633 48,351 24,53,898 42,402 20,941 8,345 320,597 372,478 267,375 202,993 25 3,010 41 19 211,600 107,015 123,449 434,491 27,100 3,399 151 116 775,295 330,357 371,122 8,022 8,163 7,634 3,555 24,210 22,785 22,446 15,284 28,173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	35,997 162,893	26,262 117,036	17,170 88 384	8,879 20 481	76,760 310 791	73,653 207 844	67,253 220 594	43,733	24
\$3,998	12,082	11,488	14,728	14,498	63,281	79,128	90,594	80,403	25
\$3,998	101,741 9.626	86,422	88.325	75,074	397,015 53,935	483,436 58 970	492,985	350,005	-
25 3,040 41 19 211,690 107,615 123,449 434,491 27 160 3,398 151 116 775,295 330,357 359,367 771,122 8,022 8,163 7,634 3,535 24,210 22,785 22,446 15,284 28 173,833 189,180 123,667 45,549 540,313 545,530 403,654 188,010 2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	53,898	42,402	20,941	8,345	320,597	372,478	267.375	202,693	" -
8, 922	25	3,010	41	19	211,600 775 905	107.015	123,449	434,491	27
2,551,374 2,324,676 1,883,153 1,135,089 10,399,712 10,152,994 7,427,499 5,445,514	8,022 173,833	8,163 189,180	7,634 123,667	3,535 45,549	24,210 540,313	22,785 545,520	22,446 403 654	15,284 188 010	28

12.—Principal Exports of Canadian Produce from Canada to United

أ يت	Thom	United Kingdom,					
Ñο.	Item.	1929.	1930.	1931.	1932.		
	II. Animals and Animal Products—continued.						
	Furs, Hides and Leather—						
	Furs— Undressed—			1			
1	Beaver No.	36,510	37,022 1,074,736	30,122	29,4		
2	Fox, black and silver No.	952,143 19,765	28,871 2,039,252	653,660 65,618 3,082,948	422,3 90,3 2,476,7		
3	Fox, other	19,765 1,915,774 32,028	30,359	39,445	74,0		
4	MartenNo.	1,331,303 25,595	1,517,531 22,353	1,548,185 17,650	1,879,3 $16,2$		
5	Mink	748,940 36,315 614,357	723,603 51,467	366, 135 56, 260	217,6 63,8		
	MuskratNo	614,357 1,337,590	971,480 1,436,962	625,180 1 153 549	400,49 1,282,09		
7	Other	2,052,505 2,422,568	1,847,337 2,140,254	829, 923 999, 786 17, 832	793, 8 820, 1		
8	Dressed	3,728 20,451	3,395 18,314	17,832 12,961	3,46 7,69		
7	Totals, Furs	10,062,029	10,335,902	8,136,610	6,385,5		
10	Hair	123,929	85,662	13,047	11,0		
	Hides and Skins, Raw-	,	,				
11	Calfcwt.	19 370	- !	-			
12	Cattlecwt.	648 8,059	- 1	12,794 91,943	4,9 37,2		
13	Horseewt.			-,,,,,,	*-,-		
14	Sheep cwt.	48 2,627		-			
	Totals, Hides and Skins ¹ \$	11,866	8,334	92,337	37,4		
	Leather, Unmanufactured—						
15 16	Harness	1,703,244	819.195	114 292,024	451,6		
17	Upper\$	645,434 1,357,797	819,195 287,384 902,989	116,073 923,789	153,9 1,379,1		
1,	Totals, Leather, Upmanufactured ¹ . \$	2,011,513	1,201,162	1,062,592	1,571,3		
		2,011,010					
18	Leather, Manufactured—Boots and shoes	26,764	12,556	12,480	5,2		
	Totals, Leather and Manulactures of \$	2,064,514	1,276,017	1,125,073	1,706,8		
	Meats—						
19	Fresh— Beef	66 2,452	-	2,889 25,039	4,7 28,7		
20	Muttonewt.	3,432	-	20,000	20,1		
21	Porkewt.	4,707	36	966	6.8		
22	Poultry	91,930 62,157	637 46,852	15,160 9,707	71, 1 39, 2		
23	Cured, Canned or Prepared— Bacon and hamscwt.	329,754 6,636,497	241,324 5,555,743	105,249 2,278,616	150,2 1,751,2		
24	Beef, pickledcwt.	0,000,451	5,000,730		2,741,4		
25	Canned meatslb.	183,610	45,349	64,559 14,164	15,0 4,0		
26	Pork, dry-saltedewt.	76,822 9,324	10,984 46,274	5,839 127,821	11,3 101,5		
27	Pork, pickledcwt.	170,312	921,379 18	26 591	101,		
28	Soups, all kinds\$	2,001 343,656	559,582	619,840	665,		
	1 * * *		7, 169, 425	3,211,075	2,818,4		

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32—continued.

	Unite	i States.	_		All C₀	untries.		No.
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	
79,445	44,890	46,467	54,869	118,145	84,296	78,540	85, 29 6	1
79,445 2,152,918 2,980	1.348	973,066 6,604	761,217 7,606 222,448	118,145 3,156,712 30,290	2,426,613 35,618	1,664,064 95,034	85,296 1,197,208 136,294	
2,989 331,246	113,394	336,707	222,448	1 3.037.367	2,575,995	4,599,661		
1,802,086	113,394 31,024 1,007,979	24,127 664,410	31,670 639,768 10,853	79,898 3,156,205	63,841 2,577,010	2,235,269	107,540 2,051,383	3
47,357 1,802,086 21,439 691,272	9,311 978 036	664,410 8,575 174,860	10,853 155,134	48,192 1,458,195	32,409 1,019,317 97,019	26,568 540,509	27,093 279,590	4
77,309	43,615	66,507	76,994	l 115.194	97,019	64,131. 2,235,269 26,568 549,502 124,339 1,487,894	141,668	5
77,309 1,712,220 709,849	43,615 806,990 574,724 821,759 3,274,814	839,764 496,344	76,994 697,140 780,776	2,345,194 2,137,349	1,825,222 2,091,507	1,487,894 1,704,501	3,900,673 107,540 2,051,383 27,093 373,520 141,668 1,105,716 2,082,356	
1,066,417 5,347,223	821,759 3 274 814	390,963 2,088,253	622,631	3,252,169	2,782,262	l 1.264.892l		
91.7111	34.282	32,104	622,631 1,199,662 19,974 43,427	2,137,349 2,137,349 3,252,169 7,844,330 176,944 137,838	5,499,982 104,180 135,609	3,135,531 78,753 78,232	2,052,163 51,789 56,153	8
95,843	89,643	52,652						9
13,280,936	7,750,207	5,552,779	4,497,526	24,564,954	18,946,100	15,093,798	12,218,099	
273, 0 12	286,417	220,750	129,170	471,359	465,874	324,789	209,128	10
85,611 2,220,995	65,881 1,295,396	53,440	33,666 293,102 181,239 1,083,579 15,562	86,697 2,250,727	66,709 1,314,781 450,081	55,371 854,889	36,319	11
359,093 6,269,932	441,830	202,337	293, 102 181, 239	1 370,620	450,081	234,186	320,988 212,396	13
20.1014	441,830 5,711,293 32,691	824,825 202,337 1,996,189 18,569	1,083,579 15,562	6,472,291 20,101	5,842,008 32,691	234,186 2,264,891 18,569	1,300,330 15,562 60,543	13
219,476	243,389	104,003	60.2466	219,476	243,389	104,003	60,543	
20,487 453,665	14,175 248,276	7,470 82,520	3,622 36,175	20,535 45 6,293	14,176 24 8,2 96	8,130 87,935	3,622 36,193	14
9,244,131	7,572,463	3,048,355	1,500,429	9,479,691	7,730,914	3,352,967	1,745,331	
1,004,098 5,466,065 2,470,561 3,547,801	685, 157 3, 955, 491 1, 458, 481 2, 619, 897	369, 290 2, 663, 178 888, 791 1, 391, 562	51,765 930,369 160,344 610,889	1,011,957 7,647,822 3,343,558 5,157,194	691,426 5,352,068 1,967,055 3,777,127	374,034 3,196,096 1,100,933 2,555,781	53,855 1,507,546 354,523 2,359,785	15 1 6 17
7,091,188	4,812,320	2,672,487	827,797	9,591,900	6,496,951	4,077,664	2,816,587	
287,441	284,844	117,287	29, 119	383,189	373,726	202,018	52,741	18
8,005,875	5,509,521	3,169,512	1,038,481	10,656,167	7,383,375	4,758,336	3,203,116	
411.532	258,285	29,233	3,402	432.856	284,113	61.168	33.446	19
411,532 6,604,512 8,781	4,115,626 3,064	29,233 465,473 12	3,402 37,212 69	432,856 6,990,868 11,644	284,113 4,592,786 5,337	61,168 915,813 2,535	376,035	20
200.856i	72,404	191	761	260,849	F21.104:	48, 1051	33,446 376,035 3,295 53,360	
72,137 1,460,009	30,938 621,682	7,455 189,526 7,324	10,640 179,678	79,464 1,595,246	33,808 677,094 164,597	11,217 254,838	20.579	21
50,671	621,682 44,781	7,324	179,678 109,513	1,595.246 169,384	164,597	90,014	288,933 217,739	22
29,784	20,046 859,715	11,624 498,961	13.814	366,582 7 874 026	267,026 6,579,726	121,770	185, 146	23
1,054,895 7,195 106,212	9,010 135,066	1.2561	423,873 69	7,874,026 7,775 113,855 250,831	9,078	2,914,273 2,073	2,446,564 738	24
106,212 495	16.4171	21,668 15,555	983 7,723	113,855 250,831	136,083 138,923	28,266 154 808	5,582 68,879	25
149	3,213	2,522 32	3,441 32	93,759 13,002	31,999 50,808	2,973 28,266 154,806 34,019 7,057	19,382	
ا ت	235	1,100	898	250,485	1,005,186	154,553	13,088 119,694	26
903 18,887	1,089 21,984	5,915 131,674	5,969 84,628	10,061 123,917	22 1601	154,553 28,364 339,978 633,363	28, 123 258, 188 672, 857	27
20	143	58		123,917 353,730	234,581 573,925		672,857	28
10,382,736	6,446,315	1,678,486	1,010,888	19, 184, 930	15,030,671	6,104,976	4,930,816	

12.-Principal Exports of Canadian Produce from Canada to United

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No.	Item.		United E	ingdom.	
	144.	1929.	1930.	1931.	1932.
1	II. Animals and Animal Products—concluded. Milk and Its Products—	Pri 4			
2	Cream, fresh gal. Milk, fresh gal.	714 1,583	-	1.1	=
3	Buttercwt.	19 841	- 8 338	117 3,266	86,927 1,822,481
4	Cheese ewt.	1,025,387 22,639,647	831,562 16,224,694	736,286 11,896,727	813, 106 10, 005, 074
5	Milk powdercwt.	36,631 290,599	41,295 349,230	42,625 398,796	39,378 284,269
•	Milk, condensed	16,295 158,864 49,738	13,076 128,181	8,550 81,697	6,538 62,281
7	Milk, evaporatedewt.	49,738 445,993	17,832 157,499	13,584 115,142	83,475 236,644
	Totals, Milk and Its Products ¹ \$	23,537,527	16,859,942	12,496,600	12,410,749
8	Oils, Fats, Greases and Wax— Animal oilsgal.	- {	_	364	325
9	Fish, whale, etc., oilsgal.	2,149	48,951	401 592,587	256 85,380
19	Grease and scrapscwt.	927	13,405	110,213	15,974
11	Lardcwt.	291 4,330	11,633 138, 70 8	1 20	53,438 405,773
12	Lard compoundewt.	20 300	49 573	1 6	56 458
13	Tallowcwt.	_	86 558	-	15,777 47,916
	Totals, Oils, Fats, Greases and Wax ¹	6,652	154,418	118,551	474,928
14	Eggs,doz.	782,910 264,880	909,550 337,812	26,260 9,607	431,070 96,911
15	Honey 1b.	346,271 33,382	1,218,044 134,254	1,275,776 131,734	1,948,047 184,501
16 17	Sausage casings	121,991 - -	83,628	49,771	39,347
	Totals, Animals and Animal Products \$	47,644,303	40,673,780	31,173,615	32, 428, 165
	III, Fibres and Textiles.				
18	Cotton— Duckyd.	69,137	71,464	56,735 24,916	138,510 29,576
19	Other fabrics yd.	36,021 33,341 5,341	38,526 13,627 2,270	29,576 4,129	46,325 7,402
20	Underwear	19,768	32,050	29,876	24,776
	Totals, Cotton ¹ \$	127,232	218,175	203,268	191,341
21 22	Flax, hemp and jute	4,766 1,980	2,441 999	891 1,121	922 1,462
23	Raw.,	646,917 210, 570	1,044,193 222,029	681,265 99,336	3,663,063 331,346
	Totals, Wool ¹	222,550	234,517	113,928	341,006
24 25	Artificial silk	5,944 23,267	777 25,980	431 16,667 143,714	702 14,840 105,499
26	Binder twinecwt.	246,587	286,013 2,787 32,258	38,304 383,040	59,786 433,111
27 28	Bags, textile	64,531 84,936	40,762 112,931	26,048 124,822	34,570 149,849
29	Felt, mfrs	8,962 18,145	6,018 12,901	3,699 9,945	2,301 4,261
30 31	Gloves, etc., textile	2,675 4,373	7,119 1,500	8,353 15,597	2,082 88,161
_	Totals, Fibres and Textiles: \$	810,836	976,568	1,048,925	1,386,235
	1 Potale include ather items and enecified				

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

		intries.	All Co	<i></i>		States.	United	
- No	1982.	1931.	1930.	1929.	1932.	1931.	1930.	1929.
1								
ا	65,814	1,121,974	2,293,830	9 834 354	65, 814	1,121,974	2,293,270	2,833,640
51	129, 285	2,168,849	4,679,984 3,099,754	2,834,354 5,227,012	129,285	2.168.849	4,679,804	5, 225, 429
4	362,764	1,208,478	3.099.754	2.753.871	129,285 362,764	2, 168, 849 1, 208, 478	4,679,804 3,099,754	3,753,871
6	51,806 109,173	239,814	699, 190	833,678	l 51.806	239,814	699, 190	833,678
ål	2,362,888	11,629 389,419	13,094 543,851	18,892 764,836	6, 736 148, 275	702 17 016	207 8,763	2,314 71,032
7	854, 247	795, 904	922,937 18,278,004	1, 126, 092	15.747	17,016 32,701	67, 867	74, 119
71	10.593.967	12.989.7261	18,278,004	25, 181, 853	197, 483	546,691	1,498,833	1,869,525
?	48,987	55,088	1 00.110	50,147 608,466	197, 483 5, 847 133, 287	8,547 149,660	6,416	10,471
الم	491,431 74,074	645,327 119,443	579, 102 184, 795	207,869	133, 287	13,964	181, 127 10, 117	247,479 19,392
ē	865, 106	1.361.304	1,731,840	2,364,967	5	115, 783	98, 426	180, 182
6	75,396	85,640 977,825	84,985	78.548	55	5	2,103	1,240
5	623, 555	977,825	951, 150	747, 312	321	45	18,306	10,687
3	15,118,063	18,787,543	27,484,354	35,763,487	660,467	3,249,421	7,205,673	473,375
7	82,797	152, 891	56,425	124,721	1,213	22, 127	3,048	11,554
4	45,704	125, 152	52,258 3,545,725	131, 292	1.585	17,375	2,935 3,309,291	11,631
	2,530,483 396,990	3,039,524 776,419	3,545,725	4,098,518 1,742,272	2,437,859 378,809	2,434,162	1,290,373	498 764
šΙ	19,906	18,879	1,380,589 19,739	24,621	18.306	661,801 17,291	15,486	.428,764 15,330
3 I	18, 158	18,879 23,796	59,290	134 644	7,848	16,036	25,000	51,010
3	65, 103	1,720	13,957 172,856	6,930	-	48	.3	22
3	\$10,153 3,853	24,841 5,392	172,856 2,682	102,020 2,983	2,023	3 6 0 73	31 663	22 25
3	31,573	59,386	33,457	39,681	14,349	742	6,408	320
7	37,897	3,341]	9,513	32,179	19.831	3, 167	7,057	30, 619
	1,113,030	17,654	69,347 1,776,910	270,228 2,421,434	49, 239 452, 212	15,890 712,204	$-\frac{51,092}{1,380,262}$	255,487 747,436
:		186,936	- :	919,767	2,100	1,489	61,051	5,043
RI .	659,941 161,998	86.1221	1,158,835 429,280	319, 169	622	536	20, 187	1.892
5	2,672,975	1,752,628	1,710,055	1, 168, 599	33,218 3,297	37,448 4,203	55.57 31	1,892 29,251
)	2,672,975 229,710 621,243	1,752,628 167,505 646,096	175,807 955,933	96,643 1,405,745	3,297	4,203	6,278	3,328
3	621,248 187,371	209,721	956, 933 267, 343	1,405,745 260,973	383,096 182,946	381,584 239,511	504,131 267,322	881,320 260,973
7	174,707	364, 173	581,090	599,370	165,754	363, 55 7	581,025	599,370
	68,798,683	83,711,772	133,009,145	158,757,272	22,342,515	34,468,448	66,894,165	, \$43, 501
L								İ
1	373,599	351,261	545,986	488,800	568	2,445	198	783
3	118,810 998,618	210,036 690,705	272,117 426,908	238,437 549,678	3,235 2,136	8,571 8,198	980 15,383	1,151 24,370
í	996, 618 256, 760 105, 173	74.959	63,878	80.755	2, 130 714	3,313	5,559	6,069
	105,173	74,959 163,158	184,584	80,755 163,764	93	40	633	126
	729,445	763,679	842,588	701,806	12,533	26, 795	19,917	35,538
	7,891 54,351	15,974 96,416	31,072 153,280	49,583 124,610	4,876 2,847	9,034 7,442	20,706 14,487	34,999 7,463
: ا	5, 121,034 543,631	3,557,823 424,492	6,272,016 1,576,342	7,840,927 2,796,987	1, 190, 005 186, 803	2,687,651 291,815	5,088,598 1,317,604	.039,910 .530,420
1	713,499	872,582	2,025,655	3,256,693	253,866	405,086	1,434,381	, 625, 865
1		219,744	228,809	245, 231	881	4, 152	4, 166	49,839
į į	212,061 102,173	133,402	264,771	286,639	85,572	110,921	224,613	250, 529
Ĺ	331,481	602, 841 138, 750	1,632,278 136,178	1,800.885	214,474 107 183	403,456 80,987	1,216,533	,401,590 53,904
1	184,411 1,499,366	1,502,639	1,502,421	128,834 1,317,290	107, 153 924, 389	920, 430	84,634 965,295	573 . 152
4	95.4331	66,937	101,894	132,364 561,327	8	578	4,438	1,662 10,755
1	545.2791	614.848	653,514	561,327	2,543	4,404	12,568	10,755
1	40, 966 36, 461	86,883 107,468	119,234 126,903	124,457 149,513	24 35	76 11 5	99 186	462 367
	27,383	136, 253	216,376	206,091	2,614	1,234	593	604
	766, 402	866,591	826, 425	464,794	1,348	668	651	765
	5,512,130	6,504,182	9,066,226	9,476,019	1,743,794	2,068,531	2,961,130	,939,498
				,				

12.—Principal Exports of Canadian Produce from Canada to United

,, l	74	United Kingdom.					
No.	Item.	1929.	1930.	1931.	1932.		
	IV. Wood, Wood Products and Paper. Wood, Unmanufactured— Logs and Round Timber—						
1	Logs, cedar M ft.	- [-	- [-		
2	Logs, other	2,688 110,102	1,878 84,994	4,475 179,706	4,427 164,649		
3	Poles, telegraph	==-,==	-		,		
4	Railway ties	405.591 282,015	460,273 340,127	535,250 353,183	90.050 49,324		
	Totals, Logs and Round Timbert \$	392,317	425,328	532,909	214,473		
5	Sawmill and Planing-mill Products— Planks and Boards— Birch	39,573	39,302	31,739	28,709		
6	Cedar	1,465,342	1,343,322	1,056,037 276	823,552 91		
_		4,691 28,371	19,714 36,387	15,743 54,533	3,403 51,188		
7	Douglas fir	678,140	862,303	1,103,998	856,241 305		
8	Hemlock	710 18,147	3,002 59,190	1,264 27,299	7.511		
,	PineM ft.	29,906 1,989,823 86,702	25,890 1,568,965 80,115	21,229 1,297,968	17,244 1,020,390		
10	Spruce,Mit.	86,702 2,247,799	80,115 2,117,119	51,369 1,349,596	16,553 375,691		
	Totals, Planks and Boards ¹	190,862 6,676,663	187,771 6,179,125	163,995 5,122,810	117,051 3,252,621		
11	Timber, Square— Douglas fir	15,086	12,474	13,894	18,59		
12	OtherMit	307,971 2,808	284,304 3,293 302,701	270,610 2,543	289.01- 1,86		
13	Laths	262,707	302,701 113	216,657 2	134,80		
14	Pickets M	-	452	_8	49		
15	ShinglesM	1,928	278	764	11,20 57		
16	Shooks\$	6.081 41.570	1,159 89,177	2,260 120,669	1,17 137,20		
10	Totals, Saw- and Planing-mill Products ¹ \$	7,469,988	7,177,903	5,895,093	3,981,71		
17	Christmas trees		-				
18	Pulpwoodcord		-	-	-		
19	Spoolwood	640,573	688,359	498, 177	460,36		
	Totals, Wood, Unmanufactured \$	8,501,878	8,292,480	6,933,294	4, 673, 69		
	Wood, Manufactured— Cooperage\$		67	308			
20	Wood-pulp→	- I	01	_			
21	Sulphate (kraft)cwt.			115 250	200 05		
22	Sulphite, bleached cwt	138,932 609,899	160,064 688,004	115,353 463,716	238,95 782,77		
23	Sulphite, unbleachedcwt.	53,095 126,458 728,304	36,917 81,227	41,339 70,869	17,17 25,28		
24	Mechanicalcwt.	1 1.048.6961	424,873 638,639	408,660 623,638	434 ,66 616, 0 9		
25	Screenings	_	-	-	3		
	Totals, Wood-pulp ¹ cwt.	920,331 1,785,053	621,854 1,407,870	574,778 1,199,353	690,79 1,424,15		
26 27	Furniture \$ Match splints	61,440 328,289	59,447 429,540	6,117 402,463	2,60 446,61		
	Totals, Wood, Manufactured ¹ \$	2,695,827	2,427,450	2,021,321	2,188,38		
	Totals, Wood and Wood Productst \$	11,197,705	10,719,930	8,954,615	6,862,08		

I Totals include other items not specified.

Kingdom, United States and Ali Countries, fiscal years 1929-32-continued.

1929. 1930. 1931. 1932. 1929. 1930. 1931. 30,908 35,544 21,962 19,415 156,211 81,747 46,338 482,954 534,081 227,724 185,574 2,030,869 1,127,783 486,395 119,286 135,795 129,534 126,020 172,335 182,876 191,085 1,871,132 1,955,029 1,584,215 1,293,171 2,617,983 2,550,134 2,320,773 855,221 942,008 862,246 329,007 855,372 944,666 865,251	70,851 678,914 191,368 2,015,353 331,906 1,242,273 616,627 447,763	No. 1 2
1,871,128 1,955,029 1,584,215 1,293,171 2,617,938 2,550,134 2,320,773 855 921 042,008 869,946 390,607 865,379 044,606 865,951	678, 914 191, 368 2, 015, 353 331, 006 1, 242, 273	_
1,871,128 1,955,029 1,584,215 1,293,171 2,617,938 2,550,134 2,320,773 855 921 042,008 869,946 390,607 865,379 044,606 865,951	678, 914 191, 368 2, 015, 353 331, 006 1, 242, 273	_
1,871,128 1,955,029 1,584,215 1,293,171 2,617,938 2,550,134 2,320,773 855 921 042,008 869,946 390,607 865,379 044,606 865,951	191,368 2,015,353 331,006 1,242,273	2
1,871,128 1,955,029 1,584,215 1,293,171 2,617,938 2,550,134 2,320,773 855 921 042,008 869,946 390,607 865,379 044,606 865,951	2,015,353; 331,006 1,242,273	
R55 9211 Q49 AARI 969 2461 390 6A71 R86 3791 Q44 6A6! 965 9511	331,006 1,242,273	ì
6.40 000 4 0.07 4.01 5 0.01 4.01 1 0.00 10.01 0.01 0.01 0.01 0	1,242,273 616,627 447,763	3
3,443,283 3,907,649 3,601,464 1,236,112 3,444,631 3,917,536 3,610,531 663,294 782,784 535,207 467,069 1,110,557 1,447,754 1,855,016	447,763	4
3,443,283 3,907,649 3,601,464 1,236,112 3,444,631 3,917,336 3,610,531 663,294 782,764 535,207 467,069 1,110,557 1,447,754 1,355,016 586,590 664,360 494,005 370,360 909,159 1,104,835 987,351		
6,587,048 7,337,085 6,128,426 3,179,176 9,344,088 9,115,082 7,719,251	4,555,042	
48,375 50,512 25,404 19,735 88,503 90,309 58,221 2,598,934 2,740,302 1,241,235 672,664 4,097,119 4,120,462 2,348,618	48,812	5
2,598,934 2,740,302 1,241,235 672,664 4,097,119 4,120,462 2,348,618 43,460 45,915 33,694 22,214 44,760 46,974 34,532	1,517,808 22,837	£
1.840.857 1.847.315 1.223.545 710.375 1.893.753 1.904.873 1.262.949	729,814	
317.664 402.912 336.898 194.874 477.047 594.463 518.414	373,391	7
5,000,455 7,688,430 5,111,138 2,441,227 9,517,201 12,051,549 8,527,885 102,441 129,998 67,637 12,245 132,975 148,868 86,709 175,000 116 273,000 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,575 146,57	5,066,564 58,604	8
5,906,455 7,686,430 5,111,138 2,441,227 9,517,201 12,051,849 8,527,885 102,441 129,998 67,637 12,245 132,975 148,868 86,790 1,764,935 2,100,116 837,808 141,570 2,440,246 2,447,164 1,160,147 259,029 267,846 154,003 97,575 303,887 305,558 185,419	58,604 713,705 121,990	ľ
259,029 267,846 154,003 97,575 303,887 305,558 185,419 8,659,259 9,046,621 4,991,398 2,716,122 11,200,589 11,089,220 6,668,330	121,990	,
102, 441 129, 998 67, 637 12, 245 132, 975 148, 868 86, 790 1, 764, 935 2, 100, 116 837, 808 141, 576 2, 440, 246 2, 447, 164 1, 160, 147 259, 029 267, 846 154, 063 97, 575 303, 887 305, 558 185, 419 8, 559, 239 9, 046, 621 4, 991, 398 2, 716, 122 11, 200, 589 11, 089, 220 6, 668, 330 626, 455 497, 717 344, 905 242, 447 633, 087 592, 740 409, 337 1427, 065 12, 827, 106 10, 868, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869, 16, 869,	3,981,421 269,362	. 10
826, 455 497, 717 344, 905 242, 447 623, 087 592, 740 408, 337 14, 617, 055 13, 827, 106 9, 056, 616 5, 559, 872 17, 201, 126 16, 411, 999 10, 839, 240	6, 236, 644	,
1,317,167 1,419,337 975,219 597,712 1,696,110 1,807,138 1,309,483 36,378,168 38,399,785 22,935,928 12,544,924 47,663,849 49,446,887 31,598,202	905, 679 18, 766, 452	
8,659 15,498 10,086 5,166 177,365 196,036 115,727	140,600	11
172, 1251 300, 4191 181, 9661 71, 8150 3, 500, 4891 3, 859, 8341 1, 976, 0561	1,994,524 2,520	12
38 7061 64 4801 37 8781 18 4591 253 4961 275 6751 277 6491	155,653	Té
1,518,580 083,021 410,018 411,840 1,524,610 (01,600 414,816)	420,434	13
5,999,341 3,059,056 1,252,021 1,089,689 6,024,035 3,095,417 1,209,274 41,001 45,166 34,475 29,045 41,213 45,411 34,661	1,095,666 29,674	14
380.0701 399.9131 310.7371 220.5291 389.5981 404.8621 319.2151	240,029	13
2.005.589 1.668.858 I.143.477 1.024.764 2.043.137 1.696.433 1.161.760	1,038,486	15
7, 663, 419 6, 599, 361 3, 429, 148 2, 358, 671 7, 793, 271 6, 794, 494 3, 489, 164 14, 508 13, 729 8, 852 8, 250 610, 580 856, 986 554, 477	2,398,489 436,175	16
50,778,922 48,983,499 28,235,244 16,352,627 66,712,335 65,283,253 39,761,734	25, 295, 003	
303,396	325,075	17
1,406,583 1,345,692 1,164,555 832,924 1,406,583 1,345,692 1,164,555 14,187,100 13,860,209 12,040,484 8,196,144 14,187,109 13,860,209 12,040,484	832, 924 8, 196, 144	18
1,406,583 14,187,100 13,860,209 12,040,484 2,390 1,164,555 12,040,484 14,187,100 13,860,209 12,040,484 14,187,100 13,860,209 12,040,484 14,256 12,040,484 14,256 14,256 15,266 15,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16,266 16	474,622	19
72,312,271 70,947,960 47,119,304 28,427,487 91,675,675 89,717,326 60,744,984	39, 226, 465	
58,422 14,318 8,877 14,758 282,171 167,015 134,849	142,333	20
3,056,989 2,506,849 1,459,542 897,306 3,103,669 2,582,898 1,482,008	930,966	21
9.054,489 7,233,335 4,569,840 2,950,755 9,181,924 7,442,299 4,627,136 3,764,479 4,064,853 3,716,079 3,992,560 5,064,882 5,270,202 4,634,136	3,020,976 5,308,838	22
- 14.263.297 14.968.712 12.574.542 11.572.380 19.334.364 19.871.813 16.122.124	15,898,585	
8,389,739 3,491,476 2,583,991 1,580,955 4,097,438 4,150,839 3,345,575 8,525,946 8,731,699 6,370,115 3,337,995 10,223,379 10,242,265 7,997,022	2,341,810 4,565,281	28
8, 389, 739 3, 491, 476 2, 583, 991 1, 589, 055 4, 697, 438 4, 150, 839 3, 345, 575 8, 525, 946 8, 731, 699 6, 370, 115 3, 337, 995 10, 223, 379 10, 242, 265 7, 997, 022 3, 334, 694 3, 944, 792 3, 463, 432 2, 448, 590 4, 962, 998 4, 496, 587 3, 572, 092	2,883,256	24
4.492.5471 5.065.8371 4.917.3351 3.242.3781 5.541.2481 6.482.3541 5.640.9731	3,858,473	
615,875 761,513 390,299 205,534 621,478 762,328 401,659 605,316 665,412 332,773 155,862 614,807 666,227 345,061	232, 145 182, 817	25
14, 161, 776 36, 941, 595 37, 264, 995 29, 918, 865 21, 418, 920 44, 895, 717 44, 704, 958 35, 061, 689	11,762,563 27,684,782	
52, 444 40, 095 30, 292 28, 891 381, 734 342, 428 270, 252 43 392, 632 500, 240 494, 157	154,239 526,891	26 27
37,487,667 37,684,939 29,129,824 21,501,729 47,166,122 46,874,140 36,624,477	29,028,173	
109,799,938 108,632,899 76,249,128 49,929,216 138,841,797 136,591,466 97,369,461	68, 254, 638	

12.—Principal Exports of Canadian Produce from Canada to United

No.	Item.		United K	ingdom.	
140.	item.	1929.	1930.	1931.	1932,
	IV. Wood, Wood Products and Paper—con.				
1	Paper, n.o.p.— Paper board \$ Book paper	696,962	803,377	779,750	936, 242
2	Book paper cwt.	3,922 44,740	3,626	4,416	4.63
3	Newsprintcwt.	3, 136, 427	45,287 3,370,066	48, 195 2, 422, 496	39, 12- 2, 143, 330
4	Wrapping paperewt.	9,711,867 61,476	9, 265, 221 57, 129 291, 741	6,956,655 43,089	5,385,873 36,950
£	Bond and writing papercwt.	310,446	291,741 20	43,089 218,575 363	36, 956 182, 883 281
	= , ,	225 642,713	495 391,090	3,170 258,149	2,200 473,120
•	Wall paper,roll	108,990]	69,241	50,096 28,090	72,20
8	Roofing paper	8,874	-	28,090	5,05
	\$				
	Totals, Paper, n.o.p. ¹ \$	10,964,961	10,544,613	8,218,016	6,747,908
•	Books and Printed Matter—	29,788	20,497	23,880	93 879
10	Books\$ Newspapers, etc\$	156,550	163,635	152,901	23,873 100,70
	Totals, Wood, Wood Products and Paper	22,350,947	21, 450, 183	17,350,424	13,734,97
	V. Iron and Its Products.				•
11	Pigs, Ingots, Blooms and Billets— Ferro-manganese and ferro-silicon ton	_		_	2
	Ferro-manganese and terro-sincon,	_			1,53
	Totals, Pigs, Ingots, Blooms and \ ton Billets ¹ \$			-	1,53
12	Scrap iron ton	335 7,994	1,213 16,001	710 12,390	89
13	Castings	25, 185	20,825	194	3
14	Rolling-mill Products— Bars and rodston	116	56	36	-
15	Railston	11,889	6,785 —	4,373	
16	Structural steel ton		_	- [2
	\$				2,64
	Totals, Rolling-mill Products1 \$	11,889	6,785	4,373	3,25
17	Pipe and tubing	79,610	171,306	138,407 107,719 4,320	54,95 24,17
18 13	Wire	160,814 5,871	181, 136 2, 483	4,320	33
20	Engines and boilers. Farm Implements and Machinery— Cream separators.	4,015	-	1,932	38
21 22	Milking machines. Harvesters. No.	189	- 396	280	36
23	Hay rakes No.	31,489	65,306 60	49,198 27	64,57 2
	1	925	2,192 1,056	990 191	76 36
7.4	MowersNo.	60,268	66, 158	10,876	17,98
25	Reaper-threshersNo.	1,094		1,341	_
26	Cultivators No.	3,901	1,157	47 3,488	2,47
27	Drills No.	109 10,733	26,336	147 15,982	1,16
28	Harrows	23,525 33,754		5,135 15,923	8,06 21,97
29 30	Ploughs. Threshing machines.	1,460	1,516	[[45
31	I Snades and shovels ↓	199,009	14 185,641	618 149,964	130,88
32	Parts	100,000			

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

United States.				All Countries.				
1929.	1930.	1981.	1932.	1929.	1930.	1931.	1932.	No.
1,247,759	1,335,391	888,086	474,531	2,311,423	2,506,496	2,002,946	1,751,707	1
1,370 39,202,329 123,097,724	20 20 43,053,808 126,288,591	139 2,061 38,855,192	958 6,140 34,377,933	80,384 659,316 45,264,586 142,343,064	62,028 547,040 49,800,821	34,237 310,789 44,848,479 127,352,706	24,555 196,725 39,942,149	3
16,220	18, 198	110,783,516 13,082 22,039	89,389,600 13,133 22,942	142,343,004 331,518 1,814,166	145,610,519 302,384 1,655,568	282,395 1,416,482	103,003,352 244,417 1,064,923	4
83 3,300 172,204 35,994	272 6,673 137,195 31,469	199 2,997 163,736 38,622	224 3,427 129,943 23,177	4,419 41,226 2,706,413 365,696	3,403 33,255 2,716,519 399,516	2,687 23,203 1,665,046 250,212	863 9,047 1,316,297 180,607	6
434: 380, 494 345, 003	2,498 383,631 292,261	285, 966 180, 468	1,626 213,077 123,421	99,390 380,977 345,646	92,638 384,446 292,996	109,350 286,220 180,785	66,573 213,177 123,536	8
124,898,461	128,081,602	111,973,779	90,097,205	148,394,868	151,509,623	132,038,737	106,750,055	
114,732 848,538	131, 107 819, 289	119,404 603,716	102,843 340,641	174,141 1,200,694	188,052 1,264,276	166,834 1,023,369	162,746 566,574	10
235,665,010	237,669,413	188,549,408	140,473,352	288,621,745	289,566,675	230,604,474	175,740,269	
53,592 3,792,142	66,891 4,534,454	31,900 1,976,892	18,811 999,583	54,143 3,840,780	66,995 4,543,649	32,166 1,994,536	19,166 1,029,797	ш
54,602 3,809,298	75,183 4,687,073	32,247 1,983,646	21,982 1,055,516	56,311 3,884,106	76,531 4,727,137	34,061 2,039,983	22,337 1,085,730	
85,068 911,465 43,315	86,326 948,756 240,141	30,619 246,985 62,297	22,752 130,851 30,241	101,942 1,120,029 90,839	122,832 1,424,071 275,767	36,031 311,689 83,266	24,584 148,029 37,323	12 13
2,377 114,345 3,822 135,561 46	1,638 76,640 2,447 63,489 45	779 34,560 9,255 201,556	288 11,918 200 6,053	24,743 847,248 3,879 137,653 463	17,522 663,568 19,620 658,724 2,490	5,903 284,551 22,815 613,729 2,346	749 34, 190 9, 333 244, 876 405	14 15 16
4,606 257,913	143,902	238,662	19,280	57, 165 1, 057, 119	347,158 1,681,814	291,784 1,148,608	42,906 331,812	
745, 223 2, 344 31, 691	419,839 7,292 11,659	625, 925 6, 957 15, 732	415,686 3,448 61,114	2, 222, 432 951,750 235,608	2,202,769 909,540 397,022	1,652,280 531,367 160,125	1,068,481 122,447 106,632	17 18 19
11,620 382,434 367 60,454	9,416 633,226 866 154,745	8, 150 268, 012 472 96, 177	3,402 88,781 79 38,917	1,982,689	37, 339 633, 226 12, 098 2, 230, 336	30,792 269,637 3,787 682,303	5,660 90,168 1,675 323,426	20 21 22
668 19,740 1,008	616 18,475 1,328	351 10,336 662	173 5,910 182	3,460 128,854 10,580	3,976 139,369 13,448	1,748 61,064 6,318	465 13,783 2,218	22 24
53,057; 1,029; 1,028,141; 5,540	69, 895 571 523, 777	34, 423 22 33, 429 558	9,991 132 122,716 638	625, 168 2, 472 2, 471, 678	823,499 2,535 2,702,355 17,144	380,842 367 471,144 8,971	115,662 165 163,381 1,853	25 26
5,540 475,418 1,255	1,004 63,483 1,893	21, 163 885	46,533 179	14,335 799,887 7,000	5,586	450,521 1,460	134,357 612	27
176,321 298,505 503,057 126,884 2,177	242,354 212,014 888,546 316,440 900	117,578 49,245 796,842 193,605	21,099 14,383 93,655 169,191	1,176,517 522,497 3,272,043 326,114 295,128	898,412 476,584 4,798,183 577,953	207, 291 142, 230 1, 564, 462 401, 873 135, 894	87, 474 34, 342 303, 843 236, 015 86, 522	28 29 30 31
1,143,349	828,877 4,118,842	291,490	133,665 794,012	3,064,433 15,870,918	194,949 3,117,364 18,396,688	1,755,694 7,188,078	655, 261 2, 484, 965	32
4,001,300	7,110,042	a, 000, 700	*81,012	10,010,818	10,000,000		2, 201, 303	

12.—Principal Exports of Canadian Produce from Canada to United

	_		United K	ingdom.	
No.	Item.	1929.	1930.	1931.	1932.
1	V. Iron and Its Products—concluded. Hardware and Cutlery— Razors and razor blades	3,100	66,375	52,723	100
2	Nails, wire	998 3,398	120 325	82 877	68 448
3	Nails, other cwt.	394 4,446 531,084	509 6,667 400,716	180 2,752	193 1,850
4 5	Needles and pins	531,084 1,358 2,093	400,716 11,357 18,301	316,600 2,474 5,709	446, 201 237 193
	Totals, Hardware and Cutlery 1 \$	677,520	606,773	468,485	513,112
6	Machinery— Electric vacuum cleaners	26,653 1,127,075	34,091 1,426,884	42,243 1,706,818	49,966 1,827,241
8	Sewing machines	85 1,288 102,909	135 2,089 174,602	120 592 51,272	343 513 38,616
9	Typewriters	3 265	6 325	416 38,786	1,346 95,462
	Totals, Machinery ¹ , \$	1,378,908	1,887,570	2,071,926	2,328,594
10	Tools, band or machine\$ Vehicles— Automobiles, freight—	29,469	32,623	20,518	28,715
11	One ton or less		-	- 1	_
12	Over one ton	$\frac{2}{2,280}$	-	421	-
13	Automobiles, passenger— \$500 or less	2,485 642,060 4,794	2,412 734,445 1,741	259 106,3 5 4	104 48,572
14	\$500 to \$1,000 No.	4,794 3,317,145	1,741 1,220,686	651 408,052	136 88,449
15	Over \$1,000, No.	1,278 1,504,237	840 1,045,899	12,320	5, 155
	Totals, Automobiles No.	8,559 5,465,722	4,993 3,001,030	917 527, 147	243 142, 176
16 17 18	Automobile parts	120,551	58,330 365	76,028 	20,980
	Totals, Vehiclest	5,587,624	3,061,383	603,881	163,866
19 20	Chains	40,096 25,981	27,657 4,303	28,092 15,001	28,940 17,117
	Totals, Iron and Its Products: \$	8,721,020	6,848,000	4,073,233	3,798,363
	VI. Non-Ferrous Metals. Aluminium—				
21	Serapewt.	460 7,246	3,465 56,519	4,237 58,219	474 5,77t
22	Bars, blocks, etcewt.	74,698 1,420,944 47,275	56,519 122,289 2,340,294	63,909 1,319,300 175,248	107,076 1,682,428
23	Manufactures\$	47,275	180, 196	1	16,587
24	Old and scrap, ewt.	3,575 38,581 165,673	2,870 30,105 185,106	2,402 24,666	621 3,352 104,866
25	Valves	l			147,339
24 27	Fine, in ore, matte, regulus ewt. Blister ewt.	214,321 1,603,291	71,041 667,973	20,504 205,049	1,472,397
28	Old and scrap	1,716	348	3, 135	482
29	Barscwt.	18,478 32	4,175 67	28,165 2,244	2,850 205,898
30	Wire, insulated	1,380 17	2,687 150	26,339	1,575,756
	Totals, Copper ¹	1,623,376	675,117	259,587	3,051,003

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32—continued.

								_
	United	l States.			All Co	untries.		No.
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	110.
2,782 9,552 9,552 588 471 94,235 95,404 110,483	2.559 8,714 433 4,673 778 97,958 88,206	4,860 701 2,583 567 5,421 897 149,190 126,004	30 320 1, 197 160 1, 210 60 159, 432 102, 985	633,568 69,284 245,441 18,243 124,672 612,077 103,156 111,271	537, 362 54,787 188, 406 27, 738, 162, 629 502, 164 123, 399 132, 126	525, 371 31, 552 115, 623 19, 225 110, 776 382, 776 163, 555 150, 921	17, 227 13, 968 53, 229 6, 634 49, 590 502, 380 168, 468 116, 664	1 3 4 5
5 155 4,144 8 3,217 31 1,856 272,304	23 685 3,587 134 13,990 325 1,938 377,729	9 7,279 3,595 3 440 87 8,226 350,532	4 674 2,618 4 305 49 1,706 135,987	39,556 1,697,642 4,333,533 4,056 408,289 1,089 54,948 7,337,075	50, 874 2, 067, 328 3, 211, 969 4, 003 402, 179 1, 234 68, 614 7, 154, 706	52,557 2,099,333 1,851,210 1,423 148,405 1,433 91,260 5,542,753	52,989 1,925,130 692,447 761 60,230 1,531 103,768 3,675,623	7
29,090 3 585	51,982 : 12 1,200	10,817 18 3,085	13,204 14 2,015	267,358 22,165 7,871,430	284,800 21,447 8,465,601	161,091 3,961 1,305,592	107,765 1,660 545,964 1,208	11
5,682 131	7 5,429 249	1,935 317	2,500 348	9,293 3,923,304	8,235 3,611,278 36,220	9,563 3,907,656	513,307	13
30,612 34 25,072 7	54,688 39 27,121 17	73,168 44 31,266 5	86,066 48 34,746 10	54,561 19,219,420 15,723 9,894,681 1,824	13,856,685 18,023 8,201,565 936	17,999 6,818,126 5,859 3,669,333 145	4,889 1,902,392 1,047 608,680	13 14 15
10,400 179 72,351	25,281 324 113,719	12,000 387 121,454	17,493 419 142,820	2,150,898 103,566 43,059,733	79,861 35,307,645	178,533 37,527 15,879,240	48,908 8,839 3,617,251	
143,620 3,205 9,433	66,399 8,975 14,154	54,471 4,052 15,227	67,689 14,196 8,276	2,383,193 208,480 20,361	2,298,742 31,897 17,595	1,250,043 204,604 19,123	714,222 26,419 8,774	16 17 18
230,881	208,557	197,400	235,165	45,773,770	37,755,351	17,418,283	4,384,849	
12,316 38,582	3,776 72,256	206 33,491	508 9,895	164, 144 129, 578	168,758 152,692	112,809 108,162	91,597 78,512	19 20
11, 157, 421	_11,635,491	6,118,126	3,097,883	82,256,717	78,589,580	35,937,661	15,462,977	
11,936 97,677 218,924 4,323,108 3,982 118,008	5,260 52,417 291,454 4,887,230 17,459	7,859 62,804 101,114 1,639,342 2,596 45,175	15, 672 154, 559 16, 887 248, 571 4, 431 28, 571	25,173 316,372 438,099 8,608,247 719,575	32,521 486,790 771,919 13,828,010 2,107,390 112,397	32,476 395,876 323,984 5,791,984 1,180,896	31,053 322,684 194,559 3,161,608 281,260 30,792	21 22 23 24
118,008 1,072,671 4,725 641,585	108,516 1,040,551 1,677 749,481	45,175 299,341 453 593,447	114,158 351 334,691	131,866 1,200,737 272,300 855,906	112,397 1,082,938 288,663 820,846	335,095 196,191	30,792 123,975 148,823 502,237	25
6,332,888 1,087,012 16,754,159 66,473 734,466 32 812	8,096,900 1,430,996 25,988,654 119,655 1,648,737	5,256,490 1,144,962 15,618,000 40,811 339,852 150,958 1,617,767	2,402,259 309,929 2,269,338 34,015 165,180 1,141,797	7, 938, 173 1, 218, 517 18, 968, 309 73, 573 825, 672 1, 476 37, 892	8,769,586 1,575,438 28,965,827 122,693 1,692,472 1,738	829, 971 5, 629, 512 1, 144, 962 15, 618, 000 54, 313 463, 548 155, 645	4,076,854 309,929 2,269,338 53,494 283,959 1,588,793	27 28 29
565	1,461	1,421	9,559,684 238	253, 163	48, 181 136, 709	1,703,703 58,401	13,057,733 76,479	34
23,829,452	35,739,195	22,834,707	14,398,526	28,046,684	39,628,652	23,483,044	19,802,750	

12.—Principal Exports of Canadian Produce from Canada to United

	Th		United K	ingdom.	
No.	Item.	1929.	1930.	1931.	1932.
-	VI. Non-Ferrous Metals—concluded.				
1	Lead— In ore	-	-	-	
ż	Pigewt.	1,166,492	1,005,874	955, 894	952,096
-	Nickel—	4,746,588	4,341,596	2,853,605	1,869,509
3	In ore, etcewt.	273, 254 4, 097, 726	128,493 2,222,709	310,795 5,594,190	194,348
4	Nickel oxide cwt.	2,066 55,843	2,445 58,288 7,346	1.055	3,478,681 1,472
5	Finecwt.	28,318	7,346	25,284 7,723	31,034 2,935
	Precious Metals—	996, 390	256,803	279, 269	102,353
3	Gold-bearing quartz, gold dust, etc	21,631 1	4,428	19,840 1,612,720	937,367 16,546
8	Silver in ore, concentrates, etc	66 -	352,315	1,612,720	1,322,510
•	\$ Silver bullion	478, 214	168,588	-	142,456
•	.	272,583	92,000		39,340
	Totals, Precious Metals ¹ \$	339,891	489,988	1,650,446	2,330,012
10	Zinc— In ore, etccwt.	_	- \	-	_
11	Speltercwt	271,432	591,667	1,167,993	1,425,420
12	Scrap, dross and ashescwt.	1,410,394 3,304	2,732,922 5,128	3,434,377 4,671	3,209,143 2,166
	Electric Apparatus—	13,528	18,378	11,471	3,149
13 14	Telegraph, telephone, radio apparatus	20,650	13,715	8,637 7,003	52,500 16,656
15	Spark plugs, magnetos, ignition apparatus.	151,943	156,881	164,457	158,074
	Totals, Electric Apparatus ¹ \$	298,649	274,496	229,958	271,711
16	Cobalt in ore,cwt.	634 124,500	580 111,413	144 28,800	208 12,496
17	Cobalt, metalliclb.	18,000 41,000	10,000 25,000		
	Totals, Non-Ferrous Metals! \$	16,347,438	15,404,363	17,153,570	17,266,439
	VII. Non-Metallic Minerals.				
18	Asbestoston	6, 151 504, 555	2,850 323,417	3,416 249,869	1,658 126,706
19	Asbestos sandton	1,729 34,904	2,511 60,225	2,873 69,797	1, 105 24, 647
20	Ashestos mírs	10,233 43,783	82.882	124, 252 275, 154	59,631 123,643
21 22	Porcelain insulators \$ Other clay and products \$ Coal (incl. lignite) ton	223	138,406 1,182	2, 164	872
23	Coal (incl. lignite)ton	20,870 148,338	25,147 187,912	14,552 99,943	7,515 48,954
	Coal Products— Coketon		-	_	
24	1	[_ '	
25	Targal.		200 144	-	
26	Creosote oilgal.	_	_	_	_
27 28	Glass and glassware. \$ Graphite	96,702 146	47,996 128	117,914 155	95,801 500
40 29	Mica splittings	1,488	1,206 60	1,188 18	2,900 30
29 30	Other mica	3, 0 05 3,707	3,510 1,298	1,230 80	1,650
	Petroleum and Its Products— Petroleum, crudegal.	7,242,258	8,526,834	7,204,979	1,424,780
31	·	493,404	505, 224	341,921	63, 562
32	Kerosene, refinedgal.	[-	1,292		_
33	Gasolene and naphthagal.		233		
	Totals, Petroleum and Products! \$	499,460	518,009	353,414	77, 163

^{*} Totals include other items not specified.

===	0										
_ _ N		untrice.	All Co	R		d States.	United				
	1932.	1931.	1930.	1929.	1982.	1931.	1930.	1929.			
											
17	44,21	219,624	201,127	146, 622	44,027	212,667	200,751	145,583			
64	176,96	1,100,376	1, 192, 732	879,148	176,064	1.086.089	1.190.932	872,914			
94 98		1,985,308 5,944,144	2,178,016 9,445,155	2,533,822 10,251,187	-	}	7,795 39,619	81 296			
- 1	'				40 500		l				
77	286,586 5,231,27	423,835 7,725,696	293,657 4,819,695	405,842 6,085,934	40,768 732,606	76,387 1,377,768	164,290 2,576,761	132,588 1,988,208			
88:	25,588	34,038	99,452	95,829	1.960	1 0,007	16,211,	16 827			
23	231.623	991,254 361,420	3,035,249 672,066	2,919,048 573,151	41,175 205,143	167,466 322,414	311,408 610,010	318, 782 470, 471			
48	6,063,148	9,529,425	17, 180, 031	14,875,515	5,119,742	8, 126, 991	14,943,549	11,181,954			
65	13,671,565	17,832,608	34,375,003		12,734,198	17,824,142	34,375,003	12,371,060			
47 99	13,671,565 17,147 1,370,633	17,832,608 21,332 1,730,661	4,503 357,748	765 52,158	138		29 1,833	764 52,092			
211	1 2 752 121	7,994,815	7,390,017	6.517.822	3,752,121	7,953,061	7,244,184	0,378,780			
38J	1,055,738	3,098,337	3,878,703	3,671,422 14,250,979	1,055,738 3,074,456	3,085,514	3,805,786 1,863,156	3,596,903 3,123,069			
00	14,001,510 4,104,790	16,701,012 5,828,879	15, 186, 751 7, 691, 152	8,291,506	924, 726	4,933,792 1,617,700	933,073	1,818,005			
ũ	20,446,311	28,832,299	46,746,390	24,853,191	14,927,591	22,831,444	39,513,806	18,234,110			
7						· · · · ·					
- 1	_	427,003 801,096	299,922	225,212 1,439,278		~		105 659			
8 1	2,307,298	1,745,176	1,628,885 1,355,517	1,275,076		-	- 1	-			
12	5,254,112 7,211	5,122,994 39,063	6,488,679	6,652,637 70,895	660	29,736	67,788	63,9 6 0			
11 1 35;	7,535	64, 130	75, 152 249, 148	214,932	1, 168	48,263	229,041	197,043			
26 1	186,826	204,369	_	_	17,084	43,460	-				
37 1	504,687 255,726	204,369 725,543 297,362	765,648 460,129	652,605 459,158	625 431	2,215 841	4,997 724	9,502 1,501			
-1											
_	1,297,098	2,009,389	2,521,045	2,400,838	40,780	96,567	107,229	94,816			
	2,171 126,006 55,510 68,746	4,224 397,158 27,000	3,601 450,114 267,800	4,364 841 022	344 16,286	171 10,886	255 18,449	1 103			
10 1	55,510	27,000	267,800	261,548	55,510	27,000	257,800	243,548			
6	68,746	45,406	516,889	492, 968	68,748	45, 406	491,889	451,968			
<u>*</u>	69,672,888	95,652,063	151,319,429	113,778,194	36,176,490	58,835,683	101,728,976	63,221,556			
io 1	62,050	100,228	136, 333	134,062	37,415	67,389	85,247	85,477			
i8i	3.437.088	5,921,357	9,560,889	9,090,392	1.772.076	3,531,310	85,247 5,588,201 141,733	5 461 053			
9 1	85,099 1,191,029	119,318 1,798,617	150, 164 2, 513, 176	134,807 2,176,796	79,466 1,072,423	110,357 1,594,577	2,309,631	126, 196 1,977, 836 26, 015			
0 2	105,420 246,781	1,798,617 178,252 463,211	2,513,176 137,833	76,043 147,279	10,331	1,594,577 12,549	16,317	26,015			
101 2 2	85, 590	95,597	249,457 103,164	147,279	407 68, 971	711 78,591	692 84, 478	161 135, 175			
9 7	357,289 1,872,200	562.4341	755,846 3,998,692	879, 170	165, 232	185, 665	370,012	463, 281			
1		2,976,426		4,523,985	732,878	882,258	1,720,688	2,077, 199			
7 2	31,647 361,971	56, 396 739, 225	52,110	42,559	31,253 358,285	56, 182 737, 743 292, 549	51,715 687,071	42,419 638,847			
4 %	2,279,254	2,751,619	690, 495 4, 582, 309	640,078 3,256,681	425,836	292,549	335,532	375,009			
3	103,913	122,087 1,069,469	177,885	246,081	31, 138	22,393 1,069,359	26,359	28,110 1,128,052			
6	491,600 82,716	163.868	1,016,432 158,837	1,128,152 183.926	491,600 82,716	163,8181	1,016,432 158,837	183,850 11,473			
5! 27	170,815	163,686 30,298	104,440	183.926 157,227 19,100	82,716 6,320 18,412	9,311 30,142	158,837 20,712 43,959	11,473 18,932			
5 ~	18,914 46,395	76, 5617	44,087 122,702	45,6861	43,478	75, 333	121.490	43,995			
5 21	85 5, 192	1,022	1.4351	1,748 83,641	3, 54 2	1,004 40,721	1,375 72,540	1,658			
9 24	32,049	41,951 44,760	76,050 115,521	93,556	31,768	43,910	112,642	80,636 89,415			
		21,790,367	25,078,076 1,281,294	24,065,888	8,238,592	12,445,991	14,767,901	16,274,142 765,683			
9 2 3	11,452,470 462,009 502,532	962,768 961,262	1,281,294 1,238,431	1,308,623 1,501,863	282,728 21,134	487,622 6,801	651,149 35,453	765,683 3,281			
8	502,532 54,303	93,824	124.309	1,501,863 147,455 4,035,744	2,610	995	5,178	557			
0 34	5,349,030 853,800	6,429,080	5,071,177 950,130	4,035,744 724,385	1,694,610 267,206	2,535,309 405,109	2,343,013 468,439	1,098,976 224,416			
	1,620,904	1,063,811 2,312,034	2,527,178	2,326,212	734, 296	987, 405	1,215,157	1,065,788			
-1	4, 420, 207	2,012,007	-, -, -, 1.0	_,,,,,,,,				.,,			

12.—Principal Exports of Canadian Produce from Canada to United

No.	T4		United K	ingdom.	
190.	Item.	1929.	1930.	1931.	1932.
1	VII. Non-Metallic Minerals—concluded. Stone and Its Products— Abrasives, artificial	64,866	82,988	23,320	30, 107
2	Cement, Portlandcwt.	239,495	289,380	93,819 -	100,528
3	Gypsum, crudeton	_ []	-	-	
4	Limecwt.	-		-	
5	Feldsparton	6	20 940	-	
6	Sand and gravelton	180 -	-	ļ	
7	Taletale	14,915 8,861	18,608 15,260	13,901 11,562	21,052 16,421
	Totals, Non-Metallie Minerals! \$	1,771,253	1,952,156	1,548,819	891,408
8	VIII. Chemicals and Allied Products. Acid, sulphuriccwt.	-	_	_	
9	Acids, other	181.636	315,380)	- 102,115	190.978
10 11	Drugs, medicinal	181,636 2,155,707 295,935	2,841,150 335,224	890,328 243,238	1,302,102 262,902
12	Fertilizers— Ammonium sulphatecwt.		-	-	-
13	Cyanamidewt.	-		-	=
	Totals, Fertilizers ^t		<u></u> -l	-	
		196,044	124,604	125,050	127, 154
14 15	Paints, pigments and varnishes	3,864,470 523,422	4,729,321, 624,438	3,562,969 424,720	4,784,007 421,675
16	Chemicals, Inorganic, n.o.p.— Arsenic, n.o.pwt.	-	-	-	
17	Acetate of lime,cwt.	2,283 7,198	= = = = = = = = = = = = = = = = = = = =	=	
18	Soda and sodium compoundsewt.		-	-	_
19	Cobalt oxide and saltslb.	111,022 160,835	86,000 170,950	154,500 290,025	154,000 180,455
	Totals, Chemicals, Inorganic, n.o.p.1 \$	173,421	176,589	292,128	188,404
	Totals, Chemicals and Allied Products ¹ . \$	4,035,885	4,888,740	2,714,386	3,130,795
20 21 22 23	IX. Miscellaneous Commodities. Amusement and sporting goods. Brushes. Containers. Household and personal equipment.	39,699 59,291 4,098 209,68 2	43,792 45,168 6,777 286,852	37, 176 11, 739 12, 818 558, 865	34,147 16,678 7,320 417,217
24	Musical Instruments— Organs	31 3,297 16	18 2,352 10	36 3,812 5	265 10
25 26	Other	5,370 25,742	3,330 8,164	2,050 7,576	3,243 3,303
27 28 29 30 31 32	Scientific and Educational Equipment— Cameras. Films. Ships and vessels. Works of art, paintings. Contractors' outfits. Electrical energy. M k.w.h.	6,057 2,049,518 2,593 45,155	265 2,006,728 2,214 26,592 5,102	15 2,006,254 2,643 21,757	1,609 2,070,650 5,442 25,940
33	Too] [_	-	_
34	Settlers' effects	427,508	474,126	363,654	424,417
	Totals, Miscellaneous Commodities \$	2,941,722	3,030,584	3,077,474	3,079,284
	Totals, Exports, Canadian Produce: \$	429,730,485	281,745,965	219, 346, 499	174,043,725

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32-concluded.

- No		mtries.	All Co			States.	United	
- 100	1932.	1931.	1930.	19 2 9.	1932,	1931.	1930.	1929.
6 1 0	638,556 1,504,870	1,047,807 2,577,730	1,542,895 3,775,924	1,327,797 3,446,155	605,345 1,394,218	1,022,291 2,475,674 11,292	1,449,204 3,454,453	1,237,428 3,088,318 115,283
अ। ३	335,663 104,757	662,852 203,811	3,775,924 837,269 256,552	3,446,155 934,949 339,267	1,949 1,249	11,292 6,808	4,460 3,643	115, 283 78, 674
41 :	597.474	704 939	255,931	868,044	597,474	I 704 939	855,931	868,044
6 .	736,539 273,026	848,778 420,207	1,048,130 456,810	1,240,489 443,100 391,797	736, 539 270, 641	848,778 397,252 399,796	1,048,130 433,308	1,240,439 427,074
7 5	272,007 11,945	416,059 11,223	419,522 28,481	[28,618]	269,854 11,920	11,173	401,631 28,382	380.176
3	96,053 473,370	88,365 2,580,624	231,941 1,909,395	229,970 792,141	95,473 473,370	86,965 2,580,594	228,631 1,909,335	28,547 227,990 792,106
21	142,792	463,816	443,537	230,443	142,792	463,756	442,936	230, 172
8 1	159,074 84,548	157,910 90,079	223,591 135,456	225,457 138,390	137,320 67,556	141,399 76,938	201,571 118,528	202,374 124,400
Ĭ	13,456,701	21,107,780	28,545,096	27,401,790	8,233,323	13,255,258	18,462,256	17,994,5 15
6 8	20,566	11,828	152,319	245,339	20,510	11,802	152,259	245,307
9	20,566 19,500 336,808	6,553 276,273	152,319 81,580 616,002	245,339 139,128 457,196	19,316 143,506 770,575	6,449 170,791	152,259 81,495 296,062	245,307 138,927 269,917
7)	2,093,467	1.874.603	5.014.949	4,101,544	770,575	6,449 170,791 955,098 16,772	2, 133, 152	1,882,549
	471,086 53,666	560,485 238,709	779, 625 235, 187	660,667 216,557	9,097 304	3,496	17,683 405	12,063 500
1,2	218,658 313,889	182,863 298,811	448,339 783,890	318,040	98,784	88,062	135,222 209,539	83,492 151,094
LI 18	950,411	1,987,607	4,337,370	318,040 637,149 3,065,812	98,784 146,354 925,733	88,062 134,311 1,956,754	4,092,512	3,041,524
3	1,143,693	3,094,734	7,080,718	5,367,298 6,078,038	1,131,889	3,039,292	6,614,541	5,318,671 5,535,837
-1	1,946,185	3,698,774			1,752,252	3,463,289	6,968,540	
14	336,010 6,243,737	400, 191 5, 258, 217 612, 692	503,453 5,038,593 694,256	529, 293 4, 046, 785 562, 836	50,199 349 70	43,204 -	51,922 1,187 238	74,714 715 159
1	564,672 32,102	· [26,908	-		90 792		
1	117,978	22,723 83,750 27,752	106,070	34,965 134,078	32, 102 117, 975	83,750	106,070	134,073
sl	30 105	118,239	82,179 354,602	115,852 445,845	- 1	22,723 83,750 27,752 118,239	26,908 106,070 82,179 354,602	34,965 134,073 113,569 438,647
18	760,030 2,841,609	680,593 2,870,365	922, 132 4, 208, 518	747,338 3,919,560	487, 167 1, 105, 845	1.309.251	614,873 2,327,562	433,971 2,022,607 156,850
19	317,346 381,531	287, 105 536, 135	244,800 479,780	342,797 617,535	121,346 145,591	102,905 187,890	105,000 199,500	156,850 300,993
-1	3,859,592	4,302,406	5,908,405	6,037,777	1,380,911	1,768,773	3, 116, 177	3,031, 182
•	10,535,038	12,825,852	22,468,462	13,438,044	4, 123, 489	6,361,691	12,525,510	10,779, 475
20	79.843	122,569	131,503	128, 203	23,890	41,485	46,208	55,636
21	56, 513 361, 204	67,463 505,800	111,920 616,213	120,060 572,701	78 97, 955	101 163,991	1,117 218,969	563 199,524
23	719,744	1,001,055	820,831	676,313	66,599	118,339	99,831	100,224
24	76	177	232	270 242,276	13	13	174 021	217 17
25	97,197 66	154,684 122	197,969 837	1088	80, 140 30	115,216 39	174,821 57	217, 131 72
26	15, 102 62, 651	28,616 118,957	218,800 229,512	228,426 297,188	7,330 17,086	9,892 10,093	17,725 12,215	26,169 10,995
27 28	13,777 4,011,672	4,103	8,266	128,040	1,157	1,944	3,424 1,928,730	5,905 1,330,140
25 25 30	512,678	4,250,536 562,719	4,790,619 901,269	4,265,322 209,187	992,713 141,239	1,348,721 155,859	83,9571	100,101
30 31	95,105 201,451	129,504 442,319	121,672 379,046	138,455 421,969	66,562¥ 195,717	96,669 416,842	88,846 364,659	81,504 388,154
32	201,451 1,041,094 2,710,410	442,319 1,697,814 4,453,280	1,499,123 4,028,154	1,442,993 3,938,182	1,041,041 2,706,661 108,039	416,842 1,697,763 4,449,711	1,499,087 4,025,233	388, 154 1,442, 932 3,935, 899
33 34	2,710,410 108,354	4,453,280 112,733 5,604,055	124,854 6,304,199	162, 139 5, 917, 625	108,039 3,296,497	112,635 4,960,021	124,854 5,540,202	161,720 5,197,067
91	3,970,005 13,367,251	18,115,846	20,057,438	18,263,813	7,360,570	12,359,000	13,336,314	12,342,976
			,,		.,,		,,	

No.	Item.		United K	ingdom.	
110.	item.	1929.	1930.	1931.	1932.
	I. Agricultural and Vegetable Products. A. Marney Food.				
	Fruits -		i		
1	Fresh— Applesbrl.	100	-	- 1	
2	Bananas bunch	914	-		
2	Cranberries. brl.	-	<u>-</u>	-	
	* 	-	700	-	
*	Grape fruit		39	-	
5	Grapes, lb.	246,817 28,782	240,605 26,106	138, 0 40 11,762	231,54° 13,94°
•	Lemonsbox	4,317 13,326	10,544 48,533	2,872 11,042	9,22 40,01
7	Melous	325 63			_
8	Oranges box	8,015 38,191	58,603 211,038	83,437 373,700	46, 137 66, 98
,	Peacheslb.	90, 181	211,000	4,500	00,30
10	Pears lb.	7,000	-	356 11,880	
11	Pineapples \$ Plums bush.	682 		1,182 -	
12	Plumsbush.	-		-	
13	Strawberries	-	-		
	Totals, Fresh Fruits ¹ \$	83,910	289,123	398,765	121,13
	Dried-				
14	Currantslb.	1,160	1,684 226	21,606	$\substack{1,36\\19}$
15	Dateslb.	192 5,486,205	7,432,110	21,606 2,290 8,460,711	8,817,56
16	Figs lb.	236,591 876,049	300,148 322,360	314,067 70,155	255,04 8,02
17	Peaches	53,765	19,778 8,750	3,425 38,540	34 91,47
18	Prunes and plums	- 1	864	3,974 1,953	4,98
19	Raisinslb.	210 042	926 471	123 46,045	387,75
10	**************************************	310,863 25,396	236,671 16,787	3,277	22,87
	Totals, Dried Fruits ¹ \$	330, 263	365,117	359,821	302,08
20	Салиед 1b.	66,898	138, 156	598,535	67,23 3,55
21	Jellies and jamslb.	5,190 1,061,771	8,369 1,256,632	26,025 965,973	558, 15
22		141,892 8,364	161,094 19,457	106,303 10,175	62,24 9,82
	,	24,013	31,519	21,993	23,51
	Totals, All Fruits ¹ \$	616,284	877,825	939,980	544,66
23	Nuts— Coco-nuts				
24	1	4,146	1,317	144	_
25	Coco-nut, desiccated		440 50	4,318 692	7,39 68
26	Brazil nuts, not shelledlb.	279,170 41,950	332,581 34,243	240,990 30,929	359,99 28,32
27	Peanuts, green, shelled or not lb.	41,800	37,213	38,394	7,46 24
28	Walnuts, not shelled	1,630	934	1,697 4,214	24,48
29	Almonds, shelledlb.	242 115,521	164 114,073	514 112, 139	2,52 60.65
30	Walnuts, shelled	56,755 12,555	52,200 18,364	41,715 12,268	19,24 29,82
	*	4,135	6,471	3,434	8,10
	Totals, Nuts ¹	190,249	218,006	153,683	104,39

¹ Totals include other items not specified. ² Quantities are in cubic feet in 1932. ² Quantities are in lb. in 1932.

Kingdom, United States and All Countries, fiscal years 1929-32.

	United	States.			All Cot	ıntries.		No.
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	
190, 622 917, 148 3, 531, 015 5, 204, 202 21, 639 1241, 371 19, 945, 982 833, 007 38, 980, 103 1, 573, 547 233, 517 1, 330, 500 5, 735, 066 5, 722, 382 2, 256, 797 9, 893, 629 20, 734, 458 625, 848 625, 154, 549 861, 231 1, 188, 351 2, 055, 991 24, 015, 896 1, 133, 056 26, 188, 350, 788 234, 591 1, 193, 351 6, 529, 351 1, 527 2, 708, 485 8, 680, 870 768, 553 1, 188, 122 1, 039, 351 496, 290 251, 392 582, 119 8, 552, 251	135, 024 589, 897 768, 270 1, 256, 787 192, 183 26, 243, 904 1, 085, 416 32, 366, 331 1, 084, 127 259, 030 1, 073, 310 7, 374, 310 2, 080, 218 81, 281, 741 11, 836, 325 683, 208 581, 041 11, 055, 349 581, 035 581, 035 583, 035 583, 035 581, 035 581, 035 583, 035 581, 035 583, 035 583, 035 583, 035 581, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035 583, 035	113, 689 495, 685 614, 896 936, 182, 101, 703 124, 1018 34, 302, 667 965, 738 17, 636, 860 268, 383 1, 019, 439 7, 728, 733 467, 709, 149 11, 333, 847 334, 957 12, 783, 639 415, 185 6, 900, 714 239, 512 4, 720, 813	194, 620 943, 986 3, 589, 632 5, 246, 199 241, 371 20, 528, 581 911, 099 34, 398, 174 406, 600 1, 835, 833 5, 740, 367 2, 389, 369 10, 326, 874 20, 734, 458 625, 848 27, 416, 11 1, 020, 907 464, 774 268, 735 572, 402 8, 787, 468	158, 420 903, 088 3, 923, 944 3, 554, 492 243, 982 26, 572, 605 344, 739 1, 544, 239 26, 572, 605 344, 738 6, 529, 381 9, 368, 082 2, 911, 551 9, 368, 082 2, 911, 551 9, 368, 082 1, 040, 148 585, 799 251, 392 552, 109 8, 532, 251	139, 474 627, 137 3, 889, 713 2, 475, 270 21, 667 192, 183 28, 348, 217 1, 186, 437 32, 701, 064 1, 695, 499 389, 302 1, 533, 406 7, 645, 862 2, 406, 433 9, 492, 922 11, 894, 287 886, 673 23, 422, 654 1, 639, 198 644, 062 310, 198 644, 062 310, 198 644, 062 310, 198 647, 648, 688, 673 21, 688, 673 21, 688, 673 21, 688, 673 21, 688, 673 21, 688, 673 21, 688, 673 21, 688, 673 21, 688, 673 21, 688, 688, 688, 688, 688, 688, 688, 68	120, 036 537, 957 3, 960, 197 2, 114, 627 124, 509 38, 110, 494 1, 081, 236 18, 122, 299 1, 124, 509 7, 732, 134 469, 367 10, 340, 187 335, 340 12, 339, 442 469, 336 469, 336 469, 336 472, 579 472, 579	2 3 4 5 6 10 11 12 13	
1,029,277 24,708,047	1,024,854 20,726,166	589,791 17,872,315	586,431 12,805,589	1,029,277 25,915,836	1,024,854 23,778,878	21,021,129	586,834 15,405,008	
17,396 2,234 3,634,028 341,220 1,227,507 116,861 2,384,735 222,943 18,987,063 1,201,600 39,775,494 1,903,387	168, 263 12, 706 3, 615, 660 316, 462 1, 094, 671 105, 357 1, 412, 494 165, 922 15, 267, 619 1, 328, 724 30, 983, 026 1, 572, 340	28,352 1,579 2,138,332 130,875 930,470 63,501 1,187,325 101,577 16,656,477 906,786 25,145,909 1,196,788	1, 796 1, 143, 291 64, 740 1, 017, 229 60, 288 1, 102, 518 16, 020, 566 716, 829 16, 339, 772 998, 930	6, 122, 795 773, 965 10, 970, 646 664, 532 4, 989, 470 382, 606 2, 384, 785 18, 962, 384 1, 203, 08c 43, 656, 095 2, 371, 556	4, 493, 344 499, 495 12, 043, 586 663, 974 4, 586, 269 360, 310 1, 488, 416 175, 452 15, 270, 972 1, 329, 732 38, 322, 700 2, 433, 145	4,653,223 449,254 11,902,113 503,135 2,905,568 191,703 1,253,335 108,124 16,670,146 908,385 36,719,363 2,357,648	5, 505, 404 495, 900 14, 095, 699 450, 733 3, 815, 781 209, 478 1, 367, 460 100, 736 16, 034, 658 717, 525 33, 964, 927 2, 709, 296	15 16 17
4,126,960	3,764,748	2,591,559	2, 101, 980	5,999,345	5,808,878	4,780,108	4,930,373	
23,459,351 2,032,741 244,117 52,908 83,857 159,883 31,165,554	23,990,071 2,393,448 203,377 37,326 678,955 393,276 27,392,739	13,694,658 1,245,974 150,329 25,901 252,037 353,764 22,166,887	3,623,705 308,706 53,452 10,087 125,026 185,595	39,908,271 2,978,012 1,877,195 330,019 130,940 210,156	43,082,076 3,425,966 2,365,507 392,195 758,247 463,095 34,277,882	38,832,973 2,526,662 1,218,337 155,429 323,596 407,976	26, 230, 953 1, 308, 061 629, 545 76, 790 179, 498 236, 123 22, 476, 232	21
110,980 5,743 496 39,228 9,379 755,905 121,452 1,645,706 473,948 109,609 65,065	61,587 3,498 872,55,010 8,691 926,075 102,566 1,817,363 155,559 741,024 129,206	55, 972 2, 313 337 22, 226 4, 244 455, 143 60, 901 2, 539, 161 628, 684 109, 652 7, 813	49,753 2,572 222 1,283 266 701,166 66,521 4,090,355 243,383 253,143 53,823 14,428 4,597 487,523	9,050,925 201,747 162,955 1,106,981 448,199 1,238,335 189,989 8,152,410 481,834 1,703,593 250,194 2,029,952 733,946	7, 372, 409 150, 517 200, 805 863, 982 123, 999 1, 562, 262 153, 504 7, 170, 068 354, 061 1, 753, 936 2, 213, 777 758, 242 4, 659, 281	7,206,588 115,745 138,516 931,556 97,900 1,055,977 25,323,421 971,216 1,388,093 184,35 1,732,343	7, 182, 303 101, 748 55, 239 1, 017, 088 72, 944 1, 343, 299 105, 733 28, 967, 738 966, 161 1, 141, 907 135, 959 1, 726, 851	24 24 25 26 27 28

.	T4		United K	ingdom.	
No.	Item.	1929.	1930.	1931.	1932.
	I. Agricultural and Vegetable Products—con. A. MAINLY FOOD—continued.				
1	Vegetables—Cabbagelb.	-	16	-1	-
2	Carrots lb.	Ξ1	="	-	735,398 18,668
2	Celery	-	37	-	-
4	Cucumbers	-	<u>-</u>	<u> </u>	
5	Lettuce lb.	- 1	-	-	_
6	Onions	- 77,009	71,690	26,275	946,47 20,49
7	Potatoes (except sweet)	[-]		13 13	-
8	Tomatoes, fresh	94	560	- 1	=
,	Canned	898 165	13,617 1,660	7,021 664	41,87 5,54
10	Sauces and pickles gal. \$	167,184 268,929	142,084 256,496	126,963 222,984	123,45 205,42
	Totals, Vegetables ¹ \$ Grains and Farinaceous Products—	350,369	332,791	267,069	258, 43
11	Grains— Beans	1,102,020	821,760	548,597	472,30
12	Corn. bush	60,326	55,071 54	36,942 127	26,02 10
13	Oatsbush.	1, 276	161 1,963	292 43	32 1
14	Rice	1,276 1,731 14,036	2,186 1,424	$\frac{34}{1,227}$	8,27
	Milled Products-	44,153	5,772	4,388	21,57
15	Corn mealbrl.	- \	-		27 1, 15
16	Wheat flourbrl.	136 1,234	496 6,471	529 4,744	11 75
17	Prepared Foods and Bakery Products— Biscuits	1,558,495	1,624,113	1,856,790	1,555,07
18	Cereal foods, prepared	211,636 22,954 522	228,518 16,122 794	268,283 17,244 792	209,26 13,43 9
19 20		71	83 22,512	84 45,024	1,0
21	Maltlb. Sago and tapiocalb.	49,656 3,152 5,769	1,228 29,581	1,957 66,288	23,9
21	5	352	1,633	2,083	6
	Totals, Grains and Farinaceous Products ¹	557,239	608,301	521,693	329,9
22	Oils, Vegetable, for Food— Coco-nut oil, n.o.pgal.	56,290	56,163	51,099	72.1
23	Cotton-seed oil for canning fish gal.	61,503 126,955	61,972 134,130	89,680	1 02.5
24	Olive oil, n.o.pgal.	110,505	119,577 1,282	5,300	1 4.30
25	Peanut and soya-bean oil, n.o.p gal.	2,973 71,164	2,534 77,457	4,783 118,480 80,413	5,04 76,58 37,34
	Totals, Oils, Vegetable, for Food ¹ , \$	58.714 246,755	269,305	205,721	147,50
26	Sugar and Its Products— Molasses, 56 degrees or less, imported under preferential tariff		-	-	
27	Sugar, not above No. 16, D.Scwt.] []	-41 10.	. []	•
28	Sugar, above No. 16, D.Scwt.	52 580	33 375	107 710	4,81 14,09
29	Candy (incl. chocolate)	3,299,540 633,525	3,515,176 633,820	3,039,816 501,468	2,436,19 376,14
	Totals, Sugar, etc.1 \$	749,056	727,555	584, 162	479,06

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

	United	l States.			All Co	untries.		No.
1929.	1980.	1931.	1932.	1929.	1930.	1931.	1932.	No.
				i				
			17,406,180	-	. <u>.</u> .	l . .	17,645,844	1
367,420	382,232	448,734	255,648 10,794,095	368,812	383,491	450,101	261,309 11,566,648	
- 1	_	-	246,213 14,737,372	_	-	-	265,808 15,033,882	il .
582,888	634,640	645,728	479,002	584,604	641,858	662,934	487,864	ı.
_ ;] -	-	3,690,765 201,255	-	_	<u>-</u>	3,700,547 201,870	1
883,275	1,103,405	928,907	30,526,831 865,227	883,281	1,003,405	928,907	30,527,076 865,232	5
	-	-	8.726.730	f -	-		17,724,226	4
275,472 472,971	310,445 769,401	207,261 406,480	206,118 192,272	760,375 473,351	649,301 769,777	435,317 407,525	393,608 193,573	7
539,803	1,345,479	690,755	279,900 29,534,294	540,807	1,346,332	693,600	283,551 43,300,666	!
1,457,989 14,210,283	1,650,338	1,399,813	1,321,432	1,900,054	1,955,100	1,899,838	2,006,030	ri 💮
1,169,546	16,926,833 1,392,824	9,800,064 865,750	2,642,106 252,329	20,356,335 1,752,644	24,085,829 2,106,447	15,290,617 1,328,919	5,550,358 499,080	ł
152,179 247,211	1,392,824 175,720 287,985	253,552 265,503	129,591 126,942	474,163 604,396	454,566 628,529	1,328,919 582,774 601,937	441,686 420,925	10
7,337,994	9,196,444	7,248,456	5,153,932	9,299,328	11,020,339	8,934,781	6,746,722	
								1
4,395,840 322,729	1,808,460	1,353,261	865,423 57,896	19,669,680	13,584,300	8,536,577	2,199,798	11
9.583.974	I 9. 153. DIGI	114,015 3,119,139	57,896 2,294,195	1,128,112 14,128,888	807,859 14,839,040	392,471 10,055,152	115,564 9,050,730	12
9,346,215 3,035,480	8,785,681 3,723,985	2,632,509 1,349,202	1,306,736 1,577,465	13,792,143 3,036,756	14,149,266	10,055,152 7,417,271	3,921,253 1,577,480	13
1,544,595	1.873.679	597,284	393,027	1,546,326	3,725,948 1,875,865	1,349,245 597,318	393,063	ŧ
198,313 584,239	194,496 648,049	256,928 675,634	188,768 399,159	592,879 1,891,053	578,807 1,895,785	617,725 1,660,395	670,660 1,414,756	14
46,749	50,156	35,517	28,414	46,749	£0,156	35,517	28,690	15
234,892	239,538	159,830	93,958	234.892	239,538	159,830	95,109	
75,246 539,037	87,538 593,328	35,636 249,102	13.768 88,718	75,432 540,853	88,077 600,338	36,832 256,285	21,967 113,190	16
1,987,128	1.787,481		690,315	3,724,962	3.569.592	3,221,384	2,295,688	17
262,432 282,269	232,667 308,212	1,133,695 158,530 235,274	88,452 166,240	505,687	3,569,592 492,769 330,078	475,408	325,084 182,659	l
2,817,834	2,694,150	2,243,447	880 414	306,873 3,074,380	3.366.436	255,330 2,696,020	969,829	18 19
246,670 40,881,816	218,869 25,951,335	168,191 11,703,885	65,060 2,338,359 57,708 318,518	265,170 41,195,472	262,773 26,139,077	198,246 12,078,909	70,828 2,642,884	20
1,276,278 158,556	25,951,335 682,769 454,497	276,885 537,698	57,708	1,293,830 3,975,002	26,139,077 692,544 2,931,104	295,226 3,268,929	71,755 3,078,724	21
26,541	41.827	58,557	24,172	157, 149	122, 284	138,828	86,028	41
16,390,339	16,695,799	6,272.049	3,406,723	23,737,007	25,082,671	13,339,358	7,585,738	
25,263	14,984 18,292	20,089	35,879	81,795	71,147	71,268	111,831	22
32,208 119	18,292 221	20,964 172	35,879 28,873 9,169	93,976 127,074	71,147 80,264 134,351	71,925 89,802	94,298 72,649 43,781	23
145 19, 125	240	175	5,111	110,650	119,817	67,206	43,781	
35,297	21,614 38,003	13,713 23,371	13,062 20,120	354,702 615,805	359,358 574,381	506,512 546,896	357,546 411,412	24
2,548 2,853	5,488 6,455	9,014 5,997	23,828 9,426	126,408 120,290	135,551 117,501	197,753 129,581	189,244 89,375	25
107,868	88,052	81,040	99,654	991,460	941,895	848,802	679,150	
- ~-]								
-]	- [-	-	4,507,093	4,586,160	5,193,745	4,632,067	26
181,532	448	-	1	1,692,874 8,191,708	1,536,137 8,057,423	1,733,201 8,301,800	1,431,406 8,112,132	27
399,142 57,536	1,243 49,902	55,897	33,086	25,309,147 829,760	8,057,423 20,310,269 1,413,904	19,482,796 1,022,076	16,292,441	28
227,302	175,638 1,331,441	241,518	141.477	2.874.108	3,950,400	2,376,209	1,605,457 3,550,562	
1,075,638 205,386	237,968	1,043,596 174,619	553,413 91,681	4,903,326 962,965	5,554,293 1,027,731	4,737,916 794,042	3,362,076 534,660	29
1,555,894	1.430,810	1,001,567	562,410	31,757,316	27,987,156	25, 151, 230	22,398,080	

.,	<u>.</u>		United E	ingdom.	
No.	Item.	1929.	1980.	1931.	1932.
	I. Agricultural and Vegetable Products—con. A. Mainly Foop—concluded. Cocoa, Coffee, Spices and Tea—				
1 2	Cocoa beans, not roasted or ground	15,736 190,736 282,125	19,968 204,747	21,123 170,922 80,000	16,816 97,864 47,048
3	Other	282,135 97,787 88,156	337,348 103,281 12,732	17,866 23,135	9,774 8,009
4 5	Coffee, green lb. Store offee and chicory \$	3,219,477 830,481 28,969	2,508,577 620,318 34,444	2,644,554 524,470 21,383	2,854,466 478,073 20,298
6	Spices— Mustard, ground	825,022 441,494	669,853 316,360	695,312 366,241	609,421 336,258
7	Pepper, unground	591,658 199,310	556,854 175,987	294,966 51,820	394,730 43,651
	Totals, Spices1	704,414	552,846	455,056	422,648
8 9	Tealb. Yeastlb.	16,245,586 5,282,578 J,588 416	15,424,517 4,819,006 4,019 688	21,483,822 5,890,642 19,620 2,735 549,898	16,302,582 3,283,730 44,367 5,989
10 11	Hops	198,482 25,680 224	226,684 22,485 3,732	549,898 30,381 960	128,948 38,571 2,234
12	Malt extractlb.	397,685 25,946	441 574,415 52,573	136 671,331 61,501	311 502, 936 39, 121
	Totals, Agricultural and Vegetable Products—A. Mainly Food \$	10,039,236	9,500,516	9,901,686	6,282,51
13	B. Other than Food. Beverages, Alcoholic— Brewed (beer, etc.)gal.	199,704	209,860	191,567	155,27
14	Distilled spiritspi. gal.	405,522 1,934,302 39,783,695	436,923 1,792,887 36,823,582	393,935 1,412,258 28,915,742	318,08 1,028,78 21,160,22
lš	Wines— Non-sparkling,,,,gal.	24,907 166,470	38,131 237,621	36,900 203,089	43,46 216,02 21
I\$	Sparkling	9,140	10,036 37,508,162	2,655	21,694,54
	Totals, Beverages, Alcoholic \$ Gums and Resins—	40,314,030	37,506,102	28,010,321	
17	Chicle gum, crude	1,450 381	- -	- 1	-
18 19	Lac, crude	5 234 52 1,404	49 2,677 387 5,732	71: 1,570. 390 3,722	38 7,82 13 68
	Totals, Gums and Resins ¹	36,195	52,095	40,843	29,35
20	Oilcake and meal cwt	15		5,089 9,655	4,73 7,18
21	Oils, Vegetable, not Food— Chinawoodcwt.	-	4 126	5 115	20
22	Coco-nut, palm, etc., for mfr. of soap gal.	49,156 42,367	112,931 85,859	148,346 77,484	97,76 47,42
23	Cotton-seed, crude, for refining	42,367 47,686 346,200	138,616 961,700	45,960 208,771	79,33 885,78
24	Essential (except peppermint, etc.) lb.	82,051 141,170	94,330 188,095	99,820 145,731	66,56 116,00 31,25
25 26	Peanut, for refining for food	48,153 423,810 100,590 82,641	99,498 747,436 51,280 36,010	10,084 58,429 59,107 41,928	31,254 169,113 15,184 7,493
	Totals, Oils, Vegetable, not Food ¹ \$	1,209,234	2,359,787	680,857	891,06

¹ Totals include other items not specified.

·								
	United	l States.	•	1	All Co	untries.		<u></u>
1929.	1930,	1931.	1932.	1929.	1930.	1931.	1932.	No.
	· · -						<u> </u>	
31,664 420,521 1,548,869	26, 152 312, 008 163, 360	21,543 234,021	19,548 154,389 94,357	158,013 1,942,164	1,971,066	163,631 1,401,582	147,997 861,151	ll l
489,053 110,466	43,446 121,284	276,965 53,636 92,704	14, 968 101, 914	5,073,480 1,586,814 273,524	1,476,402	5,348,300 1,061,480 178,449	4,394,672 654,012 182,188	; }
42,658 10,758 607,336	97,690 17,337 673,781	312,517 42,561 467,190	187,477 22,472 470,128	25, 126, 041 5, 856, 317 646, 971	28,660,517 5,924,635 725,084	31,501,596 4,365,637 492,747	32, 436, 632 3, 674, 413 515, 186	
331,485 36,151 73,555 20,715	231,639 27,820 32,645 10,033	193,583 21,241 54,991 10,885	121,272 15,507 15,192 2,299	477,645 1,619,894	903,292 344,392 1,851,840 588,892	888,895 887,482 1,789,229 331,603	731,023 351,801 1,877,605	7
286,474	242,811	194,861	109,713	541,013 1,580,639	1,499,001	1,150,692	217, 861 863, 079	1
53,277 25,387	84, 294 38, 267	44,898 16,412	41,165 13,190	39,425,956 11,752,521	38, 102, 295 10, 694, 379	53,464,341 13,048,877	42,765,703 7,125,314	J
2,185,968 356,296 1,625,829	2,430,934 396,303 1,442,831 307,249	2,196,651 363,884 1,019,731	1,619,286 293,896 212,504	2,188,237 357,503 2,399,294	2,455,984 399,406 2,802,861	2,224,233 368,720 2,746,277	1,680,939 304,826 1,039,434	
1,580,022	1,543,157	201,166 1,347,774	48,916 1,255,661 167,028	682.493	580, 162 1,546, 889 218, 836	408,710 1,359,991	1,039,434 197,223 1,283,239 172,513	11
223, 686 3, 466, 700 278, 533	218,395 3,857,135 299,718	180, 138 3, 159, 127 256, 226	1,924,286 1,924,539	223,746 3,865,045 304,492	218,836 4,431,746 352,345	182,468 3,832,309 318,490	172,513 2,428,651 226,212	17
61,572,871	59,179,374	39,971,929	27,345,751	132,261,858	128,488,882	104, 963, 726	78, 462, 628	
519 1,004 1,729 4,221	5,949 5,624 1,174 3,007	2,536 1,932 191 559	52 103 14 89	242,100 495,531 2,604,769 44,750,649	259,003 541,961 2,446,800 41,283,758	230, 995 482, 357 1, 990, 574 32, 662, 269	195,664 388,319 1,421,214 23,798,052	13 14
33 334 -	27 183 -	33 262 —	223 353 -	990,569 1,977,598 1,620,333	1, 138, 633 2, 145, 446 1, 055, 322	971,200 1,763,207 526,804	831,349 1,445,391 298,118	15
5,559	8,814	2,753	545	48,844,111	45,026,487	35, 434, 637	25,929,880	
810, 436 344, 101 18, 436 853, 938 303, 214	835,391 347,916 16,453 705,063 343,394	897,488 357,543 11,663 319,205 276,884	645, 859 235, 535 8, 475 203, 722 245, 872	1,229,885 552,407 19,430 900,097 304,921	1,420,817 655,824 17,363 740,637 344,937	1,254,463 531,056 11,794 321,714 277,532	813,226 316,918 8,909 212,438 247,495	17 18 19
1,078,178	1,189,375	761,492	540,561	1,097,223	1,208,210	101,088	011,874	ĺ
2,956,844 151,834	2,952,867 246,583	$-\frac{2,000,730}{111,250}$	1,430,200	3,348,543	3,431,591 277,081	2,350,076 156,569	1,601,635 134,829	20
337,785	486,012	182,027	100,429	162,851 359,973	277,081 548,642	249, 108	138,621	
52,701 672,536 3,137,831 2,295,071 253,971 2,100,209 247,230 373,771 51,405 421,129 743,866	60,020 789,986 2,624,432 1,957,686 258,952 1,985,153 303,369 496,088 90,839 733,618 793,859	48, 364 450, 444 2, 601, 095 1, 737, 096 140, 293 804, 001 278, 189 483, 516 385, 393 2, 516, 679 524, 535	40,813 268,374 2,620,087 1,258,288 306,901 1,216,186 238,863 330,880 80,580 443,204	2,449,817 508,899 842,490 206,288 1,740,035	61,861; 813,937; 2,874,972; 2,143,817; 400,653; 2,975,394; 560,044; 1,021,053; 321,934; 2,587,498; 874,599;	48, 369 450, 559 3, 080, 061; 2, 015, 972; 174, 711; 1,025, 235 563, 825 875, 451 599, 385 4, 249, 570	41,280 271,693 3,073,477 1,475,540 386,275 1,602,172 477,663 664,380 378,056 1,818,432	21 22 23 24 24 25
7, 176, 308	793,859 486,733 7,164,969	348,562 6,898,762	120,828 55,513 4,128,085	941,072 652,323 9,817,721	541,394 11,302,256	902,379 596,343 10,021,904	848,675 331,335 6,964,867	26

13.—Principal Imports into Canada for Consumption from United

No.		_	United K	ingdom.	
110.	Item.	1929.	1930.	1931.	1932.
	I. Agricultural and Vegetable Products —concluded.				
1	B. OTHER THAN FOOD—concluded. Plants, trees, shrubs and vines	67,552	82,033	59,722	61,325
2	Raw (incl. balata)	420,326 79,530	9,251 4,674	21,486 9,261	5,054 4,902
3	Recoveredcwt.	5 6	-		10 71
4	Thread	20,200 20,893	32,203 31,452	26, 55 5 24,984	81,058 56,454
5	Pneumatic tire casings	759 3,531 40	657 7,626 40	1,197 13,088 581	206 2,929 125
•	Inner tubes, n.o.p	316	119	615	120
	Totals, Rubber ¹ \$	697,774	576,582	531,504	482,424
7	Seeds— Clover	1,193,854	552,242	481,301 65,707	54,495
8	Flaxbush.	209,378 179	96,074 -	65,707 156 521	10,50i 230 786
9	Timothy	1,282		12,320 1,897	100
	Totals, Seeds ¹ \$	360,348	342,666	245,146	152,426
10	Tobacco— Unmanufactured	44,909	2,088	74,646	380
11	Cut. lb.	55,630 124,321	1,654 114,046	37,282 99,263	816 85,634
12	Other manufactured \$	430,460 292,155	393,212 316, 8 90	346,089 274,794	302,780 212,997
	Totals, Tobacco\$	778,245	711,756	658,165	516,593
13 14	Broom corn\$ Hayton	166 -	_	-	92
15	Starch, including corn and potato starch lb.	201,863 11,966	146,596 9,693	108,937 7,466	119,475 9,040
16	Tar, pine, crude gal.	9,726 1,608	4,748 898	617 414	6,944 2,021
17	Turpentine, spirits of gal.	2,578 1,527	159 261	311 321	140 178
	Totals, Agricultural and Vegetable Products—B. Other than Food \$	43,631,325	41,778,766	31,861,107	23, 338, 485
	Totals, Agricultural and Vegetable Products\$	53,670,561	51,279,282	41,762,787	30,220,997
	II. Animals and Animal Products. Animals, Living—				
18 19	For exhibition.	1,400 242,486	7,000 208,579	660 211,882	240 71,761
	Totals, Animals, Living \$	294,963	261,172	236,592	92,261
20	Bone dust and ash, charred bone cwt.	16,447 54 722	12, 157 24, 346 15, 264	8,123 20,859	5,217 9,561
21 22	Bone, ivory and shell products, n.o.p	16,447 54,733 17,733 97,081	15.264 90,456	13,606 124,171	7,861 132,834
	Fishery Products, n.o.p.2— Fresh—			ĺ	
23	Halibut			= [
24	Oysters, shelled gal.	-	}	-	
25 26	Oysters, other	2,995	1,074	2,245	1,277

¹ Totals include other items not specified. ² Not including turtles, shell products, seal skins, fish oils and ambergris.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

	Unite	i States.			All Co	untries.		No.
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	
		1						
520,716	558,480	349, 134	247,427	1,792,171	1,913,447	1,629,504	1,105,567	1
72,629,626 16,450,861	70,003,561 14,052,161	58,892,977	54,020,066 3,482,090 91,797	77,716,891 17,415,202	73,339,973 14,715,267	59,559,131 6,781,261	55,269,390 3,572,854	z
178,593	170,868	6,680,821 133,343	3,482,090 91,797	178,598	170,868	138,343	91.807	3
1,249,054 208,443	1,148,065 233,112	661,485 257,398	426, 100 171, 732	228,701	265,315	294,721	761,500	4
219,692 20,146	220,347 19,808	217,867 41,394	149, 253 36, 618	20,908	ł 21,082	42.613	36.853	5
234,602 20,979	274,554 3,731	321,489 17,197	236,462 9,974	288,170	285,343	334,890 17,839	239, 645 10, 099	6
30,922	9,555	17, 197 20, 733	11,062	31, 238	9,882	21,422	11,182	`
21,332,253	18,586,040	9,797,939	5,565,781	23,090,983	20,025,316	10,564,737	6,271,708	
640,320	786, 136	922,417	517,560 79,326	1,907,818	1,350,598 235,283	2,106,524	1,045,104	7
124,698 20,290	136,556 50,046	142,605 1,896	818	4 399,964	1 1.558.983	525,295	159,164 383,720 853,273	8
33,945 7,194,155	94,992 8,054,238	6, 159 11,478,574	- 954 7,198,501	715,358 7,220,905	3,190,199 8,054,238 548,873	11,523,643	7,208,401	
444,656	543,878	1,012,701	450, 581	448,339	548,873	1,017,593	451,667	
1,011,205	1,323,192	1,629,371	835,532	2,242,651	5,061,255	3,395,757	1,643,165	
17,441,819	15,878,880	15,092,356 4,335,903	12,216,403	18,726,618	17, 113, 472	16,580,394	13,075,385	10
5,618,975 168,756	6,363,643 177,180	4,335,905 144,661	95,210	817,921	6,471,626 818,400	5,488,949 270,661	3,861,465 201,450 427,383	11
192,519 83,940	202,452 94,555	144,661 167,239 76,975	117,417 58,020	636, 091 536, 447	609,376 540,362	523, 115 451, 683	427,383 342,704	12
5,895,434	5,660,650	4,580,117	3,372,720	7,938,823	7,621,364	6,463,747	4,631,552	
425,035 5,380	462,254 4 502	339,784 4,573	202,467 1,444	427,636 5,380	462,254 4 502	339,784 4,753	202, 467 1, 444	13 14
83, 192 3, 474, 743	4,502 61,715 3,231,275	66,335 2,582,334	18,479 2,581,000	83, 192 7, 169, 134	4,502 61,715 7,209,807	66,335 6,961,051	18, 479 5, 068, 904	15
228,533	165,820	139,232	112, 128	355,357	277, 185	230,797	165.7860	
420, 161 111, 360	344.329 91,660	237,490 49,708	176, 863 34, 382	466,634 122,409	438,921 113,984	279,632 60,827	228,408 47,226 1,000,222	16
1,078,294 594,346	1,171,838 611,517	1,134,074 476,932	999, 970 430, 939	1,081,359 596,445	1,172,082 612,572	1,134,500 477,722	1,000,222 431,610	17
42,094,581	39,581,759	27,448,452	17,233,097	100,865,386	98,360,014	72,665,652	54, 159, 282	
163,667,472	\$8,752,133	67,580,381	44,578,848	233, 130, 244	227,048,817	177,428,778	128,621,266	
				İ				
1,845,326 493,891	1,558,629 496,545	1,264,656 298,891	1,273,519 113,344	1,846,726 738,119	1,565,629 737,405	1,272,316 525,882	1,273,759 195,594	18 19
2,800,331	2,490,328	1,966,665	1,580,564	8,104,353	2,802,754	2,251,160	1,722,489	
82,824 112 910	25,755 87,912 231,276	34,401 88,967	36,542 97 123	59,075 194 338	47, 295 151, 013	44,509	49,581	20
112,910 227,902	231,276	100,908	97, 123 127, 566	194,336 303,232	151,013 307,328	118, 113 262, 447	133,442 164,149	21
138, 297	113,367	71,558	118,214	316,696	266, 145	249,630	298, 179	22
650,558	100,413	431,286	134,324	1,578,063	1,171,048	1,064,796	462,231	23
64,048 152,474	7,659 138,085	36,864 125,985	9, 155 103, 118	152,474	1,171,048 134,736 138,085	114, 114 125, 985	43,574 103,118	24
381,524 24,610	360,596 25,113	303,724 20,675	229,667 17,457	381,524 24,954	360,596 26,590	303,724 20,928	229,667 18,049	25
227, 869	194,274	178,684	105,893	408, 165	397, 1881	372,590	249, 472	26

N.	Item.		United K	ingdom	
No.	Item.	1929.	1930.	1931.	1932.
	II. Animals and Animal Products—continued.				
l		İ			
1	Fishery Products, n.o.p.2—concluded. Dried, Salted, Smoked or Pickled— Cod	32,526	_	400	
2	Herring. lb.	3,606 1,444,314	- 1,414,983	36 1,448,875	1,320,122
- 1	\$ 1	114,218	108,471 10,842	104,899 16,558	96,833 4,832
3	Other\$ Canned—	5,408			
4	Sardines, 8 oz. or lessbox	56, 155 3,589	86,766 7,114	130,829 7,956	206,599 10,266
5	Sardines, other	245 112,510	17,069 110,6 55	43,668 53,440	29,260 19,515
	Totals, Fishery Products, n.o.p.1 \$	251,542	262,666	235,661	168,006
	Furs and Fur Skins—				
7	Unmanufactured— Undressed (including marine)\$	874,341	611,781	366,065	239,025
8	Other	200, 546 36, 186	161,859 38,974	92,988 24,432	58,202 23,705
Ť	Totals, Furs and Fur Skins \$	1,111,073	812,614	483,480	320,932
10	Bristles, animal	8,349	6,338	7,843	10, 184
11	Hair and mirs. of, n.o.p	$11,973 \\ 23,454$	11,993 10,746	14,396 9,264	10,806 9,275
12	Hides and Skins— Calfcwt.	_	1,907	_	2
13	Cattle	3,852	25,778 5,155	1,687	122 173
14	\$	75,850 1,029	73, 203 114	19,962	1,868 207
14	Sheepcwt.	29,456	5, 104		11,363
	Totals, Hides and Skinstcwt.	5,458 115,880	8,064	1,849 21,979	477 14, 223
	*	115,580	128,689		11,200
15	Leather— Unmanufactured 8	1,280,952	1,170,663	668,814	530,483
	Manufactured— Boots and shoes, n.o.p.—				
16	Men'spair	191,099 680,259	210,936' 721,585	229,670 592,306	113,202 334,583
17	Women's pair	49,104 93,210	47,631 87,482	63,451 80,619	20,219 36,977
18	Children's pair	59, 252	49,371 46,124	78,801 45,684	32,426 22,728
13	Gloves and mitts	55,330 136,978	156,455	121,505	70,349
	Totals, Leather'\$	2,564,152	2,448,336	1,747,599	1,169,145
20	Meats— Beef, iresh	132,084	303,655	`	25,290
	1 '	12,080	31,491 39,884	- 1	2,147 8,622
31	Mutton, freshlb.	-	4,249	_	873
22	Pork, freshlb.]	4 170	1,195	40
23	Bacon and hams	1,658 712	1,178 589	1 918	12
24	Canned meatslb.	637,485 99,526	252,024 59,784	192,590	174,612 39,156
25	Pork, barrelled in brine lb.		-	400 22	_
26	Pork, dry saltedlb.	<u>-</u>	-		
27	Sausage	64 29	_	285 95	_
			0.000	1,087	10.396
28	Soupe, all kinds	1,512	2,302	1,007	10,390

¹ Totals include other items not specified. ² Not including turtles, shell products, seal skins, fish oils and ambergris.

	United	States.			All Co	untries.		No.
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	
	:							
16,525	14,444 1,702 514,576,	17, 143 1, 953	9,069 894	8,173,867	7,428,084 348,270 5,694,866	7,796,040 282,171 6,396,878	5,462,348 153,278	1
2,139 674,980 67,099 36,042	514,576 34,994 38,050	705, 853 45, 544 25, 236	370,078 21,432 20,907	400,624 6,861,121 660,002 197,558	5,694,866 289,749 214,430	800,183	5,233,001 190,983 120,199	2
58,037 6,522	127,670 11,296 6,136	87,727 8,835	20,036 1,855 1,237 173,769	1	8 593 229	6,070,765 453,192	5,293,293 360,277	4
2,450 403,914	6,136 442,878	7,692 250,229	1,237 173,769	651,451 37,590 820,716	59,091 937,554	83,397 595,453	44,820 470,994	5 6
1,320,073	1,239,603	973,126	647,220	3,685,037	3,695,431	2,885,203	2,039,609	
11,862,535 1,185,205	7,206,227 1,669,599	5,084,581 1,737,006	2,775,334 957,935 110,298	14,069,793 2,836,391	8,476,974 3,180,994	5,925,411 2,636,421	3,255,847 1,645,055	7 8
194,985	201,684	6,991,468	- 110,298 3,843,567	259,656	295,981	221,448	169,106	•
13,242,725 226,826	9,077,510	202,903		17,165,840 273,835	11,953,949 279,978	8,783,280 276,358	5,070,008 197,409	10
329,557 257,123	222,383 359,934 379,978	241,065 239,4[1	178,756 156,263 142,262	385,401 324,699	489,417 447,712	315,416 280,847	197,409 176,384 175,358	11
55,737 1,767,450	59,475 1,547,543 259,266	36,217 932,880 133,436	21,433 425,296	60,580 1,929,292 384,367	67,715 1,754,982	[1,223,285]	38,998 626,350 207,374	12
275,789 6,099,308	3.713.055	1,270,522	826,958	8,613,120	369,115 5,460,207	2.731.898	1,784,658	l
32,611 991,438	33,674 865,753	28,533 361,490	20,025 166,669	35,874 1,086,080	35,624 916,766	29,299 371,057	23,423 211,966	14
378, 135 9, 286, 066	362,830 6,267,935	212,006 2,831,309	157,664 1,582,401	507,773 12,429,221	486,442 8,402,075	345,439 4,704,924	281,316 2,867,945	
4,637,927	4,679,656	3,490,686	2,115,121	6,009,148	5,919,500	4,311,261	2,868,887	15
80,668 256,927	102,382 285,000	91,507 214,371	38,665 74,837	275,937 943,269	319,780 1,017,428	330,243 824,499	153,005 410,443	16
369, 165 1, 355, 865	421,680 1,432,055	474,626 1,326,311	74,837 262,885 627,774	471,964 1,598,989	554,150 1,734,942	612,125 1,594,831	323,967 757,985	17
24,258 21,888	43,282 33,868 14,964	46,889 33,525 16,206	36,871 21,976	84,367 78,476	94,107 83,606 1,546,742	127.058	72,292 46,823	18
15,999			- 5, 155	1,060,046			1,549,893	19
7,235,884	7,352,782	5,736,383	3,207,616	10,998,029	11,537,331	9,171,686	6,198,308	
124,831 58,873	191,286 82,516	382,170 73,195 393,776	143, 0 08 40, 8 53	3,292,158 309,643	4,536,114 452,602	2,003,705 198,936	350,232 46,727 1,541,751	20
58,873 574,400 134,882	459,233 111,715	393,776 72,891	106.944	4,003,484 563,080	452,602 4,979,227 661,687	198,936 1,784,878 217,503	1,541,751 139,644	21
523,876 85,605	1,179,597 178,696	72,891 948,880 137,442	20,858 18,252 4 628	523,876 85,605	1,179,597 178,696	I 948.880I	18,252 4,628	22
2,876,625	7,720,204 1,121,267	6,323,422 926,756	4,628 265,036 64,672	2,878,599 380,831	7,721,635	137,442 6,333,430 929,758	265,076 64,684	23
379,994 395,996 75,333	512,710	393,158 87,037	64,672 119,185 25,269	5,918,875 802,422	1,121,957 7,029,956 932,488	8,292,609	6,122,319 657,935	24
75,333 9,893,248 1.151,676	11,566,469 1,298,312	7,531.037 775,589	25,269 3,669,422 256,890	9,895,648 1,152,035	11,574,669 1,299,418	1,134,836 7,533,637 775,863	3,669,622 256,910	25
1,229,143 171,908	1,809,031 251,489	1,246,940 181,959	14.647	1 229.143	1,809,151 251,508	1,246,940 181,959	14.647	26
490,625 178,376	588,232 218,775	453,460 163,904	2,835 237,576 77,665	171,908 496,316 180,717	594,500 220,488	456,681 164,818	2,835 237,576 77,665	27
1,847,074	1,955,277	1,472,636	172,943	1,850,607	1,974,052	1,479,070	77,665 184,416	28
4,282,706	5,684,979	4,104,059	760,555	5,904,979	7,599,473	5,584,055	1,689,749	i

	T		United K	ingdom.	
No.	Item.	1929.	1930.	1931.	1932.
	II. Animals and Animal Products—concluded.				
1	Milk and Its Products—Butter	619,570	1.128,672	291.380	546
	\$	610,570 228,512 75,768	1,128,672 413,369	291,380 75,553 52,779	134
2	Cheeselb.	75,768 98 038	194,885 58,357	52,779 20,144	54,634 18,294
3	Other	28,938 5,766	2,584	4,100	2,558
4	Oils, Fats, Greases and Waxes— Cod-liver oil	2,440	7, 179	2 140	1,370
· *	` ` \$	3,344	6,615	3,140 1,890	1,447
5	Grease, rough, for mfr. of soaps and oils cwt.	· -	2,446 19,714	1,845	2,206
6	Lard lb.	96	19,714	14,745 14,888	14,875 7,190
7	5	19	11 570	1,320 5,771	594
7	Lard compound	22,400 2,416	11,550 1,139	5,771	15,197 1,096
	Totals, Oils, Fats, etc \$	18,144	44,537	34,999	45,302
8	•		48	92	20
•	Eggs in shell	13,542 3,031	281	217	56
•]	Eggs, n.o.p	722,161	3.5880	14,082	7,926
10	Gelatinelb.	120,992 296,785	1,632 326,084	4,994 480,241	3,089 570,959
	\$	67,525	74,633	108,615	115,827
11	Glue, powdered or sheet	2,126,674 250,521	2,145,469 237,682	1,598,310	1,383,426 114,355
12	Sausage casings	-		108,615 1,598,310 167,187 48,278	139, 265
	Totals, Animals and Animal Products ¹ . §	5,664,451	5,288,528	3,783,222	2,614,531
	III. Fibres and Textiles.				
13	Cotton— Raw, including linters lb.	15,954	332,455	1,085,506	269,472
-~	\$	3,343	73, 134	187,888	38,797
14	Yarns, Thread and Cordage— Rovings, yarns, etc., for sewing, packag-				
**	ing, etc	173,991	149,783	193,748	118,365
13	\$	173,991 108,208 107,662	72, 169 139, 189	73,495 67,283	47,392 33,942
	Cordage and twine	28,480	30,477	14,589	6,650
16	Crochet and knittinglb.	850 1,065	805 1,325	199 335	506 1,623
17	Yarn, No. 40 and finer, mercerized lb.	360,216 302,261	217.6141	152,712	335,293
18	\$ · · · · · · · · · · · · · · · · · · ·	302,261	186,851	126,095	228,879
10	Yarn, two or more strands, for mir. of thread	353,857 311,574	356,541 307,716	424,941 319,929	435,492
	\	311,574	307,716	319,929	265,450
19	Piece Goods— Not bleachedyd.	8,659,477	5,981,914	6,534,743	918,9801
	\$	l 885.5531	633,677	516,703	343,904
20	Canton flannel, etcyd.	385,695 107,002	417,898 100,151	171,907 42,301	154,559 ² 71,718
21	Bleached or mercerized yd.	107,002 6,676,947 1,012,796	6,690,034	42,301 5,155,541	71,718 982,363
22	Printed, n.o.pyd.	I 8.339.8791	1,051,594 7,148,496	786,663 7,049,373	575,332 1,661,416 ²
		1.677.236	1 224 421	1.189.440	1 056 684
23	Yarn or piece dyedyd.	3.392.417	13,762,158 2,642,444	8,977,156 1,584,050	2,143,959 ² 1,308,711 247,826 ³
24	With cut pile (velveteens and corduroys) yd.	1,481,472 802,239	1,337,479 704,130	855,070 398,387	247,826° 248,871
	Lace and Embroidery—				-
25 26	Embroideries \$ Lace, net and mirs. of \$	37,237 707,236	68,600 628,774	66,143 445,776	2,820 266,656
	Wearing Apparel—	.07,200	Jav; 1/2	I	
27 28	Gloves of cotton	11,051	19,090	87,251 12,384	32,323 4,961
	1	29,850	51,441	12,384 32,115 272,543	4,961 16,995
29 30	Other clothing. Blankets, household. Curtains.	489,955	443,866 26,645	24 8231	193,363 856
31	Curtains	17,644 299,068	253, 045	196,581	129,378
37		i 748.023i	813,442 133,718 429,376	196,581 562,259 85,569 308,161	357,671 78,991
	Units, etc., not coloured 3	145,442 371,871	420, 276	308, 161	236,677
33 34	Sheets and pillow-cases, not coloured \$	1 9(1,0(1)	120,010	•••,,	
33	Quilts, etc., not coloured. \$ Sheets and pillow-cases, not coloured. \$ Totals, Cotton. \$	13,498,581	11,706,968	8,419,654	6,391,155

⁴ Totals include other items not specified.

² Quantities are in lb. in 1932.

				_			 	_
	United	States.			All Co	intries.		1
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	No.
								_
46,681	176,905	26,156	19,380	25,609,915	41,919,372	16,500,801	879,670	1
21, 474 357, 281 135, 204	76 914	10.658	6,393 158,766	1 9.628.528	14,471,688	4,786,521	268,336	
357,281	386.3709	269, 207	158,766	1,936,196 572,049	2,063,898	1.685.045	1,377,344	2
40,496	135,468 60,100	82,528 66,152	50,965 70,311	90,600	627,107 116,443	465,666 93,905	387,258 77,276	3
				· ·	1			•
14,567 16,364 112,470 972,775	8,757 12,222	15,364 24,650	18,345 22,222	181,566 204,872	210, 183 179, 717	218,571 189,681	212,296 142,374	1
112,470	139,612	24,650 219,235	257.400	204, 872 122, 389 1,052, 082	156,330		260.453	5
972,775	1.119.678	1,146,778	976, 197 151, 558	1,052,082	1,251,280	1,169,661 944,221	995,281 158,748	
948,175 110,386 1,374,756	948, 143 95, 71?	928, 102 99, 941	8,837	948,271 110,405 1,510,132	95,728	101,436	9,431	
1,374,756	301,47 0 29,716	99,941 1,159,275	8,837 116,525	1,510,132	1,251,280 948,204 95,728 651,797 60,700	101,436 1,455,205, 132,798	354,670	
131,975	1,540,209	112,737 1.610,099	6,552	144,243	2,020,852	1,961,524	18,375	1
1,528,618			1,219,374					
1,078,258 380,323	2,796,383	113,566 40,959	41,569	1,138,207 395,513	2,853,277 950,357	158,210 52,547 1,708,906	56,451	8
880,828 412,150	936,422 496,667	40,909 613,514	19,958 73,149	2.861.183	1 686-183	1.708.906	25,061 145,908	
412,150 112,879	226,133	970 129	40 000	651,541 1,698,167 590,706	1 296 071	I 680.4921	65,302	
298,465 230,422	264,452 203,688	195,201 128.086	187,654 133,731 177,220 30,333	1,698,167 890 708	1,763,807 658,832	1,904,880 610,917 2,835,860 287,928	1.050.61	
537,190	810,672	323,697	177,220	3,201,929	4,454,439 498,159	2,835,860	448,353 2,226,432 200,640	111
537,190 66,336	810,672 109,502	195, 201 128, 086 323, 697 43, 288 104, 517	30,333	371,436 2,163,664	498,159	287,928	200,640 700, 500	12
223,072	220,471		100,929		1,547,994	1,890,517		
42,454,255	37,388,126	26,153,435	14,184,530	71,661,754	69,853,833	45,905,705	24,563,246	1
:								
1 50,8 39,641	125,432,749	105,657,401	99,127,127	151,126,982	126,069,888	106,722,241	100,902,263	13
29,027,014	22,123,264	12,230,306	7,807,451	29,069,275	22,243,795	12,420,886	8,044,769	
	I			,				1
550,806 327,672 159,238 76,230 5,374	443,057	391,720	251,883 136,376 61,362 22,348 7,238	788,937	616,596	592,162 278,431	373,481 189,819	14
327,672	443,057 252,764 170,209 68,730	391,720 199,768 191,2 0 5	136.376	462,643 268,664	336,120 321,838	278,431 259,647	199,819 96,139	15
76,230	68,730	79,606	22.348	105,119	100,685	94,707	29.221	1
5,374	1.908	1 2.195	7,238	108,119 52,376 145,267	70,803	43,988	22,823 57,561	16
	2,442 1,995,637 1,814,650	1,076 2,382,314			2,213,251	86,690 2,535,160	1,979,673	17
2,193,187 1,742,302	1,814,650	2,382,314 1,854,248	1,644,380 1,158,009	2,048,350	119,185 2,213,251 2,001,501	1,980,561	1,979,673 1,386,888	
254,859	245, 155	167,375	121,565	611,217	601,696	592,316	557,057	18
256, 421	245, 155 218, 362		80, 219	572,178	526,078	446,179	587,057 345,669	
36,482,811	28, 787, 373 3, 717, 540 127, 727 14, 965 10, 155, 161 711, 221 13, 857, 658 2, 209, 219 12, 219, 732 2, 152, 525	20, 276, 446	4,369,835	45,244,920 4,965,271 1,165,790 180,803 13,467,440	34,847,538 4,369,275 546,560 115,204 17,114,597	26,847,811	5,301,595*	19
36,482,811 4,060,918 779,467	3,717,540	20,276,446 1,861,676 251,781 17,247	4,369,8352 883,037 69,6022	4,965,271	4,369,275	26,847,811 2,402,068 429,389	1,236,298 230,547 ²	20
779,467	14.965	251,781 17.247	38,208	1,165,790	115.204	60,027	111.571	20
73,669 6,503,672 771,286	10, 155, 121	7,773,924 582,244	1,029,0422 425,961	13,467,440	17,114,597	13, 196, 049	111,571 2,072,255	21
771,286	711,221	582,244 12 031 059	425,961 1,528,454	1,010,440	1,820,857 21,669,981 3,777,415 28,481,288	1,362,529 19,636,624	1,048,849 3,504,121 2,375,981	22
9,875,889 1,620,746	2,209,219	12,031,958 1,667,383 8,973,935	1,151,635 1,606,052 ²	3,475,321	3,777,415	3,015,086	2,375,951	~ ~
14.599.442	12,219,743 2,152,525	8,973,935 1,356,617	1,606,052	33.511.827	28,481,288 5,640,783	3,015,086 20,206,683 3,705,528	5 413 1872	23
2,698,846 486,774	310,132	379,378	241.1742	6,814,141 2,346,448	l 1.926.984	1.419.843	2,966,778 557,381* 450,232	24
402,393	231,582	172,139	148,987	2,346,448 1,548,547	1,172,813	1,419,843 690,573	450,232	
8.721	12,198	11.950	6.150	142,307	172.988	164,026	60,569	25
8,721 252,707	351,806	11,950 239,354	6,150 140,827	1,331,008	172,988 1,433,069	923,347	60,569 606,779	26
_		52,912	7,230	_		642,307	604,724	27
397,788 524,958 867,654	305,895	145,513	1,657	619,434	592,453	506.071	13,293 37,398 928,996 5,520	28
524,958 867 654	404,113 1,091,735	180,022 808,983	4,221 569 125	730,514 1,624,198		424,438 1,314,844 232,422	37,398	29
218,898	178,378	99,463	I 3.321	351.897	341.764	232,422	5,820	29 30 31
120,910	90,946	k 21 929	73 03 <i>4</i>	601 764		I 4.1X.97XI		
11,568 26,904	9,195 10,108	6.464 11.968	33,191	I,096,139 175,549 394,999	145,825	834,382 105,793 335,613	565,488 137,018 287,939	33 38
26,904 21,285	10, 108 12, 920	11,968 18,825	33,191 7,140	394,999	145,825 444,969	335,613	287,939	34
46, 155, 922	38,513,094	<u></u>	14,706,363	63,063,246	53,826,367	35,174,438	23,942,066	
)	11			1		20,000,000	1

No.	Item.		United K	ingdom.	
NO.	item.	1929.	1930.	1931.	1932.
	III. Fibres and Textiles—continued.				
1	Fiax, Hemp and Jute— Hemp, dressed or undressed ewt.	_	-	-	
2	Other raw flaz, etc\$	11,750	9,846	7,503	5, 221
3	Other raw flax, etc	1,819,487	2,295,906	1,461,528	1,228,280 174,708
4	Linen thread, for sewing	334,943 244,878 311,584	449,539 235,465	1,461,528 235,952 182,921	210.837
5	Other yarn, thread, etc	311,584 365,816 2,176,796	268,228 287,599 2,108,894	201,887 236,893 1,840,420	223,519 155,723 1,180,483
7	Fabrics, flax, printed, dyed or coloured yd.	366,005 3,091,048	345,550 3,035,877	266.818	153,942 1,110,274
8	Fabrics, flax, bleached or mercerized yd.	575,529 523,244	544,440 790,684	3,378,127 517,567 607,612	229,402 339,703
•	Fabrics, jute, woven	149,582 19,603,129	203,628 12,073,132	149,617 7,314,761	91,652 6,077,698
10	'` ' 	2,153,714 213,265	1,341,508 268,605	672,936 179,966	484,528 476,192
11	Other fabrics	3,378	7,905	2,379 482,659	20,393
12 13	Handkerchiefs. Sheets, pillow-cases, etc. Table-cloths, napkins.	531,192 213,058	621,620 249,417	165,421	327,519 96,508
14 15	Table-cloths, napkins\$ Towels\$	835,313 212,882	901,631 207,215	623,407 213,723	461,473 154,926
	Totals, Flax, Hemp and Jutet \$	7,168,088	6,748,160	4,631,011	3,301,003
	Silk-	665	113	_\	
16	Raw, singles, not degummed	1,656	577	146,869	#a AA
17 18	Other raw yarns and thread\$ Fabrics, unfinishedyd.	220,069 5,390	221,669 2,216	140,609	76,998
19	Velvets and plushesyd.	4,022 311,190 302.923	1,952 149,729 171,982	124,702 108,650	56,734 53,109
20	Ribbons	302,923 21,554 41,607	15,988 13,263	15,116 19,042	9,659 21,680
20 21 22 23	Other piece goods. Socks and stockings doz. pr.	330,145	264, 255	131.964 4,382	54,213 1,04
	1 8 1	8,210 62,225	5,573 45,797 381,876	29,451 201,020	7,980 116,470
24	Other apparel\$	414,087		786,458	383,54
	Totals, Silk ¹ \$	1,616,325	1,329,586	100,400	000,04
25	Raw, hair of the camel, etclb.	5,508,463	4,936,229	5,491,266 1,810,386	4,883,51 1,375,64
26	Worsted tope, n.o.p	2,670,489 7,473,977	2,280,124 5,536,787	5,815,098	5,786,06
27	Noils	4,904,599 479,680	3,284,090 315,933	189,673	2,036,43 158,20
	\$	922 142	l 141 230	57.764 5,146,116	50,68 3,364,88
28	Yarnelb.	4,976,777 5,566,261 2,826,983	5,665,639	4,282,182	2,452,63
29	Fabrics, to be finishedsq. yd.	1,159,700	1,000,150	546,255	558,418 559,12
30	Lustres, Italian linings yd.	782, 154 ² 463, 811	585,873 321,708	328,240 191,181	64,764 79,57
31	Overcoatingsyd.	388,331 ² 477,258	995,152 1,194, 5 36	665,883 829,079	310,856 255,80
32	Tweedsyd.	3,869,635° 3,634,985	2,868,223 2,642,895	1,455,070 1,413,941	639,470 621,76
33	Worsteds, serges, coatings yd.	8,423,926 11,235,198	6,663,242 8,794,919	5,383,201 6,639,043	3,364,426 3,870,56
34 35		3,778,930	3,145,413	2,446,268	1,226,58 593,47 288,92
36	•	1,421,225 535,347 2,211,822	526,969	424,766 1,752,223	179,46 735,73
37 38 39	Women's and children's outer garments	2,211,822 437,757 216,107 1,447,898	323,791 256,350	312,599 176,138	215,83 84,21 550 ,96

¹ Totals include other items not specified. ² Quantit

² Quantities are in lb. iп 1932.

	United	States.			All Cou	intries.		Nc.
1929.	1930.	1981.	1932.	1929.	1930.	1931.	1932.	
24,231 206,949 157,077	37,143 306,438 171,650	25,402 154,374 128,591	16,247 73,416 78,448	27,390 234,103 168,026	42,620 358,827 183,976	28,423 176,772 133,448	18,348 81,324 90,477	1 2
944, 402 148, 899 15, 692 17, 672; 36, 764 8, 074 1, 960 53, 738 14, 639 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 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993 1, 993 1, 993 1, 993 1, 993 1, 993 1, 993	538, 369, 81, 586, 16, 965, 23, 425, 38, 890, 6, 571, 1, 838, 25, 915, 13, 958, 6, 887, 4, 206, 2, 578, 057, 163, 977, 166, 393, 209, 457, 10, 313, 2, 911, 4, 191,	713, 228 99, 557 10, 296 13, 999 20, 304 4, 412 1, 535 33, 410 15, 679 4, 635 2, 055 1, 831, 654 92, 295 94, 159 184, 850 184, 850 27, 892 6, 866 5, 537	166, 005 20, 019 4, 816 4, 553 14, 974 210 82 18, 233 8, 786 2, 081 841, 841 860, 679 45, 483 127, 334 17, 097 5, 341 3, 379	2, 834, 112 507, 839 267, 144 333, 043 406, 810 2, 300, 252 390, 498 3, 198, 404 157, 329 98, 763, 425 8, 167, 067 254, 816 665, 305 230, 352 877, 127 237, 830	2, 883, 627, 544, 568, 255, 213, 298, 787, 384, 112, 2, 257, 401, 367, 685, 789, 845, 163, 229, 827, 94, 822, 973, 483, 220, 263, 262, 268, 522, 262, 268, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 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566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 522, 566, 566	2, 198, 486 339, 817 197, 613 280, 756 2, 021, 252 286, 574 3, 454, 917, 550, 309 639, 298, 185, 383 85, 048, 023 4, 013, 257, 255, 928, 185, 383 85, 448, 023 4, 013, 257, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189, 548, 189,	1, 433, 444 200, 833 224, 719 232, 308 192, 048 1, 339, 466 1, 159, 284 250, 260 360, 281 98, 096 70, 817, 875 2, 928, 288 581, 550 166, 239 438, 782 265, 057 785, 196 212, 534	3 4 5 6 7 8 9 10 11 12 12
1,976,060	5,410 2,183,262	3,471 1,691,715	3,379 894,659	237,830 15,973,551	219,033 14,955,198	237, 470 10, 561, 171	212,534 7,671,578	15
880, 135 4, 528, 205 117, 956 45, 723 45, 854 46, 033 102, 603 127, 085 319, 223 2, 074, 139 69, 288 581, 374 2, 430, 372	1, 118, 325 5, 600, 442 135, 046 25, 314 25, 425 45, 999 119, 940 130, 991 242, 439 1, 915, 021 60, 101 495, 021 2, 808, 129	1, 354, 245 4, 665, 973 205, 550 879 9355 53, 093; 102, 294 102, 612; 239, 542 1, 784, 354; 18, 263 124, 960 2, 029, 293	2,043,912 5,224,090 154,646 2,704 2,083 18,039 28,974 82,931 155,657 783,620 1,802 15,974 1,021,332	1,282,815 6,547,545 350,971 6,868,185 3,965,131 1,474,676 1,866,417 444,256 8,757,796 80,923 683,359 4,353,102	1, 668, 972 8, 360, 968 404, 056 5, 959, 107 3, 144, 438 1, 1597, 328 423, 339 1, 508, 661 6, 219, 672 70, 197 582, 469 4, 491, 780	I, 954, 395 6, 695, 844 368, 845 2, 497, 478 1, 043, 164 825, 878 854, 466 348, 229 1, 181, 154 4, 549, 037, 27, 132, 194, 488 2, 994, 142	2,539,133 6,499,154 280,527 408,537 96,872 925,503 796,604 261,924 1,009,724 1,895,267 3,592 33,154 1,716,432	17 18 19 20
10,700,312	11,922,663	9,488,568	7,569,868	29,615,120	27,967,557	18,885,963	12,903,962	
4, 204, 028 1, 503, 316 218, 772 153, 426 38, 506 26, 296 3, 804 3, 938 	2,517,415 947,382 15,192 10,427 20,977 6,620 79,483 77,242 	1,943,026 496,927 29,786 12,480* 46,415 7,194 142,846; 142,447; 700 128 2,770 90* 128 2,770 44,129 25,895	1,356,525 244,222 14,218 7,083 707 471 60,695 63,590 4 61: 93 521; 901, 2,8773 4,842, 6,577	14,021,917 5,790,470 8,128,303 5,514,743 518,605 279,844 5,111,837 5,733,444 6,131,850,516 788,388 466,539 410,409 541,625 4,244,478 4,125,980	3,671,941; 345,409; 151,513; 5,877,353; 3,079,311; 1,218,988; 541,940; 325,460; 1,327,651; 1,624,321; 3,126,691; 2,953,519; 8,314,658	236,088, 64,958, 5,356,805, 4,495,916, 2,471,637, 879,285, 329,666, 191,987, 1,028,350, 1,269,103, 1,790,512, 1,742,918,	9, 624, 484 2, 262, 261 7, 208, 244 2, 725, 529 161, 156 52, 555 3, 536, 017 2, 642, 966 848, 954* 860, 603 65, 250* 80, 451 467, 690* 402, 043 763, 7822 759, 160 4, 652, 062*	26 27 28 29 30 31
59,841 446,060 314,952 14,455 40,688 13,173 261,225 295,624	88,945 886,313 274,922 12,357 39,030 9,824 298,222 261,220	54,586 266,451 	20,658 168,175 33,193 29,890 4,303 1,379 119,572 88,623	13,727,659 5,984,851 - 3,304,181 553,682 2,277,729 462,729 591,626	10,908,771 5,210,909 3,244,859 549,323 2,359,794 347,278 644,101 1,715,341	7,914,472 4,269,008 1,765,940 440,398 1,823,653 343,149 454,545 1,188,763	4,666,859 2,113,799 1,089,974 617,253 183,298 758,510 234,749 240,512 692,462	34 35 36 37 38

	· · · · · · · · · · · · · · · · · · ·		United Kin	uadowa	
No.	Item.	1929.	1930.	1931.	1932.
	III. Fibres and Textiles—concluded. Wool—concluded. Blankets		159, 673	114,463	285,4302
2	Felt, pressed	180, 430 827, 281 76, 580 31, 015	816,548 60,991 88,724	591,064 46,532 17,638	149,587 13,983 16,508
	Totals, Wool ¹	41,115,840	35,040,366	25,320,303	14,710,046
3	Artificial Silk (rayon)— Rovings, yarns, warps, etc	53,955 72,858	67,662 67,367	312,701 274,069	229,710 240,217
4	Woven fabrics, except ribbous yd.	8,432,190 4,697,763	9,887,111 4,821,398	7,839,044 3,441,024	1.131.861
5 6	Other fabricsdoz. pr.	72, 856 8, 432, 190 4, 697, 763 30, 408 73, 328 360, 829	15,056 74,264 341,882	7,839,044 3,441,024 13,639 37,458 170,829	1,664,264 2,188 3,237 14,396
	Totals, Artificial Silk ¹ \$	5,301,509	5,396,552	4,016,649	2,012,769
7	Other Fibres— Mexican istle, or tampico cwt.	45 841	519 7,518	377 3,916	131 2,099
8	Manila and sisal owt.	4,712 37,919	-	7,386	-
•	Binder twinecwt.	29,022 325,336	25,360 348,108	22,600 277,334	26,396 226,640
	Totals, Other Fibres ¹ \$	453,753	493,112	348,240	273,591
10 11 12	Mixed Textile Products— Rags, wastes, etc. \$ Fishing lines, nets, ropes, etc. \$ Twine and cordage, n.o.p. lb.	480, 499 1, 086, 777 756, 980 281, 066	440,901 1,273,651 2,025,964 293,009	212,696 1,064,916 1,915,016 257,204	138, 915 566, 037 1, 236, 986 126, 382
13 14 15	Artificial leather	511 552, 911	386, 295 619, 052 467, 798	265,847 493,572 371,802	771 199,962 1,272,170 ² 216,654
16 17 18 19 20 21 22 23	Embroideries, lace, etc., n.o.p. Garments, knitted, n.o.p. (incl. underwear) Gloves, knitted or labric	673,065 487,482 720,398; 1,028,779 511,962; 273,867 740,787 506,186 4,386 156,036	684, 404 1, 136, 427 419, 500 274, 899 616, 434 289, 872 7, 978 232, 461	625, 709 898, 088 322, 229 140, 155 303, 876 219, 047 17, 907 199, 496	375,027 659,565 220,445 70,803 203,247 108,013 9,081 167,053
	Totals, Mixed Textiles ¹ \$	7.866,964	7,529,077	5,684,805	3,477,832
	Totals, Fibres and Textiles! \$	77,021,060	68,243,821	49,207,120	30,509,937
	IV. Wood, Wood Products and Paper.				
24	Wood, Unmanufactured or Partially Mird.— Railway ties	-	-	-	8 12
25	Sawmill Products— Lumber and timber— Chestaut	_	_	_	
26	Gumwood	-	-	-	•
27	OakMft.		10	2,770	
28	Pitch pine		5,183	2,770	
29	Yellow poplar		[]	ا أ	
30	Walnut	-	10 3,952		·
31	Veneers	3,377	6,729	5,142	6, 154
	Totals, Wood, Unmird. or Partially Mird.1	19,998	49,410	28,953	10,701

¹ Totals include other items not specified. 2 Quantities are in lb. in 1982.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

WHIRGON!	, Umiseu	States and	u AB Cou	HATES, HEC	at years 12		vilued.	
	Unite	d States.			All Co	untries.		
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	No.
27, 298 66, 239 168, 475 77, 625 3, 601, 113	47,848 136,538 722,437 136,289 3,021,193	81,474	6,916 13,148 20,045	925,462 504,900 262,561	1,015,465 1,071,691 360,820	729,848 357,751 216,817	106,141	:
63,878 87,392 3,598,442 1,413,483 45,289 297,054 635,780	54, 904 80, 144 4, 416, 485 1, 750, 850 55, 948 373, 728 745, 233	105,435 3,141,720 1,269,659 28,510 151,510	191,280° 387,347 42,868 3,781	J 401,040	1,678,450 20,049,045 9,466,146 221,998 517,008	1,760,829 21,474,671 8,000,416 229,434 375,357	927,742 2,482,722 3,375,691 240,396 8,774	
2,382,566	2,907,535	1,957,050	637,788	11,876,363	13,418,910	11,521,404	5,045,161	
24,667 184,615 709,587 5,452,967 138,233 1,566,442	3,872 54,298 453,678 3,773,122 21,895 266,336	2.976.763	1 14.841	193, 274 745, 831 5, 766, 251	459,588 3,822,613	24,971 485,442 3,068,576 106,109	1,384 20,972 465,693 1,844,738 220,981 1,521,773	8 9
7,581,919	4,372,057	3,401,715	1,883,041	9,795.697	6,761,901	4,720,188	3,654,231	
1,894,810 1,062,204 451,458 118,526 414,555 1,889,554 893,425 400,752 183,148 168,370 76,342 22,163 456,649 633,881 1186,657 464,313 9,491,895	2,015,572 1,173,004 983,352 269,423 233,081 1,367,232 1,315,661 184,753 192,83 192,83 192,83 192,644 30,570 300,134 636,039 211,281 317,301 9,077,793	600,586 634,398 126,532	55,094 55,614	2, 294, 969 2, 441, 706 432, 198 415, 934 11, 567, 975 889, 332 1, 404, 508 1, 498, 731 1, 607, 384 488, 424 1, 748, 786 1, 481, 103 460, 966 634, 283	2,604,125 3,283,4243 1,771,818 1,771,818 1,944,403 915,634 1,768,757 1,708,340 1,438,830 1,527,205 1,381,125 550,136 566,492	1,738,703 2,790,376 414,202 171,562 1,188,159 1,337,367 652,035 1,562,148 1,470,648 472,499 326,939 868,769 1,173,832	968,866 2.115,387	13
888,732, 869,379, 7,782 426,894 22,416 942,458 45,996 2,791,033 41,480 1,318,488 11,564 7,329	777,750 797,750 7,114 386,771 21,082 961,218 40,699 2,685,170 32,212 1,111,394 151,191 651,513 67,749	450,587 547,717 4,976 248,956 14,679 611,835 25,385 1,457,227 10,939 332,131 6,193 312,185 5,662	233,814 328,132 3.390 180,122 9,339 353,691 20,202 1,044,673 4,787 135,661 4,013 161,929	888, 738 869, 388 7, 782 426, 894 22, 499 951, 237 46, 998 2, 802, 491 41, 482 1, 318, 496 11, 554 585, 967 7, 335	777,750 797,750 797,750 7,114 368,771 21,156 908,525 40,800 2,701,080 32,212 1,111,394 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,94 1,113,	4,976 248,956 14,679 611,835 25,435 1,464,905 10,939 332,131 6,193 312,185	233,822 328,144 3,390 180,122 9,344 354,976 20,388 1,058,479 4,787 135,061 4,013 161,929	24 25 26 27 26 27 26 29
942,210 993,600 16,245,433	805,405 1,166,542 14,833,901	610,026 875,242 9,482,480	357,752 765,422 5,610,189	942,939 997,463 16,639,349	1,212,631 15,348,150	810,026 890,384 9,808,816	357,752 775,958 5,755,866	31

13.—Principal Imports into Canada for Consumption from United

No.	Item.		United F	ingdom.	
TAO.	item.	1929.	1930.	1931.	1932.
	IV. Wood, Wood Products and Paper—concl.				
1	Wood, Manufactured— Barrels, emptyNo.	9,614 103,552	1,981 23,279	35 208	1 3
2	Staves, of oak	=	,	-	_
3 4	Other cooperage,	184 69,597 48,396 3,786	30,904 22,793 4,129	34 24,884 13,800 3,855	25,79 13,67 7,23
5 6 7	Other cork mirs	3,736 18,837	4,129 15,650	3,855 13,725 15 69	7, 23 41, 68
8 9 10	Doors	919 4,499 544,649	534 1,414 627,691	1,000 330,156	98 168,50
	Totals, Wood, Manufactured [†] \$	933, 229	931,457	558,676	304,57
	Totals, Wood and Wood Products \$	953,222	980,867	587,629	315,27
11	Paper— Chipboard, not pasted	-	-	_	
12	Newsboardlb.	115,230 9,921	103,584 8,271	316,984 17,521	_
13	Strawboardlb.	560 18	21,088 546	10,891 516	560 2:
14 15	Other paper boards\$ Book paper for magazines, not coated lb.	40,400 51,179 3,845	21,324 23,887 1,929	28, 181 24, 581 2, 569	36,70 25,61 1, <i>5</i> 7
16 17	Book and printing paper, not coated, n.o.p. 1b.	3,845 2,213,659 188,881	2,518,513 213,895	2,046,312 171,552	1,657,49 136,05 57,91
18	Surface-coated paper	33,664	91, 434	181,441, 29,604 51,703 119,929	9,80 38,15
19 20 21	Printing paper, n.o.p. \$ Wrapping and packing paper. \$ Writing paper and stationery, n.o.p. \$ Envelopes M	64,821 98,738 6,676	101,447 114,414 8,077	119,929 89,493 7,304	105, 29 68, 72 5, 27
22	Envelopes M Wall paper roll	24.691	23 6991	24,640 336,463	15, 93 375, 251 48, 86
23	Paper boxes and containers	554,641 136,750 22,233	543,340 130,884 37,795	74,565 29,806	48,86 15,15
20	Totals, Paper 1	1,532,436	1,665,590	1,467,176	1, 180, 76
	Books and Printed Matter—				
24 25 26	Newspapers and magazines \$ Photographs, chromos, engravings, prints, \$	23,709 154,308	49,604 155,351	40,402 160,603	77,764 58,905
26	Advertising printed matter	356,642 130,544	421,8 7 2	491,560 197 190	396, 45 159, 18
27 28 29	Labels, tags, tickets, etc	67,9231	63,490 158,291 529,701	49,038 158,765 525,108	37, 16 191, 69
29	Text books	173,131 599,607	529,701	525, 108	559,05
	Totals, Books and Printed Matter \$	2,449,371	2,604,245	2,485,999	2,330,98
	Totals, Wood, Wood Products and Paper 1	4,935,029	5,250,702	4,540,804	3,827,02
	V. Iron and Its Products.		1		
30	Iron oreton	7 448	-	-	
31	Pigs, Ingots, Blooms and Billets— Pig ironton	6,499	7,872	3,016	4,350
32	Ferro-silicon and ferro-manganeseewt.	106,599 42,888 142,717	188,774 111,140 345,140	53, 861 58, 001 162, 634	70, 08: 8, 37: 14, 716
	Totals, Pigs, Ingots, Blooms and Billets ¹ \$	296,072	533,734	261,524	136,482
33	Scrap iron or steel ton	37	66 250		70 163

Totals include other items not specified. Quantities are in lb. in 1932.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

	United	States.			All Co	intries.		No
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	-
179,828 372,808	133,034 179,594	87,034 82,701 4,355	41,341 40,406	193,150 486,835	137,734 210,549	88,590 85,698	43,006 41,949	
9,029	9,201 922,036	266.476	3,130 151,551	9,029 848,578	9,201 922,036	4,355 266,476	3,130 151,551	1
848,578 329,967 109,396	406.325	280,553 84,397	214.654	330,405 487,849	406,425 411,540	280,587 355,298	214,654 317,268	H
113,477 449,234	134,349 125,979 445,683	97,069 308,873	67,844 83,715 288,935	362,602 823,641	298, 564 882, 194	269.5431	218,695 429,835	
749,828 439,980	612.927 386,833	300,409 266,743	193,003 824,684	776,047 439,980	636,767 386,833	587, 101 320, 110 806, 917	258,877 328,924	1
1 095 817	1,000,863 595,179	585,410 347,927	672,546 139,823	1,085,817 586,595	1,000,863 595,766	647,365 347,937	681,308 140,210	
585,676 329,439 2,298,240	320,485 3,171,620	270,999 1,896,028	197,991 698,863	337,542 3,228,217	325,691 4,157,460	274,503 2,526,139	200, 184 1,006, 876	1
10,258,234	10,590,087	6,444,443	3,951,101	12,386,421	12,707,244	8,013,842	4,817,836	
26,508,667	25,423,988	15,926,923	9,561,290	29,025,770	28,055,394	17,822,658	10,573,702	
10,602,203	8,283,864	5,445,566 105,741	2,506,494	10,602,203	8,294,364	5,445,566	2,506,494	
223,496 11,123,653	160,727 16,300,040	15,456,272	61,045 -	11 256 147	161,092 16,616,533	105,741 15,804,359	61,045	۱
494,628 8.807.912	635,457 7,857,337 201,920	543,713 984.052	759,058	505,405 10,319,775 257,916	652,535 9,794,235	563,393 1,196,857	1,686,769	
226, 466 790, 366 5,922,567	201,920 830,912	24,803 758,150	21,630 1,168,234	257,916 833,500	233,333 856,820	28,980 788,737	33,956 1,210,058	1
5,922,567 313,888	6,846,282 332,178	4,696,743 238,005	50,352 2,078	5,973,746 317,733	6.370,169	4,721,324 240,574	75,969 3,650	ı
5,110,149 368,223	6,274,952 573,617	4,523,568 411,865	4,309,825 298,781	7,423,806 567,625	334,102 8,887,899 795,581	6,742,136	6,077,447 443,185	1
=		1,469,444 363,389	1,196,840 305,398	-	-	596,531 2,143,398 433,435	1,734,881 358,153 155,712	
119,910 591,731	660,451 676,061	184,635 775,796	112 371	166,670 869,287	815,733 1,100,808	433,435 248,335 1,151,590	155,712 675,960	
220,994 51,662	264.1LO	136,806 54,158	419,651 82,717 38,768	869,287 363,789 63,936	423 3841	261,806 69,278	180, 267 51, 505	4
131,9181	59,458 142,385 2,419,010	136,673 2,348,543		167,329 4,170,399	73,135 181,530 3,176,029 517,658	179, 256 2, 758, 990	147,478 1,519,327 ² 157,851	
3,426,653 432,074 1,330,104	324,728 1,304,404	250,249 968,423	1,047,4104 95,788 649,765	611,806	517,658	344,092	157,851	ĺ
10,678,222	11,592,086	9,350,863	6,403,568	1,393,255 13,649,415	1,401,527	1,028,278	686,790 8,825,141	ŀ
2,827,261 1,165,732	4,140,690 1,172,630	4, 116, 620 1, 118, 132	3,644,063 480,555	2,860,056 1,467,556	4,197,860 1,500,949	4,165,517 1,436,476	3,734,439 585,387	
6,843,920 3,415,102	7,849,958 3,096,811	5 242 529	3,287,544 1,217,027	7,296,754 3,581,304	8,064,106 3,324,009	5,888,504 2,300,960	3.791.318	1
270,879 161,217	272,341 162,835	2,044,226 223,884 161,306	144,806 150,667	359,036 461,917	352,399 461,720	288, 186 468, 170	1,421,352 194,738 480,762	
627,253	719,244	702, 187	603,534	1,329,989	1,352,744	1,331,503	1,237,836	
13,382,405	14,720,169	12,860,742	9,619,969	16,539,633	18, 130, 779	16,136,501	12,609,325	
50,561,294	51,734,243	28,138,428	25,584,827	59,214,618	60,951,077	46, 042, 029	32,008,168	
1,565,042	1,639,700 3,995,917	868,972 2,103,470	544,909	2,272,130	2,456,919	1,428,970	802, 163	
3,425,168	[1,213,794	4,391,269	5,020,921	3,266,402	1,698,983	
38,514 632,028	22,573 395,087	6,463 116,357	3,309 56,862	46,425 757,660	31,618 552,984	10,445 184,214	8, 0 39 132,510 18,264	
14,318 117,968	24,606 96,308	48,149 368,517	4,821 31,911	129,568 483,876	190,648 629,056	116,581 600,417	18,264 64,525	
2,263.792	1,747,337	804,224	357,671	3,143,014	2,716,924	1,217,833	606,093	
138,752 1,547,549	134,291 1,485,932	102,229 976,689	50, 127 430, 366	141,915 1,571,233	136,322 1,501,754	104,388 996,275	51,908 442,347	

13.—Principal Imports into Canada for Consumption from United

No.	Item.		United E	ingdom.	
NO.	Item.	1929.	1930.	1931.	1932.
	V. Iron and Its Products—continued.				
	Castings and Forgings—	5 004		40.000	
1 2	Axles, parts and blanks	7,924 86,320	3,903 90 742	10,622 50,651	11,44 30,77
~	\$	415,441	3,903 90,742 440,289	50,651 244,964	11,44: 30,77 147,36:
	Totals, Castings and Forgings ¹ \$	456, 804	496,090	816,286	202,90
3	Rolling-mill Products— Band and hoop	29,951	34,557	22,211	13,88
	Bars and Rails	130,663	160,704	218,977	65,21
4	Railway rails ton	41 1 720	346 9,614	64 2 716	2 81
5	Other bars and rails cwt.	1,720 147,743 1,020,642	148,909 1,040,652	2,716 93,685 580,110	78,09 431,98
_	Plates and Sheets			· ·	
ŧ	Boiler plate, cwt.	1,361 2,709 525,686 2,415,503	2,277 4,512	8,223 20,852	20,80 40,65
7	Tinned plates cwt.	525,686	528,618	723,016	806,00
8	Plates, not less than 30 in. by 1 in., n.o.p. cwt.	120,084	2,445,624 274,848	3,314,665 1,925	3,073,05
	Sheets, 080 in thick or less, n.o.p cwt.	241,390 146,755	477,975 210,626	3,453 225,012	135,52
	.	421,550	643,649	649,073 279,926	340,06
10	Plates, rolled, more than 60 in, wide cwt.	-	-	279,920 480,241	447, 170 859, 30
11	Sheets coated with metal cwt.	230,774	261,109	251,415	171,33 541,39
12	Sheets for mfr. coated sheets cwt.	864, 285 158, 719	950,300 141,395	897,328 209,838	149,71
13	Skelp for pipecwt.	415,304 196,846	371,790	559,369 142,028	304,69 46,49
	l ' '' ' s l	496,690	150,862 381,370	370,652	120.36
1.4	Rodsewt.	11,15t 14,343	2,209 3,346	236 547	11,20 15,20
15	Structural iron\$	264,846	824,746	441,562	345,73
	Totals, Rolling-mill Products1 \$	6,736,940	7,816,798	7,692,823	6,335,68
	Tubes, Pipe and Fittings—	86 100	00.700	100 181	90.74
16 17	Boiler tubes \$ Cast iron pipe ton	55,198 370 17,537	32,360 978	109,151 4,209 128,913	80,74 2,59 77,64
18	Pipe fittings	17,537 15,844	38,373 10,693	128,913 21,047	77.64 1,44
	Totals, Tubes, Pipe and Fittings1 \$	534,580	475, 249	474,406	266,22
	Wire-				
19	Barbed fencing cwt.	581	260	1,706	2,21
20	Galvanized, not telegraph or telephonecwt.	1,887 627	817 3,394	9,312 422	10,38 76
21	Woven or welded wire lencing	8,520	19,256	1,105 198,316 115,866	2,12 59,53
22	Steel wire for rope	135,458 826,374	166,421	115,866	82,40
23	Wire, twisted, braided, etc., wire rope \$	826, 374 255, 189	1,056,126 308,355	726,622 242,401	532,48 152,27
	Totals, Wirel\$	1,487,676	1,857,541	1,227,287	793,98
24	Chains\$	220,023	239,805	162,593	81,55
25	Engines and Boilers— Boilers and parts	18,770	20,473	15,772	4,05
26	Boilers and parts	192 294,529	181 495,016	70 247,315	1 54,24
27	Engines for trucks, gasolene or steam No.	234,929	1,206	- 1	- ,50
28	Engines, automobile, n.o.p	- [-]	1,200	12,046	8,66
29	Engines, diesel, and parts No.	I	-	471	6
30	Locomotives and parts	-	- 2	213,875	159,76
	*		36,172		
	Totals, Engines and Boilers1 \$	1,118,507	1.235.961	740,909	317,58

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

		untries.	All Co			i States.	United			
No.	1932.	1931.	j 1930.	1929.	1932.	1931.	1930.	1929.		
1 2	369,718	415,892	1,029,609	1,549,559	358, 200 67, 732	404,915	1,025,706	1,541,635		
2	98,509	140,026 624,392	209,440 943,202	208,505 940,291	67,732 296,560	89,375 379,428	118,698 502,913	1,541,635 122,185 524,850		
	·	2,769,782	4,497,406		1,610,246	2, 147, 126	3,998,939	6,402,306		
١.	200 245	005.451			200 010					
3		605,451 2,358,573	1,238,321 4,532,933	1,295,373 4,461,282	309,943 1,006,885	534,171 1,941,115	1,121,877 4,113,778	1,000,120 4,142,934		
#	10,266 378,547	15,916 521,939	25, 279 852, 718	33,858 1,054,406	9,874 370,941	15,006 501,212	22,313 781,101	31, 130 989, 909		
5	540,706 1,524,214	1,338,518 3,375,738	3,055,374 8,069,852	3,930,977 10,223,968	370,941 267,502 810,520	671,014 2,226,951	2,307,180 6,028,346	3,287,886 8,410,381		
١.			l ' '	1						
•	184.386	151, 157 343, 417	229, 106 563, 933	241,463 601,061	69,829 141,576	141,953 320,834	226, 186 557, 880 1, 012, 559	239,390 594,653 1,093,246		
7	851,149 3,285,617	1,787,797 8,785,617	1,541,177 7,703,717	1,618,969 8,008,574	44,682 211,850	1,064,781 5,470,952	1,012,559 5,258,093	1,093,246 5,592,924		
8	· - :	88, 187 171, 773	7,703,717 1,987,492 3,724,845	1,749,913 3,335,877		83,566 164,431	5,258,093 1,447,510 2,822,544	5,592,924 1,419,257 2,771,393		
9	701.857	1, 146, 375	1.552,287	1,640,672	546,062	886,239	1,301,158	1,446,090		
10	863, 185	3,852,531 1,163,955	5,489,780	5,586,984	1,856,438 348,462	3,139,132 802,986	4,765,475	5,086,015		
11	1.558,734	2,055,184 528,035	718, 110	682, 133	621,058 93,407	1,461,620 272,967	452,724	450,669		
_	915,409	1,864,835	2,710,455	2,566,409	364,658	956, 954 890, 757	1,749,844	1,700,423		
12	654.561	1,100,595 2,915,180	815,030 2,306,479	661,568 1,814,785	123,979 349,864	2.355.811	675,735 1,934,689	502,849 1,399,481		
13	1,092,761 2,028,601	2,533,515 4,564,676	3,400,660 6,350,654	3, 172, 428 5, 859, 725	998,226 1,857,001	2,390,354 4,192,155	3,248,716 5,967,542	2,873,827 5,229,156		
14	428,750	714,693	1,040,878 1,727,773 14,789,071	1,096,776	234,079 424,885	482.023	502,383 955,506	296,690 572,292		
15	3,404,695	1,093,769 6,120,485	14,789,071	1,634,302 11,828,234	2,744,870	783,006 5,187,118	13,004,728	10,819,130		
	20,512,246	40,613,750	61,934,303	60,187,907	12,974,380	31,024,249	50, 239, 478	49,915,575		
16	552,849	874,656	1,229,700	1,092,018	397,579	673,214	1,083,311	935, 352		
17	3,403 106,967	8,871 287,143	5,894 220,761	5,672 201,527	208 13,516	898 68,570	2,438 120,092	1,601 90,316		
18	402,014	932,304	1,551,144	1,203,243	389,110	909,947	1,519,104	1,185,045		
	1,654,609	3,528,079	5,948,162	4,697,279	1, 255, 536	2,804,607	5, 191, 177	3,884,483		
19	47,724	122,608	98.721	113,229	14,210	63,426	64,642	68,208		
24	125,010	334,214 28,526	316, 154 92, 699	353,585 212,350	39,076 3,733	187, 192 27, 899	201.744	224, 285 209, 784		
	38,626	70, 154	240,546	545, 541	9,967	68, 661	88,030 217,720	537,023		
21 22	178,306 82,796 535,299	447,315 121,125	178,973	155, 145	99, 106 396	190,712 4,828	12,326 76,792	19,687		
23	535,299 215,205	759,849 367,642	178,973 1,135,749 466,309	954,632 407,078	2,819 28,425	30,360 106,167	76,792 121,394	128,256 134,478		
	1,347,425	2,436,667	3,658,798	3,806,253	380,576	944, 231	1,484,523	1,997,228		
24	227,009	510,363	885, 155	1,030,694	131,672	321,094	613,428	752,418		
25 26	134,109 52	365, 207 136	1,039,183 222	660, 135 224	130,058 38	342,561 65	1,018,710 41	641,365 27		
27	167, 768	451,350	863,533 2,819	549,622	107,770 2,499	198.632	368,517 2,818	248,876		
	2,499 285,818 22,786	1,444 209,229 27,957	362,100	110 010	2,499 285,818	1,444 209,229	360,894	110 017		
28	4,656,513	5,283,597	66,689 6,957,137	118,817 11,727,816	22,786 4,646,781	27,955 5,270,749	66,687 6,956,897	118,817 11,727,816		
29	761,091	1,408,480	5	[88 534,322	166 1,041,679	_ :	-		
30	166,236	78 546,702	80 523,284	1,151,286	17 166, 236	78 546, 702	78 487, 112	1, 151, 286		
	7,210,249	10,033,964	15, 146, 437	19,307,250	6,797,307	9,115,354	13,845,194	18,033,362		

No.	Item.		United K	ingdom.	
	ræm.	1929.	1930.	1931.	1932.
_	V. Irou and Its Products—continued.				
_	Farm Implements and Machinery—	F01		1	
1	Cream separators,	521 11,862	-	-	_
2 3	Other dairy machinery\$ Harvesters	739	8,786	6,862	34,623
4	1 2	13,736	7 912	20 8,601	6.533
-	Other harvesting implements \$ Planting and Tillage—	I	7,813		0,000
5	Drills and parts	267 2,791	1,010 2,771	81 277	136
8	Harrows and parts. Ploughs and parts. Other planting.	93 1,224	2,771 176 1,514	692 1,119	49 1,480
	Seed Separation	1,224	1,011	1,116	2,700
9	Threshing machine separators No.	-	- [-	
10 11	Threshing machine separator parts Combined harvester-threshers and parts No.	1,163	- {	- [
12	Traction engines, farm, \$1,400 or less No.	-	12	_ 15	
	* 	-	9,508	9,013	1,187
13	Other farm tractors, parts and repairs	372	65,614	24,242	8,419
	Totals, Farm Implements and Mach'ry! \$	141,766	168,502	121,091	108,605
14	Hardware and Cutlery— Cutlery\$	741,932	675,529	566,500	403,757
	Hardware—			198, 229	218,384
15 16	Needles and pins	205,807 4,752 22,353	217, 158 3, 980 19, 338	4,042	2 084
17	Screws	1,329	1.4901	26, 166 981	14,247 711
18	Locks \$	26,870	37,703	11,987	7,218
	Totals, Hardware and Cutlery 1 \$	1, 133,003	1,116,982	868,390	678,979
19	Machinery (except Agricultural)—				
	Cleaners, vacuum		24	317	1.000
20	Sewing machines	11,980 209,489 249,397	8,335 134,485	5,960 113,553	1,000 38,555
21 22	Sewing machine parts and attachments \$ Washing machines, domestic	249,397	280,503	99,676	40,834
23		384	8,628 29,657	35 7 425	1,075
24	Diamond drills and parts. Ore crushers, stamp mills, etc. Rock drills Well-drilling machinery and equipment Other mining and metallurgical machinery	12,449 193,015	338,597	7,435 258,227	210,011
25 26	Rock drills	193,015 12,703 2,280	338,597 88,612 23,191	73,560 8,524	98, 690 840
27	Other mining and metallurgical machinery \$ Office or Business—	109,324	146,318	181,015	67,923
28	Adding machines No.	.3	- 1	3 405	518
29	Typewriters No.	104 19	195	541	184
30	Other office or business	1,171 4,873	11,302 417	33,818 428	11,699 4,476
31	Duinting and Deal-binding	139,945	218,783	188,631	122,843
32	Printing presses. Printing presses. Typesetting machines. Other printing and bookbinding. Air compressors. Coke and gas machinery. Cranes and derricks.	15.2941	1, 107	1,517	898 50,260
33 34	Other printing and bookbinding	53,582 114,849	51,291 149,071	143,365 81,069	64,653
35 38	Coke and gas machinery	291,149 37,733 206	254,564 56,949 2,050	70,262 64,940 2,250	26,784 481
35 36 37 38	Ice-making and refrigerating machinery Lathes, metal-working	206	2,050	2,250 55,440	_
39	Letnes, metal-working	68,526 83,031	76,429 28,367	34,481 456,296	23,975 326
40 41	Logging equipment Metal-working machines, n.o.p. Paper- and pulp-mill machinery Pumps, power, and parts.	119,831 343,642	187,419 39,892	456,296 14,863	249,126 4,808
42	Pumps, power, and parts	66,640	99,192	14,863 66,733 27,238	38,450 12,205
43 44	Rolling-mill machines	905	5,108	6, 252 7, 357 595, 684	10, 211
45 46	Shovels, steam and electric	46,510 753,498,	6,808 911,294	595, 684	783, 325
20	Totals, Machinery (except Agricultural) ¹	3,997,457	4,558,199	3,773,148	2,600,519
_	1 Totals include other items not specified	0,001,101			

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32—continued.

								==
	United	States.		L	All Cor	intries.		No.
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	110.
							- <u>•</u>	
10,112 586,484 216,238 7,566 1,993,528 497,186	11,238 681,530 248,385 5,155 5,031,997 423,413	14,763 859,311 178,455 3,028 1,439,502 395,735	5, 920 338, 323 154, 295 257 54, 399 65, 755	19, 451 853, 495 219, 659 7, 567 1, 998, 914 535, 412	22,010 955,182 259,113 5,185 5,032,950 464,848	23,838 1,089,904 188,170 3,029 1,439,947 434,595	10, 530 455, 721 191, 686 257 54, 399 82, 136	1 2 3 4
993,564 736,249 2,151,498 354,822	709,572 752,051 2,211,835 299,233	210,488 315,530 994,308 189,723	13,714 18,852 22,914 51,013	997, 168 739, 213 2, 158, 059 372, 802	710,582 755,770 2,229,851 315,033	210,569 317,069 997,793 191,062	13,714 19,122 23,449 53,156	5 6 7 8
7,323 7,884,772 1,220,041	1,970 2,137,415 473,641	854 737,982 235,382 1,524 2,215,159	54 48,019 21,785 13 17,008	7,323 7,884,772 1,221,204	1,970 2,137,415 475,084	855 738, 195 235, 548 1, 524 2, 215, 159	54 48,019 21,785 13 17,008	10 11
21,777 18,931,613 2,648,639	14,979 12,395,796 2,645,778	5,479 4,179,964 2,243,439	334,445 578,491	21,777 18,931,613 2,649,021	15,276 12,573,398 2,744,403	6,550 4,816,839 2,325,881	334,658 600,339	13
39,826,254	29,338,753	15,408,492	3,049,102	40,292,899	30,075,453	16,495,217	3,315,542	
404,998	425, 342	326,346	229,745			1,294,512	981,768	14
229,993 46,284 570,120 175,133 493,685	246, 309 47, 529 520, 624 226, 571 527, 625	212,338 29,472 329,076 108,189 365,722	131,026 19,189 224,309 86,008 162,446	471,462 51,261 593,877 183,144 567,663	515, 181 52, 476 543, 517 241, 199 605, 375	450, 695 34, 101 857, 620 117, 917 408, 928	385, 326 21, 676 240, 443 88, 389 193, 640	15 16 17 18
2,869,146	3,067,518	1,968,829	1,300,361	4,774,857	4,950,119	3,404,989	2,469,475	
5,957 171,341 12,764 522,039 222,366 24,722 1,661,013 853,295 429,350 618,281 1,776,941	7, 189 269, 534 13, 544, 488 190, 249 22, 995 1, 565, 479 600, 987 1, 141, 218 790, 596 5, 461, 999 2, 474, 978	17, 527 774, 907 9, 119 356, 921 142, 451 1, 040, 286 170, 236 974, \$53 419, 280 1, 738, \$55 2, 161, 822	7,237 241,105 5,425 257,259 106,924 6,919 521,261 440,006 236,997 276,929 843,187	5,988 171,799 24,805 735,410 473,350 24,758 1,662,425 872,040 669,028 635,189 1,779,221	269,954 22,361 683,957 471,324	17,560 779,358 15,389 472,138 243,195 14,809 1,040,381 177,671 1,340,246 493,296 1,859,936 2,446,668	7,745 249,556 6,441 297,700 150,426 6,921 522,342 26,931 674,282 335,904 279,645 935,976	29 21 23 23 24 25 26 27
9,897 1,268,044 20,832 1,112,228 684,679	8,501 1,109,286 18,706 952,537 740,114	5,061 594,879 10,533 499,302 869,811	1,966 445,678 8,112 285,620 523,652	9, 923 1, 269, 423 21, 044 1, 115, 982 689, 553	8,553 1,112,992 19,120 968,907 740,768	5, 113 603, 167 11, 155 534, 427 870, 625	2,030 454,632 8,316 297,561 528,241	28 29 39
3, 232, 933 1, 136, 936 1, 001, 225 1, 273, 903, 247, 605 1, 357, 874 1, 222, 026 82, 063 1, 271, 518 4, 546, 620 1, 390, 874 1, 130, 989 62, 672 1, 487, 139 3, 825, 228	1,642,514 1,086,194 885,414 1,371,917 210,400 1,505,106 680,034 706,388 1,355,004 4,797,712 1,213,541 1,714,231	1,376,223 715,987, 858,775,858, 609,350 289,433 723,452 276,583 2,872,514 1,088,177 1,088,177 1,085,147 911,656 1,007,973	1, 135, 537 453, 893 542, 211 304, 773 29, 251 83, 414 485, 070 203, 561 127, 107 2, 112, 638 299, 302 447, 581 88, 661 399, 412 2, 621, 379	3. 515, 309 1, 161, 663 1, 093, 572 1, 393, 839 538, 684 1, 395, 607 1, 222, 232 4, 702, 307 1, 757, 950 1, 210, 636 563, 577 1, 533, 649 5, 088, 445	2,020,851 1,087,727 1,603 1,529,322 470,278 682,094 792,166 1,407,050 5,099,760 1,259,557 1,834,449 801,705 2,394,584 6,434,334	1,668,796, 718,205, 1,068,864, 633,006, 339,695, 3315,692, 341,039, 318,313,33,382,395, 1,110,701,916,905, 916,93,548, 1,113,474,	1,343,785 454,965 654,431 377,527 56,167 83,895 127,859 2,403,892 310,789 487,445 200,329 100,792 402,615	31 32 32 34 35 36 37 38 44 41 42 43 44 44 45
3,825,228 55,162,068	4,900,235 63,265,685	3,003,389 39,478,026	2,621,379 21,124,340	5,038,465 60,835,452	6,484,394 69,712,030	1,015,330 3,661,193 44,360,038	3,513,243 24,387,589	46

_			United K	ingdom.	
No.	Item.	1929.	1980.	1931.	1932.
1	V. Iron and Its Products—concluded. Springs	491	603	4,250	2,629
2 3 4 5	Tin cans. \$ Hollow-ware, enamelled. \$ Other stamped and coated products. \$ Tools and hand implements. \$ Vehicles.	42,873 88,554 93,755 312,845	53,833 83,555 135,958 324,657	4,546 72,047 140,071 244,508	74,748 110,133 186,221
6	Automobiles, freight	98 218,300	140 312,413	255,703	34 90,428 74
7 8 9	Automobiles, passenger	55 119,891 41,055 64	43 133,733 52,754 167	49 199,664 74,615 114	248,241 41,045
10	Railway cars, parts of	2,500 196,421	10,071 66,751	22,262 184,185	16,272
	Totals, Vehicles ¹ \$	778,258	871,671	967,833	606,802
11 12 13	Drums, tanks, cylinders	67,414 26,017	85,186 35,809	60,152 22,722	46,742 17,088
14 15	Scales, balances, weighing apparatus, etc Stoves, apparatus for cooking and heating	6,146 24,282	4,248 31,112	12,943 37,133	13,906 49,974
16	buildings\$ Valves\$	8,641 55,292	3,975 71,952	32,568 5 2,356	22,444 80,542
	Totals, Iron and Its Products 1 \$	18,802,533	21,323,484	18,069,505	13,383,423
	VI. Non-Ferrous Metals. Aluminium—				
17	Bauxite (ore)cwt.	-	-	-	-
18 19	Cryolite	844,990 675,435	1,134,520 291,766	2,000,102 450,677	1,435,901 346,900
	Totals, Aluminium ¹	331,966	387,462	533,994	425,244
20	Brass— Scrap,cwt.	224	103 521	9	1,000
21	Bars and rods	3,182 3,297 50,803	4,446	68 3,013 44,854	3,250 2,756 37,280
22	Strips, sheets, plates ewt.	1.126	1,884 43,260	1,042 19,400	697 10,928
23	Tubing	22,360 652,255 140,539	1,884 43,260 1,065,255 257,790	727,055 150,969	573,190 101,321
24	Wire, plaîn	37,322 11,332	19,826	36,524 8,326	60,083 13,478
	Totals, Brass1\$	647,749	850, 231	694,287	452,480
25	Copper— Blocks, pigs, ingots	.l <u>-</u> '		<u>-</u>	_
26	Scrapewt	710 9,934	122 1,504	-	_
27	Bars and rodsewt	52 922	367 7,944	224 4,159	179 2,587
28	Strips, sheets, plates cwt	2,556 63,135	2,978 77,780	1,273 26,330 208,879	1,494 26,103
29	Tubing lb.	266,218 62,724	410,977 115,058	208,879 46,549	166,571 33,499
	Totals, Copper ¹ \$	298,241	489,248	179,647	140,992
30	Lead and its products\$	171,078	182,950	189,957	78,404
31	Nickel— Bars, rods, sheets, etc	2,276 848	j 85	111,939 17,910	157,743 37,221
32 33	Nickel-plated ware	239,029 139,789	279,690	154,809	139,659 35,202

¹ Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32-continued.

, 197 1 3.51 2 8.87 3 4 4.92 5 7.750 4 4.47 8.25 8 2.33 9 5.567 3.333 10 1.21 7.37 11 1.3	78.351	untries.	All Cod			States.	United	
, 197 1 351 2 887 3 7750 4 492 5 799 6 7 796 7 7447 825 8 233 9 567 333 10 121 737 11 13	134, 197 78, 351	1931.	1000					
351 2 887 3 750 4 492 5 799 6 799 6 796 7 447 7 825 8 825 8 233 3 10 121 737 11 13	78.351	1	1930.	1929.	1932.	1931.	1930.	1929.
887 3 750 4 492 5 799 6 3306 7 825 8 233 3 5567 333 1 121 1 121 1 13	78,851 200 887	154,099	300,993	276, 479	131,566	149,500	300,259	275,503
799 6 306 7 447 825 8 233 9 567 333 10 ,121 737 11 ,737 11 ,691 13		457,890 425,589 1,545,326	638,461 493,897	520,454 525,322 1,370,826	78,351	452,920 225,755 1,365,143	580,830 292,864	474, 134
799 6 306 7 447 825 8 233 9 567 333 10 ,121 737 11 ,737 11 ,691 13	299,887 1,145,750 1,078,492	1,545,326 2,078,213	1,388,462 3,192,449	1,370,826 3,194,980	132,883 996,044 708,723	1,365,143 1,528,208	1,220,503 2,412,356	323,265 1,250,041 2,427,399
306 ,796 ,796 ,447 ,825 ,825 ,567 ,333 ,121 ,737 ,737 ,691 13					764			7,319
.447 .825 .233 .567 .333 .121 .737 .11 .691 .13	939,306	2,987 3,913,361	5,078 6,403,794 33,834	7,417 8,795,929	848,542 4,708	2,883 3,656,587 16,990	4,936 6,089,769 33,777 27,911,295	8,577,629 42,386
238 ,567 ,333 ,121 ,737 ,691 13	3,816,447 13,451,825	17,058 13,358,529 19,597,218	28,060,872 35,746,929	42,447 34,173,547 55,761,414	3,550,050 13,361,750	13, 115, 908 19, 399, 181	27,911,295 35,536,938	34,041,286 55,467,166
,333 19 ,121 ,737 11 ,691 13	238 147,567	1, 096 367,968	1,368 899,177	1,118 877,147	233 147,567	874 345,095	I,107 881,578	1,010 871,882
.737 11 ,691 13	153,333	1,296,603	1,569,316	1,602,729	136,236	1,112,418	1,502,565	1,406,110
,691 13	19,280,121	40,313,897	74,938,096	102,946,783	18,593,333	39,146,757	73,846,161	101,891,031
.476 13 .796 14	585,737 442,691	1,104,177 991,858	1,745,030 1,558,941	1,461,321 1,259,984	403,587 419,521	877,410 952,909	1,491,886 1,495,153	1,185,813 1,220,324
	130,476 217,796	264,828 384,661	505,449 634,504	391,024 455,303	116, 40 2 162,839	248,961 343,293	498,929 595,268	381,818 416,726
.041 15 .796 16	897,041 518,796	1,658,076 923,959	771,914 1,432,828	878,487 920,762	870, 239 435, 259	1,618,275 866,245	759,434 1,354,067	862,436 854,583
,766	98,811,700	193,933,477	314,366,791	345,194,597	81,005,384	167,674,719	282, 192, 471	316,695,527
.609 17	1,636,609 2,730,764	2,173,892 3,325,955	2,684,164 3,068,581	3,374,249 3,797,416	1,636,609 2,730,764	2,167,172 3,323,990	2,194,464 2,961,621	2,292,091 3,617,806
.833 18	47,833 191,813	46,296 190,799	47,602	68,181 297,712	2,633 21,613	1,385 10,699	2,755 23,114	10.783
192 19	1,869,192 457,839	3,071,272 733,486	191,490 2,415,301 629,842	1,552,588 470,512	407,562 108,725	1,070,632 282,699	1,272,209 335,759	76,269 694,941 224,918
	4,746,334	6, 135, 570	6,058,864	6,870,036	4,019,571	5, 196, 573	5,220,867	5,451,905
969 20	1,969	13.599	25.765	53,347	968	12.961	24,874	50,350
726	9,726	13,599 133,305 6,478	25,765 344,905 9,050	625.027	6.469	12,961 127,996 3,465	339.518	599,172 6.018
9751 72	4,238 59,767 4,975	118,667 8,119	9,050 182,750 11,392	9,245 170,967 15,637	1,482 22,487 4,277	3,465 73,813 7,077	4,604 106,382 9,508	121,948 14,441
608 654 23	82,608 2,565,654	152,058 3,516,084	269,961 3,915,697	305,321 3,845,790	71,662 1,975,240	132,658 2,773,540	226,701 2,822,957	281,177 3,162,369
912	418,912 268,402	684,265 544,786 117,999	981,844 489,967	892,573 435,365 111,223	313.994	529, 221 504, 921 106, 738	718,437 424,774	744,808 398,043
822	59,822		144,817		206,498 45,869		124,775	99,891 5,699,042
481	3,195,481	4,768,722	7,000,455	6,755,538	2,463,365	3,765,108	5,712,015	
9891	2,767 28,989	69,751 805,247	110,350 2,059,869	93,156 1,474,620	2,767 28,939 2,206	69,751 805,247 16,854	110,350 2,059,869	93,156 1,474,620
216 26 840	2,216 21,840	805,247 17,197 183,445	2,059,869 25,357 435,298	1,474,620 73,341 1,092,120	2,206 21,788	179.8061	24,214 421,454	72,422 1,080,009
470 27 346	45,470 477,346	307,470 3,940,097	470.189	444,141 7,040,012	45,291 474,809	307,246 3,935,938 18,320	469,312 8,821,880	443,089 7,023,390 28,789
503 28 424	7,503 127,424	19,883! 406,135	8,838,477 19,886 524,400 2,501,680	31,450 670,010	5,626 95,374 1,530,369	18,320 374,186 1,823,558	16,859 445,586	604,890
401 29 213	1,699,401 318,213	2,035,672 437,113	2,501,680 681,285	2,610,568 633,464	1,530,369 284,238	1,823,558 389,965	2,081,463 563,973	2,320,837 565,582
591	1,581,591	7,070,753	14,898,632	13,067,992	1,421,418	6,867,135	14,365,059	12,715,820
918 30	200,918	373,810	393,145	403,644	66,721	130,014	136,279	132,693
	579,574 216,619	870,669 816,088	1,473,139	769,031 297,256	421,831 179,398	758,730 298,178	1,472,948 378,695	766,755 296,408
199 32 715 33	1,180,199 292,715	1,778,039 496,055	1,473,139 378,780 3,022,985 769,482	297, 256 2, 858, 227 668, 410	798,947	1,350,123 415,152	378,695 2,362,577 673,582	2,269,322 523,439

No.	Item.		United Ki	ingdom.	
No.	reem.	1929.	1930.	1931.	1932.
-	VI. Non-Ferrous Metals—concluded.			<u>-</u> _	
	Precious Metals—				
1	Electro-plated ware	960,333	1,078,823	749,371	411,500
2 3	Silver in bars, blocks, etc	34,899 366,844	18,798, 315,308	26,006 204,532	85,931 140,134
•	Tin—	1	010,000		140,101
4	Blocks, bars, pigs cwt.	22,843 1,112,963	11,907	8,224	4,295
5	Foiltb.	1,112,963 7,618	538, 193 1, 520	238,631 4,294	109,384 1,874
۰,	* I	7,099	963	2,892	1,378
6	Other (collapsible tubes) \$	20,762	31,945	22,237	38, 194
7	Zinc— Spelter	122,080	-	-1	13,451
8	Sheets and plateslb.	7,032 69,461	373.847	69,112	476 49,909
٥	·	4,980	20, 194	3,905	2,370
.9	Other zinc	2,371 229,746 77,318	2.1751	26.5331	9,621
10	Phosphor tin and bronze 1b.	229,746 77 318	185,535 73,081	198,276 61,690	100,505 29,877
11	Clocks and watches \$	70,110	83,441	51,620	41,581
	Électric Apparatus			٠,	••
12	Batteries, storage (and parts) No.	319,258	613 312 939	358,688	19 183,960
13	Electric heating and cooking apparatus	1,431	312,939 5,529	751	1.471
14	Dynamos, generators	294,116	534,031	336,897	117,541
15	Incandescent Lamps— Carbon filament	322	731	217	232
16	Metal filament Electric light fixtures Meters Motore Spark plugs, ett	3,304	2,377	1,594	1,945
17 18	Electric light fixtures \$ Meters\$	19,382	36,982	22, 154	14,015 41,498
18 19	Meters	41,246 547,644	53,634 627,605	88,857 567,147	304,639
20	Spark plugs, etc.	15,060	14.685	6.381	21,262 71,601
21	Switches, etc	63,764	328,379 105,401	154,900	71,601
22	Telegraph instruments	19,523 215 866	105,401 228,640	154,900 59,781 420,308	28, 103 260, 153
24	Switches, etc. Telegraph instruments. Telephone instruments. Transformers.	215,866 17,511	111,385	386,418 20,784	319,300
20 21 22 23 24 25 26	Radio tubes \$	26,439	29.312	20,784	9,997
26		89,550	74,490	66,284	32,291
	Totals, Electric Apparatus, n.o.p.1 \$	1,927,193	2,727,203	2,768,802	1,653,346
27	Gas apparatus	5,818	5,964	5,931	2,978
28	Stereotypessq.in.	68,788	53.700	27,890	58,745
	1 <u>3</u> 6	4, 2391	53,700 3,858	2,515	2,562 48,259
29 30	Other printing materials\$ Manganese oride	19,524 31	20,360 18	15,409 31	40, 201 31
34	1	105	64	šol	99
31	Antimony, not ground	75,373	15,680	6,720	81,976
32	Mercurylb.	8,600 33,670	1,768	589 2,152	5,995 850
	: •	50.132	103,685 142,789	2,721 17,341	1, 134
83 34	Lamps, sidelights, etc. \$ Articles for shipbuilding. \$	34,347 193,330	50,815 312,532	17,341 144,075	7, 16; 238, 47;
••	Totals, Non-Ferrous Metals! \$	6,853,173	7,828,832	6,320,121	4,284,754
	VII. Non-Metallic Minerals.				
35	Ashertos other than crude	130,447	140, 114	118,756	101,69
	Clay and Clay Products-	'	· ·		
36	China clay cwt.	228,697 118,337	277,071 142,585	268,407 133,103	204,273 81,17
37	Fire clay cwt.	25,650	142,585 25,732	25.843	14,52
	l · · st	25,650 7,819	8, 122)	6,874 281	7,400 115
3 8	Bricks, building	60 3,511	306 12,564	10.334	4,56
39	Bricks, fire	177,930 403,132	225,679 478,319	179,002	176,67
40	Brick and tile, n.o.p	403,132 2,748,025	478,319 3,084,255	347,978 2,742,533	246.67 2.512.62
41 42	Bricks, fire. Brick and tile, n.o.p. Pottery and chinaware. Artificial teeth.	2,145,020	3,004,203	412	55
43	Bathtubs, etc	461,368	461,227	354, 128	256,36
	Totals, Clay and Clay Products! \$	3,957,778	4,450,270	3,822,307	3,328,96
_	Totals, Clay and Clay Products ¹ \$	0,301,110	E) 200 210	2,722,331	-,,00

Totals include other items not specified.

		_						=
	United	States.			All Co	untries.		
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	No.
								
238,506	245,501	158, 181	85,620	1,276,130	1,399,482	943,405	521,413	1
994,601 376,030	822,038 400,854	524,605 228,257	433,513 127,049	1,029,524 820,437	851,923 772,402	550,878 486,089	520,241 293,698	3
24 961	40 480	89 707				1	38,095	4
24,961 1,307,892	40,480 1,767,359 98,094	39,707 1,161,730	32,790 837,209	58,928 2,987,502	56,318 2,488,074	49,727 1,458,362	975,274 23,343	1 1
90, 231 49, 139	98,094 49,868	44,732 20,509	21,251 8,509	97,849 56,238 43,703	100,104 51,008	49,331 23,540	23,343 10, 09 9	6
22,941	28,389	85,915	25,361	43,703	60,334	58,648	63,555	•
1,959,286	2,820,678 170,600	1,048,013 45,425	8,962 637	2,104,802	2,929,405 176,987	1,048,013 45,425	22,413 1,113	7
116,605 4,423,329	170,600 4,574,503	45,425 2,923,359	2,745,859	2,104,802 125,011 9,975,498	11,430,802	4,612,252	1,113 3,853,479	8
365,655 205,023	379,780	237,857 187,555	917 (47)	1 731,195	820,409	323,611	3,853,479 263,385	9
463,715	194,590 501,822	331.689	157, 151 157, 960	210,345 788,266	201,048 812,826	1 794.143	170,349 520,539	1 10
463,715 191,530 1,333,282	223,435 1,225,146	121,506 819,287	157,960 48,402 607,662	303,054 3,576,029	342,476 3,495,659	260,872 2,551,866	155,686 1,763,763	111
				1	•			l
29,462 812,274	20,486 296,226	12,374 254,874	7,533 208,184	631,557	21,257 609,509 525,104	12,527 615,815 471,882	7,581 392,331	ı
380,505 1,248,639	515,941 1,805,282	469,069 682,001	298,910 293,448	384,065 1,557,009	525,104 2,486,956	471,882 1,263,378	306,639 446,112	13 14
				i		1		l
5,914 69,819	106,029 45,447	28,824 20,635	9,878 15,460	56,211 134,063	168,261 71,536	88,358 35,750	33,779 44,882	15 16
1,040,948 365,072	1,085,413 335,421	949,607 261,880	641,698 139,477	1,102,905 408,173	1,181,572 391,364	1,012,336	696,695	17
3,599,225	3.889.867	2.128.875	1.413.784	1 4.306.317	391,364 4,657,349 1,175,379	2,742,463	1,750,859	13
3,599,225 1,081,650 1,536,082	1,147,858 2,448,794	442,777 1,318,914 322,568	210,017 815,441	1 1.613.250	1 2,783,507	2,742,463 458,330 1,533,265 382,344	1,750,859 239,937 892,990 304,754	21
473,382 1,638,358	481,577 2,794,470	322,568 9 192 591	276,651 850,937	493,061 1,854,548	586,978 3,023,433	382,344 2,544,619	304,754 1,111,663	22
447,460	647,624	2,123,521 389,948	108,211	402,011	817, 290	780,439	483, 208	24
220,386 5,601,920	551,007 9,869,151	216,145 7,737,067	82,832 4,004,418	246,853 5,692,263	580,379 9,975,649	236,929 7,845,188	92,829 4,067,380	25 26
24,410,750	34,177,488	23,413,446	12,646,875	26,775,215	37,611,263	26,804,362	14,672,423	
249,837	275,565	196,395	90,438	263,405	285,358	209,561	94,838	27
5,909,885	6,089,206	5,588,762	7,372,578	5,985,608	6,144,269	5,618,652	7.484.367	28
5,909,885 332,763 280,673	6,089,206 867,386 273,910 31,238	5,588,762 323,791	7,372,578 423,146	5,985,608 337,953 305,407	6,144,269 371,435 297,064	5,618,652 326,738 256,328	426,107 288,616	94
20.1471	31,238	93,187 20,757	236,116 52,854 88,281	2,130,491	1,981,548	[1,973,139]	93Z,900	30
55,968 1,595,545	1,288,538	49,896 1,202,132	613,617	1.850.511	998,217 1,509,246	983,942 1,308,576	279,576 788,048	31
141,790 130,621	102.5611	1,202,132 75,228	87,823 17,227	165,271 202,296 274,148	120,654	82,631	49,004 24,528	32
171,400 1,468,156	120,261 168,299 1,360,712	52,127 77,313	19,978	274,148	379,372 523,352	59,190 88,821	27,938 162,709	
1,468,156 1,163,299	1,360,712 2,198,161	488,675 910,472	123,219 290,349	1,644,898 1,479,127	1,573,409 2,657,184	598,592 1,134,544	162,709 546, 959	33 34
63,117,952	25,483,919	49,161,117	27,826,602	76,858,365	90, 421, 154	60,359,034	31,301,105	
								l
784,119	804,287	727,020	441,051	929,897	952,650	856,880	556,352	35
194,825	240, 255	185,515	125,289	423,963 247,391	518,270 306,987	454,267	330,160 167,198	36
194,825 128,518 1,344,879	163,803 1,492,286	138,162 1,043,620	85,440 735,872	1 1.371.621	306,987 1,519,581	271,550 1,070,717 208,230	167, 198 750, 643	37
280.825	1 317.774	200,247 13,097	147,389 3,698 118,716	1 289.555	326,994 15,435	208,230	750,643 155,066	38
12,678 245,394 1,799,807 380,585	274,769	X\$#,5U5	118,716	14,792 257,121	1 287.3331	13,378 309,839	3,817 123,279	
1,799,807 $380,585$	2,420,831 636,924	1,526,678 400,528	933,668 250,783	1,978,074 940,264	2,654,934 1,223,871	1,708,942 919,021	1.111.402	39 40
424,394 429,439	480.904	295,820	l 191.144	4,886,062 431,938	5.492.602	919,021 4,399,784 390,259	701,201 8,557,152 518,909	41
121, 61 3	482,699 192,104	389,623 191,477	513,047 77,237	583,195	483,089 654,091	390,259 546,853	518,909 336,302	42 43
14,478,579	5,578,767	4,024,077	2,756,898	10,417,260	12,256,769	9,432,135	7,195,457	
			I———					ı

_			United K	ingdom.	
No.	Item.	1929.	1980.	1931.	1932.
1 2	VII. Non-Metallic Minerals—concluded. Coal and Coal Products— Coal, anthracite	552,974 3,686,131 146,908	786,530 4,906,974 121,375	918, 252 5, 658, 951 145, 375	886, 938 4, 764, 291 118, 998
3	Coal for ships' storeston	472,939 - -	490, 529	485,562	330,078
4	Coal tar, crude gal. Carbolic oil gal.	262,536	500,078 85,202	504 290 13, 059	1,750 359 749,780
•	Coketon	52, 167 29, 354 158, 997	85,202 11,162 68,297	6,308 16,443 65,806	77,983 2,957 16,342
	Totals, Coal and Coal Products1 \$	4,370,345	5,458,683	6,217,375	5,191,735
7 8 9 10 11	Glass and Glassware— Carboys, bottles, jars, milk bottles, etc \$ Tableware \$ Incandescent lamp bulbs and tubing for \$ Lamp chimneys, shades and globes \$ Window glass, common \$0. ft.	100,110, 66,099, - 884 2,197,366	131, 104 84, 893 53 2, 411 2, 285, 619	77,854 59,831 8,337 1,830,095	77, 112 50, 670 1,558 590, 331
12	Plate Glass, not over 7 sq. ftsq. ft.	83,864 666,360	86,472 810,272 255,248 398,396	89,953 552,532 177,887	29,947 429,743 123,753
13 14	" " 7 to 25 sq. ft	214, 992 281, 751 121, 916 598, 542 252, 793	398, 396 157, 308 569, 739 223, 760	299, 582 135, 255 347, 674 152, 221	165,063 68,831 269,005 127,408
	Totals, Glass and Glassware \$	1,226,413	1,875,117	988, 124	670,139
15 16	Graphite and its products	49,605 121	42,118 499	38,625	32,119 5 28
17	Crude Petroleum— For refining,gal.	398 -	443 -		25
18	Other, ·8235 specific gravity and heavier gal.	=	-	=	
19	Fuel oil for ships' stores, gal.	-	_	- -	-
20 21	Coal, and kerosene oil, refinedgal. Gasolene, casinghead, for blendinggal.	-	208 60	155 24 -	_
22	Gasolene, n.o.p	-	=	-	800 381
23	Lubricating oilsgal.	387, 414 264, 736	486,295 295,378	352,890 235,429	263,340 150,673
	Totals, Petroleum, Asphalt, etc. 1 \$	303,690	314,529	263,580	168,663
24 25 26 27	Stone and Its Products— Abrasives. Building and paving stone. Cement. Store Store Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Center Store Cente	258,039 100,653 80 162	181,295 91,943 45,911 58,241 896	125,740 97,781 315,659 361,426	97, 137 48, 872 46, 145 55, 368
28	Silica sand,	36 180,724	1,199 190,343	140, 425	324 127,386
	Totals, Stone and Its Products ¹ \$	99,006 605,723	106,564 566,491	77,402 727,312	61,909 316,973
29 30 31 32	Carbons, electric	507 1,085,847 7,060 511,836 246,433	938 928, 488 6, 508 464, 978 205, 268	999 413,051 6,044 419,546 185,756	377 155, 577 4, 264 493, 584 221, 034
33	Sulphurewt.	10	26 82		414
	Totals, Non-Metallic Minerals 1 \$	12,100,061	13,601,753	12,902,472	10,286,241

Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1929-32—continued.

		=		All Countries.				
		1 States.		****				No.
1929.	1930.	1931.	1932.	1929.	1930.	1931.	1932.	.
						Ì		1
3,812,093	3,285,032	2,731,862	2,069,577	3,882,418	4, 136, 399	3.946.987	3.022,519	1
3,812,093 24,753,718 13,077,619	23,991,078 13,764,563	20.145.856	15,294,560	28,529,122	4,136,399 29,582,590	3,946,987 27,729,452	3,022,519 20,342,736	
13,077,619 25,430,255	13,764,563 25,888,784	12,854,544 23,296,206	9,692,076 14,366,070	13,224,564 25,903,628	1 98 990 330	92 782 673		3
658,960	461,336	346,579	4 275 545	658 960	461,338	346,579	275 545	:l 🛨
1,177,524	461,336 877,042 5,707,914 429,699	655, 159 3, 932, 619	433,446 1,517,275 104,970	1,177,524 5,110,218 359,119	461,338 877,042 5,707,994 429,724	655,159	₹ 433_446	1.
5,109,898 8 59 ,012	429, 699	248,480	104.970	359.119	429,724	3,938,067 250,023 1,917,044	1,318,028	4
859,012 1,152,221	1,900,000	301,000	1 778.697	B 1.1415.529	Z,480,001	 1,917,044	2,045,935	5
213,402 1,183,635	254,635 1.156,383	179,847 993,031	130,005 638,583	361,373 1,171,683	441,126 1,171,355	316,999 1.001.445	262,618 641,766	
6,448,037	1, 156, 363 6, 319, 199	5,202,394	130,005 638,583 3,392,904	1,171,663 6,647,955	1,171,355 6,403,354	1,001,445 5,268,200	2,045,935 262,618 641,766 3,410,256	
58,539,199	57,916,923	49,843,127	33,787,619	63, 136, 083	64,183,342	l		4
								1
1,241,419 636,706 514,695 400,872	1,367,572	1,149,194	780, 986 502, 163 528, 272 223, 735	1,524,950 1,048,599 560,261	1,719,438 1,114,983 596,970 521,273	1,379,610	974,667	7
636,706 514 608	678,459 547,367	613,891 501,727	502,163 528 279	1,048,599 560 261	1,114,983 506,070	1,019,453	792,095 528,525	8
400,872	436,140	356,898	223, 735	465,136	1 521, 273	1,019,453 506,735 419,077	271,676	18
142,309 17,617		1 198 105	201,087	44,315,528 1,168,734	1 00,189,408	4 35.032,296	21,765,468 649,745	11
1 152 611	43,928 1,314,225 488,116	1,475,860	13,779 1,283,216	5 727 RA7	1,649,494 4,344,865	1 2.575.535	1,861,062	12
414,614	488,116	1,475,860 485,545	437,633	5,337,647 1,469,900 1,013,248	4,344,865 1,319,727	1 017.200	1,861,062 608,300 432,984	
414,614 209,427 83,917	154,564 65 706	250,039 96,521	200,668 27,190	1,013,248 360,294	1,050,429 391,176	728,051 301,131	432,984 173,273	13
254.474	154,564 65,706 177,936	96, 521 177,931	437, 633 200, 658 77, 190 132, 748	1,452,506	1,570,203	840,232	602,415	14
103,732	75,082	68,845	54,319	565,950	629,433		270,214	
4,861,164	5,081,152	4,392,617	3,453,191	9,717,519				
87,803	109,597	65,057	91,723	137,443	151,715		l '	
983,874 838,627	1,009,157 822,478	808,045 601,548	674,621 479,870	983,995 839,025	1,071,856 824,271	823,654 611,464	674,826 480,148	16
613,877,907	839, 762, 765	667,240,169	713,833,943	865,335,849	1,110,169,704	994.384.918	1,016,355,361	17
24,890,441	25, 962, 583	25, 169, 919	[14,694,171	35,365,847	l 48.332.001	I 96 990 412	00 119 ARE	·
49,721,798 1,989,461	51,546,604 1,890,595	49,410,723 1,724,881	33,235,429 1,127,101	54,845,275 2,204,975	67,736,736 2,535,096	2.240.276	59,677,494 1,975,687	16
28, 276, 261	26,983,829 707,243 4,831,014 428,823	25,310,182	28,365,547 762,584 3,176,248	33,096,277	31.163.811	1 33,799,370	36, 178, 989 922, 649 3, 176, 248	19
860,068 3,751,810	707,243 4 831 014	644,998 4,906,761	762,584 3 176 249	984,524 3,752,170	824,526 4,833,637	875,743 4,906,916	922,649	20
338,887	428,823	342,394		388,971	429,377	342,418 14,793,714	198,439	~*
_	_		31,357,459	_	-	14,793,714	31,857,459	21
152,619,597	169, 619, 047	1,182,165 129,718,284 13,608,320	65, 222, 912	152,658,272	169,626,215	142,011,931	84,465,498	22
18,034,215	169,819,047 18,867,547 16,833,040	13,608,320	31,357,459 2,022,281 65,222,912 6,694,785 13,043,511	152,658,272 18,038,367 17,283,090	169,626,215 18,869,236 16,323,178	1,182,165 142,011,931 15,608,613 16,213,717	31,857,450 31,857,450 2,022,281 84,465,498 7,729,425	
152,619,597 18,034,215 15,892,207 4,518,282	16,833,040 5,175,690	15,855,003 4,622,583	3,231,655	17,283,090 4,785,355	16,323,178 5,474,108	16,213,717 4,860,168	13,343,143 3,395,821	23
52,876,140	65, 267, 177	49, 129, 873	30, 264, 638	64,053,306	78,768,061	62,659,658	39,986,222	
4,346,197	3,876,280	2, 101, 184	854,747	4,646,551	4,126,629	2,258,104	995,313	24
498,695 116,803	672, 621 153, 497	460,812 130,466	190,954 78,693	713,129 121,209	875,095 246,085	l 447.075i	335, 183 126, 129	25 26
144,497 2,611,351 307,896	174,919	l 143.380I	80,454 1,536,247 187,245	149,436 3,267,476 371,776	247,709 4,702,068 481,143	505, 112 3, 103, 913 328, 191	136,517	ı
2,011,351	3,982,743 411,714	2,510,946 263,690	1,000,247	3,207,476 371,776	481.143	3,103,913 328,191	2,006,238 228,062	27
107, 908 72, 274	107,960	80,883	43.059	1 345,2201	357,951	245,566	199,598 107,860	28
	69,582	50,850	32,906	198, 989	207,394	130,683		
7,306,630	7,402,916	5,021,792	2,930,697	8,537,893	8,702,988	6,356,004	3,793,045	
439,503 60,150	468,860 19,259	404,877 44,016	325,315 11,986	450,265 3,182,289	493,523 3,193,871	436,733 1,797,225	350,855 711,034	29
416,584	417 678	465,621	231,554	432.145	453 5051	501,525	248,103	30 31
2, 161, 623	1,583,691	1,492,213	1,222,725 370 598	3,741,721	3,415,651	2, 526, 003	2.540.772	32
686,981 3,571,653	496,286 4,729,088	305,079 3,497,699	231,554 1,222,725 379,586 2,411,969	1,106,728 3,572,163	3,415,651 897,925 4,729,965	658,446 3,498,462 3,102,740	730,400 2,415,122	33
2,937,814	3,822,267	3,101,146	2,221,041	2,938,804	3,823,245		2,226,934	
135,151,019	149,794,965	118, 984, 416	77,871,155	166,964,231	186,496,288	153,578,658	102,147,347	

<u> </u>	.		United Kir	ngdo m .	
No	Item.	1929.	1930.	1931.	1932.
	VIII. Chemicals and Allied Products.			····	
1 2 3	Acids	391,376 91,852 1,043,526	449,586 77,648 981,262	1	254,454 71,877 854,255
4 5	Coal tar and aniline dyes	126,035 82,456 223,789 13,089	165,067 88,834 237,676 9,916	171,672 105,046 257,189 8,779	185,360 170,833 173,780 5,543
	'Totals, Dyeing and Tanning Materials ¹	153,008	159, 137	188,742	275,784
6	Explosives \$ Fertilizers, n.o.p.— Potash, muriate of	58,877	59, 803	47,666 -	40,657
8	Soda nitrate	240 1,233 100	1,460 3,082 112	2.318 4,953	560 919
	Totals, Fertilizers, n.o.p. ¹	11,986	50 52,382	53,385	20,521
10 11	Paints, Pigments and Varnishes— Litharge	16,579 111,305 927,859	20,827 156,173 1,067,560	5,859 40,511 586,275	9,967 63,876 689,120
12	Black, carbon Ib.	63,997 3,250	80,046 2,768	45,654 14,644 698	43,748 10,960 702
13	Blacks, otherlb.	387,942 16,242	350,890 16,357	25,017 1,234	156,970 6,553
14	Lithopone lb.	2 032 522	2,565,553	1,660,360 67,393	1.986.951
15	Oxide of cobalt, etc	78, 185 115, 504 60, 290	102,057 101,527 37,354	79,400 21,804	68,676 43,758 9,594
16	Oxides, fireproofs	1.846.3551	1,532,397 152,425	1,212,715 102 074	1,147,832 125,938
17	Zinc, whitelb.	157,440 427,169 21,817	488, 211 28, 187	1,725,426 85,082 97,732	3,367,105 143,709
18	Liquid fillers, etc gal.	132,627 168,807	157,556 177,143	97,732 159,369	39,857 58,953
19	Varnish, lacquers, etcgal.	27,695 44,200	25,014 41,426	34,212 62,151	11,733 22,036
	Totals, Paints, etc.,\$	895, 101	933,754	718,692	669,955
20	Perfumery, Cosmetics— Perfumes, alcoholic	32,032	43,420	19,912	8,885
	Totals, Perfumery, Cosmetics: \$	262,840	301,350	262,220	173,710
21 22	Soaps —	6, 203 637 162, 950	3,166 415 276,854	5,049 432 62,265	10,383 755 71,374
	Totals, Soaps ¹	164,520	24,864 164,273	5,577 139,669	103,397
	Chemicals, Inorganic, n.o.p.—	101,020	101,410	100,000	
23	Sulphate of aluminacwt.	17,332 19,113	38,042 31,471	34,153 30,879	43,893 43,420
24	Ammonis, nitrate oflb.	19,113 4,048,000 154,145 428,581	4,915,891 184,066	5, 175, 750 184, 950	1,120,000 43,070
25	Sal ammoniaelb.	428,581 21,976	434,867 19,423	216,067 8,529	225,055 8,304
26	Compounds of tetraethyl lead	-	-,,-20		-
27	Copper sulphatelb.	1,388,227 70,432	839,436 45,854	3, 696, 615 164, 132	1,226,478 46,139
28	Chlorine, liquid	-	´-		11,200 580
23	Chloride of lirae	2,502,953 39,598	2,940,670 45,228	2,383,118 34,569	2,092,061 27,319

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13.-Principal Imports into Canada for Consumption from United

No.	Ta		United E	ingdom.	
	Item.	1929.	1930.	1931.	1932.
	VIII. Chemicals and Allied Products—concl.				
1	Chemicals, Inorganic, n.o.p.—concluded. Potash compounds	485,508	597,321	252 449	431,394
_	·	67,500 22,631,703	67,667 39,785,464	353,442 60,309 17,483,925	70,678
2	Soda compoundslb.	22,631,703 554,519	39,785,464 667,520	17,483,925 505,273	17,328,410 527,059
3	Acid phosphatelb.	854,519 73,349 4,425	60,907 3,177	505,273 32,256 2,170	77.66 4,717
	Totals, Chemicals, Inorganic, n.o.p.i \$	1,148,682	1,339,993	1,246,646	983,68
4	Glycerine	943,452 102,469	2,997,445 260,443	1,540,496 139,219	513,799 38,910
	Totals, Chemicals and Allied Products ¹ \$	4,963,687	5,428,765	4,601,666	4,096,690
	IX. Miscellaneous Commodities.		:		
	Amusement and Sporting Goods-				
5	Films, for motion pictures	1,184,645 95,990	553,084 44,321	1,068,543 87,778	1,316,449 104,306
6	Toys and dolls	301, 274	331,142	241.447	l 188.184
8	Bruabee	121,668 185,725	234,188	120,066 158,978 1,663,835	221,781 123,643 1,789,395
9	Containers\$ Household and Personal Equipment—	2,150,539	2,689,481	1,663,835	1,789,39
10	Boots and shoes, with canvas uppers pr.	1,236	1,971	4,207	49
11	Boots and shoes, with felt uppers pr.	1,652 $421,188$	1,855 279,109	2,216 183,570	1,012 85,720
12		241.206	150.809	99,756 22,479	37,70
13	Buttons\$ Combs\$ Jewellery\$	32,811 43,740	32, 172 52, 726	40,319 112,357	39,040
14 15	Jewellery	191,045 465,400	152,461 454,003	112,357 308,238	69,239
16	Pocketbooks, etc. 8 Refrigerators. No.	1	2	i	17
17	Tobacco-pipes	325,889	292,365 	232,895	160,586
	Totals, Household, etc	1,788,290	1,710,110	1,297,940	
18	Mineral and serated waters	12,882	14,141	15,058	14,48
19	Phonographs and parts\$	25,875	17, 154	17,640	6,56
20 21 22 23 24	Other musical instruments	66,605 339,232	17, 154 57, 012 365, 341	17,640 39,873 357,679	29,685 259,425
22	Ships and materials for, n.o.p	339,232 42,804	259, 452	203,548	128,68
24	Vehicles, n.o.p	669,992 859,827	751,224 899,439	315,208 493,021	312,16
24	For army and navy	249,319	37,771	70,125	158.75
28	Re-imported	242,778	37,771 204,985 164,837	262,046 30,243	186,01
25 26 27 28	Re-imported. \$ For exhibition. \$ Ex-warehoused, for ships' stores ² . \$	112,117 237,200	164,837 239,367	30, 248 240, 467	274,569 187,500
	Totals, Miscellaneous Imports under Special Conditions	1,041,826	833, 253	1,201,569	1,327,931
2\$	Incubators and brooders	1		6	
30	Pencils, lead	337 157,512	111 193,179	431 183,298	383 133,291
31	Precious stones	375,458	438,711	162,115	63,677 396,193
33 33	Settlers' effects \$ Waste paper, etc. cwt.	760,455 16,655	820, 544 14, 933	683,250 25,310	33,76
34	Wax, vegetable and mineral, n.o.p	22,001 708,041	26,116 148,684	19,256 336,454	23,000 442,064
-3	rraa, regovante and muici ai, it-v-p, 1D.	32,888	9,164	12,536	19,848
	Totals, Miscellaneous Commodities1 \$	10,030,226	10,934,571	8,300,695	7,121,815
	Grand Totals, Imports for Consumption \$	194,841,381	189,179,738	149, 497, 392	106,371,779

¹ Totals include other items not specified. 2 Ex

² Exclusive of coal and fuel oil.

Kingdom, United States and All Countries, fiscal years 1929-32—concluded.

No		antries.	All Co		United States.					
_	1932,	1931,	1930.	1929.	1932.	1981.	1930.	1929.		
							:	•		
	5,941,534 453,366 156,207,188	4,808,202 419,869	6,029,521 539,165	4,882,191 498,657	1,149,956 93,877	850,626 95,469	1,063,291 128,974 293,633,251 3,327,603	1,273,480		
ı	156, 207, 188	199,502,335	350, 146, 896	298,171,039 3,665,775	129,015,030	95,469 152,438,066	293,633,251	183,876 264,733,793 2,817,717		
ı	2,855,881 2,518,276	3,324,615 2,376,250	4,410,621 3,006,522	3,665,775 3,151,592	2,100,986 2,440,614	2,399,977 2,343,994	3,327,603 2,945,615	2,817,717 3,078,243		
	194,382	169,523	220,206	238,642	189,665	167,353	217,029	234,217		
ĺ	7,672,411	7,423,622	8, 108, 607	7,067,140	5,928,963	5,235,512	5,679,408	5,119,106		
	3,728,177 272,224	8,469,197 690,066	8,335,339 717,280	5,999,890 622,515	32,405 3,758	103,520 12,491	289,474 37,714	829,118 94,751		
	20,731,345	35,650,772	39,907,502	27,723,046	20,359,822	23,201,992	26,982,460	26,202,978		
	10,477,240	16,572,390 1,356,224	19,887,857	10,630,282	8,315,774	15,046,579	19,303,529	9,413,846		
	877,981 1,494,839	1,356,224 1,981,455	1,604,898 2,691,408	868,163 2,606,890	706,918) 572,500 429,251	1,232,028 830,634	1,558,117 1,077,504 1,412,761	769,402 1,095,592		
	982,793	1,066,776	1,634,982	889,905	429,251	877,894	1,412,761	640,309		
ĺ	374,999 3,349,679	556,179 3,826,939	849,226 6,285,755	586,056 5,479,789	107,531 590,118	194,659 990,145	327,546 2,223,764	286,880 2,045,029		
	90,311	18,573	58,930	108,066	11,409	12,005	56,755 39,577	106,836		
١.	30,565 124,440	16,255 243,341	41,659 374,187	66,199 531,970	8,436 32,159	12,936 46,449	39,577 75,204	64.546 86,882		
!	55,385	132,933	1 219.513	311,961	15,670	27, 2551	45,880	52, 147		
1	254,936 161,599	417,318 211,423	258,391	531,755 249,421	111,057 [4,814	155,562 25,537	192,514 30,050	245,188 32,346		
1	1,091,547	211,423 1,657,303 961,048	514,537 258,391 2,435,869 1,343,761	2,605,322 1,288,276	500, 183 220, 978	25,537 893,514 314,312	1,336,677 451,632	32,346 1,407,889 457,189		
;	1,091,547 650,261 16,596	17.34671	13,093	10,857	16.593	17,306	18.892	10,855		
1	2,156,831 398,869	2,877.670 627,577	1,913,591 627,678	1,319,180 714,760	2,156,450 17,885	2,377,573 22,732	1,913,585 25,871	1,319,011 33,313		
	6,778,253	8,771,595	10,364,108	9,787,190	4,441,777	5,412,719	6,053,288	5,348,148		
1	152,418	193,063	241,719	223,845	44,374	61,749	79,479	74,956		
1	188,612	758,623	1,597,821 1,533,052	1,327,915	179, 174 300, 014	727,165 601,703 3,275,052	1,541,385 1,093,393 4,080,874	1,250,085		
26 26 24 25	482,358 3,323,829	864,414 4,114,019	5.045.128	1,498,312 4,516,549	2,576,145	3,275,052	4.080.874	1,022,843 3,696,677		
1	482,358 3,323,829 333,957 790,503	827,842	1,372,046	1,056,163	215,186	542,792 1,297,370	1,044,833	3,696,677 847,770		
,	879,265	1,665,625 1,764,240	3,249,798 1,909,505	3,344,764 2,384,998	476,940 358,471	1,018,471	2,396,569 561,735	2,642,720 1,139,656		
2	161,296	73,676 4,140,698	47,172 2,925,907	273,899	2,059	171	1,024	5,657		
2	161,296 1,968,251 2,540,780	4,140,698 4,697,115	2,925,907 3,487,016	3,213,565 3,295,342	1,468,598 2,254,076	2,824,340 4,656,760	2,539,217 3,201,979	2,581,163 3,130,350		
2	361,417	482,598	519,630	490,917	147,167	196,985	211,224	173,561		
	7,186,290	12,879,847	12,011,104	11,295,210	5, 185, 801	9,775,719	10,510,354	9,060,691		
2	590	10, 176	23,662	24,255	589	10.170	23,658	24,253		
a	35,849 644,768	216,818 836,142	498,509 938,806	451,037 933,553	35,462 309,014	216,274 422,827	498,398 504,778	450,584 561,198		
3	210.047	443,855	810,466	837,477	41,653	64.8941	61,801	85,953 9,343,313		
3	8,262,445 1,081,853	443,855 11,489,320 857,720	810,466 11,181,203 1,049,075	10,390,922 754,889	7,595.152 1,047,089	10,568,690 817,213	10,113,018 1,028,727	724,644		
	525, 758	407.328	600,767	804.925	499.0161	364,061 927,086	559,069	773.638		
2	2,773,819 162,946	2,820,178 205,959	2,951,130 253,050	2,921,307 255,137	658,923 82,282	122,671	802,050 133,172	699,462 140,027		
	43, 451, 205	62,471,220	78,986,767	68,492,863	\$9,131,580	45,268,500	53, 415, 103	48,665,915		
	578,503,904	\$06, 612, 695	1,249,273,582	1 005 000 001	951 800 775	581, 407, 018	847,442,437	68,612,229		

14.—Imports (Dutiable and Free) and Exports of Canadian and Foreign Produce, by Main Classes, during the fiscal years ended Mar. 31, 1928-32.

Dy Maill Classes		c natar Jear	equeu ma	r. et, 1920-0	<u></u>
Class.	1928.	1929.	1930.	1981.	1932.
IMPORTS.	\$	\$	\$	\$	\$
Agricultural and Vegetable Pro-	1		ļ		
ducts (except chemicals, fibres and wood).	150 000 000	150 510 510	150 050 Bab	111 510 600	09 800 500
Dutiable Free	153,762,736] 84,422,824	153,519,512 79,610,732	152,962,368 74,086,449	111,519,698 66,109,080	93,328,790 35,292,470
Totals for Group	238,185,560	283,139,244	227,048,817	177,623,778	128,621,260
Animals and Animal Products			•	i	
(except chemicals and fibres). Dutiable	30,002,698	36,074,696	44,479,161	28,062,640	13,471,114
Free	35,787,323	35,587,058	25,374,672	17,933,065	11,092,132
Totals for Group	65,790,021	71,661,754	69,853,833	45,995,765	24,563,246
Fibres, Textiles and Textile Products.					
Dutiable	127, 168, 911	130,364,826	121,103,721	87,763,168	52,367,785
Free	59,830,581	76,074,347	64,137,531	42,953,854	31,511,577
Totals for Group	186,994,462	296,439,173	185,241,252	130,717,922	83,879,362
Wood, Wood Products and Paper.					
Dutiable Free	31,819,999 19,930,925	37,321,028 21,893,790	39,108,066 21,843,011	30,215,278 15,826,751	21,431,905 10,576,263
Totals for Group	51,750,924	59,214,818	60,951,077	46,042,029	32,688,168
Iron and Its Products.					
Dutiable Free	215,628,798 42,565,823	288, 130, 876 57, 063, 721	263,630,457 50,736,334	160,775,734 33,157,743	85,009,853 13,801,853
Totals for Group	258,194,621	345,194,597	314,366,791	193,933,477	98,811,766
Non-Ferrous Metals and Their					
Products	39,429,966	53,215,663	66,212,004	45,928,500	26, 212, 301
Free	22,134,572	23,642,702	24,209,150		8,088,804
Totals for Group	61,564,538	76,853,365	90, 421, 154	69,595,634	34,301,105
Non-Metallic Minerals and Their Products (except					
chemicals). Dutiable	60,219,594	64,022,829	69,259,471	59,901,380	57,382,379
Free	92,829,844	102,941,402	117,236,917	93,677,278	44,764,968
Totals for Group	153, 649, 438	166,961,231	186,496,388	153,578,658	102,147,347
Chemicals and Allied Products.	17 949 100	10 071 701	20,555,008	18,641,318	17,197,862
DutiableFree	17,842,190 15,729,923	19,271,781 18,451,265	19,352,495	17,009,454	13,583,488
Totals for Group	33,572,113	37,723,046	39,907,503	35,650,772	30,731,545
Miscellaneous Commodities.	01 -01 0-1		11 222 7 -	D4 000 P	00 000 050
Dutiable Free	34,180,386 25,674,453	39, 154, 219 29, 338, 644	41,920,218 32,066,549	31,282,514 31,188,706	22,096,059 21,344,306
Totals for Group	59,851,789	68,492,863	73,986,767	63, 471, 224	43,440,365
Total Imports.					
DutiableFree	710,050,228 398,906,238	821,075,430 444,603,661	819,230,474 429,043,108		388, 498, 048 190, 005, 856
Totals, Imports	1,108,956,466		1,248,273,582	906, 612, 695	578,583,964
Duty Collected	171,872,768			 -	113,987,851
way concerd,	****,01%,140	A44,210,000	100,000,000	115,100,000	

14.—Imports (Dutiable and Free) and Exports of Canadian and Foreign Produce, by Main Classes, during the fiscal years ended Mar. 31, 1928-32—concluded.

Class.	1928.	1929.	1930.	1931.	1932.
EXPORTS.	\$	\$	\$	\$	•
Agricultural and Vegetable Products (except chemicals, fibres and wood). Canadian produce		646,514,058	384,635,751	292,2 80 ,037	204,398,365
Foreign produce	8,837,492	10,453,444	8,061,858	2,540,500	1,499,705
Totals for Group	563,948,090	656,867,542	392,697,689	294,820,537	205,898,076
Animal and Animal Products (except chemicals and fibres). Canadian produce	165,845,096 1,915,046		133,009,145 1,367,215	83,714,772 1,041,519	68,798,683 672,389
Totals for Group	167,769,142	162,493,833	131,376,366	84,756,291	69, 471, 022
Fibres, Textiles and Textile Products.					
Canadian produce Foreign produce	10,904,073 1,808,756	9,678,019 1,755,418	9,066,226 1,481,775	6,504,182 1,397,698	5,512,130 755,397
Totals for Group	12,712,827	11,433,437	10,548,001	7, 90 1,875	6,267,527
Wood, Wood Products and					
Paper. Canadisa produce Foreign produce	284,543,396 44,119		289,566,675 401,708	230,604,474 502,618	175,740,269 322,358
Totals for Group	294,987,515	238,857,643	239,963,383	231,107,052	176,062,627
Iron and Its Products. Canadian produce Foreign produce	62,753,934 3,301,107	82,256,717 4,277,189	78,589,580 4.790,770	38,937,661 3,713,065	15,462,977 2,962,695
Totals for Group	66,655,641	96,533,906	83,380,350	42,650,726	18,425,672
Non-Ferrous Metals and Their			- -		
Products. Canadian produce Foreign produce	90, 840, 441 696, 055	112,778,194 773,267	154,319,429 1,178,770	95,652,063 1,346,992	69,072,888 616,070
Totals for Graup	91,536,496	113,551,461	155,498,189	96,999,055	69,688,558
Non-Metallic Minerals and Their Products (except chemicals).					
Canadian produce Foreign produce	25,949,930 891,287	27,401,790 1,377,751	28.545,096 1,288,495	21,107,780 950,695	13,456,701 662,479
Totals for Group	28,841,217	29,779,541	2),833,591	22,058,475	14, 119, 186
Chemicals and Allied Products. Canadian produce Foreign produce	17,365,516 422,818		22,468,462 563,645	12,825,852 582,491	10,535,088 294,047
Totals for Group	17,788,334	19,822,869	23,632,107	13, 498, 343	10,629,085
Miscellaneous Commodities. Canadian produce Foreign produce	15,036,359 3,932,011	18,263,813 4,092,070	20,057,938 5,545,532	18,115,846 5,209,808	13,367,25t 3,436,125
Totals for Group	18,568,370	22,355,883	25,633,470	23,325,654	16,803,376
Total Exports. Canadian produce Foreign produce	1,228,349,343 22,248,691		1,120,258,302 24,679,768	799,742,667 17,285,381	
Total, Experts	1,150,598,034	1,388,886,075	1,144,938,070	817,628,048	587,565,517
Total Trade. Imports, merchandise	1,108.956.466	1.265.679,091	1,248,273,582	906,612,695	578,503,904
Exports, merchandise	1,250,598,034	1,388,896,075	1,144,938,070	817,028,048	587,565,517
Totals, External Trade	2,359,554,500	2,654,575,106	2,393,211, 6 52	1,723,640,743	1,166,669,421

15.—External Trade of Canada, by Main Groups and Degree of Manufacture, According to Origin, fiscal year ended Mar. 31, 1932.

			·			
Origin.	Impor	ts for Consun	aption.	Exports	of Canadian l	Produce.
	United ! Kingdom.	United States.	Total.	United Kingdom.	United States.	Total.
Farm Origin— 1.—Canadian Farm Products!—	\$	•	*	*	\$	\$
Field Crops— Raw materials Partly manufactured Fully or chiefly manufac-	397,924 24,106	15,377,753 199,727	342,897		7,686,030 1,003,681	149,588,741 1,218,797
tured	22,350,977	4,288,648	30,663,137	14,769,765	2,078,135	41,578,426
Totals, Canadian Field Crops	22,773,007	19,866,128	52,813,848	95,207,873	10,767,846	192,385,964
Animal Husbandry— Raw materials Partly manufactured Fully of chiefly manufac-	1,529,251 2,798,216	4,078,128 3,455,763	7,798,332 7,862,989	3,226,000 1,571,377	4,717,558 1,022,326	
tured	12,708,365	3,152,194	22,333,856	15,539,042	1,410,038	19,788,630
Totals, Canadian Animal Husbandry	17,035,832	10,686,085	37,995,177	20,336,419	7, 149, 922	32,379,156
All Canadian Farm Pro-						
Raw materials Partly manufactured Fully or chiefly manufac-	1,927,175 2,822,322	19,455,881 3,655,490	29,606,346 8,205,686	83,663,435 1,572,050		159,148,888 4,249,176
tured	35,059,342	7,440,842	52,996,993	30,308,807	3,488,173	61,367,056
Totals, Canadian Farm Products	39,806,839	30,552,713	90,809,025	115,544,292	17,917,768	224,765,120
2.—Foreign Farm Pro- ducts!— Field Crops—	004 000	04 000 500	84 005 880		400	1 057
Raw materials Partly manufactured, Fully or chiefly manufac-	906,328 657,873	24,002,509 4,126,814		-	490 51,699	1
tured	17,380,327	14,670,251		4,110,702	i 	
Totals, Foreign Field Crops.	18,944,528	42,799,574	113,823,804	4,110,702	1,183,067	14,283.843
Animal Husbandry— Raw materials Partly manufactured Fully or chiefly manufac-	145,086 5,782	5,498,285 70,307	6,946,486 104,523	-	_	
tured	445,266	2,389,196	6,490,142	1,462	2,847	54,351
Totals, Foreign Animal Hus- bandry	596, 134	7,957,788	13,541,151	1,462	2,847	54,351
All Foreign Farm Products— Raw materials	1,051,414 663,655	29,500,794 4,197,121	40,971,856 26,241,564		490 81,699	1,857 57,825
Fully or chiefly manufac- tured	17,825,593	17,059,447	60.151,535	4, 112, 164	1,133,725	14,278,512
Totals, Foreign Farm Products	19,540,962	50,757,362	127,364,955	4,112,164	1,185,914	14,838,194
3.—All Farm Products— All Field Crops—						
Raw materials	1,304,252 681,979	39,380,262 4,326,541	55,833,384 26,479,738	80,437,435 673	7,686,520 1,055,380	149,590,598 1,276,622
tured	39,731,304	18,958,899	84,324,530	18,880,467	3,209,013	55,802,587
Totals, All Field Crops	41,717,535	62,665,702	166,637,652	99,318,575	11,950,913	206,669,807
	-					

^{&#}x27;In this classification the expression "Canadian Farm Products" refers, in the case of exports, to commodities actually produced, in their original state, on Canadian farms. In the case of imports, it covers all commodities of which the basic raw materials are such as Canadian farms produce. "Foreign Farm Products" covers, in both imports and exports, materials or commodities such as Canada does not produce in their original forms, e.g., cane sugar, tea, rubber, cotton, silk, etc.

 External Trade of Canada, by Main Groups and Degree of Manufacture, According to Origin, fiscal year ended Mar. 31, 1932—concluded.

—————								
Origin.	Impor	ts for Consu	nption.	Exports	Exports of Canadian Produce.			
	United Kingdom.	United States.	Total.	United Kingdom.	United States.	Total.		
Farm Origin—concluded. 3.—All Farm Prod'ts-concl. All Animal Husbandry—	\$	\$	\$	*	\$	\$		
Raw materials	1,674,337 2,803,998	9,576,413 3,526,070	14,744,818 7,967,512	3,226,000 1,571,377	4,717,558 1,022,326	9,560,147 3,030,379		
tured	13,153,631	5,541,390	28,823,998	15.540,504	1,412,885	19,842,981		
Totals, All Animal Husbandry	17,631,966	18,643,873	51,536,328	20,337,881	7, 152, 769	82,433,507		
All Farm Products— Raw materials Partly manufactured Fully or chiefly manufac-	2,978,589 3,485,977	7,852,611	34,447,250	1,572,050	2,077,706	4,307,001		
tured	52,884,935	24,500,289	113,148,528		4,621,898	75,645,568		
Totals, Farm Origin	59,349,501	81,369,575	218,173,990	119,656,4 5 6	19, 163, 682	239,163,314		
Wild Life Origin— Raw materials Partly manufactured Fully or chiefly manufac-	105,618 35,199	2,409,325 735,651	2,699,677 1,194,670	6,512,976 3,467		12,212,549 51,789		
tured	77,436	140,501	260,979	7,699	43,427	56,153		
Totals, Wild Life Origin	218,753	3,285,477	4,155,326	6,524,142	4,449,937	12,820,491		
Marine Origin— Raw materials Partly manufactured Fully or chiefly manufac-	8, 134 -	457,371	784,87 <u>4</u>	467,909 -	7,948,044 _	8,776,415		
tured	167,728	407,834	1,674,264	5,040,721	3,113,949	16,109,954		
Totals, Marine Origin	175,857	865,285	2,409,138	5,508,630	11,961,983	21,886,269		
Forest Origin— Raw materials Partly manufactured Fully or chiefly manufac-	1,439 12,066		6,066,940			7,239,924 56,064,289		
Totals, Forest Origin	3,832,989	20,478,012 27,345,511	26,874,546 33,915,904	7,325,200 13,811,920	94,720,668 140,480,137	112,548,812		
Avies, Portse Olighi,.,,	0,010,101	41,410,011	99,919,901	19,011,940	114, 104, 101	175,853,025		
Mineral Origin— Raw materials Partly manufactured Fully or chiefly manuac-	5,257,999 516,114	55,598,328 4,359,896	70,615,329 5,393,854		22,426,666 12,087,174	33,062,391 31,641,845		
tured	23,990.535	136,976,692	175,837,723		16,602,646	40,870,594		
Totals, Mineral Origin	29,764,648	195,934,916	251,846,806	28,476,711	51,116,486	105,574,830		
Mixed Origin— Raw materials Partly manufactured Fully on abidity manufactured	138,915	961,024	1,289,847	105,499	214,474 _]	331.481		
Fully or chiefly manufac- tured	12,878,111	40,985,067	66,712,803	4,960,367	8,760,865	18,274,792		
Totals, Mixed Origin	13,017,026	41,948,001	68,002,650	5,065,866	8,975,339	18,646,271		
Recapitulation— Raw materials Partly manufactured Fully or chiefly manufac-	8,351,779 4,188,271	108.279,388 19,918,992	145,602,500 48,392,561	97, 165, 476 16, 695, 953	53,076,738 54,246,483	220,442,024 92,396,405		
turedGrand Totals	93,831,729	223,488,395	384,508,843	60,182,296	127,863,453	263,505,873		
WIERU TOURS	106,371,779	351,486,775	575,563,364	174,043,725	235, 185, 674	576,344,302		

16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1932.

		<u>-</u>				
Group.	Import	s for Consum	aption.	Exports (of Canadian)	Produce.
arvap.	United Kingdom.	United States.	Total.	United Kingdom.	United States.	Total.
20 1 20	\$	\$	5	3	\$	8
Foods, Beverages and Smokers' Supplies.	29,742,865	29,919,782	113,955,928	112,184,969	1 8, 9 44, 6 35	221,997,876
Foods	3,409,592	28,865,970	74, 278, 488	111,932,527	18,925,095	210,028,324
Animals for food	10 319.064	16,555 3,130,463	16,585 7,106,527	2,165,423 80,218,926	374,974 2,872,190	2,733,031 147,113,774
Grains	319,064 62,657	3,130,463 2,351,418	7,106,527 6,006,735	68,305,053	2,792,597	122,927,518
products	33,614	388,442	450,370	9,542,184	7,706	21,608,308
Flour and meal Other milled products	20,480 13,134	387, 872 570	436,666 13,704	9,542,184	7,706	21,608,308
Bakery products and prepared foods	222,793	390,603	649,422	i	71,887	2,577,948
Other farinaceous sub-	· ·			2,011,000	(1,001	2,011,310
tances	11,408 107,638 161,980	187,523 179,200	319,779 1,534,186	-	_	_
FishFresh or Irozen		560, 165 340, 071	1,846,587 506,036	5,478,751 456,554	10,130,494 7,850,402	23,596,192 8,605,189
Dried, salted, smoked	101 665	·		1		
Presa or rozen. Dried, salted, smoked or pickled. Canned or otherwise preserved. Fruits. Fresh. Dried	101,665	43,233	464,480		1,135,089)
preserved Fruits	59,041 521,146	176,861 15,318,961 12,805,589 2,101,980	876,091 22,240,109	6,018,609	1,145,003 817,020	9,545,489 7,309,898
Fresh	121,139 302,087	12,805,589	15,405,008 4,930,373	[-5.620.618]	817,020 304,743	6,825,305 52,780
Dried	302,001				40.0==	1
Meats.,,,	107,000	411,392 760,555	1,904,728 1,689,749	392,117 2,818,472	12,277 1,010,888	481,813 4,960,816
Lard, lard compound and	1,690				l '	
substitutes Milk and its products	20,986	15,389 125,276 14,009	726,136	12,410,749	660,462	15,118,038
Milk and cream, fresh Milk preparations and					181,091	l '
Milk preparations and products Nuts Oils Salt	20,986 104,395	111,267 906,100	712,127 3,646,143	12,410,749 2,534	479,371 6,818	14,936,947 10,073
Oils	104,395 316,708 221,030	906,100 584,770 379,586	3, 646, 143 2, 541, 731 730, 400	-	12,351	-
		109.7131			-	1 -
Sugar and sugar products, Vegetables Vinegar	479,069 258,438	562,410 5,151,969	22,398,080 6,744,759	104,987 1,966,655	677,462 2,406,728	5,554,068
Vinegar Yeast	258, 438 7, 323 5, 989	5,151,969 89,151 293,896 494,288	22,398,080 6,744,759 101,686 304,826		14,524	15,569
Other articles of food	282,462 25,532,662	494,288	1,440,040	341,190	426,835	1,273,726 11,892,287
Beverages and infusions Beverages, alcoholic	21,694,549	827,475 545	37,796,499 25,929,880 388,541	252,206 73,3 0	12,281	11,666,339
Beverages, non-alcoholic Lime and other fruit	38,003	229,969			8,856	· ·
juices	23,516 14,487	185,595 44,374	236,123 152 418	175,758 3,128	2,603 6,253	197,142 15,094
Infusions	i 3 790 1101	506 061	152,418 11,478,078	3,120	3,425	13,662
Cocoa and chocolate Coffee and chicory	8,009 498,371 3,283,730	91,171 492,600 13,190 226,337	163, 165 4, 189, 599 7, 125, 314		3,425	13,662
Tea	3,283,730 810,111	13, 190 226, 337	7,125,314 1,880,941	236	7,259	77,315
Tobacco, manufactured Other smokers' supplies	515,777 294,334	175,437 50,900	770,087 1,110,854	236	7,259	77,315
Personal and Household	201,001	00,000	1,110,001			
Utilities.	16,223,240	29,759,899	59,505,704	7,454,532	2,413,802	15,897,958
Books, printed matter, sta-						
tionery and educational supplies.		10,964,048	15,255,472	554,361	574,849	1,436,698
Books, pamphlets, printed matter and maps	2,045,552	8,409,718	10,973,042	124,576	443,484	729,320
BooksCharts and maps	1 7 R 8941	2,820,466 38,352	A 073 274	93 973	102,843	162,746
Newspapers	77,760	3,687,951	52,142 3,778,327 2,169,299	100 500	940 841	Fee 574
Printed matter, n.o.p Stationery	12,400 77,760 236,498 421,587	1,862,949 1,050,238	2,169,299 1,829,049	100,703 394,581	840,641 49,324	566,57 4 580,651
Educational equipment (except text books)	107,690	618,015				25,366
Works of art	379,433	886,077	907,826 1,545,555	8,855 26,349	70,009	101,861

16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1932—continued.

						
Стопр.		s for Consum	ption.	_	f Canadian I	roduce.
	United Kingdom.	United States.	Total.	United Kingdom.	United States.	Total,
Personal and Household Utilities—concluded.	\$	\$	ş	\$	\$	\$
Clothing. Blouses and shirtwaists.	4,682,109 246	3,899,762 13,213	13,534,716 21,762	2,115,058 -	124, 251 -	5,280,175
Boots and shoes (excluding materials)	498,013	932,640 51,237	1,585,310	1,831,623	29,529	3,664,258
Gloves and mitts Handkerchiefs Hats and caps (excluding	325, 461 689, 461	13,061	2,528,361 1,084,943	129, 247	5,544	171,376
materials)	311,260 775,104	430,370 33,661	1,398,497 855,792	- 88, 161	912 1,348	32,075 766,402
Shirts	9,473 246,682	33,661 26,297 26,302	1,398,497 855,792 37,453 348,547	24,889	237	109,098
Underwear Miscellaneous clothing Household utilities	1,826,409 6,699,456	2,372,981 9,956,087	5,676,051 19,913,361	41,138 2,626,343	86,681 160,529	536,966 4,345,408
BeddingCutlery	563,2011	73.014 76,227	859,473 349,015	,,,,,,,,	346	28,699
Floor coverings Wool carpets	185,994 512,645 288,926	83,418 29,890	990,433 617,253	1,301 802	4,436 4,355	44,541 10,778
Other floor coverings Furniture	223,719 185,593	53,528 1,118,384	373,180 1,449,567	499	81 30,183	33,763 315,660
Glassware, chinaware and pottery	2,563,290	693,303 502,163	4,347,840 792,095	854	28,812	36,325
Glassware Chinaware and pottery.	50,670 2,512,620	191, 140	3,555,745	- 854	28,812	36,325
Household linen	1,296,101 80,531	186,376 1,715,008	1,927,420 1,810,018	1,995,923	3,842	2,837,560
Kitchen equipment	298, 084 103, 291	4, 172, 793 655, 040	1,810,018 4,515,280 887,710	32,290 421,860	14,896 871	158,598 591,710
Window curtains and fix-	206, 266	163,490	515,943	-	-	-
Miscellaneous household utilities	794,460	1,019,039	2,260 ,662	91,070	77, 143	332,315
ments and timepieces Jewellery and personal ornaments	363,218	1,194,259	8,904,945	48, 267	5, 165	135,715
ornaments	321,637 41,581	586,597 607,662	2,141,182 1,763,763	1,373 46,894	1,691 8,474	9,608 12 6,107
Personal utilities	705,454 385,413	1,205,067 806,633	2.927.5B9	100	30 30	17,227 17,227
Toilet articles Other personal utilities Recreation equipment and	320,041	398,434	1,864,870 1,062,719		-]	11,221
supplies	818,741	2,540,676	4,369,621	2,110,403	1,548,978	4,682,735
accessories	76, 184	733,097	966,820	5,407	104,315	149,481
ecasories Equipment for indoor	105,052	814,531	998,215		992,713	4,011,672
games. Miscellaneous articles for	80,102	59,248	149,701		-	
amusement	557,403	933,800	2,254,885	34,340	451,950	521,582
Electrical Energy.	_	90,381 93,381	90,3 81 90,381	-	2,708,661 2,706,661	2,710,410 2,710,410
Electrical Equipment.	1,687,956	13, 424, 638	15,539,703	395,354	1,285,553	3,022,491
Batteries	185,561 540,731	349,975 1,752,142	538,243 2,428,365	732 3,328	2,228 3,603	165,899 14,287
Lighting equipment Transmission equipment	21.954	929, 243	1,069,212 90,097 11,413,786	-	1,236,350	1,318,752
Other electric apparatus	3,317 916,393	86,437 10,306,241	11,413,786	391,294	43,372	1,523,553
Producers' Equipment.	12,501,089	80,335,941	99, 366, 515	1,475,853	6,063,556	13,785,162
Abrasives. Containers, wrapping and	103,990	926,394	1,073,813	113, 192	1,415,535	1,546,532
packing materials Bags and sacks Barrels Cordage (except binder	2,231,991 104,241 82	4,224,379 333,201 147,538	8,108,383 467,816 149,651	236, 495 37, 779 —	137,835 1,166 13,074	1,685,789 160,575 60,426
twine) Wrapping paper	21,776 111,766	46,555 526,524	74,463 825,955	8,509 182,887	2,698 22,942	38,661 1,064,923
Miscellaneous containers etc	1,994,126	3,170,561	6,590,498	7,320	97,955	361,204

16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1832—continued.

Out who	Import	s for Consum	ption.	Exports o	f Canadian P	roduce.
Origin,	United Kingdom.	United States.	Total.	United Kingdom	United States.	Total.
Des desente Particular	\$	\$	\$	*	\$	\$
Preducers' Equipment— concluded.		j				
Farm equipment	378,849	3,759,463	5,233,497	352,949	2,355,867	4,233,387
Agricultural implements and machinery	118,128	3,101,171	3,377,365	315, 136	802,288	2,493,739
Dairying equipment Engines for farm pur-	44,146	544,581	709,214	385	92, 183	95,828
Planting and tillage im-	17,314	932, 474	963,217	-	8,276	8,774
plements Harvesting equipment	1,665 6,533	106,493 137,178	109, 441 153, 559	33,682 83,321	176,052 177,682	561,861 617,255
Seed separation machin- ery	310	89,071	89,492	450	169, 191	236, 015
Other agricultural imple- ments and machinery	1		55,252			,
and parts of	48,160	1,291,374	1,352,442	197,298	178,904	974,006
Animals (except animals for food)	91,7821	286,542	427,325	14,724	1,267,507	1,395,489
Animals for improve- ment of stock	71,761	113,344	195, 594	18, 145	619,456	673, 650
Other animals Fencing materials	20,021 78,330	173, 198 145, 343	231,731 319,225	1,579 22,561	648,051 275,300	721,839 319,397
Harness and horse equip-	29.988	28,972	60,967 1,012,766	139	1,430	4,109
Plants, trees and shrubs Miscellaneous farm equip-	60,234	161,973			9,342	20,653
ment	387	35,462	35,849	į į	-	
Industrial equipment Fisheries equipment	4,255,501 609,934	23,969,579 397,543	29,332,842 1,138,050	690,518	414,875 32,696	2,274,264 43,834
Industrial and trade mach-						-
inery (except mining, electrical and printing machinery, boilers and					j	
engines)	2,011,806 12,287	15, 204, 297 656, 349	17,628,771 671,757	477,515	329,830 195,717	1,570,138 201,451
Office or business mach-			1,337,539	141,092	2,260	177,132
inery and accessories. Metal-working machin-		1,810,460		1	2,200	117,192
Pulp and paper-making	288,505	2,533,645	2,867,746			
machinery and acces-	4,803	299,302	310,789	149,849	2,548	545,279
Textile and cordage ma- chinery	834,375	2,664,546	3,607,460		- İ	
chinery ma-	853,612	7,739,995	8,833,480	186,574	129,310	646,276
Mining and metallurgical equipment	1 411.370	2,015,776	2,478,450	i - i	-	_
Printing equipment Photographic equipment	255.834	2,843,974 583,282	3,253,686 699,864	4,143 1,609	7,817 1,157	14,134 13,777
Tools, n.o.p	34,675 186,221	708,723	1,078,492	28,715	13,204	13,777 107,765
(except electrical) Miscellaneous industrial	[110,582]	268,602	380,470	65,239	2,349	262,962
equipment,	635,079	1,947,382	2,675,059	113,297	27,822	261,654
Light, heat and power equip-						
ment and supplies (ex- cept electrical and trans-		44,072,740	52,024,752	69,098	1,545,834	3,842,778
portation) Boilers and engines (except	5,381,528		•			53,887
for larms)	252,172 5,111,245	1,285,064 41,959,501	1,623,714 49,399,847	u 48.9041	15,780 1,515,332	3,245,599 1,872,200
CoalFuel oils	5,094,369 381	30,123,108 8,602,172	35,501,362 10,645,463 8,253,022	48,954 -	732,878 267,206 515,248	853,800
Other fuels	16,495 1,690	8,602,172 3,234,221 286,747	8,253,022 312,042	6,556	515,248 14,110	519,599 510,346
Other light, heat and power equipment	16,421	541,428	689,149		612	32,946
Lubricating oils and greases.			3,593,228	! !	133,610	202,412

16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1932—continued.

	<u> </u>			1		
Origin.	Impor	ts for Consun	option.	Emorts	of Canadian	Produce.
	United Kingdom.	United States.	Total.	United Kingdom.	United States.	Total.
	\$	\$	\$	\$	\$	\$
Producers' Materials.	38,201,261	138, 451, 919	206,250,881	48,994,214	198,375,597	295,663,658
Building and construction	0.050.540	10 000 2	17 509 000	4 545 004	*** 675 661	DO 6EC 894
materials Asphalt and its products	2,256,512 60	552,717	17,563,008 553,751 2,021,888	4,545,894		-
Cement, lime and plaster	442,781 56,422	12,990,665 552,717 1,372,308 200,250	261.492	18 1,101	36,949 279,423	46,037 409,885
Glass for building	330,732 322,618	2, 705, 582	1,403,427 3,341,324	2,640	_	42,906
Iron piping	149,852 672	727,857 17,729	935,929 46,571	2,640 65,974 2,298	416,277 2,407	42,906 1,112,071 102,819
Nails Lumber and timber Paints and painters' mate-	1,819	2,735,895	2,753,122	2,298 3,764,275	16, 155, 985	103,819 24,648,587
rishs Paints and varnishes	592,037	2, 158, 141	3,159,394	127,154	50, 199	336,010
Painters materials	84,279 507,758	344,331 1,813,810	442,317 2,717,077 665,786	101,894 25,260	4,746 45,453	251,023 84,987
Stone, marble and slate Railway materials	52,381 14,904	378,313 819,761	665,786 841,695	53 49,324	198,039 376,413	200,142 692,639
Miscellaneous construction materials	292, 234	1,125,080	1,579,129	533,057	159,542	1,065,558
Farm materials	502, 298 30, 211	3,382,603 1,927,578	7,393,571 3,549,316	4,636.804 2,550	5,263,906 2,207,600	18,223,939 2,668,519
Fodders	1,157	248,395 828,155	253,231 1,594,764	3,514,677 686,466	2,060,885 71,032	13,205,778 850,276
Seeds	146,714				·	
rials Manufacturers' materials For explosives and ammu-	324,216 35,445,451	378, 475 112, 078, 651	1,996.260 181,294,302	433,111 37,721,516	924,389 175,436,457	1,499,366 248,783,095
nition	44,468	96,786	355,022	-	-	-
cordage	21,930,557	24,301,362	62,068,341	381,886	200,416	1,000,045
cordage manufacture Yarn for weaving or	3,642,699	15,623.968	22,383,116	331,346	187, 225	544,053
knitting Piece goods for clothing.	3,800,469 13,658,605	1,498,355 5,517,091	6,132,531 29,711,558 910,224	2,497	4,705	62,705
Thread for sewing Buttons and materials	13,658,605 463,007	294,579	910, 224		-7.1	-
for (except shoe but-	13,400	131,913	298,969	10,143	83	10,248
tons) Corset materials	7,800	48,654 652,131	56,454 1,602,067	-	-	10,210
Hat materialsOther textile, clothing	113,767			4 000	0.400	000 000
and cordage materials For dyeing and tanning For fur and leather goods	230,810 276,084	534,671 2,027,102	973,422 3,463,461	37,900	8,403 3,039	383,039 3,039
For fur and leather goods	826,867 274,614	7,484,295 3,569,440	10,496,932 4,515,296	8,122,872 6,514,004	6,824,176 4,317,974 1,506,506	16,901,875 12,161,946
Hides	14.2231	1,582,401 2,115,121 217,333	4,515,296 2,867,945 2,868,887	37,491 1,571,377	1,506,506 999,696	12,161,946 1,751,443 2,988,486
LeatherOther materials For smelters and metal re-	530,483 7,547	217,333	244,804	' -	-	
fineries	299,014 122,665	4,660,355 686,166	5,912,898 925,596	7,285,730 5,119,758	19,663,470 1,689,926	29,062,382 11,586,656
For machinery, imple- ments, tools and cuttery	25,472	764,031	843,565	52,295	5,521	81,916
For electrical goods	9,610	893,903	923,992	- 45,250	0,027	-
For furniture and wood wares	10,926	2,395,951	2,441,371	669,266	26.872	1;071,695
Cabinet woods Other materials	9,231 1,695	1,754,643 641,808	1,773,598 667,773	71,686 597,580	2,895 23,977	76,847 994,848
For musical instruments For wood-pulp	6,463 52,436	18,459 2,823,870	27,063 2,882,957	1,406	8, 196, 144	25,469 8,196,144
For naner-making	15,981	715,242	750,652	1,529,658	21,755,915	28,139,799
For paper goods, printing and bookbinding For rubber working in-	302,246	2,246,485	2,627,830	5,892,869	89, 865, 544	104,233,449
dustries. For vehicles (not including	35,974	4,236,205	4,370,535	-	37,456	42,306
For vessels	161,239 345,161	791,122 333,109	952,438 697,439	-	10,520	13,304
Other materials for chemical-using industries			7,081,730	1,483,950	2,284,023	5,595,818

16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1932—concluded.

Origin.	Import	s for Consum	ption.	Exports	of Canadian I	roduce.
Origin.	United Kingdom.	United States.	Total.	United Kingdom.	United States.	Total.
Producers' Materials-con	\$	\$	\$	\$	\$	\$
Other materials for metal- working industries Other materials for wood-	7,647,012	14,807,515	28,712,793	3,580,933	15,916,444	26,741,069
using industries Other manufacturers' ma-	80	115,702	213, 121		1,654,781	3,446,657
terials	2,377,629	37,692,991	50,546,566	2,972,494	7,301,969	12,641,472
Transportation.	1,017,548	25,234,801	26,451,132	198,600	453,614	10,130,401
Vehicles	964,738 443,401	24,785,035 22,882,237	25,940,945 23,395,945		312,375 210,509	9,617,723 4,331,473
for railways	124,160 79,020 24,054	282,104 27,964 493,524	357,314 115,999 518,403		100 552 59,530	1,408 3,076 79,164
Locomotives	168 7,614	191,228 18,493	191,396 26,107	-	45,334 14,196	52,745
Other carsOther vehicles	16,272 273,154	283,803 855,337	300,900 1,230,494	12,415	5,780	26,419 49,988
Rubber tires	20,949 52,810 26,859 25,951	293,869 449,766 212,213 237,553	822,790 510,187 243,495 266,692	14,887 5,442 5,442	35,904 141,239 141,239	5,152,614 512,678 512,678
Medical Supplies.	1,128,039	4,140,656	6,551,542	285,970	235,116	822,412
Alkaloids and their salts	75,242	70,661	264,307	_	_	
Biological medicines Drugs, crude	3,499 9,150	149,839 106,483	163,582 161,653	23,068	128,584	252,574
Medicinal and pharmaceu- tical preparations Oils and gums, chiefly for	727,375	1,400,263	2,815,009	262,902	9,097	471,086
medicinal use	72,296	90, 935	363,975		97,435	98,752
equipment and materials.	240,477	2,322,475	2.783,016		-	
Arms, Explosives and War Stores.	476,172	532,892	1,058,743	1,135	1,182	96,043
Arms Military equipment	30,537 158,757	123,028 2,059	180,676 161,296	. –	50	294
Ammunition and explosives.	286,878	407,805	716,771	1,035	1,132	95,749
Goods for Exhibition.	274,809	3,527,595	3,814,539	25,200	210,330	238,565
Animals	240 274,569	1,273,519 2,254,076	1,273,759 2,540,780		210,330	238,565

17.—Values of Total Exports, Imports Entered for Consumption, and Duty Collected thereon, at certain Ports and by Provinces, during the fiscal years ended Mar. 31, 1931 and 1932.

Nors.—The values of imports and exports at the several ports of entry given in the following table indicate that merchandise of the value stated was entered inwards, or passed outwards, at the ports mentioned, but do not imply that the imports were all for consumption at such ports or that the exports originated there.

	1931.			1932.		
Province and Port.	Total Exports.	Imports for Consump- tion.	Duty Collected.	Total Exports.	Imports for Consump- tion.	Duty Collected.
P. E. Island.	\$	8	*			\$
Totals, P. E. Island	1,815,717	1,700,296	167,524	1,145,551	1,188,706	133,859
Nova Scotla.						
Halifax	34,792,102	20,219,909	2,677,445	28,093,426		2,010,810
North Sydney	2.943,274	415,275	30,553	2,033,197		18,142
Sydney	2,043,289	3.118.646	234,742	770,887	1,281,328	129,280
Yarmouth	2,531,090		56,511	1,861,430	516,520	48,493
Totals, Nova Scotiat	52,107,869	28,952,236	3,428,148	41,414,498	18,885,648	2,490,995

¹ Totals include other smaller ports.

17.—Values of Total Exports, Imports Entered for Consumption, and Duty Collected thereon, at certain Ports and by Provinces, during the fiscal years ended Mar. 31, 1931 and 1932—continued.

Madram]	1931.		_ 	1932.	
	5 0						
Fredericton. 7, 121, 106 Macdam Jot. 7, 121, 106 Maccton. 344, 929 Saint John. 35, 902, 487 Saint John. 35, 902, 487 Saint John. 35, 902, 487 Saint John. 35, 902, 487 Saint John. 35, 902, 487 Saint John. 36, 922, 488 Saint John. 36, 902, 487 Totals, New Brunswick Totals, New Brunswick Atheistan. 14, 843, 659 Chicoutinin. 5, 77, 249 Chicoutinin. 5, 77, 249 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72, 72 Saint John. 36, 72 Saint John. 36, 72, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John. 36, 72 Saint John.	Province and Port.	IUUM	Consump-	Duty Collected.	TOCAT.	Consump-	Duty
Maddam Jet. 7,121,196 348,929 20,11,135 338,217 174,819 174,819 174,819 174,819 174,819 189,820 20,11,135 338,217 174,819 10,485,741 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711	New Brunswick,	\$	\$	*	\$	*	*
Maddam Jet. 7,121,196 348,929 20,11,135 338,217 174,819 174,819 174,819 174,819 174,819 189,820 20,11,135 338,217 174,819 10,485,741 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711 1,491,711	Fredericton		1,662,371	744, 425	_	1,248,692	544,170
Totals, New Brunswick S2, 249, 582 24, 377, 663 3, 331, 242 39, 482, 875 15, 184, 888 2, 455, 164	McAdam Jet	7, 121, 196	251,719	28,454	3,411,273	50,794	6,407
Totals, New Brunswick S2, 249, 582 24, 377, 663 3, 331, 242 39, 482, 875 15, 184, 888 2, 455, 164		340,920	2,911,138 16 847 098	393,217 1 838 511	174,819 26 260 621	1,260,989	289,829
Chicoutim	Woodstock	6, 427, 163	1,628,053	76, 118	5,232,146	480,869	45,677
Athekstan	Totals, New Brunswick	52,319,592	24,377,063	3,331,242	39,482,875	15,196,088	2,456,162
Athekstan	Onehee						
Chicoutimi		14.843.059	1,478,950	114,445	8,255,204	998,049	87,367
Hall	Chicoutimi	5,471,249			3,156,789	2,767,168	95,801
Hall	Coaticook	6,656,678	296,950	18,849	4,708,179	234,732	
Montreal 133, 764, 482 201, 171, 761 48, 222, 251 116, 875, 987 184, 775, 673 22, 184, 853 201, 171, 761 46, 687 18, 775, 866 185, 875, 822 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 825 47, 98 28, 875, 875, 875, 875, 875, 875, 875, 87	Hall	30	1 840 080	203 096	_	2.200,949 1.264.510	
St. Armand. 21, 393, 412 - 2, 099, 788 St. Hyacinthe - 2, 099, 788 St. Johns - 51, 010, 638 8, 887, 454 772, 372 34, 519, 002 6, 085, 999 710, 58 St. Johns - 12, 997, 401 132, 082 132, 083, 179 140, 861 1817, 256 6, 085, 999 710, 58 Shewinigan Falls - 1, 297, 401 132, 082 152, 744 3, 774, 996 474, 966 1, 744, 941 1, 291, 311 5, 200, 434 631, 896 152, 744 3, 774, 996 474, 968 1, 724, 931 156, 200 4, 721, 801 156, 907 156, 907 156, 907 183, 603 177, 528, 485 183, 663 183, 663 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485	Montreal	132,764,484	201,171,761	36, 292, 851	116.875,967	138,475,073	20 184 539
St. Armand. 21, 393, 412 - 2, 099, 788 St. Hyacinthe - 2, 099, 788 St. Johns - 51, 010, 638 8, 887, 454 772, 372 34, 519, 002 6, 085, 999 710, 58 St. Johns - 12, 997, 401 132, 082 132, 083, 179 140, 861 1817, 256 6, 085, 999 710, 58 Shewinigan Falls - 1, 297, 401 132, 082 152, 744 3, 774, 996 474, 966 1, 744, 941 1, 291, 311 5, 200, 434 631, 896 152, 744 3, 774, 996 474, 968 1, 724, 931 156, 200 4, 721, 801 156, 907 156, 907 156, 907 183, 603 177, 528, 485 183, 663 183, 663 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485 177, 528, 485	Quebec	10,055,317	13,321,727	2,190,517	6,646,697	9,078,956	1,705,502
St. Johns. 51,010,638	Rock Island	3,171,319	1,272,012	68,884	1,898,856	867,582	47,994
St. Johns.	St. Hyseinthe	21,393,419	2 809 788	40,007 150,054	42,000,178 4 050	1 217 856	18,721 180 590
Sherbrooke 361,479 5,920,634 631,899 15,744 3,774,896 474,06 50 50 50 50 50 50 6,985,100 4,275,029 403,597 4,473,891 2,780,679 303,677 Valleyfield	St. Johns	51.010.638	8,887,454	772,372	34.519.002	6.085.999	710,582
Sorel. 1,741,941 1,291,311 56,200 4,721,801 836,162 65,97 84 84 1,990,37 226,618 25,37 Three Rivers. 6,985,100 4,275,029 403,597 4,473,891 2,268,689 102,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 2,268,890 121,758 188,663 11,628,91 188,679 11,888,747 188,162 11,628,91 188,663 2,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690 12,268,690	Shawinigan Falls	-	2.997.401	133,062	_	2, 171, 681	105,625
Satton 9,786,167 234,963 31,278 4,279,037 2,28,618 25,377 Valleyfield - 2,278,554 188,663 4,473,891 2,286,890 121,755	Sherbrooke	361,479	5,920,634	631,899	152,744	3,774,896	474.061
Totals, Quebec	Sutton	0 706 167	234 083	30,200 31,278	4,721,801 4 970 037	830, 102 228 818	06,97 4 95,979
Totals, Quebec	Three Rivers	6,985,100	4,275,029	403,597	4.473.891	2.780.679	303.673
Ontarie. 1,028,897 1,508,931 363,481 546,058 1,022,021 320,133 Belleville. 1,244,154 3,040,073 478,922 770 1,188,747 349,393 Brantford. 15,523 4,631,002 471,361 11,623 3,115,114 398,707 Bridgeburg. 45,173,313 5,049,499 826,196 28,396,764 3,228,764 449,544 Brockwille. 26,6365 1,663,539 126,581 153,194 747,974 110,357 Chatham. 36,022 3,991,555 580,014 78 2,494,383 698,257 Cobourg. 1,522,666 1,593,166 1,593,166 1,081,126 1,389,462 391,911 Corresponder. 1,623,337 7,761,127 797,587 74,133 10,632,373 1,345,696 241,988 Fort Frances. 14,324,172 979,587 174,313 10,632,373 1,345,696 241,988 Fort William. 29,713,877 7,051,325 1,400,129 16,106,149 3,180,759 387,11 </th <td>Valleyfield</td> <td></td> <td>2,278,554</td> <td>188,663</td> <td></td> <td>2,263,890</td> <td>121,755</td>	Valleyfield		2,278,554	188,663		2,263,890	121,755
Amherstburg 1, 028, 897 1,508, 931 363, 481 546, 958 1,022, 021 320, 132 Belleville	Totals, Quebec1	265,110,102	257,220,412	42,109,876	263, 169, 185	177, 526, 485	33,708,759
Belleville 1,244,154 3,040,073 478,922 770 1,188,747 349,395 Brantford 15,523 4,631,002 471,361 11,623 3,115,114 398,707 Bridgeburg 45,173,313 5,049,499 826,196 28,396,764 3,228,764 449,544 Brockville 261,865 1,663,549 125,581 153,914 77,974 110,35 Chatham 36,022 3,091,555 580,014 78 2,494,383 698,25 Cobourg 1,582,666 1,583,169 233,040 1,106,126 1,389,462 311,911 Cornwall 2,066,365 2,422,320 233,676 1,015,336 2,021,583 249,38 Fort Frances 14,324,172 679,587 174,313 10,632,373 1,345,696 241,98 Fort William 29,713,377 7,651,325 1,400,129 16,016,149 3,160,759 387,111 Galt 1,173 4,798,869 439,735 288 3,507,015 357,441 Guelph 3,208,705 348,586 1,339,347 20,881,899 3,712,87 Kingston 194,867 2,498,298 207,623 743,960 1,191,749 183,161 London 194,867 2,498,298 207,623 743,960 1,191,749 183,161 London 59,497,092 9,287,067 1,370,384 35,649,811 5,457,950 Niagara Falls 59,497,092 9,287,067 1,370,384 35,649,811 5,457,950 North Bay 253,811 3,399,292 513,986 137,183 2,360,776 North Bay 225,881 3,399,292 513,986 137,183 2,360,776 410,106 Cohawa 249,981 2,565,563 350,172 1,119,717 843,187 348,711 Peterborough 1,295 6,246,836 1,067,373 1,150 3,677,640 933,827 Prescott 6,578,982 3,666,726 634,729 440,289 3,266,436 533,92 St. Catharines 3,606,171 4,666,726 634,729 440,289 3,266,436 520,29 515,548 Stratiord 904,876 194,136,162 365,159 2,113,186 120,29 157,526 Startiord 904,876 194,136,162 365,159 291,177,505 552,09 Welland 606,818 1,400,125 799,791 291,910 5,755,526 751,344 Windsor 34,103,289 448,271,306 73,342,478 162,740,713 279,344,174 57,028,977		* ^20 000	f #00 001	040 401	V		***
Brankford 15, 523 4, 631, 002 471, 361 11, 263 3, 115, 114 398, 704 Brockwille 261, 805 1, 663, 539 126, 581 153, 914 747, 974 110, 835 Chatham 36, 022 3, 91, 555 580, 014 78 2, 494, 383 698, 25 Cobourg 1, 582, 666 1, 583, 169 283, 676 1, 108, 126 1, 389, 462 391, 91 Cornwall 2, 606, 865 2, 422, 320 233, 676 1, 108, 326 2, 221, 583 249, 384 688, 25 Fort Frances 14, 324, 172 979, 587 174, 313 10, 632, 373 1, 345, 696 241, 987 Fort William 29, 713, 377 7, 651, 325 1, 400, 129 16, 016, 149 3, 160, 759 387, 41 Guelph - 3, 208, 705 348, 584 1, 339, 347 20, 811, 987 3712, 387 Kitchener - 8, 306, 492 888, 658 1, 339, 347 20, 811, 987 3712, 877 Kitchener - 8, 306, 492 888, 658 1, 492	Amheretburg	1,028,807	1,508,931	363,481 478 022	546,958	1,022,021	320,132
Bridgeburg	Brantford	15,523	4,631,002	471.361	11.623	3, 115, 114	398,707
Brockville	Bridgeburg	45, 173, 313	5.049.499	826,196	26,396,764	3,228,764	449,540
Cobourg 1,582,666 1,583,169 283,040 1,108,126 1,389,462 391,911 Cornwall 2,066,365 2,422,200 238,3676 1,015,336 2,021,583 249,384 Fort Frances 14,324,172 979,587 174,313 10,632,373 1,345,696 241,988 Fort William 29,713,877 7051,325 1,400,129 16,016,149 3,180,759 387,441 Guelph - 3,208,705 348,584 -2,075,279 279,537 279,544 Hamildon 2,146,335 35,138,911 4,587,868 1,339,347 20,831,959 37,12,877 Kingston 194,867 2,498,298 207,623 743,960 1,191,749 183,166 Kitchener - 8,064,922 888,658 1,492 5,133,517 619,686 Loadon - 11,228,910 1,852,134 - 6,728,467 1,305,600,776 Niagara Falls 59,497,092 9,287,067 1,370,384 35,649,811 5,457,960 1,004,477	Brockville	261,865	1,663,539	126,581	153,914	747,974	110,357
Gueph	Cohoure	30,023 1 582 666	1.593.169	283.040		1,389,462	301.911
Gueph	Cornwall	2.066.365	2,422,320	283,676	1,015,336	2.021.583	249,384
Gueph	Fort Frances	14,324,172	979,587	174,313	10,632,373	1,345,696	241, 98 5
Gueph	Fort William	29,713,377	7,051,325	1,400,129	16,016,149	3,160,759	827,111
Hamilton 2,146,335 35,138,911 4,587,868 1,339,347 20,381,959 3,712,87 Kingston 194,867 2,498,298 207,623 743,960 1,191,749 183,161 Kitchener - 8,306,492 11,258,910 1,882,134 743,960 1,191,749 183,161 London 59,497,092 9,227,067 1,370,384 35,640,811 5,487,950 1,004,477 North Bay 253,811 3,399,292 513,986 137,133 2,360,776 410,104 Oshawa - 232 9,318,718 2,325,522 372 7,543,063 1,905,933 Ottawa - 11,771,106 2,264,683 - 7,934,128 1,357,971 Peter borough 1,295 6,246,833 1,077,373 1,150 3,677,640 393,827 Port Arthur 54,870,619 1,378,577 194,565 30,045,009 828,633 1,377,505 552,008 St. Catharines 3,607,171 4,666,726 684,729 4,676,315 1,377,505<	Gnalph	1,113	3, 208, 705	348.584	400	2.075.279	279.548
Kingston 194,867 2,498,298 207,623 743,969 1,191,749 183,161 London - 8,306,492 888,658 1,492 5,133,517 619,668 London - 11,258,910 1,852,134 - 6,738,467 1,385,795 North Bay 253,811 3,399,292 513,986 137,183 2,560,776 410,105 Oshawa 222 9,318,718 2,326,522 372 7,543,063 1,905,93 Ottawa - 11,771,106 2,264,633 - 7,944,128 1,757,97 Parry Sound 249,981 1,595,563 350,172 1,119,717 843,187 348,717 Pott Arthur 54,870,619 1,378,577 194,563 0,045,069 828,633 143,34 Prescott 6,878,982 30,58,477 508,414 4,576,315 1,377,505 552,09 St. Catharines 3,651,91 2,214,298 398,177 1,993 1,200,587 307,35 552,09 Samix Ste, Marie	Hamilton	2,146,335	l 35 138 Gt1	4,587,868	1,339,347	20, 881, 959	3,712,872
London. Niagara Falls. 59,497.092 9,227.067 1,370,384 35.640,811 5,457.960 1,004,477 North Bay. 253,811 253,981 232 9,318,718 2,326,522 372 7,543,063 1,905,030 Cottawa11,771.106 2,224,683 -7,324,128 1,757,973 Parry Sound. 249,931 1,595,563 350,172 1,119,177 843,187 348,717 843,187 348,718 Peterborough. 1,295 6,246,836 1,067,373 1,150 3,677,640 933,829 Port Arthur. 54,870,619 1,378,577 194,565 30,045,009 828,633 143,344 Prescott. 6,878,982 3,058,477 508,341 4,576,315 1,377,505 552,009 38.124 240,889 386,433 133,344 4,576,315 1,377,505 552,009 38.124 386,436 533,92 St. Tatharines 3,606,171 4,666,726 684,729 4,400,889 3,286,436 533,92 St. Tatharines 3,670,171 4,666,726 834,729 4,400,889 3,286,436 533,92 St. Tatharines 5,406,133 5,337,138 943,213 3,615,010 2,713,789 588,581 Toronto 904,876 194,136,182 36,515,378 340,221 213,366,102 29,157,520 341,481 3,615,010 2,713,789 588,581 Toronto 904,876 194,136,182 36,515,378 440,227 131,366,102 29,157,520 341,481 3,615,010 2,713,789 588,581 Toronto 904,876 194,136,182 36,515,378 440,227 131,366,102 29,157,520 341,481 3,615,010 2,713,789 588,581 Toronto 904,876 194,136,182 36,515,378 440,227 131,366,102 29,157,520 115,013 Welland 606,818 11,400,125 799,791 291,910 5,785,526 751,344 Windsor 1,044,221 31,104,422 322,001 31,044,221 31,104,422 3151,033 Totals, Ontariol 292,564,669 446,271,366 73,342,478 162,740,713 279,344,174 57,028,977	Kingston	194,867	1 2.498,298	207,623	743,980	1,191,749	122 169
North Bay. 253,811 3,399,292 513,986 137,183 2,360,776 410,109 Cahawa. 222 9,318,718 2,356,522 372 7,543,063 1,965,93 Ottawa. 11.771.106 2,264,683 1,071.771 843,187 348,711 Peterborough. 1,295 6,246,836 1,067,373 1,150 3,677.640 938,82 Port Arthur. 54,870,619 1,378,577 194,565 30,045,069 828,633 143,346 Presectt. 6,878,982 3,058,477 508,341 4,576,315 1,377,505 552,09 St. Catharines. 3,606,171 4,666,725 684,729 4,400,889 3,266,436 583,92 St. Thomas. 36,519 2,214,298 398,177 1,993 1,220,587 397,355 Sania. 27,045,773 15,333,637 632,578 17,980,830 8,891,202 565,298 Stratford. 27,045,773 15,333,637 632,578 17,980,830 8,891,202 565,298 Stratford. 27,046,773 15,337,158 943,213 3,615,010 2,713,789 585,587 Stratford. 28,040,876 194,126,162 36,515,378 440,287 11,1983 134,411 Toronto. 904,876 194,126,162 36,515,378 440,287 11,366,102 29,187,522 Wallaceburg. 233,067 2,507,330 410,668 24,222 29,001 115,012 Welland. 606,818 11,400,125 799,791 291,910 5,785,526 751,348 Windsor. 34,103,289 43,586,231 835,197 26,137,356 25,012,864 5,610,15 Woodstock. 4,600 1,696,351 155,273 1,133 1,104,422 57,028,977	T. ondon	_	8,305,492	1 859,658	1,492	8,133,517 6,739,487	1 325 700
North Bay. 253,811 3,399,292 513,986 137,183 2,360,776 410,109 Cahawa. 222 9,318,718 2,356,522 372 7,543,063 1,965,93 Ottawa. 11.771.106 2,264,683 1,071.771 843,187 348,711 Peterborough. 1,295 6,246,836 1,067,373 1,150 3,677.640 938,82 Port Arthur. 54,870,619 1,378,577 194,565 30,045,069 828,633 143,346 Presectt. 6,878,982 3,058,477 508,341 4,576,315 1,377,505 552,09 St. Catharines. 3,606,171 4,666,725 684,729 4,400,889 3,266,436 583,92 St. Thomas. 36,519 2,214,298 398,177 1,993 1,220,587 397,355 Sania. 27,045,773 15,333,637 632,578 17,980,830 8,891,202 565,298 Stratford. 27,045,773 15,333,637 632,578 17,980,830 8,891,202 565,298 Stratford. 27,046,773 15,337,158 943,213 3,615,010 2,713,789 585,587 Stratford. 28,040,876 194,126,162 36,515,378 440,287 11,1983 134,411 Toronto. 904,876 194,126,162 36,515,378 440,287 11,366,102 29,187,522 Wallaceburg. 233,067 2,507,330 410,668 24,222 29,001 115,012 Welland. 606,818 11,400,125 799,791 291,910 5,785,526 751,348 Windsor. 34,103,289 43,586,231 835,197 26,137,356 25,012,864 5,610,15 Woodstock. 4,600 1,696,351 155,273 1,133 1,104,422 57,028,977	Niagara Falls	59,497,092	9,287,067	1,370,384	35,640,811	5,457,950	1,004,475
Oshawa 222 9,318,718 2,326,322 372 7,943,003 1,948,493 Octawa 249,931 1,595,563 350,172 1,119,717 643,187 348,717 348,717 348,717 343,187 348,717 343,187 348,717 348,717 348,717 343,187 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 348,717 34	North Bay	253,811	3,399,292	513,986	137,183	2,360,776	410,109
Parry Sound 249,931 1,595,563 350,172 1,119,717 843,187 348,717 348,717 348,787 348,787 349,783 350,172 1,150 3,677,640 933,825 Port Arthur 54,870,619 1,378,577 194,565 30,045,069 828,633 143,346 Prescott 6,878,892 3,058,477 508,341 4,576,315 1,377,505 552,098 St. Catharines 3,601,717 4,666,726 684,729 4,400,889 3,266,436 583,92 St. Thomas 36,519 2,214,298 396,177 1,993 1,220,587 397,397,397 Sannia 27,045,773 15,733,637 632,575 17,980,839 8,266,337 397,355 Sanit Ste, Marie 5,406,133 5,337,158 943,213 3,615,010 2,713,789 588,58 Stratiord 2,2670,530 343,825 1,121,188 134,411 Toroato 904,876 194,126,162 36,515,378 440,227 131,366,102 29,157,522 Welland 606,	(Jahawa	232	9,318,718	2,326,522	372	7.543,063	1,905,934
Peter Dort Ough	Perev Sound	240 021	1.505.563	l 350.172	1,119,717	7, 934, 120 843, 197	1,497,971 348.711
Presect. 6,878,982 3,084,171 508,341 4,576,315 1,377,505 502,092 St. Catharines 3,606,171 4,666,726 684,729 4,008,899 3,266,436 533,922 St. Thomas 36,519 2,214,298 398,177 1,993 1,220,587 397,397 Sania 27,045,773 15,733,637 682,575 17,980,830 8,981,202 565,296 Sauk Ste, Marie 5,406,133 5,337,158 943,213 8,615,100 2,713,789 598,58 Stratford - 2,143,910 265,109 - 1,535,486 270,304 Sudbury - 2,670,530 343,825 - 1,121,188 134,41 Toroato 904,876 194,136,162 36,515,378 440,227 131,366,102 29,157,522 Wallaceburg 233,067 2,507,339 410,688 24,232 392,001 115,601 Welland 606,818 11,400,125 799,791 291,910 5,755,526 751,346 Woodstock	Peterborough	1,295	6,246,836	1,067,373	1,150	X 677.64H	933,826
Presect. 3,578,982 3,686,171 308,471 4,606,183 1,371,503 502,088 St. Catharines 3,606,171 4,666,726 684,729 4,400,889 3,266,436 583,922 St. Thomas 36,519 2,214,298 396,177 1,993 1,220,567 307,357 Sarnia 27,045,773 15,733,677 532,575 17,980,839 8,891,202 565,294 Sault Ste, Marie 5,406,133 5,337,158 943,213 3,615,010 2,713,789 588,587 Stratford - 2,167,530 343,825 - 1,535,486 270,307 Sudbury - 2,670,530 343,825 - 1,121,188 134,411 Toroato 904,876 194,126,182 36,515,378 440,227 131,366,102 29,157,522 Welland 606,818 11,400,125 799,791 291,910 5,785,526 751,344 Woodstock 4,600 1,698,351 185,273 1,133 1,104,428 151,632 Totals, Ontario!	Port Arthur	54.870.619	1.378.577	194,565	30,045,069	828,633	143,340
St. Thomas 36,519 2,214,298 398,177 1,993 1,229,587 307,357 307,357 32,2575 17,980,830 8,981,202 565,299 308,1202 565,299 308,1202 565,299 308,1202 565,299 308,1202 565,299 308,1202 565,299 308,1213 3,615,010 2,713,789 588,581 585,291 308,1213 3615,010 2,713,789 588,581 31,533,432 31,533,4325 -1,121,188 1,535,486 270,301 343,825 -1,121,188 1,314,412 344,412 322,001 313,661,102 29,187,522 322,001 315,010 29,187,522 329,001 315,012 32,187,303 31,082 34,022 329,001 315,012 32,187,303 31,082 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002 32,002	Prescott	6,878,982	3,058,477	508,341	4,576,315	1,377,505	552,093
Sarnis 27,045,773 15,733,637 652,579 17,980,830 8,991,202 565,298 Saukt Ste, Marie 5,406,133 5,337,158 943,213 3,615,010 2,713,789 588,58: Stratford - 2,143,910 255,109 - 1,535,486 270,301 Sudbury - 2,070,530 343,825 - 1,121,188 134,412 Toronto 904,876 194,136,182 36,515,378 440,227 131,366,102 29,157,52 Wallaceburg 233,057 2,507,393 410,668 24,232 392,001 115,015 Welland 606,818 11,400,125 799,791 291,910 5,755,520 751,346 Windsor 34,103,289 43,586,231 881,997 26,137,356 25,012,864 5,610,15 Woodstock 4,600 1,696,351 155,273 1,133 1,104,429 151,032 Totals, Ontario¹ 292,564,899 449,271,386 73,342,478 182,740,713 279,344,174 57,028,972	St Thomas	3,000,171	2,214,298	896,177	1,400,889	1,220,587	307, 351
Sault Ste. Marie 5,406,133 5,337,158 943,213 3,615,010 2,713,789 588,587 Stratford - 2,163,910 285,109 - 1,535,486 270,301 Sudbury - 2,670,530 343,825 - 1,121,188 134,41 Torouto 904,876 194,126,182 36,515,378 440,257 131,366,102 29,187,522 Wallaceburg 233,067 2,507,393 410,688 24,222 292,001 115,012 Welland 606,818 11,400,125 799,791 291,910 5,755,526 751,346 Windsor 34,103,289 43,586,231 185,273 1,133 1,104,428 151,031 Woodstock 4,600 1,696,351 155,273 1,133 1,104,428 151,031 Totals, Ontario¹ 292,564,600 44e,271,365 73,342,478 162,740,713 279,346,174 57,028,972	Sarnia	27.045.773	15, 733, 637	632,575	17.980.830	8,891,202	565,299
Sudbury 2,670,530 343,829 1,121,188 134,136,182 Toronato 904,876 194,136,182 36,515,378 440,257 131,366,102 29,157,522 Wallaceburg 233,057 2,507,393 410,668 24,232 392,001 115,013 Welland 606,818 11,400,125 799,791 291,910 5,735,526 751,348 Windsor 34,103,289 43,356,231 8,511,997 26,137,356 25,012,864 5,610,15 Woodstock 4,600 1,696,351 155,273 1,133 1,104,429 151,033 Totals, Ontario¹ 292,564,899 449,271,386 73,342,478 182,740,713 279,346,174 57,028,972	Sault Ste. Marie	5,406,133	5,337,158	943,213		2,713,789	588,587
Welland 506,818 14.00.120 799,791 291,910 5,745,526 751,345 Woodstock 4,600 1,696,351 155,273 1.133 1,104,429 151,033 Totals, Ontario 232,564,600 440,271,366 73,342,478 182,740,713 279,346,174 57,028,975	Stratford	-	2,143.910	265,109	-	1,535,486	270,305
Welland 506,818 14.00.120 799,791 291,910 5,745,526 751,345 Woodstock 4,600 1,696,351 155,273 1.133 1,104,429 151,033 Totals, Ontario 232,564,600 440,271,366 73,342,478 182,740,713 279,346,174 57,028,975	Toronto	904,876	194, 136, 182	36.515.378	440, 257	131,366,109	29, 157, 520
Welland 506,818 14.00.120 799,791 291,910 5,745,526 751,345 Woodstock 4,600 1,696,351 155,273 1.133 1,104,429 151,033 Totals, Ontario 232,564,600 440,271,366 73,342,478 182,740,713 279,346,174 57,028,975	Wallaceburg	233,057	2,507,393	410,668	24.232	392,001	l ijo'nto
Windsor 34,103,289 43,586,231 8,531,997 20,137,356 22,012,864 5,610,154 Woodstock 4,600 1,696,351 155,273 1,133 1,104,429 151,035 Totals, Ontario 292,564,888 444,271,366 73,362,478 182,740,713 279,346,174 57,028,877	Welland	606,818	11.400.125	1 799.791	291,910	5,755,526	751,348
Totals, Ontario: 292,564,698 440,271,306 73,342,478 162,740,713 279,346,174 57,028,975	Windsor	34,103,289 4,600	43,586,231 1,696,351	8,851,997 155,273	20, 137, 356	25,012,864	5,610,154 151,032
			· · · · · · · · · · · · · · · · · · ·				
	Totals, Ontario						***********

¹ Totals include other smaller ports.

17.—Values of Total Exports, Imports Entered for Consumption, and Duty Collected thereon, at certain Ports and by Provinces, during the fiscal years ended Mar. 31, 1931 and 1932—concluded.

		1931.			1932.	
Province and Port.	Total Exports.	Imports for Consump- tion.	Duty Collected.	Total Exports.	Imports for Consump- tion.	Duty Collected.
Manitobs.	-\$	*	\$	\$	\$	*
Brandon	29,370	1,432,246	162,976	21,415	381,704	69,930
Emerson	8,225,585	1,120,159	131,924	4,256,109	775,242	102,080
Winnipeg	28,188	32,333,607	6,579,336	289,057	18,503,689	4,446,166
Totals, Manitoba ¹	8,289,406	85,971,119	7,006,492	4,574,126	19,897,480	4,651,387
Saskatchewan.						
Moose Jaw	37,114		437,486			136,055
North Portal	5 ,679,088	1,114,325	120,321			36,927
ReginaSaskatoon	12,860	9,540,959 3,992,386	1,848,018 607,320	10,274	3,631,086 1,334,846	799,964 303,436
Saskatoon		3,992,900	007,820		1,334,840	303,430
Totals, Saskatchewan ¹	5,729,062	18,766,485	3,065,568	3,242,573	6,028,614	1,310,647
Alberta.						
Calgary	_	10,568,372		-	4,675,995	1,209,161
Edmonton		5,798,581	1,346,254	_ _	3,101,351	962,614
Lethbridge	847,591	4,264,407	288,255	502,340	1,799,588	151,788
Totals, Albertat	847,591	21,049,995	3,763,957	502,346	9,741,112	2,360,423
British Columbia.						
Abbotsford	2,595,573	230,982	36,125	661,232	138,414	7,373
Nanaimo	5,730,843	198,367	31,361	4,837,415		18,345
Nelson	190,168		155,455	103,971	2,322,013	100, 595
New Westminster	17,955,795	2,024,814	307,940	15,851,265	1,097,531	142, 199
Prince Rupert	8,039,369	934,132 63,300,048		8,094,120 76,385,238	532,344 40,995,984	94,235 7,786,550
VancouverVictoria	95,325,305 3,902,418	7, 155, 731		3,482,790	4,781,456	1,316,141
Totals, British Columbia.	134,695,255	77,842,021	12,824,378	109,956,078	50,531,670	9,553,857
Yukon. Totals, Yukon	2,609,355	421,71 8	90,51\$	1,337,578	240,905	54,661
Prepaid postal parcels, duty						
received through P.O.			i _			
Department	-	31,024	7,673	-	11,022	3,021
Customs duty stamps			153, 137			245,505
Grand Totals	817,023,048	906, 612, 695	149,250,992	587,565,517	578,503,904	113,997,651

¹ Totals include other smaller ports.

13.—Dutiable Imports of Canada, by Values Entered for Consumption from British Empire and Foreign Countries, under the General, Preferential and Treaty Rate Tariffs, in the fiscal years ended Mar. 31, 1931 and 1932.

		1931.	ŀ		1932.	
Country,	General Tariff.	Prof- erential Tariff.	Treaty Tariff.	General Tariff.	Pref- erential Tariff.	Treaty Tariff.
British Empire.	\$	5	- ;		\$	\$
United Kingdom	30,042,250	77,077,364	1,450,748	21,949,050	56,707,418	1,037,262
Irish Free State	19,902	5,214	2,957			
Africa—British East	1.546	2,004,928	1	9,497	1,225,420	
British South	5,260	2,263,031	1,803	8,438	2,383,348	10,768
British West	7,018	-	238,468	7,481	5	135,410
Australia	400,311	1,688,935	90.668	74.784	1,911,935	371,500
British East Indies—	,	-,	′ I		· · · · · · · · · · · · · · · · · · ·	
British India	67,916	603,069	2,839	48,467	1,932,155	1,826
Ceylon	47,994	289, 102	-,	87,681	978,776	3,948
Straits Settlements	78,034	562,056	2,732	30,205	343,356	62,765
British Guiana	22.629	4,242,575	87	18.286	4,469,963	38

18.—Dutiable Imports of Canada, by Values Entered for Consumption from British Empire and Foreign Countries, under the General, Preferential and Treaty Rate Tariffs, in the fiscal years ended Mar. 31, 1931 and 1932—concluded.

-		1981.			1932.	
Country.	General Tariff.	Pref- erential Tariff.	Treaty Tariff.	General Tariff.	Pref- erential Tariff.	Treaty Tariff.
British Empire-concluded. British West Indies—	\$	\$	\$	*	\$	\$
Barbados	32,258	2,593,509	27		1,385,486	_
Jamaica	36,045		834		1,974,875	373
Trinidad and Tobago	7,802	1,900,833	16,573		2,802,260	5,775
Other	24,630	1,984,952	3,163		949,922	68
Fiji	64	2,794,467	383	2,847	2,600,436	2,269
Hong Kong	639,382	-	22,285		-	13,355
Newfoundland	58,376	12,098	 .	58,536	5,202	172
New Zealand	34,979	4,143,568	5,025	9,504	65,681	1,653
Totals, British Empire	31,580,815	104,436,589	1,842,734	22,894,534	79,747,819	1,647,370
Argentina	1,522,764	_	857.342	517.018		577,304
Belgium	1,116,191		4,773,068		- 1	2.836.397
Denmark	22.649	- 1	153.387	11,656	_	32,569
France	1.032.004	-	16.554.080		_	11,377,485
Germany	12,010,366	-		8,841,619	_	
Italy	440, 475	-	3,543,920	329,149	- 1	3,234,474
Japan	606,265	-	6,098,866	836,770	- i	3,419,048
Netherlands	2,455,273	-	2,160,969		- 1	1,256,682
Norway	90,459	-	640,776		- 1	456,901
Spain	418,604	-	1,342,415		- 1	1,098,242
Sweden	254,484	-	1,215,309			494,814
Switzerland	1,227,161		3,194,480	979,503	- 1	1,839,013
United States	359,640,701	-	-	229,639,736	-	-
Totals, Foreign Countries:	392,019,589	-	44,210,193	254,647,684		29,561,221
Tetals, Dutlable Imports Entered for Consump- tion		191, 436, 589	46,052,837	277,542,138	79,747,319	\$1,248,591

I Totals include other minor countries not specified.

 Values of Imports into Canada of Merchandlse Entered for Consumption, from the British Empire and from Foreign Countries, in the five fiscal years ended Mar. 31, 1928-32.

Country.	1928.	1929.	1930.	1931.	1932.
British Empire.	\$	\$	8	\$	\$
United Kingdom	186,435,824	194,641,381	189,179,738	149,497,392	106,371,779
Irish Free State	29,611	58,875	267,905	678,115	45,511
Aden	14.546				6,155
Africa-British East	1,223,113	297,688	1,982,243		
British South					4,323,169
British West	1,939,313	1,226,539			
	53,642				
Bermuda British East Indies—British India	9.239.779				5,099,736
Ceylon	2,731,531		2,600,423	2,708,845	1,573,916
Straits Settlements.	2,459,045				
Other	6, 150				
British Guiana	6,072,172				
British Honduras	157,925				
British Sudan	6.844				
British West Indies-Barbados	6,215,804				
Jamaica	5.481.308				
Trinidad and	0.201,000	1,180,280	0,151,510	2,102,000	3,300,081
Tobago,	2,099,201	3,376,058	2,590,157	2,321,007	3.124.902
Other	3,552,999				
Gibraltar	683	160		2,011,000	1,000,010
Hong Kong.	1,440,897	1,402,502		833,608	660,939
Malta Creams and Cons	875	2,623		4.322	1.026
Malta, Cyprus and Gozo Newfoundland	2,097,525			2.501.761	1,483,881
Oceania—Australia	5.301.618	3,484,836		4,616,722	5,696,770
			9 676 604		2,606,430
Fiji New Zealand	8.262.322	5,697,912 12,771,194	3,676,604	2,807,355	
Dalastia	15 500				1,080,230
Palestine	15,590	25, 103	24,717	23,617	20,753
Totals, British Empire	249,540,557	257,388,210	252, 674, 602	204,898,426	147 811 943

¹ Totals include other minor countries not specified.

19.—Values of Imports into Canada of Merchandise Entered for Consumption, from the British Empire and from Foreign Countries, in the five fiscal years ended Mar. 31, 1928-32—concluded.

Argentina 9,849,754 7,427,568 10,323,237 0,733,607 2,568, Austria 594,875 678,189 179,370 595,319 322, Belgium 9,886,257 12,014,858 13,019,666 8,420,019 5,047, Belgium 9,886,257 12,014,858 13,019,666 8,420,019 5,047, Belgium 9,886,257 12,014,858 13,019,666 8,420,019 5,047, Belgium 9,886,257 12,014,858 13,019,666 8,420,019 5,047, Belgium 9,886,257 12,014,858 13,019,666 8,420,019 5,047, Belgium 9,886,257 12,014,858 13,019,666 8,420,019 5,047, Belgium 9,886,257 12,014,868 17,232,601 13,019,666 18,019 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,019,664 12,	Country.	1928.	1929.	1930.	1981.	1932,
Argentina 9,849,754 7,427,568 10,323,327 0,739,607 2,568, Austria 594,875 678,193 797,370 595,319 322, Belgium 9,888,237 12,014,883 13,019,666 8,420,019 5,047, Belgium 9,888,237 12,014,883 13,019,666 8,420,019 5,047, Belgium 9,888,237 12,014,883 13,019,666 8,420,019 5,047, Belgium 9,888,237 12,014,883 13,019,666 8,420,019 5,047, Belgium 9,888,237 12,014,883 13,019,666 8,420,019 5,047, Belgium 9,888,237 12,014,883 13,019,666 8,420,019 5,047, Belgium 9,888,237 13,048,242 13,048 17,252,049 13,349,24 88,652 12,020,000 13,510,227 2,408,647 991, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,71 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,711 173,660 255,642 89, Belgium 9,888,233 152,911 173,640 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 173,750 1	Foreign Countries.		\$ 00.005		\$ 00.000	
Selegium	Argentina		32,295 7,427,568	35,983 10 232 327	80,396 6.739,697	28,007 2,608,363
China. 2,52,597 379,433 6,961,250 22,33,10 100. China. 2,562,345 6,989,462 7,732,469 6,735,381 3,725. Costa Rica. 5,587,71 4,936,503 3,762,381 4,725. Costa Rica. 5,587,71 4,936,503 3,762,381 4,725. Costa Rica. 5,587,71 4,936,503 3,762,381 4,725. Costa Rica. 5,587,71 4,936,503 3,102,27 2,486,607 2,725. Costa Rica. 5,587,71 4,936,503 3,102,27 2,486,607 2,725. Costa Rica. 5,587,71 4,936,503 3,102,27 2,486,607 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,573 1,725 2,721 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,73	Austria	594.875	l 678,193	1 - 797.370	595.319	322,872
China. 2,52,597 379,433 6,961,250 22,33,10 100. China. 2,562,345 6,989,462 7,732,469 6,735,381 3,725. Costa Rica. 5,587,71 4,936,503 3,762,381 4,725. Costa Rica. 5,587,71 4,936,503 3,762,381 4,725. Costa Rica. 5,587,71 4,936,503 3,762,381 4,725. Costa Rica. 5,587,71 4,936,503 3,102,27 2,486,607 2,725. Costa Rica. 5,587,71 4,936,503 3,102,27 2,486,607 2,725. Costa Rica. 5,587,71 4,936,503 3,102,27 2,486,607 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,503 3,762,381 1,763,577 2,725. Costa Rica. 5,587,71 4,936,573 1,725 2,721 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,735 1,73	Belgium	9,898,237	12,014,588	18,019,006	8,420,019	5,047,721
Colombia	Chile	522.597	1 379,453	667.126	428.310	109,935
Cuba. 5,587, 171 4,903,500 3,510,227 2,408,647 897 2,720 Denmark 120,233 132,723 33,702,338 3,172,370 387 2,789 Commark 120,233 152,721 178,660 205,642 89,790 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 <th< td=""><td>China</td><td>2,572,453</td><td>3,095,296</td><td>2,977,022</td><td>4.810.814</td><td>1 3.725.558</td></th<>	China	2,572,453	3,095,296	2,977,022	4.810.814	1 3.725.558
Cuba. 5,587, 171 4,903,500 3,510,227 2,408,647 897 2,720 Denmark 120,233 132,723 33,702,338 3,172,370 387 2,789 Commark 120,233 152,721 178,660 205,642 89,790 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 <th< td=""><td>Colombia</td><td>7,580,376</td><td>6,849,408</td><td>7,252,691</td><td>5,036,898</td><td>5,035,311</td></th<>	Colombia	7,580,376	6,849,408	7,252,691	5,036,898	5,035,311
Czechoslovakis	Cuba	5.587.171	4.903.506	3,510,227		981,091
Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Green Gree	Czechoslovakia	2,423,984	3,297,593	3,792,389	3,176,387	2,759,864
Equation	Denmark	126,283	152,721	178,660 168 378	265,642 170 200	89,266 170,200
Egypt	Ecuador	618,001	- 227,279	-	· –	399
France 28, 473, 782 26, 215, 986 25, 158, 207 19, 004, 102 13, 570 French Africa 142, 331 153, 244 113, 329 117, 561 130, 120 French East Indies 61, 340 1, 099 12, 865 34, 748 197, 67er and Miquelon 77, 560 55, 224 64, 169 64, 169 63, 416 197, 67er and Miquelon 77, 560 55, 224 64, 169 63, 416 197, 67er and Miquelon 77, 560 27, 75, 832 21, 505, 428 16, 197, 036 11, 657, 67er and Miquelon 79, 244, 134 370, 708 374, 266 33, 774 104, 416, 416, 416, 416, 416, 416, 416, 41	Egypt	159,213	193,573	155,852	77,257	269,503
French Africa	France	93, 106 26, 473, 732	98,280 26 215 698		90,408 19 004 102	56,578 13,570,141
French East Indies	French Africa	142,331	163 244	113,329	107,561	130,168
St. Pierre and Niquelon 17,055,788 20,797,683 21,505,438 16,197,036 11,657, Greece. 224,134 370,708 374,266 33,794 104, Haiti 198,206 251,497 70,783 -	French East Ingles	61,340	1,099	12,685	34,748	19,249
Greece. 224, 134 374, 708 374, 208 233, 793 104, 1141 1151 198, 206 251, 497 70, 783 -	Germany	17,055,798		21.505.428	16, 197, 036	11.657.869
Gustemala 93, 390 20, 994 37, 598 30, 673 14 Haiti	Greece,	204,134	370,708	374,266	233,794	104,492
Honduras	Guatemala	93,390	20,984	37,598	30,673	14,914
Hungary	Honduras	198,200 622,200	251,497	1 252 8651	4_280	45 290
Trag (Mesopotamia)	Hungary	66,989	18,001	47,744	66,817	18,802
Merico	Iraq (Mesopotamia)	66,738	31,129	29, 102	45,525 F 049 057	98,340
Merico	Ispan	12.505.373	12.921.317	12.587.253	9.342.967	5,990,401
Merico	Котеа	2,101	2,359	1,928	718	17
Morocco.	Latvia	1 41.043	22,102	4,317		5,451 788,447
Notherlands	Morocco	1,114,087	28,666		32,159	55,045
Dutch West Indies	Netherlands	8,794,049	9,016,763	9,432,608	7, 287, 132	5,827,969
Dutch West Indies	Dutch East Indies	1,131,283	704,663	630, 120	440,546	340,807
Nicaragua	Dutch West Indies	495.078	173,319	441, 151	1,838,964	1,499,701
Persia 124, 427 348, 823 246, 944 106, 043 358, Persu 5, 216, 402 4, 47, 258 7, 492, 128 4, 535, 524 3, 515, Poland and Danzig 135, 452 79, 247 143, 430 139, 003 72, Portugal 722, 279 678, 030 683, 114 578, 824 341, Azores and Madeira 130, 343 84, 804 139, 290 156, 151 130, Roumania 46, 947 32, 364 27, 308 95, 427 211, Russia 73, 119 236, 881 909, 525 1, 917, 652 18, Salvador 23, 044 36, 881 909, 525 1, 917, 652 18, Salvador 24, 379 10, 391 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51,	Nicaragua	2.561	3,837	28, 152	29,212	4,278
Persia 124, 427 348, 823 246, 944 106, 043 358, Persu 5, 216, 402 4, 47, 258 7, 492, 128 4, 535, 524 3, 515, Poland and Danzig 135, 452 79, 247 143, 430 139, 003 72, Portugal 722, 279 678, 030 683, 114 578, 824 341, Azores and Madeira 130, 343 84, 804 139, 290 156, 151 130, Roumania 46, 947 32, 364 27, 308 95, 427 211, Russia 73, 119 236, 881 909, 525 1, 917, 652 18, Salvador 23, 044 36, 881 909, 525 1, 917, 652 18, Salvador 24, 379 10, 391 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51, 393 51,	Norway	1,064,215		1,104,935	820,902 21 220	548,998 27,057
Peru. 5, 216, 402 4, 447, 358 7, 442, 128 4, 525, 524 3, 516 Poland and Danzig. 135, 452 79, 247 134, 430 139,003 72 Portugal. 722, 279 678,030 683, 114 578,834 341, Azores and Madeira. 130,343 84,804 139,290 156,151 130, Roumania. 46,947 32,364 27,308 96,427 21, Russia. 73,119 236,881 909,525 1,917,652 18, Salvador. 23,044 - 14,032 1,498 1, Santo Domingo. 2,452,841 1,135,560 1,776,772 367,872 522, Siam. 2,572,150 2,703,075 2,784,059 1,960,789 1,466,782 Spain. 2,572,150 2,703,075 2,784,059 1,960,789 1,476,782 Sweden. 1,862,120 2,185,089 2,556 4,300 5,866 Swria. 1,162 18,368 17,612 13,150 24,178	Persia		348,823	246,954	106,043	38,848
Azores and Madeira 130, 343 84, 894 139, 290 136, 151 130, Roumania 46, 947 32, 364 27, 308 95, 427 21, Russia 73, 119 236, 881 909, 525 1, 917, 652 18, Salvador 23, 044 1, 135, 360 1, 776, 772 367, 872 522, Siam 42, 379 10, 391 51, 393 51, 393 52, 522, Siam 2, 572, 150 2, 703, 075 2, 734, 059 1, 960, 759 1, 476, Canary Islands 1, 964 7, 060 5, 566 4, 300 5, 584, 463 3, 687, Sweden 1, 862, 120 2, 185, 089 2, 259, 404 2, 037, 457 879, Switzerland 8, 595, 677 7, 917, 445 7, 314, 840 5, 484, 463 3, 687, Syria 16, 162 18, 368 17, 612 13, 150 24, Turkey 526, 321 574, 178 496, 155 399, 593 256, United States 71, 866, 270 868, 102, 299 847, 442, 037 584, 407, 018 316, 830 332, 250 237, 673 115, Philippines 159, 879 190, 589 194, 407, 181 184, 408 118, Pusto Rico 1, 490 3, 760 7, 687 431 1, Uruguay 80, 507 9, 122 66, 147 152, 424 329, Yugoslavia 12, 041 12, 041 25, 543 30, 938 761, 134, 329, 578, 584, 584, 584, 584, 584, 584, 584, 58	Peru	5,216,402	4,447,858	7,492,128	4,535,524	3,516,589
Azores and Madeira 130, 343 84, 804 139, 290 156, 151 130, Roumania. 46, 947 32, 364 27, 308 95, 427 21. Russia 73, 119 236, 881 909, 525 1, 917, 652 18, Salvador 23, 044 - 14, 032 1, 498 1, Santo Domingo 24, 402, 841 1, 135, 360 1, 76, 772 367, 872 522, Siam 24, 379 10, 391 51, 393 - Spain 25, 772, 150 2, 703, 075 2, 784, 059 1, 960, 759 1, 476, Canary Islands 1, 964 7, 060 5, 566 4, 300 5, Sweden 1, 862, 120 2, 185, 089 2, 259, 404 2, 037, 457 879, Switzerland 8, 505, 677 7, 917, 445 7, 314, 840 5, 484, 463 3, 687, Syria 15, 162 18, 368 17, 612 13, 150 24, Turkey 526, 321 574, 178 496, 156 399, 593 256, United States 718, 566, 270 586, 102, 229 847, 442, 037 584, 407, 101 351, 586, Hawaii 309, 753 316, 930 332, 250 287, 673 115, Philippines 159, 879 196, 859 171, 474 154, 408 118, Pusto Rico 1, 490 3, 760 7, 687 431 1, Uruguay 80, 507 9, 122 66, 147 152, 244 131, Venezuela 1218, Fopelgn Countries 1, 859, 391, 103, 289, 881 18, 248, 309, 339 342, 359 342, 309, 350, 374, 378 366, 340 3, 369, 376 3, 369, 316, 340 3, 369, 376 3, 369, 376 3, 369, 376, 376 3, 376, 376, 376, 376, 376, 3	Postagel	130,432 722,270	79, 247 678 030	145,450 683 114	139,003 578 894	72,555 341,218
Russia 73, 119 236, 881 909, 525 1, 917, 652 18, Salvador 23, 044 - 14, 032 1, 498 1, Santo Domingo 2, 452, 841 1, 135, 360 1, 776, 772 367, 872 522, Siam 2, 279 10, 391 2, 703, 075 2, 784, 059 1, 960, 789 1, 476, Canary Islands 1, 964 7, 060 5, 566 4, 300 5, Sweden 1, 180, 120 2, 185, 089 2, 259, 404 2, 037, 457 879, Switzerland 8, 595, 677 7, 917, 445 7, 314, 840 5, 484, 463 3, 687, Syria 15, 162 18, 368 17, 612 13, 150 24, Turkey 5, 15, 162 18, 368 17, 612 13, 150 24, Turkey 7, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	Azores and Madeira	130,343	84,804	120 200	156, 151	130,015
Salvador 23,044 -14,032 1,498 1,766,772 367,872 522,522 Samo 42,379 10,391 51,393 1,476,782 522,521 Spain 2,572,160 2,703,075 2,784,059 1,960,759 1,476,759 1,476,759 Canary Islands 1,964 7,060 5,568 4,300 5,588 Sweden 1,862,120 2,185,089 2,259,404 2,037,457 879,877 Switzerland 8,595,677 7,917,445 7,314,840 5,484,463 3,687,872 Syria 16,162 18,368 17,612 13,150 24,178 Turkey 526,321 574,178 496,156 399,593 256 United States 718,566,279 580,122,229 847,442,037 584,407,018 351,686 Alagka 171,562 145,010 177,692 106,099 63, Hawaii 309,753 316,930 332,250 287,673 115,444 Pusto Rico 1,490 3,760 7,687 431 1, Uruguay 80,507 9,122 66,147 152,424 131, Venezuels 213,538 701,355 528,962 3,024,584 329,	Roumania			27,308		21,867 18,001
Santo Domingo 2, 452,841 1,135,360 1,776,772 367,872 522, 522, 532 Spain 2,572,150 2,703,075 2,784,059 1,960,759 1,476,772 Canary Islands 1,944 7,060 5,568 4,300 5,588 Sweden 1,862,120 2,185,089 2,259,404 2,037,457 879, Switzerland 8,595,677 7,917,445 7,314,840 5,484,463 3,687, Syria 16,162 18,368 17,612 13,150 24, Turkey 526,321 574,178 496,156 399,593 256, United States 718,896,270 868,012,229 847,442,037 584,407,018 316,689 Hawaii 309,753 316,930 332,250 237,673 115, Philippines 159,879 190,559 17,474 154,408 118, Puerto Rico 1,490 3,760 7,687 431 1. Venezuela 213,538 701,935 528,962 3,024,584 329	Russia Salvedor		200,001	14.032	1,917,002	1,088
Siam	Santo Domingo	2,452,841	1,135,360	1,776,772	367,872	522,884
Canary Islands	Qia ma	42,379	2 703 075	51,393	1 060 750	1,476,630
10, 162 15, 368 17, 172 13, 159 25, 174, 178 496, 156 399, 593 256, 270 256, 321 574, 178 496, 156 399, 593 256, 270 256, 321 2574, 178 496, 156 399, 593 256, 270 256, 321 2574, 178 266, 321 2574, 178 267, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278, 278 278, 278 278, 278, 278 278, 278, 278 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278, 278, 278, 278, 278, 278,	Capery Islands	1.964	7,060	5,568	4,800	5,046
10, 162 15, 368 17, 172 13, 159 25, 174, 178 496, 156 399, 593 256, 270 256, 321 574, 178 496, 156 399, 593 256, 270 256, 321 2574, 178 496, 156 399, 593 256, 270 256, 321 2574, 178 266, 321 2574, 178 267, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278 278, 278, 278 278, 278 278, 278, 278 278, 278, 278 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278 278, 278, 278, 278, 278, 278, 278, 278,	Sweden	1,862,120	2,185,089	2.259.404	2,037,457	879,476
Turkey 526, 321 574, 178 496, 156 399, 993 256 United States 718, 896, 270 868, 012, 229 847, 442, 087 584, 407, 018 351, 686 Alaska 171, 562 145, 010 177, 692 106, 099 63, Hawaii 309, 753 316, 930 332, 250 237, 673 115, Philippines 159, 879 190, 859 171, 474 154, 408 118, Puerto Rico 1, 490 3, 760 7, 687 431 1. Uruguay 80, 507 9, 122 66, 147 152, 424 131. Venezuela 213, 538 701, 935 528, 962 3, 024, 584 329, Yugoslavia 12, 041 25, 543 30, 938 06, 911 12, 12, 12, 12, 12, 12, 12, 12, 12, 12,	Switzerland		7,917,445	7,314,840		3,687,517 24,142
United States	Turkey	526, 321	574,178	496, 156	399,593	256,720
Hawaii	United States	718,896,270	868,012,229	847, 442, 087	584,407,018	351,686,775
Philippines	Aiaska	171,562	145,010 316 020	177,692 322 250	106,099 287 672	63,292 115,505
Uruguay 80,507 9,122 66,147 152,424 131, 132, 224 Venezuela 213,538 701,935 528,962 3,024,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,584 329, 224,	Philippines	159,879	196.859	171,474	154,408	118,487
Venezuela. 213,538 701,935 538,962 3,024,584 329, Yugoslavia. 12,041 25,543 30,938 68,911 12. Totals, Foreign Countries ¹ . 853,385,969 1,093,286,881 95,586,386 701,714,269 424,691, Grand Totals, Imports. 1,168,356,466 1,265,673,891 1,248,273,582 905, 512,695 578,563, Europe.—United Kingdom 186,435,824 104,041,381 189,179,738 149,497,392 106,371.	Puerto Rico	1,490	3,760	7,687	431	1,437
Yugoslavia. 12.041 25.543 30.938 68.911 12. Totals, Foreign Countries: 859, 385, 909 1,608,290,881 995,586,380 701,714,269 430,691, Grand Totals, Imports 1,108,366,466 1,263,679,401 1,248,273,582 993,612,695 578,563, Europe United Kingdom 186, 435, 824 104, 041, 381 189, 179, 738 149, 497, 392 106, 371,	Uruguay			528 962	3,024,584	131,344 329,026
Totals, Foreign Countries ¹ . 859, 335, 969 1,608,250,881 995, 538, 386 701,714,269 434,691, Grand Totals, Imports 1,108,356,466 1,265,679,691 1,248,273,582 993,512,695 578,383, Engage United Kingdom 186,435,834 104,041,381 189,179,738 149,497,392 106,371,			25,543			12,080
Grand Totals, Imports	Totals, Foreign Countries1	859,335,909	1,008,200,881		701,714,269	430,601,911
Europe—United Kingdom 186,435,824 194,041,381 189,179,738 149,497,392 106,371.	Grand Totals, Imports	1,108,356,466	1,265,679,091	1,248,273,582	393, \$12, 695	578,502,504
North America. 749,591,321 894,230,637 871,452,685 607,825,326 369,322,	Continents.	186 425 994	104 041 201	180 170 790	140 407 209	106,371,779
North America	Other Europe	85,853,184	92,737,045	95,548,297	74,339,207	50,898,616
	North America	749,501,321	894,230,637	871,452,695	607, 825, 326	369,322,592
South America. 32,390,560 26,473,076 31,937,716 25,575,947 17,281, Asia. 32,428,804 33,692,542 31,142,067 28,133.865 18,539,	South America	32,390,560		31,937,716 31,149,067	25,575,947 28,123,865	17, 281, 500 18, 539, 314
Oceania 18.351.448 22.270,872 24,502,924 14,383,002 9,498,	Oceania	18,351,448	22,270,872	24,502,924	14,383,002	9,498,935
Africa		3,995,325	2,233,538	4,510,145	6,857,956	6,591,168

¹ Totals include other minor countries not specified.

20.—Values of Exports of Canadian Produce, from Canada to the British Empire and to Foreign Countries, in the five fiscal years ended Mar. 31, 1928-32.

Country.	1928.	1929.	1930.	1931.	1932.
British Empire.	\$	\$	\$	*	\$
United Kingdom	410,691,392	429,730,485	281,745,965	219, 246, 499	174,043,725
Irish Free State	4,325,251 31,056 1,223,232	4,144,743 40,906	2,711,544	2,764,489 33,265 968,898	2.661.421
Aden Africa—British East	31,055 1 223 232	40,906 1,568,171	63,355 1,707,167	33,265 968 908	9,519 372,388
British South	8,724,969	12, 231, 773	10.917.642	10,286,940	8,401,496
British West	893,074	1,245,818	1,083,269 2,287,280	924, 149	400,062
Bermuda British East Indies—British India	1,364,952	1,628,003	2,287,280	2,492,260 6,957,050	1,948,898
Cevion	11,042,851 727,369	661.793	486,236	181,653	3,041,525 59,185
Ceylon Straits Settlements.	1.540.530	11,858,436 661,793 1,203,909 8,526 2,238,506	9, 116, 251 486, 236 1, 105, 228 8, 875 1, 661, 332	685,381	340,072
Other	4,428 2,284,744	8,526	8,875	1 100 016	130
British Guiana British Honduras	2,284,744 694,613	2,235,300 900, 0 34	1,001,632 892,518	1,139,915 1,742,464	778, 469 1, 008, 411
British Sudan. British West Indies—Barbados	118,449	160,704	05.003	13.971	1.570
British West Indies—Barbados	1 236 052	1,681,950	1,324,569 5,138,757 3,998,197 4,567,639	1,118,603	1,092,42
Jamaica	4,951,196	5,266,083 4,153,571	8, 138, 757 3, 009, 107	3,749,394	2,634,691
Jamaica Trinidad and Tobago Other	4,951,196 4,240,751 3,861,847	4,153,571 4,656,219	4.567.639	3,286,070 4,273,905	2,147,637 2,398,372
Gibraltar I	23.958	75.391	(1.491	41,978	9,622
Hong Kong, Malta, Cyprus and Gozo. Newfoundland. Oceania—Australia	2,465,946	2,837,463	2,000,124	1,961,854	1,434,659
Newfoundland	349,881 11,661,248	1,110,143 11,160,510	318,853 12,178,392	537, 741 10, 658, 637	297,312 6,601,855
Oceania—Australia	14, 189, 446 297, 545 11, 866, 500	19,470,305	12,178,392 16,322,771 431,211	10,658,637 6,788,708	6,601,852 5,387,985 123,376
FijiNew Zealand	297,545	329,797	431,211	212,682	123,376
Other	11,866,800 49,319	19,470,305 329,797 17,357,763 78,051	19, 166, 488 71, 957	12,688,475 25,435	3,724,228 8,310
Palestine	104.408	189,952	98,934	83.980	29,043
Totals, British Empire	498,975,967	535,989,288	379,571,138	292,864,396	218,956,387
Ivials, British Emphy	180,211,301	393, 334, 235	010,011,100	494,092,098	210,000,001
Foreign Countries.			'		
Argentina	11,085,728	14,493,191	19,206,746	10,007,794	4,344,735
Austria	291,824 20,781,857	349,701 27,301,384	435,770	234,878 14,962,044	101, 143
Belgium Belgian Congo Bolivia	110.594	189, 180	21,692,858 322,837	93,313	14,036,437 47,957
Bolivia	110,594 117,954 4,897,082	189, 180 87, 604 5, 872, 940	322,837 132,315 4,292,293	93,313 42,964	47,957 91,704
Brazil Chile	4,897,082	5,872,940 2,403,442	4,292,293 2,280,003	2,799,567 1,057,410	979,854
China	1,347,528 13,432,396	94 949 507	16,527,959	9, 122, 190	405,359 5,908,133
Colombia	13,432,396 1,782,573	1,797,393	1 643 048	1,191,940 61,232	533 891
Costa Rica	203.650	1,797,393 184,773 4,442,953 1,703,825	97,617 4,245,576 478,847	61,232	45,078 1,637,676 173,098
Cuba. Czechoslovakia	5,386,679 1,439,483	4,442,993 1 703 825	4,245,576	2,868,103 252,041	1,087,079
Denmark	6,390,662	5,981.035	4,108,704	3,604,492	3,875,680
Ecuador	124, 570	139,874	111,674	59,199	29,846
Egypt	1,798,004 174,181	2,845.973 88,680	1,028,530 32,509	781,305 44,510	173, 201 861
Estonia Finiand	1,838,447	2, 122, 129	1.331,652	44,510 1,388,556 13,285,758	666,459
France French Africa	1,838,447 9,946,145	2, 122, 129 16, 131, 188	1,331,652 16,507,011	13,285,758	17, 954, 321
French Africa	456,912	475,026	612,653	561, 185	343,758 753,642
French West Indies	9,413 371,511	40,042 511,374	51,301 537,990	232,001 374,382	249 904
St. Pierre and Miquelon	1.476,340	2,729,124 46,708,804	5, 859, 251	11,004,479	8,642,119 10,405,256
French Alrica French Oceania French West Indies St. Pierre and Miquelon Germany Greece. Guatemala	1,476,340 42,244,217 4,282,227	46,708,804	25,343,661 5,387,067	11,004,479 12,942,236 5,642,245	10,405,256
Guetamala	4,262,227 175,917	11,850,771 191,930	5,387,067 172,877	140,599	2,412,035 153,543
	364,770	394,791	142.578	90,891	83, 299
Honduras	110 839	235, 957	143 701	133 917	111,058
	289,938 18,749,518	137,729 23,024,899	79,130 11,387,294 30,475,581 18,509	19,749 14,552,319 18,958,965	5, 231 4, 265, 324
Iraq (Mesopotamia)	10,144,010	42,099,968	30,475.581	18,958.965	4,265,324 16,555,690
Iraq (mesopotamia) Italy Isnan	32,968,243		,-::,::::	9,961	10,237
r.orea	32,968,243 487,360	160,995	18,509	9,901	
Latvia	289,938 18,742,516 32,968,243 487,360 125,322	160,995	11.248	16.813	4.260
Latvia		160,995 34,315 2,675,985	2,583,440	16,813 2,035,576 160,411	4,260 1,366,947
Latvia		160,995 34,315 2,675,985	2,583,440 306,654	16,813 2,035,576 160,411	4,260 1,366,947 71,709
Latvia	32,968,243 487,360 125,322 2,539,947 277,783 35,537,951 2,364,334 116,414	160,995 34,315 2,675,985	2,583,440	16,813 2,035,576	4,260 1,366,947

¹ Totals include other minor countries not specified.

20.—Values of Exports of Canadian Produce from Canada to the British Empire and to Foreign Countries, in the five fiscal years ended Mar. 31, 1928-32—concluded.

Foreign Countries	1932. \$	1931. I	1930.	1929.	1928.	Country.
Nicaragua	-					
Norway	99 28	\$	\$	\$) \$	Foreign Countries—concluded.
Pansma I, 124, 817 1, 040, 519 877, 780 708, 085 Paraguay 80, 756 96, 194 75, 401 59, 854 Persia 72, 896 83, 577 148, 928 88, 465 Peru I, 235, 525 1, 311, 267 1, 795, 003 1, 579, 294 Poland and Danzig 455, 975 56, 759 85, 234 60, 118 Portugat 942, 210 5, 735, 299 I, 410, 906 611, 643 Azores and Madeira 210, 004 187, 199 153, 946 163, 323 Portuguese Africa 1, 054, 816 943, 194 1, 210, 116 1, 199, 735 Roumania 795, 953 568, 432 449, 303 46, 733 Russia 2, 424, 071 2, 457, 492 3, 738, 401 568, 100 Salvador 97, 232 75, 803 91, 432 120, 980 Santo Domingo 413, 034 332, 802 227, 710 243, 514 Spain 609, 653 5, 704, 255 450, 3231 1, 297, 980 Sweden 117, 22		35,758				Nicaragua
Paraguay 80,756 96,194 75,401 55,854 Persia. 72,896 83,577 143,923 88,465 Peru. 1,285,525 1,311,267 1,795,003 1,579,294 Poland and Danzig. 455,975 356,759 85,234 60,118 Portugal. 942,210 5,735,299 1,10,006 611,643 Azores and Madeira. 210,004 187,199 153,946 163,333 Portuguese Africa. 1,054,816 943,104 1,210,116 1,109,735 Roumania. 795,953 568,432 449,303 40,733 Russia. 2,424,071 2,457,492 3,738,401 568,100 Salvador. 97,232 75,803 91,432 120,990 Santo Domingo. 413,034 332,202 227,510 243,514 Spain. 609,653 5,704,255 4,503,231 1,297,080 Canary Islands. 131,058 71,374 99,048 69,760 Sweden. 4,612,344 4,765,518 4,678,	3.324.77					Norway
Persia. 72,896 83,577 148,928 88,485 Peru. 1,285,525 1,311,267 1,795,003 1,579,294 Poland and Danzig. 455,975 356,759 35,234 60,118 Portugal. 942,210 5,735,239 1,410,806 611,643 Azores and Madeira. 210,004 187,199 153,946 163,333 Portuguese Africa. 1,054,816 943,194 1,210,116 1,199,735 Roumania. 795,953 568,432 449,303 49,733 Russis. 2,424,071 2,457,442 3,738,401 568,100 Salvador. 97,232 75,803 91,432 120,990 Santo Domingo 413,034 332,802 227,510 243,614 Spain. 609,653 5,704,255 4,503,231 1,297,080 Canary Islands 131,058 71,374 90,486 69,760 Switzerland 498,270 483,919 1,197,480 561,747 Syriac 158,742 476,229 324	336.32					
Peru	17,30					
Poland and Danzig 455,975 356,759 85,234 60,118 Portugal 942,210 5,735,299 1,410,806 611,643 Azores and Madeira 210,004 187,199 1,53,946 163,323 Portuguese Africa 1,054,816 943,194 1,210,116 1,109,735 Roumania 795,953 568,422 449,303 44,733 Russia 2,424,071 2,457,492 3,738,401 568,100 Salvador 97,232 75,803 91,432 130,990 Santo Domingo 413,034 332,802 227,510 243,614 Siam 117,227 250,575 128,688 47,017 Spain 699,653 5,704,255 450,3231 1,297,080 Canary Islands 131,058 71,374 99,048 69,760 Sweden 4,612,342 4,765,518 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Turkey 42,444 476,518 476,333						
Portugal. 942.210 5,735,299 1,410,606 611,633 Azores and Madeira 210,004 187,199 153,946 163,333 Portuguese Africa. 1,054,816 943, 194 1,210,116 1,199,735 Roumania. 795,953 568,432 449,303 40,733 Russia. 2,424,671 2,457,482 3,738,401 568,100 Salvador. 97,232 75,803 91,432 120,990 Santo Domingo. 413,034 332,802 227,510 243,514 Sjam. 609,653 5,704,255 450,3231 1,297,980 Swalizerlands. 131,058 7,1374 9,048 69,780 Sweden. 4,612,342 4,765,818 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Syria. 158,742 476,229 24,2184 2,067 Turkey. 82,640 146,953 82,679 23,233 United States 478,145,383 499,612,145	628,16					Peru.
Azores and Madeira 210,004 187, 199 153,946 163,383 Portuguese Africa 1,054,816 943,104 1,210,116 1,109,735 Roumania 795,953 568,432 449,303 40,733 Russia 2,424,071 2,457,492 3,738,401 568,100 Salvador 97,232 75,803 91,432 120,990 Santo Domingo 418,034 332,202 227,510 243,514 Siam 117,227 250,575 126,808 47,017 Spain 609,653 5,704,255 4,503,231 1,297,080 Canary Islands 131,058 71,374 99,048 69,760 Sweden 4,612,842 4,765,518 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Syria 158,742 476,229 242,184 82,057 Turkey 82,640 146,953 82,679 22,303 United States 478,134 499,612,145 515,695	85,08			356,759		
Portuguese Africa. 1,054,816 943, 194 1,210,116 1,109,735 Roumania. 795,953 568,432 449,303 49,733 Russia. 2,424,071 2,457,492 3,738,401 568,100 Salvador. 97,232 75,803 91,432 120,990 Santo Domingo. 418,034 332,802 227,510 243,614 Siam. 117,227 250,575 126,808 47,017 Spain. 609,653 5,704,255 4,503,231 1,297,080 Canary Islands. 131,058 71,374 90,048 69,760 Sweden. 4,612,342 4,765,818 4,678,037 2,447,205 Syria. 158,742 476,229 142,184 82,057 Turkey. 62,640 146,953 82,679 22,303 United States 478,145,333 499,612,145 515,049,763 349,660,563 Alaska. 311,434 411,836 515,049,763 489,600 Hawaii. 79,369 37,262 37,576	81,47					Portugal
Roumania	44,74					
Russia 2, 424, 071 2, 457, 492 3, 738, 401 568, 100 Salvador 97, 232 75, 803 91, 432 120, 990 Santo Domingo 413, 034 332, 802 227, 510 243, 614 Siam 117, 227 250, 575 126, 808 47, 017 Spain 609, 653 5, 704, 255 4, 503, 231 1, 297, 080 Canary Islands 131, 058 71, 374 99, 048 69, 760 Sweden 4, 612, 342 4, 765, 818 4, 678, 037 2, 447, 205 Switzerland 498, 270 483, 919 1, 197, 480 561, 747 Syria. 158, 742 476, 229 242, 184 82, 667 Turkey 62, 640 146, 953 82, 679 22, 303 United States 478, 145, 333 499, 612, 145 515, 049, 763 349, 660, 563 Alaska 311, 434 411, 336 515, 049, 763 349, 660, 563 Hawaii 79, 369 37, 262 37, 576 92, 248 Philippines 272, 751<	1,063,28					
Salvador 97,232 75,803 91,432 120,090 Santo Domingo 413,034 332,802 227,510 243,614 Siam 117,227 250,575 128,808 47,017 Spain 609,653 5,704,255 4,503,231 1,297,080 Canary Islands 131,058 71,374 9,048 69,760 Sweden 4,612,342 4,765,818 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Syria 158,742 476,229 242,184 82,057 Turkey 62,640 146,953 82,679 23,933 United States 478,145,383 499,612,145 515,629 763 349,600,563 Alaska 311,434 411,336 515,629 468,978 Hawaii 79,369 37,262 37,576 92,248 Philippines 272,751 321,219 366,794 236,478 Puerto Rico 815,388 977,961 37,984 <t< td=""><td>22,54</td><td></td><td></td><td></td><td></td><td></td></t<>	22,54					
Santo Domingo 418,034 332,302 227,510 243,614 Siam 117,227 250,575 128,808 47,017 Spain 609,633 5,704,255 4,503,231 1,297,080 Canary Islands 131,058 71,374 99,048 69,760 Sweden 4,612,342 4,765,518 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Syria 155,742 476,229 242,184 32,057 Turkey 82,640 146,933 82,679 22,303 United States 478,145,383 499,612,145 515,049,763 349,605,563 Alaska 311,434 411,936 515,626 648,978 Hawaii 79,369 37,262 37,576 92,248 Philippines 272,751 321,219 266,794 236,478 Puetro Rico 815,388 977,961 877,984 677,118 Uruguay 1,682,209 1,076,531 1,094,771 736,5	55, 19					
Siam 117,227 250,575 128,808 47,017,89ain. Spain. 609,653 5,704,255 4,503,231 1,297,080 Canary Islands. 131,058 7,374 99,048 69,760 Sweden. 4,612,342 4,765,818 4,678,037 2,447,295 Switzerland 498,270 483,919 1,197,480 561,747 Syria. 158,742 476,229 242,184 82,067 Turkey. 62,640 146,953 82,679 22,303 United States. 478,145,333 499,612,145 515,626 468,978 Alaska. 311,434 411,336 515,626 468,978 Hawaii. 79,369 37,262 37,576 92,248 Pullippines. 227,751 321,219 366,794 236,478 Puerto Rico. 815,388 977,961 377,984 677,118 Uruguay. 1,628,209 1,107,631 1,094,771 736,658 Venezuela. 1,497,544 1,792,549 1,288,943	22,61					
Spain 669,653 5,704,255 4,503,231 1,297,080 Canary Islands 131,058 71,374 99,048 69,760 Sweden 4,612,342 4,765,818 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Syria 155,742 476,229 42,184 82,057 Turkey 62,640 146,953 82,679 22,303 United States 478,145,383 49,612,145 515,694 763 349,605,583 Alaska 311,434 411,336 515,626 648,978 486,978 Philippines 272,751 321,219 266,794 236,478 Puerto Rico 815,388 977,961 877,984 677,118 Uruguay 1,628,209 1,107,631 1,094,771 736,658 Venezuela 1,477,544 1,792,549 1,280,931 1,058,233	262,27					
Canary Islands 131,058 71,374 99,048 69,780 Sweden 4,612,342 4,765,818 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Syria 155,742 476,229 242,184 82,057 Turkey 62,640 146,932 82,679 22,303 United States 478,145,383 49,612,145 515,694 763,549,605,563 Alaeka 311,434 411,336 515,626 468,978 Hawaii 79,369 37,262 37,576 92,248 Philippines 272,751 321,219 266,794 236,478 Puerto Rico 815,388 977,961 377,984 677,118 Uruguay 1,628,209 1,107,631 1,094,771 736,658 Venezuela 1,497,544 1,792,549 1,280,943 1,095,223	6,22					
Sweden 4,612,342 4,765,518 4,678,037 2,447,205 Switzerland 498,270 483,919 1,197,480 561,747 Syria 158,742 476,229 242,184 82,057 Turkey 62,640 146,953 82,679 22,303 United States 478,145,333 49,612,145 515,049,763 349,660,563 Alaska 311,434 411,836 515,626 468,978 Hawaii 79,369 37,262 37,576 92,248 Philippines 272,751 321,219 366,794 236,478 Puerto Rico 815,388 97,961 37,984 677,118 Uruguay 1,628,209 1,107,631 1,094,771 736,658 Venezuela 1,497,544 1,792,5549 1,280,943 1,065,223	566,10					Spain
Switzerland 498.270 483.919 1,197,480 561.747 Syria. 158,742 476,229 242,184 82,067 Turkey 62,640 146,933 82,679 22,303 United States 478,145,383 499,612,145 515,695 515,626 668,978 Alaska 311,434 411,336 515,626 668,978 92,248 Philippines 272,751 321,219 266,794 236,478 Puerto Rico 815,388 977,961 877,984 677,118 Uruguay 1,628,209 1,107,631 1,094,771 736,558 Venezuela 1,497,544 1,792,549 1,286,931 1,056,223	23,26					
Syria 158,742 476,229 242,184 82,057 Turkey 62,640 146,935 82,679 22,303 United States 478,145,383 49,612,145 515,049,763 349,605,563 Alaeka 311,434 411,336 515,626 468,978 Hawaii 79,369 37,262 37,576 92,248 Philippines 272,751 321,219 266,794 236,478 Puerto Rico 815,388 977,961 377,984 677,118 Urugusy 1,628,209 1,107,631 1,094,771 736,658 Venezuela 1,497,544 1,792,549 1,280,943 1,095,223	2,385,78					Sweden
Turkey 62,640 146,953 82,679 22,393 United States 478,145,383 499,612,145 515,049,763 349,605,563 Alaska 311,434 411,836 515,626 468,978 Hawaii 79,369 37,262 37,576 92,248 Philippines 272,751 321,218 266,794 236,478 Puerto Rico 815,388 97,961 877,984 677,118 Uruguay 1,628,209 1,107,633 1,094,771 786,658 Venezuela 1,497,544 1,792,549 1,286,943 1,068,223	280,09					
United States 478, 145, 383 499, 612, 145 515, 049, 763 349, 660, 563 Alaska 311, 434 411, 336 515, 628 468, 978 Hawaii 79, 369 37, 262 37, 576 92, 248 Philippines 272, 751 321, 219 266, 794 236, 478 Puerto Rico 815, 388 977, 961 377, 934 677, 118 Uruguay 1, 628, 209 1, 107, 631 1, 094, 771 736, 658 Venezuela 1, 497, 544 1, 792, 549 1, 288, 943 1, 095, 223	26,82					
Alaska 311.434 411.836 515.626 468.978 Hawaii 79.369 37.262 37.576 92.248 Philippines 272,751 321.219 236.794 236.478 Puerto Rico 815.388 977.961 977.984 677.118 Venezuela 1,497.544 1,792.549 1,298.943 1,095.223	7.71					Turkey
Hawaii. 79,369 37,262 37,576 92,248 Philippines 272,751 321,219 266,794 236,478 Puerto Rico 815,388 977,961 877,984 677,118 Urugusy 1,628,209 1,107,631 1,094,771 736,658 Venezuela 1,497,544 1,792,549 1,286,943 1,058,223	235, 186, 67					United States
Philippines 272,751 321,219 266,794 236,478 Puerto Rico 815,388 977,961 877,934 677,118 Urugusy 1,628,209 1,107,631 1,094,771 736,658 Venezuela 1,497,544 1,792,549 1,286,943 1,058,223	364,14					Alaska
Puerto Rico. 815.388 977.981 877.984 677.118 Venezuela. 1,497.544 1,792.549 1,286.993 1,094.771 786.658 Venezuela. 1,497.544 1,792.549 1,286.943 1,095.223	201,08					
Urugusy	296,93					Painppines
Venezuela	450, 18					Puerto Kico
	424,92 549,82			1,107,031		Urugusy
107,930 25,029 25,006 12,910	4.18					
	4,10	12,910	20,000	40,028	157,995	I ugoelavia
Totals, Foreign Countries 729, 373, 436 827, 720, 384 740, 687, 164 506, 878, 271	357,387,91	506,878,271	740,687,164	827,720,384	729,373,436	Totals, Foreign Countries1
Grand Totals, Canadian Exports 1,228,349,343 1,363,709,672 1,129,258,342 799,742,667	576,344,30	799,742,667	1,120,258,302	1,363,709,672	1,228,349,343	Grand Totals, Canadian Exports
Continents.						Continents.
Europe—United Kingdom	174.043.72	210 246 400	981 745 BAR	429 720 485	410 801 209	Europa—United Kingdom
Other Europe 164,095,981 213,107,315 125,942,697 89,978,203	77,223,64					
North America	266,823,56			542 487 061	619 189 576	
South America						South America
Asia	28,242,09					
Oceania 26,264,343 37,313,278 36,081,304 20,089,549	10, 198, 61					
Africa 14,886,598 20,279,754 17,489,147 15,028,593						

I Totals include other minor countries not specified.

21.—Values of Merchandise Imported into, and Exported from, Canada through United States during the fiscal years ended Mar. 31, 1931 and 1932.

Country whence Imported and to which	Merchandise through Unite		Merchandise Exported through United States.			
Exported.	1931.	1932.	1931.	1932.		
Beidish Bessel	\$	\$	\$	\$		
British Empire. United Kingdom	169,820	202,454	79,880,087	44,683,160 107,096		
Irish Free State	418,448	75,916 17,818	185,546 1,141,279 19,962	678,254 34,169		
Bermuda British Africa	36,888	61,002 23,466	3,937,708 1,630,277	1,041,531 695,009		
British India British East Indies.	42,818 140,708	102,680 157,248	699,255 139,333	312,104 61,967		
British Guiana. British Honduras.	105,208 17,570	41,772 155,782	15,457 1,653,515	27,642 772,263		
British West Indies	8,716	11,808	78,115 174,648	75,822 72,010		
Malta Newfoundland New Zealand	25 35,824	10,777	46,889 2,822,158	187,382 483,159		
Totals, British Empire	976.898	862,378	92,668,483	49,276,828		

¹ Totals include other minor countries not specified.

21.-Values of Merchandise Imported into, and Exported from, Canada through the United States during the fiscal years ended Mar. 31, 1931 and 1932—concluded.

Country whence Imported and to which Exported.	Merchandise through Unit		Merchandise through Unit	
Exported.	1931.	1932.	1931.	1932.
Foreign Countries.	\$	\$	\$	\$
Argentina	550.354	121.553	4.465.932	1,053,58
Austria	5, 142	1.953	173.602	64,95
Belzium	57, 839	36, 160	403, 940	150,81
	482,764	311,436	2.188.536	672,50
Brazil	7.560	840	346.820	228.66
Chile	6.374	7,230	780,681	171, 15
China	2.902.503	1,148,093	359, 208	486,49
Colombia	382.029	505, 452	552,787	216.64
Cuba	1.000.213	374.416	1.172.413	579,13
Czechoslovakia	20,865	16, 253	115,779	50.53
Denmark	9,919	1,521	2, 284, 103	941,10
Egypt	35,722	19.328	570,614	79.76
Finland	125	182	356,696	146.02
France	36,848	21,508	1.001.002	810.78
French Africa	78, 428	9.077	375, 184	127,50
French West Indies		-,	128,432	138, 17
Germany	364.784	188,952	1,960,114	1,129,35
Greece	46,982	8,345	182,953	27.61
Haiti	10,755	-, -	90,237	71.65
Italy	250,267	145.933	1.130,211	439.07
Japan	238,034	106,811	698, 773	812.24
Mexico	371,131	392.348	1.988.487	1.348.82
Morocco.	23,234	16,057	154,818	67.48
Netherlands	148,946	74.011	1.731.311	1, 155, 47
Dutch East Indies	147,705	103.353	921,120	393,25
Norway	486	7,788	405.979	239,54
Panama	100	1,100	375, 765	180.93
Pereis	22,793	18.216	67.367	100,00
Peru	,	1	504,905	228,96
Philippine Islands	69,683	97,267	19.788	53,12
Paerto Rico	203	27,55	128, 106	120,96
Portugal	6.086	401	138, 456	60.38
Portuguese Africa	5,000	701	448, 174	586.59
Roumania	6.352	1,261	46,700	18.47
Russia	25.387	1,201	392,619	52.45
Santo Domingo	2,562		124,718	118.93
Spain	216,304	28,210	1,128,567	493,79
Sweden	27,731	10,752	604,381	354.47
Switzerland	55,069	57,059	162,232	85.14
Syria	5.721	3.627	75,308	23.47
Turkey	225,592	137.574	21,285	7.41
Urnguay	31,116	51.912	446,702	142,67
Venezuela	60,668	49.577	993,787	518,82
Tetais, Foreign Countries:	7,981,386	4,497,946	31,124,585	14,963,96
Grand Totals	8.958,204	4,960,324	123,735,068	64,240,79

Subsection 10.—Comparison of the Volume of Imports and Exports.1

The statistics of the external trade of Canada have not, until lately, been analysed in detail to reveal the physical volume of external trade as well as the dollar value of that trade, and have therefore been somewhat misleading when used to show the physical growth of production and external trade. When, for example, Table 1 of this chapter is examined, it seems to show stagnation in our external trade between the early 70's and the middle 90's of last century and a very rapid growth thereafter. Yet we know that the apparent stagnation was partly due to the

Totals include other countries not specified.
 Costa Rica, Guatemala, Honduras, Nicaragua and Salvador.

Further information as to the methods adopted in making the following analyses will be found on p. 806 of the Bureau's Aunual Report on the Trade of Canada for the fiscal year ended Mar. 31, 1932.

fall in general prices between the '70's and the middle '90's, while the rapid growth of the later figures is exaggerated by the rise of prices after 1897, especially in the war period 1914 to 1921. Since 1929 another precipitate decline in prices has exaggerated the actual decrease of trade. Thus the figures as published give us no true measure of the *volume* of our external trade, yet, of the commodities that satisfy human needs, it is the volume rather than the value with which the masses of the population are more intimately concerned. Volume is, from many points of view, a more important consideration than value, and it is desirable to secure a record of the fluctuations in the volume of the country's trade as distinguished from the value thereof. This is what is attempted in Table 22.

The method adopted for ascertaining the fluctuations in volume has been to take a base year-1926-and to re-value the quantities of each commodity imported or exported in any given year at the average import or export value of that commodity in the standard or base year. Where quantities are not available, the values of items are assumed to have moved in the same direction and in the same proportions as closely related commodities. For this reason the results must not be regarded as of great precision but, since the value of goods not returned by quantity, and of those not comparable over a limited series of years, is small in comparison with the total trade, the amount of error introduced on their account is not considerable. By this method it is comparatively easy to compare the volume of the trade in a particular year with that in a recent year and the margin of error is fairly small. When, however, a comparison of the volume of trade in a particular year with that of another year ten or more years before is undertaken, the margin of error is very much greater. Certain new commodities have come into existence in the course of the decade, while the qualities of others have been materially changed; further, various new items have been added to the customs classifications, and it is not always possible to say just what customs items of 1932 correspond with those of 1914. For these reasons comparisons with the pre-war fiscal year ended 1914 have been discontinued since 1929. This comparison for 1929 and certain previous years appeared on pp. 581-583 of the 1930 Year Book.

In Table 22 the values and volumes of imports and exports respectively for the years 1927, 1928, 1929, 1930, 1931 and 1932 are compared with 1926, for the main groups, as follows: the imports and exports are first shown at the values at which the trade was recorded; the same imports and exports are then shown at the value they would have amounted to if the average price or unit value had been the same in each year as it was in 1926. In other words, the figures on the basis of 1926 average values enable a comparison to be made of the imports or exports for the given years on the basis of variations in quantity only, variations due to different prices having been eliminated. Index numbers of declared values, that is, the total declared values of the imports or exports in each year expressed as percentages of 1926, are then given. These are followed by the index numbers of average values, which show the prices at which goods were imported or exported in each year expressed as percentages of the prices in 1926. Finally, the index numbers of physical volume show the relative quantity of merchandise imported or exported in each year expressed as a percentage of the quantity of the same merchandise in 1926.

For an analysis in greater detail, dealing similarly with sub-groups and principal commodities imported and exported, the reader is referred to pp. 806-826 of the Annual Report on the Trade of Canada for 1932 published by the Dominion Bureau of Statistics.

22.—Comparison of the Values and Volumes of the External Trade of Canada, by Main Groups, for the fiscal years ended Mar. 31, 1926-32.

IMPORTS FOR CONSUMPTION.

Main Group. 1936. 1927. 1928. 1929. 1940. 1941. 1942.	IMPORTS FOR CONSUMPTION.								
Agricultural and Vegetable Products Asimals and Their Products 49, 186	Main Group.	1926.	1927.	1928.	1929.	1930.	1931.	1932.	
Agricultural and Vegetable Products 23, 419, 124, 124, 124, 125, 126, 126, 126, 126, 126, 126, 126, 126			•	Va	lues as De	clared.	•	•	
Wood and Paper				(In th	ousands o	f dollars.)			
Wood and Paper	Agricultural and Vegetable Products.	203,417	213,098	238, 186	233, 130	227,049	177,629	128,621	
Wood and Paper	Animals and Their Products	49, 186	53,214	65,790	71,662	69,854	45,996	24,563	
From and Its Products	Fibres and Textiles	184,762	183,584			185,241	130,717		
Non-Ferrous Metals	Iron and Its Products		229, 429		345, 194		193.933		
Chemicals and Allied Products	Non-Ferrous Metals	47,693	52,748	61,565	76.858	90,421	[60,595]	34,301	
Totals	Non-Metallic Minerals	139,034	156,785	153,049	166,964	186,496	153,579	102, 147	
Totals	Miscellaneous	53, 233	62,227	59,854	68.494	73.987	62,471	43,440	
Agricultural and Vegetable Products	Totals		1,030,892	1, 108, 956	1,265,679	1,248,274	906,613	578,502	
Agricultural and Vegetable Products			·	L. D.	-£ 1000 A.				
Agricultural and Vegetable Products 29, 341 29, 314 25, 386 28, 930 294, 044 265, 242 242, 243			ŲΠ			-	ues.		
Too and Its Products	Agricultural and Variatible Products	902 417	490 214				966 4941	949 491	
Too and Its Products	Animals and Their Products	49, 186	56,931	62.257	66.545	74.175	58.386	28.900	
Too and Its Products	Fibres and Tertiles	184,762	214,818	218,416	237,405	230,245	212, 295	162.214	
Non-Metalis Minerals 138,694 179,124 38,494 70,490 45,191 Non-Metalis Minerals 138,694 188,990 171,992 195,390 225,542 193,803 354,598 35,293 36,217 64,355 75,720 84,369 90,233 66,004 36,204 32,725 34,096 38,556 41,030 40,035 35,504 35,004 36,005 35,504 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,004 36,005 36,005 36,004 36,005 36,004 36,005 36,004	Wood and Paper	40.403	47,746	51,266	60,373	62, [81	51.850	35,289	
Non-Metallic Minerals	Non-Ferrous Metals	47 693	53 431				70.490	45, 191	
Chemicals and Allied Products 28, 404 32, 725 34, 696 38, 565 41, 930 40, 935 36, 504	Non-Metallic Minerals	139.034	158.909	171.982	195,930	226.542	193,863	164,598	
Totals	Chemicals and Allied Products	28,404	32,723	34,096	38,656	41,030	40,035	35,504	
Index Numbers of Declared Values.		63,233	66,217	64,355	- 75,720	84,336	80,283	66,004	
Agricultural and Vegetable Products 100-0 104-8 117-1 114-6 111-6 87-3 63-2 133-8 145-7 142-0 93-5 50-0 Fibres and Textiles 100-0 108-2 133-8 145-7 142-0 93-5 50-0 Fibres and Textiles 100-0 199-4 101-2 111-7 100-3 70-7 45-4 400-40 404-8 111-7 100-3 70-7 45-4 400-60 404-8 111-7 100-3 70-7 45-5 100-0 118-7 128-1 146-6 150-9 114-0 79-2 170-10 170-10 180-6 129-1 161-2 189-6 127-1 71-9 100-8 110-6 112-8 110-1 120-1 134-1 110-5 73-5 100-6 112-8 110-1 120-1 134-1 110-5 125-5 109-2 117-4 181-6 120-1 134-1 110-5 125-5 109-2 117-4 181-6 120-1 134-6 125-5 109-2 117-4 181-6 120-1 134-6 125-5 109-2 117-4 181-6 111-6 112-4 128-7 133-9 117-4 81-6 120-1 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 134-6 13	Totals	927,329	1,100,530	1,195,690	1,403,097	1,413,206	1,169,380	880,930	
Agricultural and Vegetable Products 100-0 104-8 117-1 114-6 111-6 87-3 63-0 Animals and Their Products 100-0 108-2 133-8 145-7 142-0 93-5 50-0 Fibres and Textlies 100-0 99-4 101-2 111-7 100-3 70-7 45-4 Wood and Paper 100-0 118-7 128-1 148-6 150-9 114-0 79-2 1700 and Its Products 100-0 118-7 128-1 148-6 150-9 114-0 79-2 1700 and Its Products 100-0 110-6 129-1 161-2 189-6 127-1 71-9 Non-Metalic Minerals 100-0 110-8 110-1 129-1 161-2 189-6 127-1 71-9 Non-Metalic Minerals 100-0 112-8 110-1 129-1 134-1 110-5 73-5 Chemicals and Allied Products 100-0 112-1 118-2 132-8 140-5 125-5 168-2 Miscellaneous 100-0 111-9 112-4 128-7 138-9 117-4 81-6									
Fibres and Textiles	Agricultural and Vegetable Products.	100 - 01	104 - 8				87-31	63 · 2	
Wood and Paper	Animals and Their Products	100.0	108.2	133+8				50-0	
Non-Ferrous Metals	Fibres and Textiles		99.4	101-2	111.7	100+3	114.0	45·4 70.9	
Non-Ferrous Metals	Iron and Its Products	100.0	126-6		190.5	173.4	107-0	54.5	
Chemicals and Allied Products 100-0 112-1 118-2 132-8 140-5 125-5 108-2	Non-Ferrous Metals	100 ⋅ 0	110-6	129 - 1	161-2				
Miscellaneous	Non-Metallic Minerals	100.0	112.8	110.1	120-1	134 - 1		73·5	
Index Numbers of Average Values.	Miscellaneous			112.4	128.7				
Agricultural and Vegetable Products. 100-0 92-9 92-4 80-7 77-2t 66-5 53-1 Animals and Their Products. 100-0 93-5 105-7 107-7 94-2 78-8 85-0 Fibres and Tertiles. 100-0 85-5 85-6 87-0 80-5 61-6 51-7 Wood and Paper. 100-0 100-5 100-9 88-1 98-1 98-0 88-8 90-7 Iron and Its Products. 100-0 95-4 94-0 95-8 100-7 89-3 98-0 Non-Ferrous Metals. 100-0 98-7 101-2 97-1 102-2 86-0 75-9 Non-Metallic Minerals 100-0 98-7 89-0 85-2 82-3 79-2 62-1 Chemicals and Alhied Products. 100-0 98-7 89-0 85-2 82-3 79-2 62-1 Chemicals and Alhied Products. 100-0 94-0 93-0 90-5 87-7 77-8 65-8 Miscellaneous. 100-0 94-0 93-0 90-5 87-7 77-8 65-8 100-0 94-0 93-0 90-5 87-7 77-8 65-7 100-0 94-0 93-0 90-5 87-7 77-8 65-7 100-0 94-0 93-0 90-5 87-7 90-2 88-3 77-5 65-7 100-0 112-7 126-8 142-1 144-6 131-2 19-2 Animals and Their Products. 100-0 115-7 126-6 135-3 150-8 118-7 55-8 Fibres and Textiles. 100-0 116-3 118-2 128-5 124-6 114-9 87-8 Wood and Paper 100-0 118-2 126-9 140-4 153-9 128-3 87-3 1ron and Its Products. 100-0 182-7 151-5 198-9 172-2 107-8 55-6 Non-Ferrous Metals. 100-0 116-3 123-7 151-5 198-9 172-2 107-8 55-6 Non-Ferrous Metals. 100-0 116-3 123-7 151-5 198-9 172-2 107-8 55-6 Non-Ferrous Metals. 100-0 116-3 123-7 140-9 162-9 136-1 144-5 140-9 125-0 100-0 116-2 120-0 136-1 144-5 140-9 125-0 136-1 144-5 140-9 125-0 100-0 124-4 120-9 142-2 138-4 150-8 124-0 100-0 124-4 120-9 142-2 138-4 150-8 124-0	Totals	100.0	111.2	119.6	136 - 5	134-6	97-8	62-4	
Agricultural and Vegetable Products. 100-0 92-9 92-4 80-7 77-2t 66-5 53-1 Animals and Their Products. 100-0 93-5 105-7 107-7 94-2 78-8 85-0 Fibres and Tertiles. 100-0 85-5 85-6 87-0 80-5 61-6 51-7 Wood and Paper. 100-0 100-5 100-9 88-1 98-1 98-0 88-8 90-7 Iron and Its Products. 100-0 95-4 94-0 95-8 100-7 89-3 98-0 Non-Ferrous Metals. 100-0 98-7 101-2 97-1 102-2 86-0 75-9 Non-Metallic Minerals 100-0 98-7 89-0 85-2 82-3 79-2 62-1 Chemicals and Alhied Products. 100-0 98-7 89-0 85-2 82-3 79-2 62-1 Chemicals and Alhied Products. 100-0 94-0 93-0 90-5 87-7 77-8 65-8 Miscellaneous. 100-0 94-0 93-0 90-5 87-7 77-8 65-8 100-0 94-0 93-0 90-5 87-7 77-8 65-7 100-0 94-0 93-0 90-5 87-7 77-8 65-7 100-0 94-0 93-0 90-5 87-7 90-2 88-3 77-5 65-7 100-0 112-7 126-8 142-1 144-6 131-2 19-2 Animals and Their Products. 100-0 115-7 126-6 135-3 150-8 118-7 55-8 Fibres and Textiles. 100-0 116-3 118-2 128-5 124-6 114-9 87-8 Wood and Paper 100-0 118-2 126-9 140-4 153-9 128-3 87-3 1ron and Its Products. 100-0 182-7 151-5 198-9 172-2 107-8 55-6 Non-Ferrous Metals. 100-0 116-3 123-7 151-5 198-9 172-2 107-8 55-6 Non-Ferrous Metals. 100-0 116-3 123-7 151-5 198-9 172-2 107-8 55-6 Non-Ferrous Metals. 100-0 116-3 123-7 140-9 162-9 136-1 144-5 140-9 125-0 100-0 116-2 120-0 136-1 144-5 140-9 125-0 136-1 144-5 140-9 125-0 100-0 124-4 120-9 142-2 138-4 150-8 124-0 100-0 124-4 120-9 142-2 138-4 150-8 124-0			Inc	lev Numb	ers of A ve	race Valu	 P8		
Agricultural and Vegetable Products. 100-0 92-9 92-4 80-7; 77-2; 66-5 83-1 Animals and Their Products. 100-0 93-5 105-7; 107-7; 94-2; 78-8 85-0 Fibres and Textiles. 100-0 85-5 85-6 87-0 90-5 61-6 51-7 Wood and Paper. 100-0 100-5 100-9 98-1; 98-0 88-8 90-7 Iron and Its Products. 100-0 95-4 94-0 95-8 100-7; 99-3 98-0 Non-Ferrous Metals. 100-0 98-7; 101-2 97-1; 102-2 86-0 75-9 Non-Metallic Minerals. 100-0 98-7; 89-0 85-2 82-3 79-2 92-1 Chemicals and Allied Products. 100-0 94-0 93-0 90-5 87-7; 77-8 65-8 Miscellaneous. 100-0 94-0 93-0 90-5 87-7; 77-8 65-8 Miscellaneous. 100-0 94-0 93-0 90-5 87-7; 77-8 65-7 Index Numbers of Physical Volume. (1926-100.) Agricultural and Vegetable Products. 100-0 115-7; 126-6 135-3 150-8 118-7 58-8 Fibres and Textiles. 100-0 116-3 118-2 128-5 124-6 114-9 87-8 Wood and Paper 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron and Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron and Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron sand Its Products. 100-0 118-2 126-9 140-4 153-9 128-3 147-8 94-8 Non-Metallic Minerals. 100-0 116-3 123-7 140-9 162-9 130-4 118-5 40-9 125-0 Miscellaneous. 100-0 124-4 120-9 142-2 153-4 150-8 124-0 Miscellaneous. 100-0 124-4 120-9 142-2 153-4 150-8 124-0									
Mod and Paper 100-0 100-5 100-9 98-1 98-0 88-8 90-7	Apricultural and Vacatable Products	100.0	02-0				86-51	53 - 1	
Mod and Paper 100-0 100-5 100-9 98-1 98-0 88-8 90-7	Animals and Their Products		93.5		107.7	94.2	78.8	85.0	
Index Numbers of Physical Volume. 190-0 93-6 92-7 90-2 88-3 77-5 68-7	Fibres and Textiles		85.5	85.6			61.6	51.7	
Non-Ferrous Metals 100-0 98-7 101-2 97-1 102-22 88-0 73-9	Iron and Ita Products			64+0	95 · R				
Non-Metallic Minerals	Non-Ferrous Metals		98.7	101-2	97-1	102 · 2	86.0	75.9	
Totals	Non-Metallic Minerals	100.0	98.7	89.0	85.2	82.3	79.2		
Totals	Chemicals and Allied Products	100.0	97-3 94-0			97·3 87·7			
Index Numbers of Physical Volume. (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=100.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.) (1926=10.)									
Agricultural and Vegetable Products 100-0 112-7 126-8 142-1 144-6 131-2 119-2 Animals and Their Products 100-0 115-7 126-6 135-3 150-8 118-7 53-8 Fibres and Textiles 100-0 116-3 118-2 128-5 124-6 114-9 87-8 Wood and Paper 100-0 118-2 126-9 149-4 153-9 128-3 128-3 Iron and Its Products 100-0 132-7 151-5 198-9 172-2 107-8 87-3 Non-Ferrous Metals 100-0 112-0 127-6 165-9 185-5 147-8 94-8 Non-Metallic Minerals 100-0 116-3 123-7 140-9 182-9 139-4 118-4 Chemicals and Allied Products 100-0 124-4 120-9 142-2 138-4 150-8 124-0 Miscellaneous 100-0 124-4 120-9 142-2 138-4 150-8 124-0	1 Ocais	100.0						00-7	
Animals and Their Products 100-0 115-7 126-6 138-3 150-8 118-7 58-8 Fibres and Textiles 100-0 116-3 118-2 128-5 124-6 114-9 87-8 Wood and Paper 100-0 118-2 126-9 140-4 153-9 128-3 87-3 Iron and Its Products 100-0 132-7 151-5 198-9 172-2 107-8 58-6 Non-Ferrous Metals 100-0 112-0 127-6 165-9 185-5 147-8 Non-Metalic Minerals 100-0 114-3 123-7 140-9 182-9 139-4 118-4 Chemicals and Allied Products 100-0 124-4 120-9 142-2 158-4 150-8 124-0			Ind				mė.		
Animals and Their Products. 100-0 116-3 118-2 128-5 124-6 118-7 88-8 Fibres and Textiles. 100-0 116-3 118-2 128-5 124-6 114-9 87-8 Wood and Paper 100-0 118-2 126-9 149-4 153-9 128-3 87-3 1700 and Its Products. 100-0 132-7 151-5 151-5 198-9 172-2 107-8 55-6 Non-Ferrous Metals. 100-0 112-0 127-6 165-9 185-5 147-8 94-8 Non-Metallic Minerais. 100-0 112-0 127-6 165-9 185-5 147-8 94-8 Non-Metallic Minerais. 100-0 113-2 123-7 140-9 162-9 139-4 118-4 Chemicals and Allied Products 100-0 115-2 120-0 136-1 144-5 140-9 125-0 Miscellaneous. 100-0 124-4 120-9 142-2 158-4 150-8 124-0	Agricultural and Vegetable Products		112.7		142-1	144-6			
Chemicals and Alied Products 100-0 115-2 120-0 136-1 144-5 140-9 125-0 Miscellaneous 100-0 124-4 120-9 142-2 138-4 150-8 124-0	Animals and Their Products		115.7		135-3	150.8	118.7	58.8	
Chemicals and Alied Products 100-0 115-2 120-0 136-1 144-5 140-9 125-0 Miscellaneous 100-0 124-4 120-9 142-2 138-4 150-8 124-0	Wood and Paner	100-0	118 - 2	118.2	120-a 149-4	753 · 0	128.3		
Chemicals and Alied Products 100-0 115-2 120-0 136-1 144-5 140-9 125-0 Miscellaneous 100-0 124-4 120-9 142-2 138-4 150-8 124-0	Iron and Its Products	100.0	132-7	151-5	198-9	172-2	107-8	55-6	
Chemicals and Alied Products 100-0 115-2 120-0 136-1 144-5 140-9 125-0 Miscellaneous 100-0 124-4 120-9 142-2 138-4 150-8 124-0	Non-Ferrous Metals		112.0	127.6	165 9	185.5	147-8	94.8	
Miscellaneous. 100-0 124-4 120-9 142-2 158-4 150-8 124-0			114·3 115·9	123.7					
Totals 100.0 118.7 128.9 151.3 152.4 126.1 95.0	Miscellaneous.				142.2	158.4	150.8	124 0	
	Totals	100.0	118-7	128-9	181-3	152-4	126-1	95.0	

22.—Comparison of the Values and Volumes of the External Trade of Canada, by Main Groups, for the fiscal years ended Mar. 31, 1926-32—concluded.

EXPORTS OF CANADIAN PRODUCE.

		,					
Main Group.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
				ues as Dec usands of :			
4 - 2 - 10 1 4 37 4 - 3 1 - 10 - 4 - 4 - 4	000 000	****				003.000	
Agricultural and Vegetable Products. Animals and Their Products	606,059 190,976	574,994 167,292	555,111	646,514		292,289 83,715	204,39
Fibres and Textiles	8,940	7 886	165,845 10,904	158,757 9,678	133,009 9,066	80,710	68,79 5,51
Wood and Paper	278,675	7,666 284,120	284,543	288,622	289,567	6,504 230,604	175,74
Iron and Its Products	74,735	74,285	68,754	82,257	78, 590	38,938	15,46
Non-Ferrous Metals	97,476	80,639	90.840	112,778	154.319	95,652	69,07
Non-Metallic Minerals	24,713 17,354	28.881	25,950 17,366	112,778 27,402	28,545 22,468	21,108 12,826	13,45
Chemicals and Allied Products	17,354	16,204	17,366	19,438	22,468	12,826	10,53
Miscellaneous	16,428	18,077	15,036	18,264	20,058	18,116	13,36
Totals,,	1,315,356	1,252,158	1,228,349	1,363,710	l, 120, 258	799.743	576,34
	i '	On.	the Basis	of 1926 Av	erage Val	ues.	
			•	ısands of d			
Agricultural and Vegetable Products. Animals and Their Products	606,059 190,976	590,468 173,307	602,371 160,560	781,889 143,049	452,780 127,201	487,385 86,906	438,85 109,63
Fibres and Textiles	8,940	8,528	13,083	10,505	11,266	10,608	10.54
Wood and Paper	278,675	289,748	200 006	308,999	322,896	270.812	231.67
Iron and Its Products	74,735	74,794	61,319	99,877	91,513	59, 256	20, 10
Non-Ferrous Metals	97,476	82.452	103,167	133,037	163.535	118.576	140,49
Non-Metallic Minerals	24,713	28,657	25,439	26,638	33,515 29,838	22,521 17,571	14,87
Chemicals and Allied Products	17,354	17,143	20.333	23,824	29 838	17,571	16,61
Miscellaneous	16,428	18,588	16,017	20,760	22,952	24,197	23,08
Totals	1,315,356	1,283,685	1,302,285	1,548,578	1,255,496	1,097,832	1,005,87
!		Ind	ex Numbe			ues.	-
			,	1926 = 100.			
Agricultural and Vegetable Products. Animals and Their Products	100-0	94.9	91.6		63 · 5 69 · 7	48·2 43·8	33 ·
Fibres and Textiles	100 · 0		86·8 122·0	83·1 108·3	10t · 4	72.8	61.
Wood and Paper	100.0	102.0	102 1	103 - 6		82.8	63.
Iron and Its Products	100.0	99.4	84-0	110·1	l iŏš∙ž	52.1	20-
Non-Ferrous Metals	100-0	82.7	93.2	115.7	158-3	98-1	70-
Non-Metallic Minerals	100.0	116-9	105.0		145-5		54 -
Chemicals and Allied Products	100.0	93 - 4	100 - 1	113-0		73.9	60-
Miscellaneous	100-0	110-0	91.5	111-2	122 - 1	110-3	81-
Totals,	100-0	95.2	93 · 4	103 - 7	85 - 2	60-8	43.
		In	dex Numb			ies.	
	1		(92 ⋅2	1926 = 109.		I 60-0°	46.
Agricultural and Vegetable Products. Animals and Their Products	100·0 100·0		103 - 3	82-7 111-0	85.0 104.6	96.3	62
Annuats and Taytiles	100-0			92.1	80.5	61.3	52.
Fibres and Textiles	100.0		94.8	93.4	89.7		75.
Iron and Its Products	100.0	99.3	102-3	82-4	85.9	85 ⋅ 2 65 ⋅ 7	76.
Non-Ferrous Metals	100.0	97.8	88-1	81.8	94-4	8 0⋅7	49.
Non-Metallic Minerals.	100.0	100-8	102.0	102-9	85 2	98.7	90.
Non-Metallic Minerals	100-0	94.5	85.4	81.6		73.0	63 -
Miscellaneous	100.0	97.3	93.9	88.0	87+4	74-9	57
Totals	100.0	97.5	94.3	88-1	89.2	72.8	57
		Ind	ex Numbe			me.	
			,	1926 = 100.			
Agricultural and Vegetable Products. Animals and Their Products	100.0		99.4			80-4	72· 57·
	100.0		84·1 146·3	74.9 117.5	66-6 126-0		117-
Animals and Their Products	100.0			110.9	115.9		83
Fibres and Textiles			82.0	133.6	122-4	79-3	26
Fibres and Textiles	100.0	1 1011-1					144
Fibres and Textiles	100.0	100·1			167-8	l 121 ·6∣	144
Fibres and Textiles	100-0	84-6	105.8	136.5	167-8 135-6	121 · 6 91 · 1	60
Fibres and Textiles. Wood and Paper Iron and Its Products. Non-Ferrous Metals. Non-Metallic Minerals.	100·0 100·0	84·6 116·0	105 · 8 102 · 9	136.5	167-8 135-6 171-9		60 95
Animals and Their Products Fibres and Textiles Wood and Paper Iron and Its Products Non-Ferrous Metals Non-Metallic Minerals Chemicals and Allied Products Miscellaneous	100-0	84·6 116·0 98·8	105 · 8 102 · 9	136·5 107·8	135-6	91-1	60 95 140

Section 4.—The Tourist Trade of Canada.1

Tourist Expenditures in Canada.—In recent years the tourist trade has become an important source of revenue in certain sections of the Dominion, materially affecting the balance of trade. It represents the economic disposition of national assets in which Canada is particularly rich, namely; its picturesque scenery; its invigorating climate; its opportunities for hunting, fishing and boating, as well as for winter sports—for the exploitation of which a considerable capital expenditure has been made on hotel accommodation, improved highways and other attractions. Those entering from the United States in automobiles are by far the most important class of tourists. The business accruing to the Dominion in this manner represents some return for expenditures on highways which have been very large in the period since the War (see pp. 682-684). In order to attract this traffic, highways have been built through regions of picturesque scenery, such as the Rocky mountains, northern Ontario and the Laurentians and Gaspé in Quebec. A further asset for Canada arises from the fact that these scenic regions with their invigorating climate are at their best in the summer holiday season when motorists are most ready to travel. The expenditure of travellers coming to Canada from other countries on business has the same effect, so far as its influence on the balance of trade is concerned, as the export of additional commodities would have. Indeed, in so far as commodities are sold to tourists travelling in the Dominion, our exportable surplus of such commodities is reduced.

It is impossible to obtain a direct record of expenditures of this kind. Moreover, even a rough estimate of the total is extremely difficult to make, visitors to Canada being of all classes, engaging in widely different activities or forms of recreation, remaining for varying periods, with expenditures undoubtedly ranging from very small to very large amounts.

The tourists who enter Canada may be divided into three classes: (a) those coming in via ocean ports; (b) those entering from the United States in automobiles; (c) those entering from the United States by rail or steamer. In 1932 these classes are estimated, according to recently revised figures, to have expended in Canada \$10,543,000, \$145,307,000 (equivalent to \$159,838,000 in Canadian funds at average rates of exchange for the period) and about \$38,243,000 (\$42,067,000 in Canadian funds) respectively, or a grand total of approximately \$194,093,000 (about \$212,448,000 in Canadian funds).

The Department of National Revenue records the number of tourists entering Canada in automobiles from the United States through each of the ports of entry along the border. An estimate of the expenditure of this class of tourist according to the provinces by which they entered, shows the following provincial distribution of their expenditure in 1932: Maritime Provinces, \$8,366,830; Quebec, \$35,903,644; Ontario, \$87,482,247; Manitoba, \$1,606,729; Saskatchewan, \$630,769; Alberta, \$613,850 and British Columbia, \$10,622,601.

Expenditures of Canadian Tourists Abroad.—Canadian tourists visiting other countries travel in the main to the British Isles and other European countries on visits home, or as sight-seers. Again, many of them, especially elderly or delicate persons, go to Florida, Bermuda or the West Indies. These tourists may be classi-

¹Abridged from "The Tourist Trade in Canada, 1920-26", and reports for each year from 1927 to 1932 inclusive, published by the Bureau of Statistics and obtainable on application. These reports contain a full explanation of the methods used in making the estimates.

fied in the same three classes as those entering Canada. The total expenditures of such Canadian tourists in other countries were \$57,403,000 in 1932—a decline of \$19,049,000 from the previous year.

Summary.—For the years 1920 to 1932 the total estimated expenditures of tourists from other countries in Canada, as compared with those of Canadian tourists in other countries, are given in Table 23.

23.—Tourist Expenditures in Canada and of Canadians Abroad, 1920-32.

Year.	Estimated Expenditure of Tourists from Other Countries in Canada.	Estimated Expenditure of Canadian Tourists in Other Countries.	Estimated Excess of Expenditure of Tourists from Other Countries.
	*	8	\$
1920	86, 394, 000 91, 686, 000 130, 977, 000 173, 002, 000 193, 174, 000 201, 167, 000 275, 230, 000 279, 238, 009 279, 238, 009 250, 776, 000	84, 973, 000 86, 169, 090 98, 747, 090 108, 750, 090 107, 522, 000 121, 645, 090 100, 389, 000 76, 452, 000 57, 403, 000	88,029,000 107,014,000 102,420,000 129,727,000 167,788,000 187,784,000 174,324,000 155,045,000

Converted into Canadian funds this was the equivalent of \$212,448,003.

It will be noticed that until the depression made itself felt in 1930, while there was a steady increase in the amount spent by tourists from other countries in Canada, the amount spent by Canadians in other countries also tended to increase. Indeed, as compared with the generally depressed state of trade and industry during the past few years, Canada's tourist business has exhibited a surprising vitality. The "favourable" balance accruing from tourist trade grew rapidly in the post-war period to 1929 and has not declined in proportion to commodity trade for the latest two years. The statistics demonstrate how valuable an asset to Canada is her tourist trade, the expenditures of tourists in Canada in 1932 constituting an "invisible" export of greater value than any single commodity exported in the calendar year 1932. If the "invisible" import of expenditure of Canadian tourists in other countries is deducted, the balance still represents an item not exceeded by any other single export.

Section 5.—Balance of International Payments 1920-32.1

"Balance of Trade" figures are frequently misinterpreted due to the persistence of the doctrine long ago exploded that a nation's trade is necessarily in a healthy state when exports exceed imports, necessitating an import of gold to make up the difference. Trade was then said to show a "favourable" balance. This theory only took account of the "visible" or commodity items of trade, whereas the true

^{&#}x27;Abridged from the annual report "Canada's Balance of International Payments", by Herbert Marshall, B.A., F.S.S., Chief of the Internal Trade Branch of the Dominion Bureau of Statistics. This report includes explanatory data on the methods followed in computing these statistics.

balance of a nation's trade can only be known when not only the commodity items are considered, but also the "invisible" items such as interest, freight, immigrant remittances, financial services, tourist traffic, etc. In short, all debit and credit transactions must be set down in order to find out the true balance. If all the visible and invisible items are thus tabulated the debit or credit difference will be a final invisible item—capital import or export—and this will bring the nation's trade account into a state of balance. Thus, the commodity trade balance of a country cannot be understood by itself but only as it is interpreted in the light of the invisible items of a country's international transactions. In the light of such data, it will be found that a so-called favourable or unfavourable balance will mean an entirely different thing at different times in a country's history. The balance of international payments, which takes account not only of commodity trade but of all transactions, reveals the meaning of the trade balance. It shows, for example, that in 1920, 1921 and 1922 our international accounts were balanced by large imports of capital, although our commodity trade balance was favourable in 1920 and 1922. During these years Britain repaid us war funds as follows: 1920, \$104,000,000; 1921, \$128,000,000; 1922, \$84,000,000. From 1923-28, however, the international accounts show a credit balance after allowing for interest payments and maturities, thus denoting capital exports. In these years Canada became temporarily a capital-exporting country. In these latter years, therefore, the explanation of our favourable commodity trade balance was quite different from that for the period, 1894 to 1903, when it was explained by payments of interest and maturities.

From the foregoing it will be seen that an estimated balance of international payments is indispensable to the understanding of trade accounts. It has, however, a great many other important uses, among which the following may be mentioned: (1) to give a comprehensive picture of our international debits and credits and how they are balanced; (2) to show the extent of our international borrowings and lendings; (3) to show the magnitude of individual invisible items, such as interest, freights, tourist traffic, etc., in our international transactions; (4) to explain exchange disturbances and the effect of international financial difficulties; and (5) to furnish data for guidance in the formulation of international fiscal, financial and commercial policy.

As already stated, in the years from 1923 to 1928 Canada became temporarily a capital exporting country. This was the result of abundant funds accumulating in the Dominion owing to three causes. In the first place, there had come into the country during the War about \$1,250,000,000 through the purchase of our commodities at high prices: this was seeking an investment outlet. In the second place. the large investment of United States capital in the Dominion from 1914 to 1920 was now increasing the nation's output. In the third place, successive large harvests at relatively high world prices were a foundation of prosperity. These factors combined, caused an unprecedented accumulation of savings, which was used by financial institutions and individuals not only to finance domestic capital needs, but also to avail themselves of opportunities for profitable investment abroad. The prolonged and extravagant "bull" market in the New York and other United States' stock exchanges culminating in the early summer of 1929 and the high interest rates prevailing in those markets attracted enormous sums to the United States from other countries, including Canada. Thus from 1923 to 1928 we had on balance an export of capital to our credit, though at the same time other countries, particularly the United States, continued to invest large sums in the Dominion.

In contrast to this there were unfavourable balances in 1929 and 1930, considering both visible and invisible items, of \$65,000,000 and \$159,000,000 respectively, while in 1931 the balance was favourable by about \$28,000,000. In the light of all available information, it appears that the balances in 1929 and 1930 represented a net movement of capital into Canada for investment, while that of 1931 represented a net movement outwards. In the latter year, however, the capital export appears to have been in the main not for investment but for the purpose of retiring maturing issues and for repurchases.

Unfortunately, the statistics of current capital movements leave much to be desired, but such as do exist point clearly to the conclusion that there was a movement, on balance, of short and long term funds into Canada in 1929. Short term funds employed by the chartered banks largely in New York, fell from \$188,000,000 at the beginning of 1929 to \$98,000,000 at the end of the year. There was also a considerable repatriation of private short term capital, though no definite information is available as to its amount. The conclusion is warranted that Canadian holdings abroad acted as a shock absorber in reducing the effects of the maladjustment in Canada's balance of payments in 1929, and that the remainder of the task was performed by an inward movement of foreign capital. In 1930 the inflow of foreign capital for investment appears to have played a larger part in the balance of payments, although there was again some repatriation of Canadian funds. The fluctuations of exchange resulting in a net inward movement of gold, the first since 1925, indicated a demand for Canadian funds. In view of the fact that the balance of payments, exclusive of the capital items, was severely against the Dominion. the only means by which this demand could be created was through a considerable influx of capital.

In 1931 the situation with regard to international transactions had undergone another considerable change. The unfavourable commodity balance was reduced to less than \$4,000,000. The invisible unfavourable balance (all items exclusive of commodities, gold and capital) was \$36,000,000, an adverse total of \$40,000,000. There was a net gold export of \$68,000,000. The gold movement, therefore, offset the deficit of \$40,000,000, and, supposing no errors or omissions in the statement, allowed for a capital export of approximately \$28,000,000. Available evidence indicates that this amount consisted in the main of repayment, retirement and repurchase of Canadian securities held abroad.

Declines in the amounts of various items of the statement since 1929 indicate the tremendous effect wrought by the depression upon Canada's international transactions in goods and services. Merchandise exports fell from \$1,200,000,000 in 1929 to \$608,000,000 in 1931. While a large proportion of the decline is explainable in terms of lower price levels, it does represent a huge falling-off in volume. An excellent illustration of the special difficulties presented to Canada by the slump in world prices, is seen in a table of index numbers of imports and exports (pp. 595-596) which shows that Canada, in common with most countries whose exports consist largely of primary products, suffered a greater reduction in the prices of her export commodities than was characteristic of the prices of imported goods. In other words, the purchasing power of Canada's exports declined drastically in 1930, export prices based on declared values in that year declining 17-8 p.c., while import prices declined only 1-4 p.c. From 1926 to 1932 export prices declined $56\cdot2$ p.c. compared to a decline in import prices of $37\cdot6$ p.c.

24.—Estimated Balance of International Payments, 1929 to 1932.

Norm.—Figures for 1920-26 are given at pp. 601-602 of the 1929 Year Book, although these have since been somewhat revised in later estimates. Figures for 1927 and 1928 will be found at p. 501 of the 1932 Year Book.

	19	29.	19	30.	193	31.	19	32.
Item.	Exports, Visible and Invis- ible.	Imports, Visible and Invis- ible.	Exports, Visible and Invis- ible,	Imports, Visible and Invis- ible.	Exports, Visible and Invis- ible.	Imports, Visible and Invis- ible.	Exports, Visible and Invis- ible.	Imports Visible and Invis- ible.
Commodity Trade — Re-	\$	000 \$	000 £	000	900	000 \$	000 \$	000 \$
corded merchandise er- ports and imports Unrecorded imports of	1,208,338	1,298,993	905,370	1,008,479	617,243	628,098	802,801	452, 61
shipe		19,420		7,470	li	500	-	
Deductions for settlers' effects and other non-		1,318,413		1,015.949	617,243 -9,328	628, 596 -16, 751	502,801	·
commercial imports	-11,679		-10,957				-6,526	<u> </u>
Deduction of overvaluation	1,196,659	1,293,799	894,418	992,135	607,915	611,847 5,000	496,275	416,56 22,00
Corrected total of commo- dity trade	1,196,659	1,293,799	894,413	992, 135	607,915	606,847	496,275	438,56
Exports and imports of gold coin and bullion Correction for gold move-	50,598	3,746	25,343	39,062	70,062	2,038	60, 825	2, 17
ment to convert to Can- adian currency		_	~		-	- 1	7,919	
Freight payments and receipts, n.o.p	85,541 309,379	130, 855 121, 645	68,815 279,238	100,908 113,292	49,670 250,776	76,528 76,4 5 2	38,864 212,448	58,86 57,40
Interest payments and receipts	87,886	258,907	88, 220	272,586	70,722	252,076	56,000	248,00
Immigrant remittances Government expenditures	14,036 11,750		14,000 11,750	23,000 10,379	10,051 11,750	13,110 10,960	6, 090 8, 850	7, 12° 10, 37°
and receipts. Government receipts, repa- rations	4,325	- 11,300	4.000	10,013	1,295	-	- 0,000	-
Charitable and missionary contributions	900	1,800	900	1,800	900	1,800	500	1,000
Insurance transactions Advertising transactions Motion picture earnings	31,990 4,000 -	24,418 5,280 3,750	29,483 4,000 —	22, 138 6, 000 3, 750	27,000 3,000 -	20,000 5,000 3,750	24,000 2,000 	17,000 3,500 3,250
Capital of immigrants and emigrants Carnings of Canadian resi-	14,117	11.496	11,083	9,424	5 , 173	3,820	4,416	3,775
U.S.A. (net figure)	13,725	-	3,696	-	1,857	-	750	
Exports and imports of electrical energy ¹ Exchange,London and New	-	-	-	-	-	-	-	
York, on interest and maturity payments and receipts.	-	_	-	_	-	5,000	10,000	23,750
Known omissions such as direct magazine sub- scriptions, artiste and entertainers' receipts,		ı		!				
radio programs, etc	-	_		-	-	5,000		4,000
Difference between all Experts and Imperts ¹ .	6 5,475		159, 533			27,780	-	72,128
Totals							928.927	918,927

Included in Commodity Trade since 1928. 2 Net capital movements and errors and omissions.

In 1932 the balance of payments statement showed credits exceeding debits by approximately \$72,000,000. Of this \$23,000,000 is net capital exports and \$49,000,000 is attributable to errors and omissions. The net capital export was again accounted for largely by the payment of maturities and other debt-reducing transactions abroad. Outstanding features of the statement are the greater relative reduction of commodity imports as compared with exports, gold exports of \$67,000,000 and tourist receipts of \$212,000,000 in Canadian currency. Tourist traffic, gold and the purchase of Canadian securities to the amount of \$150,000,000 were outstanding factors in bringing our international account into balance.

CHAPTER XVII.--INTERNAL TRADE.

This treatment of trade within the Dominion commences with a general statement on interprovincial trade. This is followed by sections dealing with the statistics of the grain trade and of the marketing of live stock and animal products. Statistics of cold storage facilities and of commodities in cold storage are next in order. In the latter part of the chapter will be found sections relating to various administrative services connected with trade, including: the payment of bounties; the granting of patents, copyrights and trade marks; and weights and measures, electricity and gas inspection. The concluding section of the chapter deals with the statistics of wholesale and retail merchandising.

Section 1.—Interprovincial Trade.1

Canada may be divided into the following five economic regions, each deriving its specific character from the predominant occupations of its people:—

- 1. The Eastern Fishing, Lumbering and Mining Region, comprising the river valley and gulf of the St. Lawrence, together with the Atlantic coast; in other words, the greater part of the Maritime Provinces, the northern part of the province of Quebec (excluding the former district of Ungava), and a portion of northern Ontario.
- 2. The Eastern Agricultural and Industrial Region, comprising the cultivated portions of the Maritime Provinces and of the provinces of Quebec and Ontario. In the latter provinces the cultivated areas extend along the banks of the St. Lawrence and its tributaries.
- 3. The Central Agricultural Region, extending from the Red River valley to the Rocky mountains and from the Canadian-United States boundary to about 56° N. lat.
- 4. The Western Fishing, Mining and Lumbering Region, comprising the western portion of the province of Alberta, the whole of British Columbia and the southern portion of Yukon.
- 5. The Northern Fishing and Hunting Region, extending from the regions of permanent settlement northwards, and from the coast of Labrador to the Pacific and to the Alaskan boundary. This vast region is sparsely inhabited by indigenous nomadic tribes engaged in fishing and hunting for their own support or for exchange with the fur-trading companies, and with individual whalers and traders who visit the region.

¹Revised by G. S. Wrong, B.Sc., Chief of the Transportation Branch, Dominion Bureau of Statistics.

Great differences exist between the products of these various regions; even the fisheries and lumber products of the east are quite distinct from those of British Columbia. The needs of the people throughout the country are met to a great extent by the exchange of the products of one region for those of another.

Interprovincial trade in what is now Canada had its beginning, many years before Confederation, in the exchange of the furs and lumber products of Upper and Lower Canada for the fisheries and mineral products of the Maritimes. Indeed, it was thought at the time of Confederation that the coal fields of Nova Scotia would furnish sufficient fuel for the needs of all the eastern part of the Dominion. Later, manufacturers of Ontario and Quebec found markets from one end of the Dominion to the other in exchange for the farm, mineral and other products required by large urban communities and produced principally in western and northern regions. Thus, the principle of comparative advantage is seen operating in the increased trade between the economic regions of the Dominion, a trade which is principally carried on over the railways of the country, but also largely over its waterways. A comparatively new development is the inauguration of sea transport between Eastern Canada and British Columbia via the Panama Canal. (See pp. 702-703.)

A monthly traffic report of the railways of Canada is published by the Transportation Branch of the Dominion Bureau of Statistics showing, for each province and for the Dominion as a whole, the total revenue freight traffic of all railways (not the "on company service" freight), divided into 70 classes of commodities. The data also show the quantity of each class that originated and terminated in each province, and are of use in computing the imports and exports of each province for each of the 70 classes of commodities. These statistics show rail traffic only, a limitation which should be borne in mind in connection with the trade of provinces having water transportation. Summary figures for all commodities are given in Table 1.

The total revenue freight traffic movement on the steam railways of Canada fluctuates to a certain extent with the yield of the crops and with activity in the mining and construction industries involving heavy movements of low-grade freight. The general trend from 1921 to 1928 was upward, increasing from 83,814,436 tons of freight carried in 1921 to 119,227,758 tons in 1928. In 1929, however, a decrease to 114,600,778 tons and in 1930 a further decrease to 95,833,228 tons was reported and, with the continued industrial depression, there have been still greater decreases to 73,837,245 tons in 1931 and to 60,468,093 tons in 1932.

Statements similar to that in Table 1 may be compiled for any of the 70 commodities for which statistics are collected, showing the interprovincial trade by rail in these commodities. For details see "Summary of Monthly Traffic Reports of the Railways of Canada, 1932" obtainable from the Dominion Bureau of Statistics.

 Railway Revenue Freight Traffic Movement in Canada and the Provinces, for the calendar years 1931 and 1932.

		Originating in Canada or Specified Province.		om Foreign tions.	Total Freight Carried.	
Province.	1981.	1932.	1931.	1932.	1931.	1932.
Prince Edward Island Nova Scotia. New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	5,786,663 1,619,468 7,966,254 14,181,196 3,763,454	tons. 148,222 4,343,520 1,187,667 5,509,083 10,632,413 3,308,791 6,095,923 9,133,978 3,154,067	tons, 99,461 552,068 2,902,224 17,567,402 148,409 312,004 187,134 363,302	tons. 357 104,865 424,864 2.419,466 13,019,600 118,392 271,063 99,465 196,357	tons. 243,158 5,886,124 2,171,526 10,868,478 31,748,598 3,911,863 6,459,787 8,209,529 4,337,882	tons. 148,579 4,448,385 1,612,531 8,228,549 23,652,013 3,427,183 6,366,986 9,233,443 3,350,424
Totals	51,735,251	43,813,664	22,101,994	16,654,429	73,837,245	60,468,098
	Terminating in Canada or Specified Province.		Delivered to Connec		Total Freight Terminating.	
Province.	1931.	1932.	1931.	1932.	1931.	1932.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	4,941,677 1,575,705 8,694,610 21,771,633 3,873,804	tons. 202,599 3,702,259 1,262,070 6,053,625 17,621,433 3,324,554 3,503,492 2,809,910 2,224,317	tons. 34,462 321,938 1,084,565 4,045,014 13,298,804 107,832 281,944 5,059 2,864,018	tons, 17, 462 347, 655 792, 808 3, 285, 285 9, 789, 603 228, 713 158, 217 1, 702 3, 758, 897	tons. 294,335 5,263,615 2,660,270 12,739,624 35,070,437 3,981,636 3,635,242 3,276,493 6,004,864	tons. 220,061 4,049,914 2,054,878 9,338,910 27,411,03 3,563,267 3,661,709 2,811,612 5,983,214

Section 2.—Grain Trade Statistics.1

The Canada Year Book, 1922-23, contained on pp. 581-583, an historical summary of the more important points respecting the shipment, inspection and sale of Canadian grain under the Canada Grain Act, and an outline of the Canada Grain Act of 1925 appeared at p. 1017 of the 1925 Year Book. The 1929 amendments were dealt with at pp. 1047-1048 of the 1930 Year Book, and the Canada Grain Act, 1930, at p. 1101 of the 1931 Year Book.

Movement of Canadian Wheat, Crop Year 1931-32.—A résumé of the Canadian wheat movement naturally begins with a description of the crop of the Western Inspection Division. The wheat crop of 1931 marketed in the Western Division during the crop year from Aug. 1, 1931, to July 31, 1932, amounted to 302.7 million bushels. A carry-over of 114.3 million bushels from the previous crop year, together with some minor items, brought the stock of the Western Division to a total for the year of 417.0 million bushels (see the chart on p. 606 for particulars). As for distribution, 241.2 million bushels were commercially disposed of, the chief items of which were 83 million bushels exported to the United Kingdom and 95 million bushels shipped to the Eastern Division. The direct exports to the United States were 4 million bushels and to other countries 41 million bushels. The total shipments from the Western Division were thus 223.5 million bushels. The wheat used by the milling companies for the manufacture of flour amounted to about 17.6 million bushels, of which 12.4 million bushels were ground into flour for domestic consumption. The all-rail movement eastward from the Western Division, including shipments to the Ogilvie Flour Mills Co. at Fort William for grindings, was 120-2 thousand bushels. Lake shipments from Fort William and

Revised by Dr. T. W. Grindley, Chief, Agricultural Branch, Dominion Bureau of Statistics.

Port Arthur were 146·3 million bushels, 95·1 million bushels going to Canadian ports and 51·2 million to United States ports. The shipments to Canadian and American ports represented, respectively, an increase of 38·0 p.c. and a decrease of 32·1 p.c. from 1930-31. The principal Canadian lake ports were those of lake Huron and Georgian bay, with receipts of 22·2 million bushels, and Port Colborne with 24·9 million bushels. Among the United States' lake ports, Buffalo was of chief importance in the handling of Canadian wheat, with receipts by water from Port Arthur and Fort William of 50·1 million bushels. The export of wheat through Vancouver was 74·0 million bushels, as compared with 72·3 million in the previous crop year; 320,000 bushels were exported through Prince Rupert, 518,000 from Victoria, and 545,000 from Churchill. The seed requirements were estimated at 35·8 million bushels, feed for livestock and poultry at 16·9 million bushels, and the stocks at the end of the crop year were 109·0 million bushels.

The Eastern Division received during the crop year not only the eastern crop, estimated at 18.5 million bushels, but also shipments from the West aggregating 95.2 million bushels. The quantity on hand at the beginning of the crop year was 19.6 million bushels, making, with a comparatively small importation from the United States, a total stock entering the Eastern Division of 133.4 million bushels. The distribution included 22.8 million bushels carried over in store into the following year, 51.8 million bushels exported from the St. Lawrence ports, and 2.2 million bushels shipped through the winter ports of Saint John and Halifax. In addition, 33.4 million bushels were cleared for export to the United Kingdom and other countries via the United States Atlantic ports. The chief ports concerned with the movement of Canadian grain from both Divisions were New York, with shipments of 32.5 million bushels, Baltimore with 656,000 bushels, and Portland with 248,000.

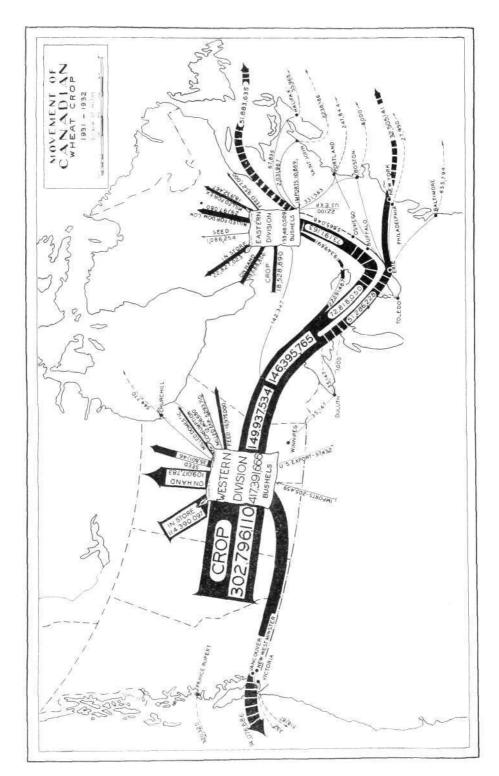
Total exports from Canada to the United States for consumption amounted to 4.4 million bushels, to the United Kingdom 101.5 million bushels, to other countries 76.7 million bushels; 148.6 million bushels were shown to be shipped via Canadian ports and 71.8 million bushels via United States ports, after deducting 15.8 million bushels transhipped from Buffalo to Montreal and adding the same to the Canadian movement. Total exports of wheat from Canada during the crop year amounted to 182.8 million bushels.

Table 3 shows for the licence years 1932 and 1933 the number of railway stations at which elevators are placed, the number of elevators and their total storage capacity, the figures being given by provinces for each class of elevator, with a summary showing the total of all elevators for each province. The growth of Canadian elevators in number and capacity has accompanied the expansion of grain acreage in the present century. Canadian elevators in 1901 numbered 426 with a capacity of 18,329,352 bushels; in 1911 these had increased to 1,909 elevators and 105,462,700 bushels; and totals of 3,855 elevators and 231,213,620 bushels were reached in 1921. Further increases in the last few years have resulted in a total of 5,895 elevators with a capacity of 418,520,460 bushels in 1933.

Table 4 gives summary statistics of the inspections of grain for 1927-32, detailed statistics given in previous Year Books being omitted to save space. The latter may be found in the Reports on the Grain Trade of Canada. Tables 5 and 6 show the shipments of grain by vessel and rail for 1931 and 1932.

Tables 7 and 8 deal with the Canadian grain handled in recent years at Eastern clevators.

^{&#}x27;The latest report is for the crop year ended July 31, 1931, and may be obtained from the Dominion Statistician.



Summary of the Distribution of Grain in Canada, crop year ended July 31, 1932.

					
Item.	Wheat,	Oats.	Barley.	Flax.	Rye.
On Hand, Aug. 1, 1931 In farmers' hands. In Eastern elevators. In flour mills and mill elevators,	bush. 19,459,400 14,344,612	bush. 52,603,500 1,786,218	bush. 17,618,400 1,070,315	bush. 35,800 16,620	bush. 1,403,600 1,849,404
Western Division	5.342,594	1,215,473	963,054	36.032	82,776
Western Division. In country, private and terminal elevators, Western Division. In interior elevators, Western Di-	28,806,758	3,457,504	1,544,512	199,051	1,189,081
In Vancouver elevators. In Prince Rupert elevators	9,576,450	74,553 114,491 -	14,746 24,448 -	104 - -	4,124 18,792
In public and private terminals, Western Division Affoat for unloading at Canadian	45,701,835	2, 137, 994	6,543,377	482,742	9,002,712
ports	2,388,567 2,138,330	530,391	1,316,543	-	715,316
ports. In flour mills. In transit.	4,888,570	761,097 7 50,7 68	85,298 281,023	63,558	151,418
Totals	134,078,963	63,431,989	29,461,716	833,914	14,417,223
2. Crop, 1981.	321,325,000	328,278,000	67,382,600	2,465,000	5.322,000
 Shipped In— From U.S.A. and other countries. Total annual stocks (sum of 1, 2 and 3) Shipped Out— 	216,328 455,620,291	1,936,384 393,646,373	5,286 96,849,602	799,273 4,098,187	19,739,223
To U.S.A	4,473,293	36,940	9,322	245,763	207
and U.S.A. ports. To other countries tia Canadian and U.S.A. ports.	101,564,154	6,819,881	4,758,715	4,872	2,734,404
and U.S.A. ports	76, 765, 935	6,754,290	8,770,188		6,312,527
Totals	182,803,382	13,611,111	13,538,225	250,635	9,047,138
6. Milled consumption. Milled export.	41,608,760 24,226,177	6,904,105 4,718,058	1,083,162 -	1,861,664	132,852 805
Consumed is malting and brewing establishments. Feed for livestock and poultry.	26,502,000	-	4,625,979	-	
7. Totals disposed of commercially (sum of 5 and 8)	275, 135,319 36,887,400	11,622,163 32,871.000	19,197,366 7,515,200	2,112,299 226,850	9, 180, 795 1, 160, 700
9. In store July 31, 1932— In farmers' hands	7,495,800 17,839,890	22,823,000 1,335,807	3,477,000 369,709	7,100 33,790	146,000 1,535,827
In country and private elevators, Western Division. In flour milis and mill elevators. In interior terminals, Western Div. In Vancouver and New Westmin-	27,499,002 6,009,490 103,413	731,029 733,000 4,444	384,830 966,123 4,121	126,113 47,266 1,030	502,278 30,385 263
In Victoria and Prince Rupert In Churchill	8,530,406 1,174,882 2,290,508	477,097	140,881	199 - -	7,983
In public and private terminals, Fort William and Port Arthur	48,683,128	2,727,871	1,296,802	1,040,165	2,542,044
Afloat for unloading at Canadian Ports In flour mills In transit.	6, 597, 843 2, 895, 905 2, 725, 540	252,043 476,995 288,033	378,118 78,735 99,836	35,533 30,162	544,264 37,836 71,835
Totals	131,844,806	29.849.319	7,195,655	1,321,358	5,418,715
10. Totals accounted for (sum 7. 8 and 9).	443,867,525	87,953,593	33,908,221	3,660,507	15,760,210
Losses in cleaning. Grain, not merchantable Balance, merchantable grain fed on farms or otherwise consumed in	5,976,645 2,826,100	1.345.939	188,671 699,200	235.654 65,300	125,067 49,500
and moved out of Canada through other channels	2,950,021 455,620,291 259,051,000	393.646.373	62,053,510 96,849,602 13,339,450 19-8	136,726 4,09 8,187 1,913,000 77-6	3,804,446 19,739,223 5,932,607 11-1
17. Per cent of commercial grain inspected (line 15 of 10). 18. Commercial grain from season's crop (9 and 7-1-3).	58-4	47-8	39-3	52-3	37-6
(9 and 7-1-3). 19. Per cent of crops commercial grain	272, 684, 834	-10,285,780	-3,063,981	1,800,470	182,287
(line 18 of 2)	84-86	71,538,000	15,794,000	73-04 1.282,000	3·42 1,564,000

3.—Number and Storage Capacity of Canadian Grain Elevators, licence years 1932 and 1933.

Note.—Detailed statistics of elevators for the years 1901 to 1918 are given in the 1921 Year Book, pp. 507-509, and the figures for 1919 to 1924 will be found in the 1924 Year Book, pp. 549-550. For 1925 and 1926 see p. 616 of the 1927-28 Year Book, for 1927 and 1928 see p. 630 of the 1929 Year Book, for 1929, p. 624 of the 1931 Year Book and 1930 and 1931, p. 508 of the 1932 Year Book.

District Plant to a A Descina	H	32.	1933.		
Division, Elevator and Province.	Elevators.	Capacity.	Elevators.	Capacity.	
Western Division.	No.	bush.	No,	bush.	
Country Elevators— Manitoba	733	23,375,300	723	23,015,856	
Saskatchewan	3.236	103 098 350	3,238	102, 274, 056	
Alberta British Columbia	1,749 11	65,243,900	1,769 10	66,481,900 349,000	
Ontario	i ii	65,243,900 369,000 40,000	l il	40,000	
Totals, Country Elevators	5,730	192,124,550	5,741	192, 160, 800	
Private Country Elevators—			i		
Manitoba.,	3	50,000	3	100,00	
Saskatchewan Alberta	3 4	66,500 140,000	2 4	53,00 140,00	
			l		
Totals, Private Country Elevators	10	256,500	9	293,00	
Mill Elevators—	10	101 500	6	187 50	
Manitoba Saskatchewan	10 9	181,500 106,500	10	167,50 139,00	
Alberta	5	152,000	8	63,00	
British Columbia	10	800,000 185,000	10	442,00 185,00	
Totals, Mill Elevators	35	1,425,000	30	996, 50	
,		1,120,000	[<u></u>		
Private Terminal— Ontario	7	1,940,000	7	1,940,00	
Manitoba	14	5.317.450	13	4, 292, 45	
SaskatchewanAlberta	6 14	4,585,550	6 15	4,585,50 4,095,00	
British Columbia	i	4,075,000 200,000	ž	570,00	
Totals, Private Terminals	42	16,118,000	43	15,482,950	
Public Terminal—					
Ontario	2 1	9,000,000 2,500,000	2	9,000,00	
Saskatchewan	2 !	11,000,000	2 3	11,000,00	
Alberta	3 3	6,250,000 2,135,000	3 2	6,250,00 1,900,00	
British Columbia					
Totals, Public Terminals	11	30,885,000	9	28,150,00	
Semi-Public Terminal— Ontario	26	83,657,210	25	83,592,21	
Manitoba	_	60,001,215	2	3,500,00 18,758,00	
British Columbia	7	17,058,000	8	18,758,00	
Totals, Semi-Public Terminals	33	100,715,210	35	105,850,21	
EASTERN DIVISION.					
Eastern Elevators— Ontario	18	50,100.000	18	50,100,00	
Quebec New Brunswick	7	21,787,000	7 2	21, 787, 00	
New Brutswick	2 1	1,500,000 2,200,000		1,500,00 2,200,00	
		75,587,000	28	75,587,00	
Totals, Eastern Division		19,201,000		10,000,100	
Summary by Provinces— Nova Scotia	1	2,200,000	1	2,200,00	
New Brunswick	2	1,500,000	2 7	1,500,00	
Quebec Ontario	7 55	21,787,000 144,922,210	7 54	21,787,00 144,857,21	
Manitoba	761	21, 424, 250	747	31,075,80 118,051,55	
Saskatchewan	3,256	118,854,900 75,860,900	3,258 1,794	718,051,55 77,029,90	
Alberta British Columbia	1,775 32	20, 562 ,000	1, 132	22,019,00	
Grand Totals for Canada	5,889	417, 111, 260	5,895	418,520,46	

4.—Quantities of Canadian Grain Inspected during the crop years ended July 31, 1927-32.

			V			
		1926-27.			1927-28.	
Grain.	Western Division.	Eastern Division.	Total.	Western Division.	Eastern Division.	Total.
	bush.	bash.	bush.	bush.	bush.	bush.
Spring wheat	335,994,825 26,500	272,832 550,888			12,889,583 311,247	409,740,98 62 0,12
Totals, Wheat	336, 021, 325	823,720	336,845,045	397, 160, 280	13,200,830	410,361,11
Oats Barley Flax Rye	27, 463, 800 40,537,500 4,703, 650 7,849,000	7, 294, 055	47,831,555 4,703,650	27,834,900 4,116,280	1,122,381 2,067,362 8,727,633	4,116,28 21,087,81
Corn. Buckwheat Peas	3,500 32,000	226,586 10,560	3,500 258,586 10,560 1,000	7,500 8,000	206,498 5,358	l 7.50
Speltz. Screenings. Mixed grains.	1,000 55,000 930,900	-	1,000 55,000 930,900	127,000	1,800	127,00 1,214,40
Totals, Grain	417,597,675	18,859,546	434, 448, 221	481, 402, 600	25,331,862	506,731,46
Grain.		1928-29.		1929-30.		
Spring wheat	465,393,810 856,190	23,218,666 168,206	488,612 476 1,024,396		9,221,538 264,000	228,423,213 1,062,32
Totals, Wheat	466, 250, 000	23,386,872	489,636,872	220,000,000	9,485,538	229, 485, 53
Oats	44,756,500 51,512,000 2,991,600 8,627,000	1,663,425 1,053,564 7,233,431	46,419,925 52,565,564 2,991,600 15,860,431	16,965,000 22,845,000 1,540,000 5,380,000	465,281 35,000 747,656	17, 430, 28, 22, 880, 00, 1, 540, 00, 6, 127, 656
Corn. Buckwheat Peas	1,000	225,572 -	226,572	2,000	53,800 -	55,800
Spelts. Screenings. Mixed grains.	355,000 2,550,500	- -	355,000 2,550,500	105,000 556,150	-	105,000 556,150
Totals, Grain	577,013,600	33,563,864	610,605,464	267,333,150	10,787,275	278, 180, 424
Grain.		1930-31.			1931-32.	
Spring wheat	288, 262, 434 432, 566	8,604,368 231,135	296,866,802 663,701	258,719,120 146,880	15,000 170,000	258, 734, 126 316, 880
Totals, Wheat	288,695,000	8,835,503	297,530,503	258,866,000	185,000	259,051,000
Oats Barley Flax Rye Corn Buckwheat	32,235,000 23,532,000 4,131,500 7,750,000	527, 159 79,800 1,828,771	32,762,159 23,611,800 4,131,500 9,578,771	41,510,000 13,264,000 1,913,000 3,000,000	565,958 75,450 2,932,607	42,075,958 13,339,450 1,913,000 5,932,607
Peas	4,000	235,700	239,700	4,000	6,600 238,496 1,000	6,600 242,496 1,000
Speltz	294,000	-	294,000	244,500	- -	244,500
Totals, Grain	356, 641, 500	11,505,933	269 149 499	\$18,801,500	4,005,111	322,806,111

5.—Shipments of Grain by Vessels from Fort William and Port Arthur for the navigation seasons 1931 and 1932.

		1981.		1932.			
Grain.	To Canadian Ports.	To U. S. Ports.	Total Shipments.	To Canadian Ports.	To U. S. Ports.	Total Shipments,	
Wheat bush. Oats bush. Barley bush. Flasseed bush. Rye bush. Oatscalpings bush.	15,503,856 1,200,061		17,319,522 21,141,416 2,241,661	12,267,186 8,282,333 907,012	47,357,395 31,442 129,058 362,579 1,124,154	8,411,391 1,269,591	
Totalsbusb.	113,335,050	76,971,451	190,30\$,501	147,476,222	43,004,628	198,480,850	
Screeningstons	14,677	22,566	37,243	16,347	2,220	18,567	

6.—Shipments of Grain by Lake and All-Rall Boutes from Fort William and Port Arthur for the crop years ended July 31, 1931 and 1932.

Grain.		1930-31.		1931-32.			
оташ.	Lake.	Rail.	Total.	Lake.	Rail.	Total.	
3773 4	bush.	bush.	bush.	bush.	bush.	bush.	
Wheat— No. 1 Hard	15,185,676		15, 186, 299		1 015	14, 199, 785	
No. 1 Northern No. 2 Northern		885	76,724,528 39,762,857	47,068,695	1,915 1, 5 00	39,591,575 47,070,195	
No. 3 Northern No. 4	5,851,921	517	5,852,438	8,104,082	4,560 8,973	24,428,952 8,113,055	
Other grades	28,019,715				97,859	13,094,732	
Totals, Wheat	174,833,285	299,878	175,133,163	146,383,987	114,307	145,398,294	
Oats	15,910,805 25,000,470		17, 124, 869 25, 059, 237		492,588 12,302	13,800,734 11,163,125	
BarleyFlaxseed	3,353,963	197,882	3,551,845	1,103,455	5,089	1,108,544	
RyeFeed oats, shorts	341,865		3,240,074 417,646	315,416	4,290 4,500	9,734,886 319,916	
Mixed grains	245,546		258,977		10,517	64,599	
Totals, Other Grain.	48,092,671	1,559,976	49,652,647	85,1 62,5 18	529,286	35,691,801	

7.—Canadian Grain Handled at Eastern Elevators, by crop years ended July 31, 1924-32.

Year.	Wheat.	Oats.	Barley.	Flaxseed.	Rye.	Total Grain.
-	bush.	bush.	bush.	busb.	bush.	bush.
Receipts—	i basa.	l Daon,		2232.		
1923-1924	223,719,604	49,154,956	15,562,501	653.807	3,377,790	292, 468, 658
1924-1925			15,991,065	1,506,975	6,229,093	232,025,372
1925-1926	215, 549, 103	62,779,106	32,688,079	1,287,532		
1926-1927	198, 210, 174	24,508,721	32,791,627	1,638,413	4,078,293	
1927-1928	208, 212, 325	27,519,265	17, 123, 686		10,777,836	
1928-1929		38,856,198	27,046,998	1,988,872	10,945,419	
1929-1930		15, 932, 469	8,381,291	658,303	3, 226, 137	
1930-1931		20,874,442	37,555,371	1,710,059	6,226,473	244, 486, 824
1931-1932			1			
Shipments—			15 005 055	40.4 F01	3,237,745	000 900 901
1923-1924	216,711,059	44,512,029	15,297,057	604, 501 1, 449, 328	6,059,319	280,362,391 223,435,302
1924-1925		52,213,123	15,338,397 31,083,209	1.257.545		298, 244, 131
1925-1926	205, 741, 857	57,670,028 22,852,198	32, 277, 421	1,577,210	3,975,862	
1926-1927	189,398,463 192,649,455	25,415,986	17,014,366	2,119,837	10,268,711	247, 468, 355
1927-1928 1928-1929	270, 139, 952	34,671,277	25, 443, 949	1,971,246	9,774,481	342,000,905
1929-1930	111,077,966	13,372,999	6,734,676	657, 101	1,654,237	133, 496, 979
1930-1931	163, 730, 581	19,086,592	36, 485, 055	1.693,439	4,378,874	225, 374, 541
1931-1932	200,100,000		1			,

8.—Canadian Grain Handled at Eastern Elevators, by Classes of Ports, during the crop year ended July 31, 1932.

Ports.	Wheat	Oats.	Barley.	Flaxseed.	Rye.	Total.
Lake Huron and Georgian	bush.	bush.	bush.	bush.	bush.	bash.
Bay Ports— On hand, Aug. 1, 1931	2,973,120	644,660	16,930	15,897	98,281	3,748,888
Receipts-Water	22, 291, 487	2,913,228	374,488	286, 189	736, 955	26,602,347
Total handled	25, 264, 607	3,557,688	391,418	302,086	835,236	30,351,235
Shipments—Water	725,827	73.771	49,651	287,283	835, 236	849,249 23,689,536
Rail Total shipments	19,349,691 20,075,518	2,901,377 2,975,148	815,949 365,600	287,283	835,236	24.538.785
In store, July 31, 1932	5, 189, 089	582,740	25,818	14,803	330,200	5,812,450
Lower Lake Ports—)		Ì	ì
On hand, Aug. 1, 1931	2,190,880	270.077	269, 110	_	422,901	3, 152, 968
Receipts-Water	42,020,320	2,387,074	4,102,930	285,213	3,754,167	52,499,704
Rail	151,423	69,895	11,272		82,700	315,290
Total handled	44,362,623	2,677,046	4.383,312	285,213	4,259,768	55,967,962
Shipments—Water Rail	29,977,727 10,509,973	1,106,435 1,364,116	3,530,457 800,940	81,709 180,017	3,905,873 304,442	33,602,201 13,159,488
Total shipments	40, 487, 700	2,470,551	4,331,397	261,726	4,210,315	51,761,689
In store, July 31, 1932	3,874,923	206, 495	51,915	23,487	49,453	4,206,273
St. Lawrence Ports-						
On hand, Aug. 1, 1931	9,216,268	873,110	784,253	723	719, 266	11,593,620
Receipts—Water	60,652,307	9,289,018	11,121,983	424.917	7,771,815	89,260,040
Rail	9,789,770	178,984	78,427	405 040	504,029	10,546,210
Total bandledShipments—Water	79,658,345 62,279,027	10,336,112 5,567,771	11,984,663 10,486,841	425,646	8,995,110 7,136,580	111,399,870 85,470,219
Rail	8,658,805	4,230,106	1,272,933	425,640	436.012	15,023,496
Total shipments	70,937,832	9.797.877	11,759,774	425,640	7,572,592	100,493,715
In store, July 31, 1932	8,720,513	538, 235	224,889		1,422,518	10,906,155
Seaboard ports						
On hand, Aug. 1, 1931	9,646		18		607,253	616,916
Receipts-Water		***				
Rail Total handled	2,099,802 2,109,448	492,888 492,888	350,326 350,344		513,500	3,456,516
Shipments—Water	2,109,940	192,000 447,946	350,314 350,326		1,120,752 1,120,652	4,073,432 4,028,007
Rail	365	14,765	- 040,020		1,120,002	15,230
Total shipments	2,109,448	462,711	350,326		1,120,752	4,043,237
In store, July 31, 1932	_	30,177	18			30, 195

¹ Buckwheat.

Flour-milling in 1931.—The flour and grist mills industry in Canada in 1931 numbered 1,265 operating establishments, with a capital investment of \$61,069,192 and a total daily capacity of 112,048 barrels of flour. The mills were distributed by provinces as shown in Table 9. Statistics of their employees, value of products, etc., for the latest year available will be found in Table 7 of the chapter on manufactures, p. 424 of this volume.

9.—Flour Mills of Canada, with their Equipment and Capacity, 1931, with Totals for 1938.

Province.	Flour and Grist Mills.	Chopping Mills.	Total Mills.	Rolls.	Stones.	Capacity of Flour Mills.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	No. 15 6 9 77 141 29 45 44 6	No. 3 10 21 275 529 9 15	No. 18 16 30 352 670 38 60 75	pairs. 74 18 66 585 2,228 554 522 699 79	pairs. 12 5 2 153 52 7 15 15	brl. p er day. 706 168 3.26 13.614 55.427 12.090 13.957 14,166 1,394
Totals, 1931	372 383	893 894	1,265 1,277	4,825 5,119	253 248	112,048 117,407

Section 3.—Marketing of Live Stock and Animal Products.1

The estimated value of farm live stock and poultry in Canada in 1931 was \$511.438,000, or 120.3 p.c. of the value of field crops grown during the year. In gross value of product the slaughtering and meat-packing industry, which is dependent chiefly on animal husbandry for its materials, has during recent years been one of the most important single manufacturing industries in Canada.

The Canada Year Book, 1922-23, contained on pages 594-595 a brief historical description of the development and present position of the live-stock industry in the Dominion, with statistics of farm animals compiled from the decennial censuses. 1871 to 1931. A summary of this data is given in Table 10.

10.—Animals in Canada and Animals Killed or Sold by Farmers in Canada, by census years 1871-1931.

Year.	Ani	mals in Cana	da.	Animals Killed or Sold and Wool Sold.				
rest.	Cattle.1	Sheep.	Swine.	Cattle.1	Sheep.	Swine.	Wool,	
1871	No. 2,484,655 3,382,396 3,997,023 5,576,451 6,526,083 8,519,484 7,990,947	No. 3,155,509 3,048,678 2,563,781 2,510,239 2,174,300 3,203,966 3,608,540	No. 1,366,083 1,207,619 1,733,850 2,353,828 3,634,778 3,404,730 4,716,761	No. 507,725 657,681 957,737 1,086,353 1,752,792 ³ 1,616,626 ³	No. 1,557,430 1,496,465 1,464,172 1,329,141 949,0393 1,027,9693	No. 1,216,097 1,302,503 1,791,104 2,497,636 2,771,7553 1,779,2573	lb. 11,103,480 11,300,736 10,031,970 10,657,597 6,933,955 11,338,268	

Figures for 1871-91 do not include work oxen.

*Census taken as of June 1, while previous censuses were taken in April, so that a greater number of

young animals is included.

Animals slaughtered on farms were not included. The following figures are comparable with data given for the previous years (the 1911 amounts being partly estimated).-

	Cattle.	Sheep.	Swine.
1911	1,915,059	1,097,015	4,282,624
1921	2.097.390	1.217.987	2.972.331

In Table 11 are given statistics showing the numbers of animals on farms for the years 1921 to 1932, expressed as percentages of the average numbers for the quinquennium 1921-25.

11.—Index Numbers of Animals on Farms in Canada, calendar years 1921-32. (Average number for 1921-25=100.)

	Animals on Farms.							
Year.	Horses.	Milch Cows.	Other Cattle.	Sheep.	Swine.			
1921	105 · 1	99.9	110-6	121.4	88.9			
1922	100·6	100·2	102·2	107·8	90·3			
1923	97·8	97·8	95·5	91·0	101·6			
1924	98·9	99·7	98·0	88·7	117·0			
1925	98·0	102·5	93·7	91·0	102·1			
1926	93·7	102·7	80-9	103 · 8	100-6			
1927	94·8	103·8	90-1	107 · 8	108-3			
1928	93 · 1	101·1	85·3	112·9	103-8			
1929	93 · 1	98·5	87·9	120·1	101-1			
1930.	90·8	98·5	89·8	122·1	92·3			
1931.	86·3	90-0	79·1	119·2	108·8			
1932	85.2	96.9	83.6	120.4	107.0			

Live-Stock Marketings, 1931.—The numbers of cattle and hogs sold at stockyards showed increases of 39,953 and 180,143 respectively in 1931 as compared with 1930. Cattle sold numbered 646,442 in 1931, 606,489 in 1930, 799,435 in 1929, 875.428 in 1928 and 958.872 in 1927. The total numbers of hogs sold were 1,084,582

^{&#}x27;Revised by Dr. T. W. Grindley, Chiel, Agricultural Branch, Dominion Bureau of Statistics. For more detailed information on this subject see "Live Stock and Animal Products Statistics", published annually by the Dominion Bureau of Statistics, also "Live Stock Market and Meat Trade Review", published annually by the Live Stock Branch of the Dominion Department of Agriculture. See also the material in Chapter VIII under the heading "Farm Live Stock and Poultry"

in 1931, 904,439 in 1930, 1,060,542 in 1929, 1,090,316 in 1928, and 1,117,555 in 1927. Sales of calves decreased from 311,756 in 1930 to 307,082 in 1931, and sheep sales increased from 483,645 in 1930 to 527,102 in 1931.

Table 12 shows the receipts for sale at the various stockyards and a partial disposition of the live stock sold in 1930 and 1931.

12.—Total Receipts of Live Stock and Disposition of Slaughter and Store Stock at Principal Markets in Canada, calendar years 1939 and 1931.

		19	30.		<u> </u>	19	31.	
Market and Classification.	Cattle.	Calves.	Hogs.	Sheep and Lambs.	Cattle.	Calves.	Hogs.	Sheep and Lambs.
	No.	No.	No.	No.	No.	No.	No.	No.
Toronto— Receipts (Totals)	276, 184	103,415	195,557	208,378	277, 129	105,399	194,508	219,960
Shipments— I. Slaughter Stock to Packers	200,638	49,925	181,815	159, 469	189,996	52,423	169,400	166,227
2. Slaughter Stock to Butchers 3. Store Stock to Country	24,097	22,586	8,470	40,278	29,645	32,401	18,667	42,995
Points. Montreal (Pt. St. Charles)—	45,681	10,943	_	-	50,234	8,827	-	
Receipts (Totals) Shipments—	52,246	107,903	144,669	136,380		102,566	184,683	147,168
Slaughter Stock to Packers. Slaughter Stock to Butchers Store Stock to Country	44,213 14,061	45,657 62,726	86,807 86,357	92,812 39,408	44,848 13,015	36,217 64,357	110,441 106,990	102,929 44,301
Points	-	747	-	-	- ,	-	•	
Montreal (East End)— Receipts (Totals) Shipments—	11,697	28,302	18,734	12,206	12,341	30,420	24,660	14,397
1. Slaughter Stock to Packers. 2. Slaughter Stock to Butchers	3,826 7,548	7,679 21,835	2,949 15,841	4,411 7,781	2,586 10,085	3,741 26,014	5,923 21,002	4,797 9,400
3. Store Stock to Country Points	-	ĺ		_	_	_	_	.,
Winnipeg— Receipts (Totals)	155,623	41,531	242,003	60,768	200,935	45,828	358,146	81,500
Shipments— 1. Slaughter Stock to Packers. 2. Slaughter Stock to Butchers	91,816 3,378	30,569 3,815	114,251 9,539	52,665 2,469	121,200 335	36,022 299	268,615 1,149	77, 140 68
3. Store Stock to Country Points.	36,121	3.033	2,000	2,100	38,752	3,825		~
Calgary— Receipts (Totals)	47,632	13, 101	95.091	23,780	42,261	8,670	83,742	20,878
Shipments— 1. Slaughter Stock to Packers.	48,277	352	86,015	19,489	38.330	220	73,813	17,670
 Slaughter Stock to Butchers Store Stock to Country 	2,211	85	350	166	2,759	4	474	680
Points Edmonton—	8,381	-	-	-	8,645	-	-	
Receipts (Totals) Shipments—	33,884	11,425	85,436	15,118	34,190	8,678	101,062	14,289
1. Slaughter Stock to Packers. 2. Slaughter Stock to Butchers 3. Store Stock to Country	21,096 2,356	8,779 1,896	59,116 5,404	9,156 4,454	20,357 1,304	6,345 718	73,320 4,159	11,068 2,167
Prince Albert—	9,741	707	-	-1	9,565	1,355	-	
Receipts (Totals)	3,722	563	24,236	898	3,233	415	26,140	935
 Slaughter Stock to Packers, Slaughter Stock to Butchers 	1,726 174	294 42	22,530 140	620 72	1,697 220	278 65	24,022 373	878 43
3. Store Stock to Country Points	1.735	177	- 1	-	1,111	85	_]	
Moose Jaw— Receipts (Totals) Shipments—	17,402	3,684	37,245	23,352	13,833	2,900	30,306	23,092
1. Slaughter Stock to Packers. 2. Slaughter Stock to Butchers	10,340 46	2,063 22	27,575 35	13,037 6	9,767 34	1,414 17	21,878 62	14,953 57
3. Store Stock to Country Points	5,466	1,350	-	_	3,301	1,397	_	
Saskatoon— Receipts (Totals) Shipments—	8,099	1,832	61,468	2,765	9,875	2,206	81,335	4,883
 Slaughter Stock to Packers. Slaughter Stock to Butchers 	3,857 1,820	1,101 587	46,926 3,218	1,994 528	8,757 1,554	1,357 430	69,203 2,189	3,497 703
3. Store Stock to Country Points	1,709	65	_	_1	2,004	129	-	

The interprovincial and export movement of live stock in 1931 shows a fallingoff in calves, but an increase in cattle, swine and sheep. Total shipments in 1931
with comparative figures for 1930 in parentheses were as follows: cattle 329,271
(258,365); calves 94,906 (105,966); swine 815,275 (696,258); and sheep 158,830
(144,018). Saskatchewan was the largest shipper in the aggregate and also the
largest shipper of cattle, reporting 106,827 cattle, 18,821 calves, 261,258 swine and
38,619 sheep. Alberta led in swine and sheep shipments and Ontario in shipments
of calves.

The marketings of live stock through stockyards, by direct shipment to packers, or by export according to provinces of origin for the calendar year 1931 are given in Table 13. In Table 14 are given the statistics of the grading of animals from five provinces marketed through the stockyards in 1931.

13.—Live Stock from Several Provinces of Canada, Marketed through Stockyards, Packers, etc., calendar year 1931.

Live Stock.	Maritime Provinces.	Quebec.	Ontario.	Manitoba.	Saskat- chewan.	Alberta.	Total.
	No.	No.	No.	No.	No.	No.	No.
Cattle— Totals to stockyards Direct to packers Direct for export	353 1,140	26,888 202 1,259	281,116 22,736 11,413		129,376 5,062 2,481		625,881 50,565 23,050
Totals, Cattle	1,493	28,349	315,265	95,136	136,919	122,334	699,496
Calves— Totals to stockyards Direct to packers Direct for export Totals, Calves	1,343 191 1,534	85,917 13 242 86,172	16,899 1,739		1,473 53	18,157 14,848 8 33,013	302,185 34,091 2,288 338,599
Hogs— Totals to stockyards Direct to packers Direct for export		84,758 27,128 31				295,588 427,754 10	1,173,430 1,469,489 453
Totals, Hogs	19,381	111,917	1,121,162	268,710	398,850	723,352	2,643,372
Sheep— Totals to stockyards Direct to packers Direct for export	14,819 190 170	146,039 - 2	213,506 51,806 666	3,817	54,027 4,647	67,553 41,071 162	543,160 101,581 1,000
Totals, Sheep	15,179	146,041	265,978	51,033	58,674	108,786	645,601
Store cattle purchased	-	929	91,790	12,651	9,321	15,522	130,213

14.—Grading of the Live Stock from several Provinces of Canada, Marketed at the Stockyards, calendar year 1931.

Live Stock and Grade.	Maritime Provinces.	Quebec.	Ontario.	Manitoba.	Saskat- chewan.	Alberta.	Total.
i. Cattle—	No.	No.	No.	No.	No.	No.	No.
Steers up to 1,050 lb.—							
Good and choice	28	199	16,353 39,380	6,203 10,295	7,760 14,855	8,794 7,657 6,789	39,31 73,28 42,73
Common	1 21	1,074 2,863	14,293	7,404	11,367	6,789	42.73
Steers over 1,050 lb.— Good and choice.				1 1			4
Good and choice	114 55	1,469 1,516	21,248 25,735 2,786	4,428 3,827	8,024 8,302	11,635 7,204	46,91 46,72
Medium	29	423	2,786	907	1,805	7,294 3,649	9,59
Heifers -	1 6						I
Good and choice Medium		237 429	11,677 33,049	4,878 5,545	6,743 7,981	3,454 2,769	26,99 49,78
Common	. าก	1,099	12,012	3,088	3,765	2,357	22,33
Fed Calves—	l		F 415	i 1			
Good and choice		26 28	7,415 7,502	2,157 1,443	2,448 1,834	2,027 3,163	14,07 13,97
Cows—	1 i		-				
Good	23 31	1,659	13,510 17,841	3,818	4,876	5,563	29,44
Medium	31	3,216 1,800	17,841 12,614	6,779 2,543	6,294 2,308	2,403 1,509	86,06 20,77
Common Canners and Cutters	3	5,101	10,387	1,282	1,104	908	18,78
Bulls	ا, ا	i				F10	
Good	8	411 2,584	2,794 6,834	700 912	771 1, 1 52	518 724	5,19 12,21
Common	.] "[2,001	0,003		1,102		1
Good	! - ∤	298	8,803	10,381	15,772	7,741	42,99
Common Stock Cows and Heilers—	l -i	1,012	12,502	8,907	11,827	6,832	41,08
Good	-	_ {	40	2,756	3,576	3,222	9,59
Common	~	8	41	2,017	2,565	1,565	6,19
Milkers and Springers Unclassified	-	1,095 341	3,807 993	617 886	428 3,819	291 5,508;	6,23 11,54
Ouclass neu	i				3,019	0,300,	11,02
Totals	353	26,888	281,116	91,776	123,276	96,372	625,8 8
	l i	1					
. Calves, Veal—	اب. ا		40.000	11 500			96 10
Good and choice	15 152	7,212	49,080 97,453	11,520 15,237	9,373 15,231	7,928 10,163	85,12 165,16
Grass		36,933 41,772	87,453 8,594	30,20	277	66	51,88
Totals	1,343	85,917	145,127	26,760	24,881	18,157	302,18
				i			
. Hogs— Select bacon	ا		46 505	05 604	^^ ***	00.000	
Bacon	141 594	5,652 20,585	66,737 131,319	25,626 63,888	29,387 95,944	22,878 83,191	150,42 395,52
Butchers	935	31,561	54.9 33	63,888 27,201	98,578	150,903	364, 11
Heavies	183	3.174	6,401 1,582	6,856	14,200	8,158	38,97
Extra beavies Lights and feeders	102 736	1,927 20,294	16,505	3,584 36,704	7,216 68,016	1.948 22.228	16,359 164,48
50wa No. 1	1 761	631	1.220	5,902	14,507	22,228 3,250	25,58
Sowe No. 2	82	762	4,057	3,034	4,678	2,716	15,32
Roughs Stags	7 22	96 76	226 367	240 222	636 440	87 229	1,29 1,35
			283,347		 1-		
Totals	2,878	84,758	200,411	173,257	233,442	295,588	1,172,43
. Lambs and Sheep -	<u> </u>					j	
Lambs	; l						
Good handyweights	7, 124	80,739	162,486	29,090	25, 185	31,257	335,88
Good heavies	359 5,412	7,219 34,528	4,647 25,413	2,583	11,868 6,433	4.117	30,793
Common, all weights	1,404	14,837	3,057	12,580 139	471	6,023 178	90,38 20,08
Sheep-	1 ' ' 1			ſ	i	- 1	•
Good heavies	16 203	808	4.744	2 200	1,126	356	7,18
Good handyweights	301	4,411 3,221	10,036 2,982	1,662 1,074	1,692 4,935	3,243 1,317	21,24 13,83
Common Unclassified	-	276	141	1,073	2,317	21,062	23,60
Totals	14,619	146,039	213,506	47 546			
LUGAS	12,010	120,007	610,000	47,216	54,927	67,553	543,16

Slaughtering and Meat Packing.—This industry has become one of the most important branches of manufacturing in Canada. Its growth, shown by the statistics of Table 15, has been accompanied by a concentration of the major part of the production of the industry into a comparatively small number of large establishments, thereby facilitating the utilization of by-products and greater efficiency of operation. In 1931, the latest year recorded, the large increase in the number of establishments is due to the inclusion of wholesale butchers operating small plants engaged in slaughtering only. These small establishments did not add more than 4 p.c. to the total output of the industry in 1931. The numbers of live stock slaughtered at Canadian inspected establishments in 1931 and 1932 are shown in Table 16.

15.—Principal Statistics of the Slaughtering and Meat-Packing Industry of Canada, decennially 1871-1921, annually 1926-31.

					_	
Description.	1871,	1881.	1891.	1901.1	1911.1	1921.
Establishments. No Capital invested. \$ Employees. No Salaries and wages. \$ Cost of materials. \$ Value of products. \$	193 419,325 841 145,376 2,942,786 3,799,552	3, 163, 576	527 2,173,077 1,690 503,053 5,554,246 7,125,831		40,951,761	58,459,555 9,711 13,547,776 113,389,836 153,136,289
Description.	1926.	1927.	1928.	1929.	1930.	1931.
Establishments No. Capital invested. \$ Employees. No. Salaries and wages \$ Cost of materials \$ Value of products \$	73 55,712,724 10,685 13,757,638 139,200,096 167,127,091				129,004,327	9,294 11,626,678 91,276,842

¹Figures for this year cover establishments employing five hands and over only.

*The increase in 1931 is due to the inclusion of a large number of wholesale butchers engaged in slaughterionly. The combined output of their small establishments did not amount to more than 4 p.c. of the whole industry in 1931.

16.—Live Stock Slaughtered at Canadian Inspected Establishments, by months, 1931 and 1932.

Month.		193	1,	1		193	2.	
month.	Cattle.	Calves.	Sheep.	Hogs.	Cattle.	Calves.	Sheep.	Hogs.
	No.	No.	No.	No.	No.	No.	No.	No.
January	53, 193	15,383	37,301	165,902	47,875	17,305	48,272	263,785
February	40,979	17,828	32,443	161,161		22,679	34,712	239,921
March	47,917	36,594	31,553	153,883	44,505	43,253	37, 105	232,873
April	48, 107	52,644	26,905	172,315	43,302	46,612	29,874	229, 124
May	50.927	51.618	22,905	157.831	44, 156	51.240	23,204	254,836
June	47,673	44.261	55.889	163,951	41.818	43, 171	50.198	247,722
July,	45,794	31.021	70,858	148,255	41.228	32,252	64,009	191.577
August	48,508	29, 195	80.920	161,664	47, 184	31,598	85,839	189,253
September	52.446	28, 107	116.930	204,493	52, 174	29,450	101,155	166,352
October	85. 179	25,117	192,571	246,950	50,408	27,248	145.584	189, 222
November	52,668	22, 158	98,077	259,110	56,038	23.722	118,882	249.858
December	48,645	17, 150	54,539	247,250	45,075	14,919	49,388	268,300
Totals	592,036	371,076	820.891	2,242,765	553,142	383,449	788,222	2,722,820

Consumption of Animal Products.—The consumption of meats in Canada in 1931 is estimated at 600,987,458 pounds of beef, 866,129,150 pounds of pork and 73,045,572 pounds of mutton and lamb. The per capita consumption of beef on this basis amounts to 57.93 pounds; pork, 83.49 pounds and mutton and lamb, 7.04 pounds, a total of 148.46 pounds of meats per capita per annum. The corresponding data for other animal products are as follows: butter, 320,521,885 pounds and 30.90 pounds; cheese, 36,364,669 pounds and 3.51 pounds; eggs, 311,396,473 dozen and 30.02 dozen, and poultry 112,688,797 pounds and 10.87 pounds. Details are given in Table 17.

17.—Total and Per Capita¹ Consumption of Meats and Live-Stock Products in Canada, calendar years 1927-31

Canada, calendar years 1927-31											
1927.	1928.	1929.	1930.	1931.							
BEE	F.										
1,993,454 707,676,170 249,897	1,948,790 691,820,450 2,519,091	1,953,399 693,456,645 5,285,412	1,903,890 675,880,950 3,631,176	604,350,22							
707,926,067 56,741,800	694,339,541 47,136,700	698,692,057 31,230,800	679,512,126 8,086,600								
651,184,267 67·59	647,202,841 65-82	667,461,257 66-57	671,425,526 65·79	600,987,45 57-9							
POR	к.	•	,								
5,964,827 847,005,434 10,706,633	834,973,632	816,090,188	5, 247, 687 745, 171, 554 19, 631, 665	6, 186, 82 878, 529, 15 5, 138, 40							
857,712,067 82,581,700	848,948,774 52,354,100	837,596,458 38,957,400	764,803,219 20,475,400	883,667,55 17,538,40							
775, 130,367 80-45	796,594,674 81-01			866, 129, 15 83 - 4							
UTTON AN	ND LAMB.										
1,450,222 58,608,880 1,946,037	1,528,386 61,135,440 2,332,571	1,625,508 65,020,320 4,401,258	1,661,734 66,469,360 4,411,771	1,802,113 72,084,600 1,293,67							
59,954,917 1,889,200	63,468,011 1,127,800	69,421,578 573,300	70,881,131 241,500	73,378,272 332,700							
58,065,717 6.03	62,340,211 6·34	68,848,278 6·87	70,639,631 6·92	73,045,57 7-0							
CAPITA C	ONSUMPTI	ON, ALL B	IEATS.								
67+59 80-45 6-03	65-82 81-01 6-34	66·57 79·65 6·87	65·79 72·93 6·92	57·93 83·49 7·04							
154-07	153 · 17	153-00	145-64	148-40							
BUTTI	ER.										
	1		l								
14,548,427 176,978,947 95,000,000 11,208,819	21,609,123 168,027,039 90,000,000 16,801,656	13,765,942 170,810,230 86,000,000 35,928,249	13,689,985 185,751,061 96,500,000 38,606,055	22,171,213 225,955,246 104,640,000 2,821,317							
176,978,947 95,000,000	168,027,039 90,000,000	170,810,230] 88,000,000	185,751,061 96,500,000	225,955,246 104,640,000 2,821,317 355,587,776							
176, 978, 947 95, 000, 000 11, 208, 819 297, 736, 193	168,027,039 90,000,000 16,801,656 296,437,818	170,810,230 88,000,000 35,928,249 308,524,421	185,751,061 96,500,000 38,606,055 334,547,101	225,955,246 104,640,000							
	1927. BEE 1,993,454 707,676,170 707,926,087 56,741,800 651,184,267 67.59 POR: 5,984,827 847,003,434 10,706,633 857,712,067 82,581,700 775,130,367 80-45 UTTON AN 1,450,222 58,008,880 1,946,037 59,954,917 1,889,200 58,065,717 6-03 CAPITA C	1927. 1928. BEEF. 1,993,454 031,820,450 031,820,450 047,136,700 047,136,700 055.82 PORK. 5,964,827 67.59 647,202,841 07.706,8434 134,973,632 10,706,632 13,975,142 857,712,067 82,581,700 52,354,100 775,130,367 796,594,674 81.01 UTTON AND LAMB. 1,450,222 1,528,386 01,134,940, 72,332,571 59,954,917 63,465,011 1,127,800 58,065,717 6-03 62,340,211 6-34 CAPITA CONSUMPTI	BEEF. 1.993, 454 1,948,790 693,456,645 693,456,645 707,676,170 691,520,450 693,456,645 707,926,067 694,339,541 698,692,667 656,741,800 47,136,700 31,230,800 651,184,267 647,202,841 667,461,257 67.59 65.82 667,461,257 66.87 67.59 65.82 667,461,257 66.87 67.59 65.82 667,461,257 66.87 67.59 67.59 67.59 67.400 775,130,367 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,658 796,594,674 798,639,688 796,594,694,694,694,694,694,694,694,694,694,6	BEEF. 1.993,454 1,948,790 1,953,399 1,903,890 693,456,645 675,880,950 5,235,412 3,631,175 656,741,800 47,136,700 31,230,800 8,086,600 651,184,267 647,202,841 667,461,257 671,425,526 65.79 658,612,126,6270 658,612,126,6270 658,612,126,6270 658,612,126,6270 658,612,126,6270 657,425,526 65,747,114 5,247,687 65,79 658,712,067 848,948,774 837,596,458 746,171,554 10,706,633 13,975,142 21,506,270 19,631,665 657,712,067 848,948,774 837,596,458 764,803,219 82,581,700 52,354,100 38,957,400 20,475,400 775,130,367 796,594,674 798,639,058 744,327,819 79-65 79-65 741,771 541,771 541,60,370 23,325,771 4,401,258 746,171,771 541,60,370 2,332,571 4,401,258 4,411,771 59,954,917 63,466,011 69,421,578 70,639,631 6,34 6,37 6,03 6,34 6,37 6,92 65,492 66,469,360 1,276,037 6,346,011 69,421,578 70,639,631 6,34 6,37 6,92 6,340 6,340 6,87 6,92 6,497 6,92 6,340 6,340 6,87 6,92 6,340 6,340 6,87 6,92 6,340 6,340 6,87 6,92 6,340 6,340 6,87 6,92 6,340 6,340 6,87 6,92 6,340 6,942 6,87 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92 6,92							

¹For estimates of population upon which per capita figures are calculated, see p. 145.

17.—Total and Per Capita¹ Consumption of Meats and Live-Stock Products in Canada, calendar years 1927-31.—concluded.

Canada, calendar years 1921-31.—concluded.											
Item.	1927.	1928.	1929.	1930.	1931.						
	СНЕЕ	SE.									
On hand, Jan. 1. lb. Production—Factory. " Home-made " Imports. "	23,302,298	20,344,826	18,464,126	12,076,024	16,529,556						
	138, 05 6,908	144,584,619	118,746,286	119,106,203	113,956,639						
	500,000	500,000	490,000	845,900	901,300						
	1,720,797	1,778,761	2,103,724	1,787,776	1,446,147						
Exports	163,579,998	167,708,206	139,804,136	133,814,903	132,833,642						
	110,533,000	114,152,500	92,946,100	80,163,700	84,788,400						
On hand, Dec. 31	53,046,998	53,555,706	46,858,036	53,651,203	48,045,242						
	20,844,826	18,464,126	12,076,024	16,529,556	11,680,573						
Totals, consumption	32,202,172	35,091,580	34,782,012	37,121,647	36,364,669						
	3·34	3·57	3-47	3.64	3·51						
_	EGG	8.									
Production—Farm. doz. Other. " Imports "	253,277,227	268,868,857	274,317,872	278,255,753	286,882,447						
	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000						
	4,576,671	3,016,702	1,086,664	4,080,560	148,166						
Exports "	282,853,898	296,885,559	800,404,536	307,336,313	312,030,618						
	448,206	988,484	1,147,829	188,905	634,140						
Totals, consumption	282,405,692	295,897,075	299,256,707	307,147,408	311,396,473						
	29·31	30-09	29·85	30.09	30-02						
	POULT	RY.									
Poultry—On farms No Elsewhere "	50,178,485	53,779,539	59,932,968	60,795,000	65,468,000						
	7,082,000	7,082,000	7,082,000	7,082,000	5,647,000						
Totals "	57,260,485	60,861,539	67,014,963	67,877,000	71,115,000						
Marketings " Estimated dressed weight lb. Exports "	16,497,025	17,470,580	19,246,899	19,376,000	19,803,450						
	96,782,064	102,409,964	113,105,085	113,607,350	113,729,700						
	4,557,045	4,618,298	4,431,849	1,307,080	1,040,903						
Totals, consumption	92,225,019	97,791,666	108,673,236	112,300,270	112,688,797						
	9-57	9-95	10·84	11.00	10·87						

¹For estimates of population upon which per capita figures are calculated, see p. 145.

Interprovincial and International Trade in Meats.—The shipments of meats and meat products out of each province are shown in Table 18. These shipments include both those to other provinces and exports, of which the interprovincial movement is much the greater in every item except cured pork. However, from the provinces of Prince Edward Island, Nova Scotia and British Columbia the shipments for export were the more important movement. Total shipments from Manitoba were larger than from any other province.

Information regarding this traffic may be found in greater detail at pp. 52-61 of the report on "Live Stock and Animal Products Statistics, 1931", obtainable on application to the Dominion Bureau of Statistics.

18.—Provincial Shipments of Meat Products, with Total Interprovincial and Export Shipments, calendar year 1931.

Province.	Beef.	Veal.	Mutton and Lamb.	Pork, Fresh.	Pork, Cured.	Lard.	Lard Com- pound.	Total.
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	1b. 322,087 3,968,703 16,528,770 21,465,563 2,379,118 3,705,838 316,840	477,520 200,320 662,591 17,691 1,520,125	4,872 135,068 535,098 915,898 766,034 88,478 755,444	48,961 2,485,762 707,564 7,352,216	19,451 3,745 3,958,096 8,999,745 4,305,513 387,781 5,752,773	1,253,089 7,759,116 3,760,820 48,179 3,735,633	856,581 538,179 1,022,510	47, 151, 991 74, 695, 535 5, 273, 390 29, 034, 334
Canada. Totals, Interprovincial shipments. Totals, Export shipments.	45,445,938	2,636,640	2,856,413	13,368,321		12,843,372	1,966,960	199, 925, 849 157, 910, 168 32, 115, 681

Includes miscellaneous products not specified.

Export and Import Trade in Live Stock and Live-Stock Products.—The exports of live stock and live-stock products from the Dominion to the United Kingdom, the United States and all countries, are shown for the four fiscal years ended Mar. 31, 1929-32, in Table 12 of the chapter on External Trade, at pp. 528-534, and imports in Table 13 at pp. 552-556. Exports and imports are also available by calendar years 1927-31, and may be found on pp. 83, 85 and 86 of the report on "Live Stock and Animal Products Statistics, 1931". At pp. 302-320 of the report on "Trade of Canada (Imports for Consumption and Exports), Calendar Year 1931" figures are given of exports of "Animals and Animal Products" for 1930 and 1931 and imports of this class for the same calendar years will be found at pp. 93-113 of the same report.

Section 4.—Cold Storage.

Cold Storage Warehouses.—Under the Cold Storage Act, 1907 (6-7 Edw. VII, c. 6), now consolidated as c. 25, R.S.C., 1927, subsidies have been granted by the Dominion Government towards the construction and equipment of cold storage warehouses open to the public, the Act and regulations made thereunder being administered by the Department of Agriculture. Table 19 shows for 1932 the number of cold storage warehouses in Canada, with the refrigerated space. The latter amounts to 51,724,910 cubic feet, of which 9,083,225 cubic feet apply to 52 warehouses subsidized under the Act, while 42,641,685 cubic feet apply to 495 non-subsidized warehouses.

19.—Cold Storage Warehouses in Canada, by Provinces, 1832.

Note.—The figures in this table are supplied through the courtesy of J. F. Singleton, Dairy and Cold Storage Commissioner, Dominion Department of Agriculture.

		Subsidized Pu	iblic Wareho	U206.	Totals.		
Province.	Num- ber.	Refriger- ated Space.	Cost.	Total Subsidy,	Num- ber.	Refriger- ated Space	
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon	23 1 4 2	cub. ft. 212,358 1,957,197 781,161 317,474 3,067,236 27,500 437,596 351,059 1,931,644	\$ 66, 970 2, 596, 965 192, 577 315, 787 1, 361, 384 32, 000 268, 707 242, 000 1, 691, 471	\$ 20, 091 779, 000 57, 773 127, 136 393, 415 9, 600 80, 612 72, 600 507, 441	7 22 24 90 197 50 49 30 77	eub. ft. 276,665 2,617,900 1,083,214 11,500,186 16,458,191 5,512,374 2,020,417 4,263,418 7,947,640	
Totals	52	9, 683, 225	6,767,861	2,647,758	547	44,90 51,724,91	

Month.

Cold Storage Stocks.—Statistics of the stocks of food in the cold storage warehouses of Canada are collected and published monthly by the Agricultural Branch of the Dominion Bureau of Statistics. A summary of the cold storage data is included in the report on "Live Stock and Animal Products Statistics", published annually. In Table 20 are included statistics, by months for 1931 and 1932, of the stocks of food in cold storage and in process of cure for various important commodities.

20.—Stocks of Food on Hand in Cold Storage and in Process of Cure, by Months and Commodities, 1931 and 1932.

Note.—Figures in this table are of stocks on hand on the first of each month as published by the Agricultural Branch, Dominion Bureau of Statistics.

Cheese.

Butter.

Beei.

Fresh.

In Process of Cure,

							Or Care,
January. February. March April May June July August September October. November. December. January. March April May June July August September October. November. December. January. March April May June July August September October. November. December.	12.	7,544,226 5,945,223 3,719,335 4,969,360 9,880,622,7 18,682,751 19,082,461 19,618,350 17,97,366 18,408,885 8,981,750 6,192,318 4,621,184 2,699,982 2,888,539 12,378,565 5,144,842 15,469,067 16,239,783 15,493,296 11,782,461	22, 171, 213 17, 337, 952 11, 588, 652 6, 785, 810 5, 264, 106 8, 701, 986 20, 933, 554, 403 33, 214, 532 40, 400, 552 41, 078, 798 31, 672, 938 24, 385, 391 10, 376, 921 4, 539, 621 4, 539, 621 4, 539, 621 2, 848, 363 4, 438, 949 30, 221, 357 25, 050, 793 30, 221, 357 22, 31, 316, 479 26, 470, 181	16, 529, 556 14, 643, 787 13, 206, 845 11, 792, 927 10, 379, 132, 206 19, 085, 500 29, 830, 929, 21, 082, 571 14, 296, 818 12, 640, 692 11, 680, 573 10, 207, 985 7, 936, 046 7, 663, 337 7, 585, 941, 322 17, 64, 008 20, 426, 726, 119, 314 21, 764, 008 20, 426, 726, 119, 314 21, 764, 008 20, 426, 726, 13, 228, 723	10, 828, 595 10, 531, 854 9, 031, 127 8, 440, 235 7, 215, 446 8, 230, 722 7, 452, 954 6, 618, 138 7, 366, 246 7, 363, 246 7, 363, 246 7, 363, 246 7, 363, 246 7, 363, 246 7, 363, 246 7, 363, 246 7, 363, 246 7, 363, 246 7, 363, 246 9, 472, 736 9, 713, 243 9, 713, 243 9, 051, 828 8, 523, 964 6, 761, 723 7, 387, 159 7, 801, 636 8, 295, 693 8, 492, 392	228, 054 197, 883 315, 867 264, 991 223, 565 177, 373 157, 496 170, 496 170, 496 191, 617 194, 838 90, 710 120, 446 1411, 991 313, 528 354, 245 222, 758 457, 989 327, 171 301, 838 287, 301, 838 287, 301, 838	168, 525 154, 162 146, 462 145, 674 102, 872 168, 622 168, 628 174, 505 133, 465 104, 688 113, 325 169, 759 234, 518 200, 956 198, 198 175, 313 162, 130 224, 142 177, 101 87, 519 93, 312
-	-						
Month.	Veal.		Pork.		Lard.	Mutton and	Poultry.
Montu.	v eal.	Fresh.	Cured.	In Process of Cure.		Lamb.	- Out.
1931. January. February. March. April. May June. July. August. September. October. November. December. 1932. January. February. March. Aprit. May June. July. August. September. October. November. Documber. December. December. December. December. December. December. December.	2, 155, 184 1, 396, 966 1, 061, 059 880, 715 1, 321, 438 1, 787, 332 1, 614, 471 1, 573, 868, 171 1, 602, 202 1, 338, 357 943, 120 698, 893 1, 045, 504 930, 141 1, 155, 903 1, 200, 457 1, 215, 242 1, 215, 241 1, 215, 242 1, 215, 241 1, 215, 241 1, 215, 411 1, 359, 850 1, 312, 484 1, 253, 462	8. 226, 290 9. 268, 776 11, 225, 403 10, 296, 690 11, 527, 377 10, 792, 877 7, 735, 404 8, 583, 367 7, 711, 272 6, 705, 715 7, 443, 442 11, 599, 289 20, 481, 724 23, 581, 364 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 24, 683, 660 25, 788, 991 26, 294, 850 27, 780 28, 293, 254 7, 809, 454 10, 478, 170	6, 648, 557 6, 537, 712 7, 678, 917 7, 177, 683 7, 475, 111 7, 279, 917 7, 446, 489 6, 073, 152 8, 355, 577 7, 162, 897 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431, 616 8, 431	4,712,358 5,370,180 5,990,746 5,477,574 5,956,580 6,075,630 5,804,211 5,790,359; 5,244,61 5,284,311 7,784,420 10,579,637 8,423,117 9,383,086 11,180,032 11,180,032 9,624,286 9,624,286 9,624,286	2,093,899 2,848,700 3,247,584 3,967,669 4,391,610 4,085,741 4,194,677 2,627,626 1,947,020 2,488,727 3,232,928 2,737,738 2,737,738 2,737,738 2,737,738 2,737,738 2,737,738 2,737,738 2,737,738 2,737,738 2,737,738 1,743,265,971 3,743,265 1,183,078 1,183,078 1,183,078 1,133,620	6, 989, 216, 5, 318, 614, 44, 440, 382, 3, 152, 949, 20, 48, 858, 636, 770, 336, 770, 336, 790, 539, 216, 790, 539, 216, 790, 539, 218, 471, 470, 712, 6, 230, 116, 151, 184, 420, 4, 106, 655, 184, 420, 1, 277, 406, 1, 228, 776, 1, 468, 848, 482, 838, 776, 1, 452, 838, 5, 295, 015	7,550,516 6,893,101 6,373,960 4,930,105 3,283,964 1,811,327 1,740,112 1,639,151 1,996,979 3,214,611 6,929,255 13,807,721 13,216,445 11,647,739 7,701,350 6,371,188 5,375,401 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 4,413,704 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188 6,371,188

Section 5.—Bounties, Patents, Copyrights and Trade Marks.1

Bounties.—In cases where it is considered advisable for the Government to encourage the production of a particular commodity, bounties paid by the Government are recognized substitutes for protective duties. In the past they have been made use of by Canada to a considerable degree, but the only bounties which involved payments in 1931-32 were those on hemp and on copper bars and rods. The amounts of these bounties paid in recent periods have been as follows:—

Copper Bounties Paid in-		
Year ended June 30, 1925	1, 164, 140 lb. at 1½c\$	14,551.75
Year ended June 30, 1926	10,808,627 lb. at le	108,086-27
Year ended June 30, 1927	16,387,302 lb. at te	122,904-39
Year ended June 30, 1928	12,514,446 lb. at 1c	62.572-24
Year ended June 30, 1929	6,837,124 lb. at se	34.185-63
Year ended June 30, 1930	10,857,149 lb. at to	54,285.75
Year ended June 30, 1931	13,596,918 lb. at \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot	67.984.87
		137.816.44
Year ended June 30, 1932	27,563,296 lb. at le	
6 months ended Dec. 31, 1932	Nil	Nil
Totals	99,729,002 lb. \$	602,387-34
Hemp Bounties Paid in—		
Calendar year 1926	19.048 lb. at 1+c	285 - 72
Calendar year 1927	203,087 lb. at 1 c	2,792-43
Calendar year 1928	826,821 lb, at 11e	10.335-25
Calendar year 1929	666,113 lb. at 1je	7.493.77
Calendar year 1930	348, 345 lb. at le	3.483-45
Calculate year 1850	050 000 IL T.	2,189.95
Calendar year 1931	250, 280 lb, at {c	
Calendar year 1932	35,499 lb. at to	266-25
Totals	2,349,193 lb.	26,846-82

Bounties have been paid at various times in the past on iron and steel, on lead, on crude petroleum, on manila fibre, on zinc and on linen yarns, but the bounties on iron and steel ceased in 1911, on lead in 1918, on zinc in 1921, on linen yarns in 1923 and on crude petroleum in 1927. The total amounts paid in bounties on these commodities between 1896 and the date of expiration were: iron and steel and manufactures of (1896-1912), \$16,785,827 (Canada Year Book 1915, p. 460); lead (1899-1918), \$1,979,216 for 1,187,169,878 lb.; zinc, \$400,000; linen yarns, \$17.523: manila fibre (1903-1913), \$367.962; crude petroleum (1905-27), \$3,457,-173 on 233,135,217 gallons. (For quantities of crude petroleum and bounties paid in each year, see table on p. 635 of the 1927-28 Year Book.) Total payments for expired bounties between 1896 and 1932 aggregated \$23,007,701, which, with the \$602,387 paid on copper bars and rods and the \$26,847 for hemp, make a total of \$23,636,935. The bounty on copper bars and rods was extended to June 30, 1931, at the rate of \(\frac{1}{2} \)c. per lb. by c. 15 of the Statutes of 1928. The Year Book of 1915, pp. 459-461, gave a description of the bounties that had been payable since 1883, as well as tables showing, for each commodity, the quantities on which bounties were annually paid and the amounts of such bounties for the years 1896 to 1915 inclusive. For details of the bounties on zinc, see ρ . 635 of the 1927-28 Year Book.

A bounty on Canadian coal used in the manufacture of iron or steel was authorized by c. 6 of the Statutes of 1930. By that Statute, manufacturers of iron and steel may be paid 49½c, per ton of bituminous coal mined in Canada, converted into coke in Canada and used by such manufacturers in smelting iron ore or manufacturing steel ingots or steel castings in Canada. This bounty was established on a recommendation of the Royal Commission on Maritime Claims relating to the manufacture of iron or steel by the use of Canadian coal. Payments thereunder have been as follows:—

Fiscal year ended Mar. 31, 1931 Fiscal year ended Mar. 31, 1932		\$ 135,209.23 62,545-68
Totals	399,504 tons	\$ 197,754-91

^{&#}x27;Information regarding bounties has been revised by H. B. Borbridge, Chief Accountant, Department of Trade and Commerce, and information regarding patents, copyrights and trade marks by T. L. Richard, Commissioner of Patents, Ottawa.

Patents.—Letters patent, which in England have been in the gift of the Crown from the time of the Statute of Monopolies and earlier, are a purely statutory grant in Canada and have always been so. The earliest Act was one of Lower Canada, passed in 1824, wherein provision was made for the granting of patent rights to inventors who were British subjects and inhabitants of the province. Upper Canada passed its Act in 1826, and Nova Scotia and New Brunswick passed theirs at later dates. In 1849, after the Union, a consolidating Act was passed applying to both Upper and Lower Canada, and the B.N.A. Act assigned the granting of patents exclusively to the Parliament of Canada. The Dominion Patent Act of 1869 repealed the provincial Acts and has formed the basis of all succeeding Acts.

The first Canadian patent was issued under the Lower Canada Act of 1824 to Noah Cushing of Quebec; 165 patents were granted under the Acts of Upper and Lower Canada, and, under the consolidating and later Acts of the provinces 3,160 patents were granted.

Letters patent are now issued subject to the provisions of Chapter 150, R.S.C., 1927, and application for protection relating to the same should be addressed to The Commissioner of Patents, Ottawa, Canada.

Invention means any new and useful art, process, machine, manufacture or composition of matter or any new and useful improvement in any art, process, machine, manufacture or composition of matter.

The growth of Canadian inventions is shown by the fact that an average of 1,422 patents was issued annually to Canadians during the decade 1920-29. The business of the Office has gradually continued to expand and the number of applications and total fees increased each year without a break from the beginning of the present century until the fiscal year ended Mar. 31, 1913, when 8,681 applications were received and the total fees amounted to \$218,125. In the fiscal year ended Mar. 31, 1932, there were 11,940 applications, with fees amounting to \$444,110, as compared with 13,229 and \$472,636 respectively in 1931. For the fiscal year ended Mar. 31, 1932, the number of patents granted was 11,124 as compared with 11,262 in 1931, a decrease of 138. Of the patents of 1932, 7,465 or 67 p.c. were issued to United States inventors, 1,084 to Canadians and 921 to residents of Great Britain and Ireland, while Germany with 719, France with 247 and Sweden with 101, came next in the number of inventors to whom patents were issued. Table 21 shows the distribution of the Canadian patentees for the years 1921 to 1932 by province of residence.

21.—Number of Canadian Patentees, by Province of Residence, for the fiscal years ended Mar. 31, 1921-32.

Province,	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1981.	1932.
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No
Prince Edward Island. Nova Scotia. New Brunswick. Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia. Yukon and N.W.T.	29 33 331 708 118 119 127 177	22 14 276 508 75 101 96 103	9 35 21 430 845 158 166 155 202	7 41 14 312 673 83 106 123 174	2 26 24 302 559 66 101 95 127	2 30 24 272 561 68 90 95 150	5 19 21 320 499 89 68 82 129	3 24 12 298 537 71 100 88 152	1 16 17 298 538 61 98 98 148	3 17 16 282 500 72 81 71 126	3 14 18 265 491 74 66 76 101	2 18 6 272 504 47 55 63 117
Totals	1,645	1,199	2,021	1,533	1,302	1,292	1,232	1,285	1,265	1,169	1,109	1,084

It will be seen from the table that the more populous provinces of Ontario and Quebec obtained the largest absolute number of patents, but a calculation of the number of patentees in relation to population shows that, for the fiscal year 1932, the greatest relative inventiveness was displayed in British Columbia, with one patent granted for every 6,020 persons, while Ontario had one for every 6,860 persons and Quebec one for every 10,680 persons.

As will be seen from Table 22 the increased activity in invention which was manifested during the fiscal year ended 1929 was still more marked in the fiscal year ended 1930; there has been a decline in each of the two years since then. Apparently the industrial depression has extended its baneful influence over this field also. In the latest year applications for patents were distributed pretty well over the whole field of invention without showing outstanding trends along any particular lines.

22.—Statistics of Patents Applied for, Granted, etc., fiscal years ended Mar. 31, 1927-32.

Item.	. 1927.	1928.	1929.	1930.	1931.	1932.
Applications for patents. No Patents granted	11,406	11,845	13,062	14,288	13, 299	11,940
	10,018	9,518	9,335	10,401	11, 262	11,124
	2,204	319	404	149	53	40
	397	370	334	363	352	383
	6,409	7,011	8,227	9,505	9, 190	9,001
	438,690	412,146	434,498	478,327	472, 636	444,110

Copyrights and Trade Marks.—Registration of copyright is governed by c. 32, R.S.C., 1927, and an application for protection relating to same should be addressed to The Commissioner of Patents, Ottawa, Canada.

The Copyright Act of 1921 (amended in 1923 and consolidated in c. 32, R.S.C., 1927) sets out in section 4 the qualifications for a copyright and in section 5, its duration: "Copyrights shall subsist in Canada. in every original literary, dramatic, musical and artistic work, if the author was, at the date of the making of the work, a British subject, a citizen or subject of a foreign country which has adhered to the (Berne) Convention and the additional Protocol. or resident within His Majesty's Dominions. The term for which the copyright shall subsist shall, except as otherwise expressly provided by this Act, be the life of the author and a period of fifty years after his death"

Copyright protection is extended to records, perforated rolls, cinematographic films and other contrivances by means of which a work may be mechanically performed. The intention of the Act is to enable Canadian authors to obtain full copyright protection throughout all parts of His Majesty's Dominions, foreign countries of the Copyright Union, and the United States of America, as well as in Canada.

The Trade Marks Act (c. 201, R.S.C., 1927) was amended by c. 10 of the Statutes of 1928, bringing the Act into agreement with the terms of the Convention for the Protection of Industrial Property, as amended at The Hague in 1925 with regard to refusal to register certain trade marks. The renewal of expired trademark registration was also provided for, while it was also enacted that in certain cases interested parties might apply to the Exchequer Court of Canada for the cancellation of a trade mark at any time within three years from its registration.

Item.	1927.	1928.	1929.	1930.	1931.	1932.
Copyrights registered No. Certificates of copyright " Trade marks registered " Industrial designs registered " Timber marks registered " Assignments registered " Fees received, net \$	3, 167	2,889	3,043	4,072	3,008	2,812
	2, 935	2,649	2,781	3,849	3,008	2,812
	1, 828	2,210	2,316	3,143	2,848	2,186
	376	411	337	408	495	371
	18	8	12	12	24	6
	1,641	2,055	2,955	2,282	1,703	1,661
	79, 239	83,791	95,741	96,591	87,009	81,138

The following table gives the receipts, expenditures and surplus on account of patents, copyrights and trade marks for the fiscal years 1921-32.

24.--Receipts, Expenditures and Surplus on Account of Patents, Copyrights and Trade Marks, fiscal years euded Mar. 31, 1921-32.

Tr	D		Expend	litures.		Surplus.
Fiscal Year.	Receipts.	Civil Gov-	Patent Record.	Contin- gencies.	Total.	ourpius.
	\$	s	\$.	\$	\$
921	407,881	124,096	31,521	28,668	184,285	223,60
922	454,886 484,479	150,650 155,038	22,594 86,397	28,950 33,853	202, 193 225, 288	252,69 259,19
924	459,780	166,593	32.052	28,446	227,091	232, 68
925	550,531	144,661	30,206	20,941	195,808	354,72
926	535, 139	149,839	34,973	24, 155	208,967	326, 17
927	517,930	152,631	34,618	27,766	215,010	302,91
928	495, 937	157,084	34,006	24,653	215,744	280,19
929,	530,239	162,008	29,749	26,870	218,624	311,61
930	574,918	169,339	34,946	31,622	235,907	339,0
93 [559,646	174,458	35,000	32,000	241,458	318, 18
932	525,248	173,370	85,000	37,893	246,263	278,98

Section 6.—Weights and Measures, Electricity and Gas Inspection.¹

Weights and Measures.—The object of weights and measures administration is to maintain uniformity and accuracy in the use of the legal standards of the country in industry and commerce, to protect the public from short weight and measure and the trading community from unfair competition arising from such practices.

Prior to Confederation, the administration of weights and measures was in the hands of each Provincial Government but passed to the Dominion Government in 1867, under section 91 of the British North America Act. Steps were then taken to simplify the standards in use and to establish uniformity throughout the Dominion.

What might be termed the principal Weights and Measures Act of Canada was passed in the session of 1872-73; its provisions closely followed English weights and measures law, but the system of weights and measures was greatly simplified. This Act established as the primary legal standards for Canada the imperial pound, gallon and yard, but in place of the system of stones, quarters, hundredweights (112 lb.) and the long ton (2,240 lb.) it provided a decimal series of weights, 1, 2, 3, 5, 16, 20, 30, 50, 100 lb., and the short ton of 2,000 lb. The only exceptions to this

The material on Weights and Measures has been revised by E. O. Way, Director of Weights and Measures, Department of Trade and Commerce and that on Electricity and Gas Inspection by J. L. Stiver, Director, Electrical and Gas Standards Laboratories, Department of Trade and Commerce.

were the continued use of the old French land measure, the arpent, in Quebec, and the use of the long ton (2,240 lb.) in the coal-mining industry, but not for the retail sale of coal. The troy ounce of 480 grains and its decimal submultiples are the legal weights for the weighing of gold and precious metals. The metric system is legal for all transactions.

Many changes, deletions and additions have been made to the Act of 1873 by later legislation, but its principles remain unchanged. The latest legislation is the Weights and Measures Act (c. 212, R.S.C., 1927).

The Weights and Measures Service was first administered by the Department of Inland Revenue, and offices were opened in all the principal centres of Canada and equipped with standards and inspection equipment. In 1918 the Service was transferred to the Department of Trade and Commerce. For purposes of administration, the Dominion is divided into 18 districts, each in charge of a district inspector. The chief rules of administration are as follows:—

(a) Every new type of weighing and measuring device must be submitted to the Department at Ottawa for approval before being placed on the market.
 (b) Every new machine must be inspected and stamped by an inspector before being sold or taken

(b) Every new machine must be inspected and stamped by an inspector before being sold or taken into use.

(c) Imported machines are held by the customs until release is approved by the nearest inspector.
(d) All inspections take place on the traders' premises, except where devices are brought to the inspection offices.
(e) Fees are charged for inspection and stamping, the schedule being defined by Order in Council, and all moneys so collected are paid into the Consolidated Revene Fund of Canada.

The following table is a summary of the articles and machines inspected in the fiscal year 1931-32.

WARE DAY AVOID								
Article.	Submitted.	Verified.	Rejected.	Percentage of Rejections.				
Weights (Dominion)	88,689	84,058	4,631	5.2				
Weights (metric)	. 794 i	782	12	1-5				
Measures of capacity	74.984	74,639	345	0-5				
Measures of length	9.049	8,983	66	0-7				
Milk cans	62,491	62,432	59	l č.i				
Ice cream containers	34, 250	34, 250	-]				
Measuring devices		46,550	8,008	14-6				
Tank wagons	438	414	24	5.5				
Babcock glassware	36,451	36,393	58	lŏ∙ĭ				
Weighing machines		162.073	20.403	l ıĭ.ī				
Weighing machines (metric)	567	545	22	3.8				
Totals	544,747	511,119	33,628					

25.—Inspections by the Weights and Measures Service, fiscal year ended Mar. 31, 1932.

The total revenue collected by the Service during the year amounted to \$406,614 and the expenses, including salaries, totalled \$330,940.

Electricity and Gas Inspection.—The Electricity and Gas Inspection Branch of the Department of Trade and Commerce administers three Acts: the Electricity Inspection Act (c. 22, 1928), the Gas Inspection Act (c. 82, R.S.C., 1927), and the Electricity and Fluid Exportation Act (c. 54, R.S.C., 1927).

The latest report of the Branch shows 448,081 electricity and gas meters tested in the fiscal year ended Mar. 31, 1932, as compared with 495,819 in the preceding year. The total revenue derived from electricity and gas inspection was \$300,061, as compared with an expenditure of \$226,912. The Branch also collected \$183,537 as export duty and licence fees under the provisions of the Electricity and Fluid Exportation Act; the cost of collecting this revenue was only \$481.

Other related statistics collected in the administration of the last-named Act will be found on p. 389, in the Water Power chapter of the Year Book. Here, however, are given statistics, also collected by the Branch in the process of administration, showing a phenomenal increase in the number of consumers of electricity in the past 17 years, from 505,597 to 1,704,197 (Table 26); the lesser increase in the gas meters in use from 267,454 in 1916 to 668,767 in 1932 (Table 27); and the number of cubic feet of gas sold in Canada from 1920 to 1932, classified as carburetted water gas, coal gas, coke oven gas, natural gas, acetylene gas and butane (Table 28).

26.-Number of Electricity Meters in Use, fiscal years ended Mar. 31, 1915-32.

Fiscal Year.	Number.	Fiscal Year,	Number.	
1915. 1916. 1917. 1918. 1919. 1920. 1921.	505,597 517,629 594,737 661,403 717,776 743,468 860,379 945,599 1,046,831	1924 1925 1926 1927 1928 1929 1930 1931	1,094,63 1,165,66 1,240,75 1,314,42 1,412,52 1,499,75 1,582,50 1,658,92 1,704,18	

27.—Number of Gas Meters in Use, fiscal years ended Mar. 31, 1916-32.

Fiscal Year.	Manuíac- tured Gas.	Natural Gas.	Acetylene Gas.	Butane.	Total.
	No.	No.	No.	No.	No.
916, , ,	199,514	67,940		-	267,48
917	814,915	55,697	i	-	370,6
918	325,244	88,795		- 1	414,0
919,	336,388	91,056		- 1	427,4
920	350,777	85,004	513	-	436,2
921	361,479	98,494	577	-	460,5
922	366.840	101,785	430	-	469.0
923	379,459	102,007	438	-	481.9
024	390,548	105,804	425	_	496,7
925	405,471	106,861	404	-	512,7
926	443,067	85.752	425	-	529.2
927	462,496	90,302	358	_	553.1
928	482,076	98,915	357	_	581.3
929	504,590	107.504	116	-	612.1
330	520,788	118,390	117	-	639.2
31	530,909	125,550	67	205	656.7
982	540.277	128, 194	l 66	230	668.7

28.—Number of Cubic Feet of Gas Sold in Canada, fiscal years ended Mar. 31, 1920-32.

Fis- cal Year.	Carburetted Water Gas.	Coal Gas.	Coke Oven Gas.	Natural Gas.	Acetylene Gas.	Butane.	Total.
1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932	cu. ft. 4,487,511,639 5,331,442,415 4,668,391,857 9,632,961,609 5,214,843,290 5,254,802,700 4,335,613,326 5,804,503,468 6,883,634,603 4,550,828,900 4,456,996,628 4,214,554,234 4,267,073,950	7,096,221,745 8,433,860,908 7,687,113,997 8,042,882,100 7,824,192,540 8,149,894,391 8,405,556,329 7,488,964,653 6,273,274,583 5,802,653,503 6,249,189,852	132,000 3,188,600 91,628,300 1,449,794,500 1,018,978,000 1,680,237,100 6,097,920,366 8,153,478,000 7,782,048,911	14,866,618,700 10,525,604,568 13,004,469,776 17,863,365,700 20,365,048,768 25,491,446,000 31,880,844,600 28,534,604,069	1,005,000 1,165,395 1,194,059 1,266,109 1,210,894 1,247,108 1,325,510 647,168 847,230 875,080	-	eu. ft. 28, 393, 651, 662 24, 392, 850, 162 26, 510, 207, 884 28, 128, 726, 149 23, 697, 494, 22 7, 440, 982, 887 33, 124, 650, 905 36, 419, 210, 634 42, 414, 116, 667 50, 294, 814, 961 46, 800, 407, 146 45, 140, 382, 262

Section 7.—Census of Merchandising and Service Establishments.¹

A comprehensive survey of the business carried on by trading and service establishments was undertaken for the first time in connection with the seventh decennial census in 1931. A partial census of trading establishments only had been made in 1924, but the results of this initial survey, while indicative of the extent of domestic trade, suffered from the incompleteness of the canvass made at that time. The Census of Merchandising and Service Establishments, 1931, covered not only retail and wholesale merchandising establishments but also service establishments, including hotels. In addition, information was collected to show the manner in which goods manufactured in Canada are distributed. Statistics compiled from the census returns have been published in several series of mimeographed reports, but the figures given in those bulletins and used in the tables of this Section are preliminary and subject to revision.

In all these tables the number of employees includes those working both full time and part time and also proprietors and firm members receiving fixed salaries. Therefore, the amount of salaries and wages represents the entire wages bill. The figures do not provide any basis for computing average wages, average sales per employee, or rate of stock turnover. In later reports the data will be presented in greater detail and more accurate computations may then be made.

Subsection 1.—Wholesale and Other Bulk or Non-Retail Merchandising.

The wholesale field, as defined for the purposes of the census, embraces many types of establishments other than those generally classed as wholesale houses. Thus, under this heading of bulk merchandising, will be found not only the conventional types of wholesalers selling to retailers but also other establishments engaged in handling or arranging for the sale of commodities, or the transfer of rights, etc., on a non-retail basis, whether for domestic or foreign trade. In the tables presented below will be found the salient features of the operations of such classes as importers, exporters, commission merchants, brokers, etc., as well as the business of wholesale merchants. It should also be noted that the business of such establishments as bulk tank stations and manufacturers' sales branches is not included with that of the wholesale merchants, although a considerable part of the trade of these establishments is done with retailers.

There were 12,914 wholesale and other bulk or non-retail merchandising establishments in Canada in 1930. The total net sales for these establishments were \$3,133,733,700. This trade was concentrated, to a marked degree, in certain well-defined trading areas. Of the above total sales, 31·20 p.c. were made by establishments in Ontario, 27·13 p.c. by those in Quebec, and 19·42 p.c. by those in Mani-

¹ Prepared by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics. For a list of publications of this Branch, see Chapter XXIX, Section 1, under "Internal Trade".

toba. In fact, approximately two-thirds of the entire trade was carried on by establishments located in the four cities of Montreal, Toronto, Winnipeg and Vancouver.

As already suggested, the bulk and non-retail merchandising field embraces many types of establishments, so that the amount of trade attributed to this field cannot be compared directly with the amount of retail business. A certain amount of business is transacted between bulk merchandising establishments, especially with respect to agents, brokers, and commission houses, and sales are made, by or through many wholesale establishments, to manufacturers or other industrial con-In addition, some of these establishments are engaged in trading with foreign countries. Thus allowances must be made for the duplication in bulk and non-retail merchandising, for the sales of raw materials, for direct sales to consumers and for export business. In order to give a rough indication of the amount of pre-retail business, bulk merchandising establishments have been divided into two classes, "wholesalers proper" and "other bulk or non-retail distributors" The first class consists of those establishments which are carrying on the more conventional form of wholesale trading. The sales made by 5,008 wholesalers proper in 1930 were \$1,092,933,700, of which \$900,582,900 were made by wholesale merchants. Other types of bulk or non-retail distributors, consisting of 7,906 establishments, made sales or arranged orders to the value of \$2,040,800,000. It will be noted from Table 29 that, while the province of Manitoba had 19.42 p.c. of the total sales of all bulk merchandising, the business of wholesalers proper in Manitoba was only 7.16 p.c. of the total for Canada. This marked difference is due to the influence of the grain trade, which is such an important factor in the commerce of that province. The trade in grain is carried on mainly by establishments classified under "other bulk distributors" and appears, therefore, only in the all-inclusive figures of Table 29.

29.—Bulk Merchandising (Wholesale and Other Non-Retall) in Canada, by Provinces, 1939.

		11072	. 11gules a	ne premima.	, zarąc odz	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , ,			
			All E	stablishments	١.		Wholesalers Proper.			
Province.	Estab- lish- ments. Em- ployees. Salaries and Wages.		and Net of lish-		Net Sales.	Pro- portion of Total Net Sales.				
	No.	No.	\$	\$	p.c.	\$	No.	\$	p.c.	
P.E.I. N.S. N.B. Que. Ont. Man. Sask. Alta. B.C.	63 432 374 2,863 3,881 1,275 1,610 1,312 1,104	32,358 9,835 5,680	8,820,200 43,129,700 51,670,000 15,863,000 8,535,400 9,777,700	68,929,500 70,261,100 850,318,800 977,503,500 608,528,100 126,708,400 173,052,400	2·20 2·24 27·13 31·20 19·42 4·04 5·52	7,007,100 8,004,700 81,335,300 90,701,900 65,214,900 23,778,190 21,598,200	213 164 1,462 1,945 340 173 240 444	32,140,500 354,079,700 379,099,300 78,211,200 46,035,000 57,321,000 99,468,600	3-53 2-94 32-40 84-69 7-16 4-21 5-24 9-10	
Canada	12,914	95,823	149,443,404	3,133,733,700	100 - 00	325,572,500	5,008	1,092,933,700	100.00	

Note.—Figures are preliminary and subject to revision.

20.—Bulk Merchandising (Wholesale and Other Non-Retail) in Canada, by Type of Distributor, 1930.

Nors.—Figures are preliminary and subject to revision.

Type of Distributor.	Estab- lish- ments.	Em- ployees.	Salaries and Wages.	Net Sales.	Pro- portion of Total Net Sales.	Stocks on Hand, End of Year (at Cost).
Wholesalbrs Proper,	No.	No.	\$	\$	p.c.	\$
Wholesale merchants Import merchants Export merchants Supply and machinery distributors Drop shippers Wagon distributors Cash and carry wholesalers Mail order bouses	4,096 663 99 95 12 30 9	914 933 41 53	62, 107, 300 10, 302, 700 1, 170, 200 1, 559, 200 63, 500 62, 000 147, 800 13, 600	900.582,900 119,421,000 53,230,000 14.620,900 2,624,600 1,118,700 1,256,700 78.900	28.73 3.82 1.70 0.47 0.08 0.03 0.04	125, 949, 700 27, 192, 000 2, 365, 000 2, 991, 000 149, 700 35, 100 70, 500 31, 100
Totals, Wholesalers Proper	5,008	51,098		1,092,933,700	34 - 87	158,784,100
OTHER BULE OF NON-RETAIL DESTRIBUTORS.					•	
Anction houses Brokers Cash grain brokers Bulk tank stations Chain-store warehouses City buyers of farm products Co-operative buying associations Co-operative marketing associations. Co-operative sales agencies Commission merchants Country buyers District sales offices Elevators Export solvers Export solvers Export selling agents Export selling agents Exporters (on own account) Frim exchanges General sales offices Import nanufacturers' agents Import manufacturers' agents Manufacturers' sales branches Manufacturers' sales branches Packers and shippers Purchasing agents Selling agents Selling agents Warehouses All other	8 140 3,539 67 1322 66 1377 13236 144 844 188 6 6 22 252 233 190 84 852 1,505 11: 182 132 132 132 132 132 132 132 132 132 13	16 8 107 2 818 455 154 1 122 901 1 225 29 27 1 116 846 846 835 287	134,200 833,300 32,500 12,211,400 3,793,006 209,300 1,233,006 208,100 1,700,700 408,600 1,178,300 408,600 1,14,600 85,200 6,800 1,493,700 1,519,100 503,000 1,519,100 503,000 1,732,500 1,732,500 1,109,000 1,732,500 1,109,000 25,900	4, 675, 400 71, 249, 300 25, 443, 600 178, 317, 100 109, 637, 100 200, 047, 600 15, 685, 400, 103, 998, 000 9, 332, 000 109, 704, 400 8, 304, 800 1, 403, 100 1, 189, 000 189, 704, 400 8, 600, 800 189, 768, 800 1, 479, 000 11, 779, 700 161, 636, 900 156, 636, 900 163, 360 1, 647, 300 57, 595, 000 5, 2589, 100 5, 318, 500	5.69 3.49 0.30 0.16 6.38 0.50 3.32 0.22	1, 100 538, 200 23, 287, 500 8, 132, 600 8, 132, 600 340, 600 340, 600 142, 500 1, 628, 300 748, 100 293, 400 204, 100 21, 448, 800 2, 711, 500 57, 649, 200 72, 400 1, 771, 200 1, 711, 200 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 771, 200 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500
Totals, Other Bulk or Non- Retail Distributors	7,906	44,725	74,017,100	2,040,800,000	65-13	166,788,400
Grand Totals	12,914	95,823	149,443,400	3, 133, 733, 700	100-00	225,572,500

Subsection 2.—Retail Merchandising and Services.

The line of demarcation between these two classes of retailing cannot be sharply drawn. In many service establishments, especially those of the repair group, the retail sale of commodities is also carried on. Conversely, a great many stores, chiefly engaged in retail merchandising, have service departments for making alterations and repairs, for hair dressing and other personal service, for cleaning, decorating, fur storage, etc. Establishments where both these functions are carried on have been classified according to the function which provided the largest receipts. For the sake of convenience, th fields are summarized by provinces and business groups in Table 31.

31.—Summary Statistics of Retail Merchandising and Service Estab

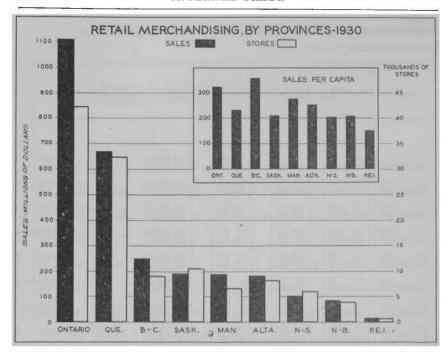
Note.-Figures are preliminary

_					
No.	Business Group.	Prince Edward Island.	Nova Scotia.	New Brunswick.	Quebec.
	Retail Merchandising.				
1	AutomotiveStores, No Sales, \$	69 1,786,400	505 17,632,500	426 11,692,500	2,323 71,108,200
2	FoodStores, No Sales, \$	307 2,163,900	2,724 23,799,000	1,655 14,461,800	14,508 188,269,200
3	General merchandiseStores, No. Sales, \$	6,277,300	991 26,492,200	787 31,078,900	4,448 147,100,800
4	ApparelStores, No. Sales, \$	53 1,012,800	457 8,707,100	5,823,000	3,037 57,807,200
ā	LumberStores, No. Sales, \$	363,000	158 4,241,400	172 3,294,400	955 31,287,500
•	Furniture Stores, No. Sales, \$	44, 100	2,078,600	59 2,045,400	539 18,989, 8 00
7	RestaurantStores, No. Sales, \$	26 186, 50 0	239 1,820,100	187 1,221,500	1,125 19,768,200
8	All other stores Stores, No. Sales, \$	159 1,722,700	1,016 19,370,000	779 15,388,800	6, 143 132, 892, 60
	! !				
	Totals Stores, No. Sales, \$	794 13,554,700	6,183 104,140,900	4,294 85,606,300	
			6,183 104,140,500	4,294 85,606,300	
,	Sales, \$		\$,183 104,140,300 2,097,300	4,294 85,006,300	667,173,5 86
9	Sales, \$ Service Establishments. Amusements	13,556,700	104,140,500	85,006,300	667,173,500
-	Sales, \$ SERVICE ESTABLISHMENTS. Amusements	13,556,790 	194,149,300 	85,006,300 117 1,307,200 52	509 11,868,300 7,201,000
10	Sales, \$ Service Establishments. Amusements	13,556,790 13 193,800 39 29,100	184,140,300 134 2,097,300 58 1,082,800 144	117 1,307,200 52 200,900 108	509 11,868,360 7,201,000 1,177 10,675,800
10 11	Sales, \$ Service Establishments. Amusements	13,556,790 193,800 39 29,100 19 75,200 61	194,140,300 2,097,300 58 1,082,800 144 934,000 344	1,307,200 1,307,200 52 200,900 108 799,000	509 11,868,300 44 7,201,000 1,177 10,675,800 2,956 6,460,600
10 11 12	Sales, \$ Service Establishments. Amusements	13,556,790 193,800 39 29,100 19,500 61 75,200 5	194,149,300 2,097,300 58 1,082,800 144 934,000 344 681,000	117 1,307,200 52 200,900 108 799,000 380 582,000	509 11,868,300 7,201,000 1,177 10,675,800 2,956 6,460,600 194 1,250,400
10 11 12 13	Sales, \$ Service Establishments. Amusements	13,556,790 193,800 39 29,100 19 75,200 5 11,700 145	194,149,300 2,097,300 1,082,800 1,082,800 144 934,000 681,000 32 156,400 601	117 1,307,200 52 200,900 108 799,000 380 582,000 24 150,100	509 11,868,300 404 7,201,000 1,177 10,675,800 2,956 6,460,600 11,250,400 4,047 7,640,900
10 11 12 13	Sales, \$ Service Establishments. Amusements	13,556,790 193,800 39 29,100 19 75,200 6 75,200 5 11,700 145 138,100	194,149,300 2,097,300 1,082,800 1,082,800 344 934,000 355 156,400 872,500 47	117 1,307,200 52 200,900 108 799,000 380 582,000 24 150,100 545 825,800	33,478 647,173,540 11,863,360 11,863,360 1,177 10,675,800 2,956 6,460,600 1,250,400 4,047 7,640,900 4,230,600 937 10,149,700

lishments in Canada, by Previnces and Business Groups, 1530.

and subject to revision.

No	Canada,	Yukon and Northwest Territories.	British Columbia.	Alberta.	Saskat- chewan.	Ontario. Manitoba.	
	13,019 381,7 20 ,900	-	1,090 33,766.500	1,036 31,764,1 90	I,213 23,646,200	720 20,424,700	5,637 169,899,800
;	41.832 609,411,700	7 226, 00 0	8,220 47,779,400	1,879 27,349,500	1.730 24,893,300	2,069 26,391,900	13,733 254,077,700
:	15,342 714,056,000	100 2,643,800	1.029 64,382,200	1,358 54,154,000	1,745 61,759,800	1.010 81,829,000	3,709 238,338,000
	. 10,312 209,518,300		756 17,285,300	477 9,945,000	369 7,855,700	436 9,588,600	4,438 92,033,600
	6,045 165,915,400	76,800	375 12,163,900	734 15,190,900	1,206 21,693,600	406 11,873,800	2,084 65,610,100
•	2,083 58,477,000		191 4,837,500	87 2, 907.300	86 1,677,600	52 1,487,900	970 24,458,800
1	6,396 87,106,200	80,900	672 10,997,700	639 9,224,900	701 7,079,400	391 6,143,800	2,413 30,583,200
	26,913 578,510,300	14 134,000	1,948 58,371,100	2,210 33,721,300	3.678 44,297,300	1,562 34,880,400	9,404 237,732,100
	121,942 2,805,075,800	120 3,161,5 00	9,281 249,523,686	8,42 0 184,257 ,00 0	19,723 192,902,966	6,646 192,620,100	42,388 1,113,733,300
i 	3,229 54,255,600	į	277 5,511,000	* 846 3,301,500	447 2,882,000	221 4,920,900	1,165 22,173,600
10	2,457 25,913,800		205 2.376,800	232 1,566,400	390 1,110,100	139 2.167,300	938 10, 179, 400
11	4,825 39,493,500	15,600	531 4,616, 5 00	329 2,021,600	316 1,464,000	300 2,754,600	1,967 16,137,200
12	10,602 24,444,000	6,600	878 2,094,500	593 1,285,700	708 1,420,800	561 1,272,900	4,137 10,564,700
13	844 5,421,600	Ī,	106 570,200	374.000	55 252,400	52 297.800	319 2,358,600
14	13,505 27,488,000	5,900	819 2,517,200	925 1,787.600	1,342 1,710,500	861 1,624,000	4,246 10,365,500
15	2,228 24,167,800	97,200	198 3,195,400	1,333,000	85 487,800	123 1,511,500	$1,008 \\ 12,697,100$
16	3,334 34,930,900	11,000	330 3,078,100	238 1,809,100	321 1,135,700	178 1,928,200	1,064 15,750,400
	41, 09 4 236,115,2 00	18 136,300	3,344 23,959,700	2,843 13,478,500	2,624 10,463,300	2,435 16,477,200	14,844 100,226,500



Retail Merchandising.—The total sales made by 121,942 retail merchandising establishments in Canada in 1930 were \$2,805,075,800. In addition to the sales made by these stores, the manufacturing bakeries and dairies reported retail sales of \$81,310,588, not included in the figures of Table 32, showing retail merchandising by provinces. The province of Ontario led in amount of business with 39.68 p.c. of the total sales, although only 33.08 p.c. of the population of the Dominion resided in this province in 1931. On a per capita basis, retail merchandise sales show wide differences between provinces. The average for Canada on the basis of the 1931 population was \$270.32, but the per capita sales in Prince Edward Island were \$153.98, and in British Columbia \$359.40. It should be noted, however, that in these figures no allowance is made for the mail order or other sales outside the province.

Retail Merchandise Trade in Canada, by Provinces, 1930.
 Nore.—Figures are preliminary and subject to revision.

Province.	Stores.	Proportion of Total Stores.	Em- ploy- ees.	Salaries and Wages.	Net Sales.	Proportion of Total Net Sales.	Stocks on Hand, End of Year (at Cost).
Prince Edward Island. Nova Scotia. New Brunswick Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia. Yukon and Northwest Territories.		5.07 3.52 27.13 34.76 5.45 8.80	No. 1,394 10,060 8,121 78,768 122,886 21,091 17,942 17,125 26,673	\$ 1,144,200 8,760,000 7,357,600 75,750,100 127,455,600 22,092,400 18,211,100 18,924,200 28,586,900 349,500	104,140,900 85,006,300 667,173,500 1,112,733,300 192,620,100 192,902,900	3.03	\$ 3,283,000 19,086,100 14,780,200 124,971,500 181,877,400 28,851,400 44,749,000 37,890,600 39,984,200
Canada	121,942	100.00	301,454	308,631,600	2,805,075,800	100 - 00	497, 190,000

More than one-quarter of the total sales in 1930 were made by stores in the general merchandise group. The most important kinds of stores in this group were the department stores and the general stores with groceries. The sales of food stores, of which the most numerous and important are the grocery stores, formed 21·72 p.c. of the total, while those of the automotive group accounted for 13·61 p.c. While such proportions are indicative of the sales of commodities, they do not furnish an accurate guide to commodity sales. Few stores restrict their sales to one line of goods and some kinds of stores handle a wide variety of merchandise. Department and general stores, as is well known, deal in many commodities, but there are other stores which also carry many lines of goods. The figures that are given in Table 33 show the retail merchandise trade by group and kind of business.

33.—Retail Merchandise Trade in Canada, by Group and Kind of Business, 1939.

Note,—Figures are preliminary and subject to revision.

Group and Kind of Business.	Stores.	Em- ployees.	Salaries and Wages.	Net Sales.	Stocks on Hand, End of Year (at Cost).
	No.	No.	*	\$	*
GENERAL MERCHANDESE.					
Department stores and general stores doing over \$100,000 of business. Dry goods stores Other general stores with grocery departments. Other general stores without grocery departments. Variety, 5 and 10 cent and to-a-dollar stores. Army and navy stores.	373 1,800 12,146 584 428	50,537 3,093 16,281 2,253 7,959 27	53,959,900 2,601,300 12,905,700 2,238,400 4,280,800 41,800	399, 407, 900 26, 782, 100 228, 986, 800 18, 916, 100 39, 672, 500 290, 600	63, 294, 900 12, 575, 100 78, 365, 200 7, 754, 000 5, 618, 600 121, 200
Totals	15,842	80,150	76,027,980	714,056,000	167,729,000
CLOTHING AND APPAREL. Men's and boys' clothing stores. Men's furnishing stores. Men's clothing and furnishing stores. Hat and cap stores (men's and boys'). Children's specialty shops. Women's ready-to-wear stores. Clothing stores (men's, women's and children's). Millinery shops. Shoe stores (men's). Shoe stores (men's, women's and children's). Furriers—fur shops. Castom tailors. Dressmakers and ladies' tailors. Hosiery shops. Knit goods stores. Corsets and lingerie shops.	227 564 1,380 53 47 1,428 980 1,334 32 1,578 1,978 73 88 238	548 824 3,695 109 92 5,435 3,140 1,585 146 3,456 1,795 3,395 472 158 199 663	783, 400 903, 900 4, 819, 809 170, 290 17, 190 5, 369, 100 3, 260, 700 1, 042, 400 156, 900 228, 900 2, 183, 400 3, 391, 300 420, 100 161, 800 151, 800 151, 800	8,576,100 8,820,300 40,640,400 1,443,500 513,000 44,410,100 29,469,500 6,791,500 1,024,000 1,024,000 12,068,000 12,068,000 14,558,100 1,387,700 1,377,200 1,377,200 1,377,200	1, 625, 500 3, 681, 190 16, 790, 500 388, 400 212, 300 9, 384, 200 11, 170, 400 328, 200 498, 000 13, 805, 100 3, 792, 900 2, 824, 700 261, 100 282, 400 605, 200
Infants' wear shops	19,312	25.753	18,000 27,500,300	247,700	127,400 67,787,600
					,,

33.—Retail Merchandise Trade in Canada, by Group and Kind of Business, 1934—continued.

Note.—Figures are preliminary and subject to revision.

Group and Kind of Business.	Stores.	Em- ployees.	Salaries and Wages.	Net Sales.	Stocks on Hand, End of Year (at Cost).
FURNITURE AND HOUSE FURNISHINGS.	No.	No.	\$	•	\$
Furniture stores. Drapery, curtain and upholstery stores	$\substack{1,061\\27}$	3,438 85	4,578,400 91,300	36,695,000 479,800	11,421,000 124,600
Floor covering stores.	40 135	115 371	161,300 443,200	1,173,300 1,903,100	768,000
China, glassware and crockery stores. Household appliance stores (electric). Household appliance stores (gas and	381	2,057	2,255,400	9,618,300	849,500 1,814,200
electric)	66 11	475 44	604,400 49,000	3,620,400 380,900	668,300 46,400
Antique and used furniture stores	105	217	260,500	1,304,400	1,185,300
Awnings, flags, banners, etc	19	42	46,300 36,700	168,100	86,600
Brooms and brushes	14 16	1 84 118	163,800	86,900 614,100	9,800 111,300
Lamps and shades	12	10	6.900 i	23 100	12,200
Pictures and framing	80 91	144 205	161,100 { 265,200	676,000	317,400 385,000
Other house furnishing stores	25	50	60,200	1,321,300 402,300	129, 100
Totals	2,083	7,455	9,183,700	58,477,600	17,878,70
LUMBER AND BUILDING MATERIALS.					
Lumber and building material dealers. Roofing material dealers	1,811 87	7,105 165	9,578,300 159,700	73,601,600 664,400	18,566,600 76,300
Electric stores	225	644	724,000	3.827.000	1,052,700
Hardware stores Heating appliance and oil burner dealers	2,958	7,133	8,338,900	72,027,600	27,914,200
Plumbing, heating and ventilating shops	95 562	514 1,285	674,900 1,565,500	2,734,500 7,626,900	359.500 1,240,700
Glass and mirror stores	36	95	118,900 940,700	7,626,900 493,400 4,760,000	71,800
Paint and glass stores	271	789	940,700	4,760,000	1,554,000
Totals	6,045	17,730	22,104,860	165,735,400	50,885,800
Foops. Bakeries (incomplete) ¹	1,054	2,280	1,822,600	9,816,4001	309,400
Caterers	. 8	70	53.900 l	172,600	6,400
Candy stores Confectionery stores (candy and foun- tain)	228 22	529 15	432,700 10,900	3,081,200 130,800	96,900 16,200
Confectionery stores (ice cream)	7.226	4,545	2,966,000	37, 242, 100	3,810,500
Confectionery and fruit stores	1,167			31,242,100	
iDa\	100	901	598,300	9,192,900	1,019,900
milk)	183 225	901 473	598,300	9,192,900 4,938,600	1,019,900 98,900
milk) Egg and poultry dealers Milk dealers (incomplete) ²	225 853	901 473 184 3,724	598,300 ; 515,700 157,660 ; 4,572,600	9,192,900 4,938,600 2,338,600 25,430,700	1,019,900 98,900 141,100 628,000
milk). Egg and poultry dealers	225 853 208	901 473 184 3,724 856	598,300 ; 515,700 157,690 ; 4,572,600 285,000	9,192,900 4,938,600 2,338,600 25,480,700 2,496,700	1,019,900 98,900 141,100 628,000 105,100
milk). Egg and poultry dealers	225 853 208 1,422	901 473 184 3,724 856 1,553	593,300 ; 515,700 157,600 ; 4,572,600 285,000 1,135,400	9,192,900 4,938,600 2,338,600 25,480,700 ² 2,496,700 14,307,800	1,019,900 98,900 141,100 628,000 105,160 640,200
milk). Egg and poultry dealers	225 853 208 1,422 18.057	901 473 184 3,724 356 1,553 17,853	593,300 ; 515,700 157,600 4,572,600 285,000 1,135,400	9,192,900 4,938,600 2,338,600 25,430,700 2,496,700 14,307,800 237,154,400	1,019,900 98,900 141,100 628,000 105,160 640,200 24,930,306
milk). Egg and poultry dealers	225 853 208 1,422 18.057 3,481	901 473 184 3,724 356 1,553 17,853 10,918	593,300 515,700 157,600 4,572,600 285,000 1,135,400 13,023,300 9,909,100	9,192,900 4,938,600 2,338,600 25,430,700 2,496,700 14,307,800 237,154,400	1,019,900 98,900 141,100 628,000 105,100 640,200 24,930,900 8,091,900
milk). Egg and poultry dealers	225 853 208 1,422 18,057 3,481 4,756 2,315	901 473 184 3,724 356 1,553 17,853 10,918 6,803 5,577	598,300 515,700 157,600 4,572,600 288,000 1,135,400 13,023,300 9,909,100 5,872,300 5,077,500	9, 192, 900 4, 938, 600 2, 338, 600 25, 430, 700 2, 496, 700 14, 307, 800 237, 154, 400 125, 090, 200 70, 282, 980 57, 767, 400	1,019,900 98,900 141,100 628,000 105,100 640,200 24,930,300 8,091,900
milk). Egg and poultry dealers	225 853 208 1,422 18.057 3,481 4,756 2,315 356	901 473 184 3,724 356 1,553 17,853 10,918 6,803 5,577 611	598,300 515,700 157,600 4,572,600 288,000 1,135,400 13,023,300 9,909,100 5,872,300 5,077,500	9, 192, 900 4, 938, 600 25, 430, 700 2 2, 496, 700 14, 307, 800 237, 154, 400 125, 090, 200 70, 282, 990 4, 678, 500	1,019,900 98,900 141,100 628,000 105,160 640,200 24,930,300 8,091,900 1,927,100 3,053,600 215,500
milk). Egg and poultry dealers	225 853 208 1,422 18.057 3,481 4,756 2,315 356 118	901 473 184 3,724 356 1,553 17,853 10,918 6,803 5,577 611 372	598,300 515,700 157,600 4,572,600 288,000 1,135,400 13,023,300 9,909,100 5,872,300 5,077,500	9, 192, 900 4, 938, 600 2, 338, 600 25, 430, 700 ² 2, 496, 700 14, 307, 800 237, 154, 400 125, 690, 200 70, 282, 990 57, 767, 400 4, 678, 500 2, 531, 400	1,019,900 98,900 141,100 628,000 105,160 640,200 24,930,300 8,091,900 1,927,100 3,053,600 215,500 510,400
milk). Egg and poultry dealers	225 853 208 1,422 18.057 3,481 4,756 2,315 356	901 473 184 3,724 366 1,553 17,853 10,918 6,803 5,577 611 372 43	593,300 515,700 157,600 4,572,600 285,000 1,135,400 13,023,300 9,909,100 5,872,300 5,017,500 5,64,00 462,700 38,700 12,500	9, 192, 900 4, 938, 600 2, 338, 600 25, 430, 700 ° 2, 496, 700 14, 307, 800 125, 1990, 200 70, 282, 960 57, 767, 400 4, 678, 500 2, 531, 400 350, 500	1,019,900 98,900 141,100 628,000 105,190 640,200 24,930,300 8,091,900 1,927,100 3,053,800 215,500 177,600 13,700
milk). Egg and poultry dealers	225 853 208 1,422 18.057 3,481 4,756 2,315 356 118 16	901 473 184 3,724 356 1,553 17,853 10,918 6,803 5,577 611 372 43	593,300 515,700 157,600 4,572,600 285,000 1,135,400 13,023,300 9,909,100	9, 192, 900 4, 938, 600 2, 338, 600 25, 430, 700 ² 2, 496, 700 14, 307, 800 237, 154, 400 125, 690, 200 70, 282, 990 57, 767, 400 4, 678, 500 2, 531, 400	1,019,900 98,900 141,100 628,000 105,169 640,200 24,930,300 8,091,900 1,927,100 3,053,600 215,500 177,600 18,700
milk) Egg and poultry dealers Milk dealers (incomplete) ² . Delicatessen stores Fruit and vegetable stores. Grocery stores without meat departments. Grocery stores with meat departments! Meat markets Meat markets with groceries. Fish markets. Coffee, tea and spice stores. Coffee and tea stores with china General food stores.	225 853 208 1,422 18.057 3,481 4,756 2,315 356 118 16	901 473 184 3,724 366 1,553 17,853 10,918 6,803 5,577 611 372 43	593,300 515,700 157,600 4,572,600 285,000 1,135,400 13,023,300 9,909,100 5,872,300 5,017,500 5,64,00 462,700 38,700 12,500	9, 192, 900 4, 938, 600 2, 338, 600 25, 430, 700 ° 2, 496, 700 14, 307, 800 125, 1990, 200 70, 282, 960 57, 767, 400 4, 678, 500 2, 531, 400 350, 500	1,019,900 98,900 141,100 628,000 105,169 640,200 24,930,300 8,091,900 1,927,100 3,053,800 215,500 510,400 177,600 13,700 516,000
milk) Egg and poultry dealers Mik dealers (incomplete) ² . Delicatessen stores Fruit and vegetable stores. Grocery stores without meat departments. Grocery stores with meat departments! Meat markets Meat markets with groceries. Fish markets with groceries. Coffee, tea and spice stores Coffee, and tea stores with china General food stores. Food stores with non-food departments Totals. Restaurants.	225 853 208 1,422 18.057 3,481 4,756 2,315 356 113 16 6 131	901 473 184 3,724 356 1,553 17,863 10,918 6,803 5,577 611 372 43 14 254	593,300 515,700 157,600 4,572,600 285,000 1,135,400 13,023,300 9,909,100 5,872,300 5,017,500 462,700 38,700 12,500 175,000 47,561,200	9, 192, 900 4, 938, 600 2, 338, 600 25, 480, 700 2, 496, 700 14, 307, 800 237, 154, 400 125, 090, 200 70, 282, 980 57, 767, 400 4, 678, 500 2, 531, 400 350, 500 125, 000 2, 283, 000 609, 411, 709	1,019,900 98,900 141,100 628,000 105,180 640,200 24,930,300 8,091,900 1,927,100 3,053,600 177,600 177,600 13,700 516,000
milk). Egg and poultry dealers Milk dealers (incomplete)2 Delicatessen stores. Fruit and vegetable stores. Grocery stores without meat departments. Grocery stores with meat departments! Meat markets. Meat markets with groceries. Fish markets. Coffee, tea and spice stores. Coffee, tea and spice stores. Coffee and tea stores with china General food stores. Food stores with non-food departments Totals. RESTAURANTS. Cafeterias.	225 853 208 1,422 18.057 3,481 4.756 2,315 356 118 16 6 131 41,832	901 473 184 3,724 356 1,553 17,853 10,918 6,803 5,777 611 372 43 14 254 57,075	593,300 515,700 157,600 285,000 285,000 1,135,400 13,023,300 9,909,100 5,872,300 5,017,500 462,700 462,700 12,500 175,000 47,561,200 2803,700 12,395,700	9, 192, 900 4, 938, 600 2, 338, 600 25, 480, 700 2, 496, 700 14, 307, 800 237, 154, 400 125, 090, 200 70, 282, 980 57, 767, 400 4, 678, 500 2, 531, 400 350, 500 125, 000 2, 283, 000 609, 411, 709	1,019,900 98,900 141,100 622,000 105,190 640,200 24,930,300 8,091,900 1,927,100 3,053,600 215,500 177,600 13,700 46,308,700
milk). Egg and poultry dealers Milk dealers (incomplete)2 Delicatessen stores. Fruit and vegetable stores. Grocery stores without meat departments. Grocery stores with meat departments. Meat markets. Meat markets with groceries. Fish markets. Coffee, tea and spice stores. Coffee and tea stores with china General food stores. Food stores with non-food departments. Totals. RESTAURANTS. Cafeterias. RESTAURANTS.	225 853 208 1, 422 18.057 3, 481 4, 756 2, 315 313 16 6 131 41,832 37 2,815 577	901 473 184 3,724 356 1,553 17,853 10,918 6,803 5,577 611 372 43 14 254 57,075 828 16,038 642	593,300 157,690 157,690 4,572,600 285,000 1,135,400 13,023,300 9,909,100 5,872,300 462,700 38,700 12,500 47,561,200 47,561,200	9, 192, 900 4, 938, 600 2, 338, 600 25, 480, 700 2, 496, 700 14, 307, 800 237, 154, 400 125, 090, 200 70, 282, 980 57, 767, 400 4, 678, 500 2, 531, 400 350, 500 125, 000 2, 283, 000 609, 411, 709	1,019,900 98,900 141,100 628,000 105,169 640,200 24,930,303 8,091,900 1,927,100 3,033,603,600 215,500 215,500 46,388,766 555,800
milk). Egg and poultry dealers Milk dealers (incomplete)2 Delicatessen stores. Fruit and vegetable stores. Grocery stores without meat departments. Grocery stores with meat departments. Meat markets. Meat markets with groceries. Fish markets. Coffee, tea and spice stores. Coffee and tea stores with china General food stores. Food stores with non-food departments. Totals. RESTAURANTS. Cafeterias. RESTAURANTS.	225 853 208 1, 422 18,057 3,481 4,756 2,315 118 16 6 6 131 41,832 37 2,815 577 2,610	901 473 184 3,724 356 1,553 10,918 6,803 5,577 611 372 43 14 254 57,075	593,300 157,690 157,690 4,572,600 285,000 1,135,400 13,023,300 9,909,100 5,872,300 462,700 38,700 12,500 47,561,200 47,561,200	9, 192, 900 4, 938, 600 2, 338, 600 25, 480, 700 2, 496, 700 14, 307, 800 237, 154, 400 125, 090, 200 70, 282, 980 57, 767, 400 4, 678, 500 2, 531, 400 350, 500 125, 000 2, 283, 000 609, 411, 709	1,019,900 98,900 141,100 622,000 105,190 640,200 24,930,300 8,091,900 1,927,100 3,053,600 215,500 177,600 13,700 46,308,700
milk). Egg and poultry dealers Milk dealers (incomplete)2 Delicatessen stores. Fruit and vegetable stores. Grocery stores without meat departments. Grocery stores with meat departments. Meat markets. Meat markets with groceries. Fish markets. Coffee, tea and spice stores. Coffee and tea stores with china General food stores. Food stores with non-food departments. Totals. RESTAURANTS. Cafeterias. RESTAURANTS.	225 853 208 1, 422 18.057 3, 481 4, 756 2, 315 313 16 6 131 41,832 37 2,815 577	901 473 184 3,724 356 1,553 17,853 10,918 6,803 5,577 611 372 43 14 254 57,075 828 16,038 642	593,300 515,700 157,600 285,000 285,000 1,135,400 13,023,300 9,909,100 5,872,300 5,017,500 462,700 462,700 12,500 175,000 47,561,200 2803,700 12,395,700	9, 192, 900 4, 938, 600 2, 338, 600 25, 480, 700 2, 496, 700 14, 307, 800 237, 154, 400 125, 090, 200 70, 282, 980 57, 767, 400 4, 678, 500 2, 531, 400 350, 500 125, 000 2, 283, 000 609, 411, 709	1,019,900 98,900 141,100 628,000 105,190 640,200 24,930,300 8,091,900 1,927,100 3,053,800 215,500 510,400 177,600
milk). Egg and poultry dealers	225 853 8208 1, 422 18.057 3.481 4.756 2.315 350 113 16 6 131 41,832 37 2.815 577 2.610	901 473 184 3,724 3,724 3,724 1,553 17,853 10,918 6,803 5,577 611 372 43 14 254 57,075 828 10,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,038 6,03	593,300 157,690 157,690 4,572,600 285,000 1,135,400 13,023,300 9,909,100 5,872,300 462,700 38,700 12,500 47,561,200 47,561,200	9, 192, 900 4, 938, 600 2, 338, 600 25, 430, 700 2, 496, 700 14, 307, 800 125, 1990, 200 70, 282, 990 57, 767, 400 4, 678, 500 2, 531, 400 125, 000 2, 283, 000	1, 019, 901 98, 904 141, 101 628, 061 105, 161 640, 200 24, 930, 300 1, 927, 101 3, 053, 600 13, 701 137, 600 146, 363, 764 555, 801 1, 415, 401 1, 405 1, 085, 301 60, 801 50, 201

¹In addition, bakeries reporting to the Census of Industry had retail sales of \$50,339,863. ²In addition, dairies reporting to the Census of Industry had retail sales of \$30,970,735.

33.—Retail Merchandise Trade in Canada, by Group and Kind of Business, 1938—concluded.

Note.—Figures are preliminary and subject to revision.

			· <u> </u>	_	
Group and Kind of Business.	Stores.	Em- ployees.	Salaries and Wages.	Net sales.	Stocks on Hand, End of Year (at Cost).
AUTOMOTIVE GROUP.	No.	No.	\$	\$	<u> </u>
Motor vehicle dealers	2,366	17,087	24,557,700	245,830,100	26,546,800
Used car establishments	73	151	165,700 561,700	245,830,100 1,778,700	175,500 814,760
Accessory, tire and battery shops Battery, brake and electrical shops	159 86	438 204	238,000	3,856,500 1,188,800	188,300
Tire shops	139	222	273,900	2,369,900	326,000
Filling stations. Filling stations (accessories and refresh-	2,027	2,683	2,690,300	24,815,300	1,004,000
menta)	2,629	2,748	2,392.000	27, 163, 000	1,555,500
Garares	5,260 9	10,068 24	10,545,600	71,379,400 78,400	5,459,600
Body, fender and paint shops	5	17	26,400 21,400	76,900	11,200 7,200
Bicycle shops	158	142	21,400 132,700	875,600	239,200
Bicycle and motorcycle shops	50 18	119 62	135,200 74,900	1,097,100 528,400	244,600 104,700
Motor-boat dealers	32	64	78,300	469,900	210,400
Aircraft and accessory shops	8	27	81,400	212,900	78,300
Totals	13,019	34,656	41,525,200	381,720,500	36,966,000
OTHER RETAIL STORES.	aor :	800	ph# 000	1 814 100	, ,,,,,
Book stores and circulating libraries News dealers and stationers	289 390	896 1,000	995,900 756,300	4,843,600 5,767,100	1,906,600 1,516,100
Coal and wood dealers	2,387	9,955	10,920,100	97,241,700	8,066,300
Ice dealers	263 2,825	1.425 6,546	919,100 7,077,500	2,680,700 55,131,500	260,200 18,303,600
Drug stores with fountain	736	2,890	3,087.900	21,581,100	5,122,300 3,917,400
Feed stores	1,233	1,958	1,924,500	33,108,800	3,917,400
егз	3.379	2,583	3,114,200	29,569,600	7,267,200
Farm implements (agencies)	1,393 767	1,060	37,500	1,952,600	102,100
Farm implements, autos, gas, oil, etc Florists	689	1,909	1,050,100 1,943,900	14,109,300 9,221,300	2,831,700 869,900
Art and gift shops	141	263	216,600	1,520,300	686,900
Same and toy stores	7 194	14 262	7,200 198,800	63,500 1,789,900	18,600 702,900
Jewellery stores Leather and findings stores	1.524	3,805	4,992,100	29,224,400	16,805,900
Leather and findings stores	26 79	39 244	48,600 279,800	383,200 1,699,100	97,000 581,400
Harness shops	577	180	142,700	1,851,300	859,200
Musical instrument and music stores Musical instrument and radio stores	113 358	203 2,178	285,200 3,260,200	1,249,300 19,756,500	637,200 3,591,400
Electrical and radio stores	570	1,613	2,024,900	14,185,900	2,288,300 780,100
Office and school supply dealers	69	354	491,100	2,782,000	780,100
Office and store furniture and equip- ment dealers	71	613	1,099,400	5,122,900	957,700
Office appliance dealers	121	884	1,635,500	6,176,400	1,218,400
Store fixture dealers. Typewriter dealers.	73	18 861	23,000 1,389,100	118,700 3,933,700	65,100 1,056,400
Athletic and playground equipment dealers.		i	1		' '
Opticians	322	17 459	22,100 696,800	147,000 3,183,100	41,000 535,800
Opticians Scientific and medical instrument deal-		· .	'''	, .,	,
Seeds, bulbs and nursery stock stores .	39 121	244 1,018	363,000 588,000	1,926,600 3,116,000	592,900 665,500
Sporting goods stores	102	236	1 357 900 i	2,878,900	797,600
Sporting goods and toy stores Tobacco stores and news-stands	32 6 50	61 695	59,100 557 apr	570,800 8,038,900	168,300 1,129,100
Tobacco stands (hotels, etc.)	63 t	682	59,100 557,000 609,200 1,103,100	4,789,200 10,976,300	656,960
Tobacco stores without foods	489 609	809 543	1,103,100 485,300	10,976,300	1,495,100
Liquor stores and taverns	1,243	5.838	7,905,300	6,740,500 131,375,700	983,800 983,300
Not otherwise specified	3,052	5,355	5, 130, 100	30,745,860	7,472,700
Tetals	25,572	57,756	65,797,496	569,553,210	184,911,900
SECOND HAND STORES. Totals	1,340	1,429	1,319,300	8,957,100	2,847,900
Grand Totals	121,942	394,451		2,805,075,800	497,190,000
A10-1-4 - A40-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1	***,***	740,002,000	, , , , , , , , , , , , , , , , , , ,	201,104,000

Retail merchandising in Canada is analysed by type of operation in Table 34. This analysis is first applied to all retail stores and, following this, to some particular kinds of retail business which have been most subject to chain system organization. Single stores under independent ownership accounted for 71.52 p.c. of the total retail merchandise sales in 1930. Included in this percentage are the sales of single stores in voluntary chains or co-operative buying organizations, which amounted to 4.09 p.c. of the total. The sales of the units of sectional and national chains were 18.91 p.c. of the total and those of local chains 1.82 p.c. Two- and three-store multiples accounted for 7.75 p.c. of the total sales. For certain of the larger cities, the business of department stores belonging to national organizations has been taken with that of independent stores.

34.—Types of Operation of Stores Engaged in Retail Merchandising in Canada, 1936.
Nore.—Figures are preliminary and subject to revision.

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Type of Operation.	Stores.	Em- ploy- ees.	Salaries aud Wages.	Net Sales.	Proportion of Net Sales.	Stocks on Haud, End of Year (at Cost).
ALL Stores.	No.	No.	\$	\$	p.c.	\$
Single store independents Single stores (in voluntary chains) Two-store multiples. Three-store multiples Local chains (4 stores and over). Sectional and national chains.		9,076	7,529,500 19,044,400 8,572,800 6,189,800	1,891,472,200 114,788,000 151,187,100 65,932,200 50,942,800 530,753,500	4 · 09 5 · 38 2 · 37 1 · 82	355,583,400 21,178,700 29,685,100 12,560,400 5,828,900 72,403,500
Totals	121,942	301,454	308, 631, 600	2,805,075,800	100-00	497,190,000
Daug Storis.						
Single store independents. Single stores (in voluntary chains) Two-store multiples Three-store multiples. Local chains (4 stores and over) Sectional and national chains Totals.	26 313 96 122 175	6,263 81 1,143 377 625 947	90,800	50,821,100 654,700 8,150,900 2,423,700 4,538,900 10,123,300	0.86 10.63 3.16 5.91 13.20	17, 158, 800 208, 300 2, 431, 000 685, 090 815, 800 2, 127, 000
# VIA-3	- 0,001					20,200,000
FILLING STATIONS.						
Single store independents. Two-store multiples. Three-store multiples. Local chains (4 stores and over). Sectional and national chains.	3,776 83 48 47 702	2,770 235 132 96 2,198	2,153,700 242,000 136,700 96,300 2,453,600	31,470,400 2,413,400 1,593,100 1,126,900 15,374,500	4 · 65 3 · 06 2 · 16	1,883,700 104,100 74,500 18,400 478,800
Totals	4,658	5,431	5,082,340	51,978,30 0	100.00	2,559,500
GROCERY STORES,						
Single store independents	14,703 1,983 185 65 202 919	9,533 3,252 359 182 780 3,747	6, 475,000 2, 295, 200 308, 100 163, 200 630, 400 3, 151, 400	130, 806, 200 39, 520, 200 4, 049, 800 2, 012, 100 9, 388, 600 51, 377, 500	55·15 16·67 1·71 0·85 3·95 21·67	17,011,200 3,868,100 394,800 175,600 485,600 2,995,600
Totals	18,057	17,853	13,023,300	237,154,400	100-00	24,930,300

34.—Types of Operation of Stores Engaged in Retail Merchandising in Canada, 1830 —concluded

Note.—Figures are preliminary and subject to revision.

Type of Operation.	Stores.	Em- ploy- ees.	Salaries and Wages:	Net Sales.	Proportion of Net Sales.	Stocks on Hand, End of Year (at Cost).
	No.	No.	•	\$	p.c.	\$
COMBINED GROCERY AND MEAT STORES.						
Single store independents	3,742 793 150 51 65 995	2,363 549 215 444	6, 166, 000 2, 153, 300 563, 800 243, 700 500, 800 5, 299, 000	80,589,200 27,493,800 5,579,400 2,269,100 4,319,300 62,606,800	15.03 3.06 1.24	5,717,400 1,845,500 344,300 163,600 190,100 2,884,600
Totals	5,796	16, 495	14,926,600	182,857,600	100-00	11,145,500
Restaurants.						
Single store independents	5,665 6 139 32 47 226	14.	12,128,200 9,600 1,350,100 342,300 864,300 2,449,400	63,606,800 82,000 5,530,300 1,517,700 3,312,600 12,490,600	0.10	2,310,300 700 163,200 13,600 122,600 223,800
Totals	6,115	22,885	17,143,900	86,540,000	100.00	2,774,200
Shor Stores. Single stores independents	1,200 76 87; 74 46 161	1,976 233 279 298 170 742	2,312,700 305,100 405,300 355,800 178,500 748,700	19,782,600 2,787,200 3,084,000 2,671,000 1,373,100 6,645,300	54·44 7·67 8·48 7·34 3·78 18·29	9, 145, 400 1, 298, 400 1, 282, 800 979, 500 445, 100 1, 480, 100
Totals	1,644	3,698	4,306,100	24, 243, 249	100-00	14,631,300
Women's Ready-to-Wear Stores. Single store independents. Two-store multiples. Three-store multiples. Local chains (4 stores and over). Sectional and national chains.	1,452 142 61 31 141	4,061 611 655 112 1.016	4,058,100 728,800 514,800 80,300 741,900	34,873,300 5,006,200 3,672,900 703,700 6,942,800	68·12 9·78 7·17 1·37 13·56	8, 491, 400 1, 096, 200 585, 800 155, 300 958, 400
Totals	1,827	6,455	6,123,900	51,198,900	100.00	11,287,100

The retail merchandise trade in Canadian cities of over 10,000 population is shown in Table 35. The cities are arranged in descending order according to their 1931 census populations. A notable feature of these figures is the wide variation in different cities in the relationship between population and retail sales. In general per capita sales are high for cities which form distributing centres for large or populous areas, while such sales are lowest in residential or industrial satellite cities adjacent to larger centres, as in the case of St. Boniface, Man., Sandwich, Ont., and Verdun, Outremont, Westmount and Hull, Que.

35.—Retail Merchandise Trade in Cities of 10,000 Population and over, 1930.

Norn.—Figures are preliminary and subject to revision.

City.	1931 Popula- tion.	Stores.	Employ- ees.	Salaries and Wages.	Net Sales.	Stocks on Hand, End of Year (at Cost).
	No.	No.	No.	\$	\$	\$
Montreal	818,577	11,986	49,915	51,763,800	387,807,700 373,775,300	57,244,300
Toronto Vancouver	631,207 246 503	8,869 3,784	45,918 15,270	52,982,900 16,232,700	373,775,300 123,872,500	47,929,800 17,586,500
Winnipeg	246,593 218,785 155,547	2,614	15,611 7,710	17.526,000 8,137,200	136,658,000	10,108,300
HamiltonQuebec	155,547 130,594	2,100 1,780	7,710 6,222	8,137,200 5,731,000	86,319,500° 48,642,000	9,693,100 9,910,500
Ottawa	126,872	1,730	7,349	7,748,400	58 749 800	10,369,700
Calgary	83,761	1,140	5,049	6.268,000	50,616,400	8,493,300
EdmontonLondon	79,197 71,148	1,047 1,101	4,149 4,070	4,730,100 4,432,000	37, [85, 200 35, 417, 000	6,138,600 5,082,900
Windsor, Ont	63,108	901	8,443	[-4,362,200]	35,417,000 28,906,400	4,585,700
VerdunHalifax	60,745 59,275	544 883	1,478 3,294	1,443,000 3,373,900	12,024,200 31,187,900	1,417,000 4,331,600
Regina	53,209	590	3,564	4.225.000	34,530,200	5,655,200
Saint John	47,514 43,291	815 555	2,783	2,592,000	21,672,000 27,438,600	3,247,700 4,739,800
SaskatoonVietoria	39,082	759	2,900 3,323	3,341,100 3,665,200	27,139,000	5,015,200
Three Rivers	35,450	432	1,256	1,083,800	10,193,700 13,350,500	[1,898,000]
KitchenerBrantford	30, 793 30, 107	397 446	$\begin{bmatrix} 1,411 \\ 1,550 \end{bmatrix}$	1,502,500 1,574,000	13,834,700	1,962,400 1,973,500
Hull,	29, 433	438	1,010	775,100	7,870,600	1,318,500
Sherbrooke	28,933 28,641	390 122	1,229 414	1,246,600 439,700	10,980,400 3,743,400	2,067,500 463,400
Fort William	26,277	826	[I,048	1,024,300	9,749,700	1,695,800
St. Catharines	24,753	427	1,513	1,631,400	13,984,000 5,740,700	2,318,500
Westmount	24,235 23,439	134 367	668 1.437	832,900 1,453,200	12,273,600	595,000 2,083,100
Osbawa	23,439	271	869	892,200	7,732,000	1,154,700
Sydney	23.089 23,082	321 327	805 839	758,200 862,100	8,609,700 9,071,200	1,655,200 1,75F,400
Peterborough	22,827	371	1,353	1,291,500	11,277,600	1,751,400 1,772,900
Moose Jaw	21,299	300 305	1,100 940	1,269,300 980,900	11,277,600 9,909,900 8,880,400 4,129,700	I,631,600 1,350,000
GuelphGlace Bay	21,075 20,706	812	400	298,700	4, 129, 700	693,000
Moneton	20,689	260	1,771	1,787,100	20,708,500	2,279,800
Port Arthur Niagara Falis	19,818 19,046	242 353	865 1,228	997,900 1,213,500	8,710,700 11,064,300	1,863,000 1,476,300
Lachine	18,630	267	546	493,400	11,064,300 4,497,700	948,900
Sudbury	18,518 18 191	235 254	841 837	1,020,300 767,000	10,045,900 7,534,600	1,618,200 1,217,500
Stratiord	18,191 17,742	255	873	865,000	7,389,100	1,238,400
New Westminster	17,524 17,082	275 218	965 926	1,159,160 958,900	10,545,200 7,674,700	1,355,400 1,542,600
Brandon	16,305	110	209	200,300	2,079,900	198,000
North Bay	15,528	197	734	734,800	6,430,700	1 1.044.700
St. Thomas	15,430 15,345	258 172	890 395	806,400 345,000	6,623,800 3,476,600	1,292,700 883,600
Chatham, Ont East Windsor, Ont	14.569	277	932	345,000 903,900	8,208,100	1,365,600
East Windsor, Ont	14,251 14,200	136 153	248 468	315,500 549,800	3,208,400 5,532,900	515,400 1,188,600
Galt	14,006	221	673	622,100	5,270,500	978,300
Belleville	13,790	240 210		848,000	7,577,500	1,368,000 1,446,600
Lethbridge	13,489 18,448	210 201	861 463	1,026,400 403,100	8,481,100 4,277,900	994,900
Owen Sound	12.839	235	721	638,400	5,603,100	1.153.100
Charlottetown	12.361 11,877	205 124	625 301	506,800 296,900	4,967,200 3,251,500	1,030,900 707,700
Levis	11,724	126	289	246,500	2,568,100	565,100
Valleyfield	11,411	148 195	379 676	321,900 622,100	4,096,400 5,621,000	923,300 1,009,800
St. Jean	11,395 11,256	174	371	311,000	3,510,100 4,852,900	782,600
Corawall	11,126	217	587	531,800	4,852,900	936,300 1,026,600
JolietteSandwich	10,765 10,715	176 83	435 136	345,900 124,700	3,546,000 1,481,100	176,500
Weiland	10,709	190	497	512,700	1 5,285,400	1,024,600
Thetford Mines	10,701 10,587	110 128		185,200 193,600	1,998,300 2,157,500	510,600 574,400
Sorel	10,320	169		206,800 499,100	2,465,600 4,502,700	543,100 880,400
Medicine Hat	10,300	142	442			

Service Establishments.—The 41,094 service establishments from which reports were secured had receipts of \$236,115,200 in 1930. The professional services, such as medicine, dentistry or law, were not included in the census, nor were the building trades, such as carpentry, tinsmithing, etc. A special report is being prepared for hotels and the figures for these establishments are not included in the tables that follow. The provincial distribution of retail services in Canada during 1930 is shown in Table 36. Ontario again led in the amount of business with 42.45 p.c. of the total service receipts, while Quebec came second with 25.19 p.c.

Among service establishments, the amusements group was the most important, as 22.98 p.c. of the total receipts were reported by establishments of this class. Of the receipts of \$54,255,600 for amusement establishments, \$39,233,200 were secured by motion picture houses. The next group in importance was that of domestic service, which includes laundries and cleaning, pressing and dyeing shops. The barber shops were the most important section of the personal service group and did more than twice as much business as hairdressing and beauty parlours. The repair and service group had the largest number of establishments. Blacksmith shops were the most numerous, their receipts being only slightly less than the total for boot and shoe repair shops. Repair and service shops for motor vehicles formed an important section of this group.

The salient features of the business of service establishments are given in Table 37, which also shows the type of operation, i.e., the extent to which these establishments operate independently or are organized in chain systems. Of the total of 41,094 establishments, there were 40,088 under independent operation, while the receipts of single independent establishments formed 77 p.c. of the total of all receipts for services. Except in the case of theatres, which are separately analysed in the table, chain systems were not an important factor in the service field.

Betail Services in Canada, by Provinces, 1939.
 Nore.—Figures are preliminary and subject to revision.

Province.	Es- tablish- ments,	Proportion of Establishments.	Em- ployees.	Salaries and Wages.	Receipts.	Proportion of Receipts.	Stocks on Hand, End of Year (at Cost).
!	No.	p.c.	No.	\$		p.c.	
Prince Edward Island Nova Scotia. New Brunswick Quebec. Ontario. Mamitoba Saskatchewan Alberta	311 1.495 1.390 10.780 14.844 2,435 3,634 2.843	0.75 3.64 3.38 26.24 36.13 5.92 8.85 6.91	158 1,588 1,328 18,276 28,036 5,404 2,760 3,622	100,000 1,304,400 1,013,100 17,979,000 27,725,300 4,946,300 2,496,400 3,732,300	577,500 6,789,100 4,529,400 59,477,300 100,226,500 16,477,200 10,463,300 13,478,900	0.25 2.87 1.92 25.19 42.45 6.97 4.43 5.71	20, 400 156, 700 128, 800 1, 474, 100 2, 468, 700 317, 700 463, 400 381, 300
British Columbia Yukon and N.W.T	3.344 18	8·13 0·05	7,099 30	7,689,000 43,500	23,959,700 136,300	10·15 0·06	586,900 1,100
Canada	42,004	180-00	68,311	67,029,300	236,115,200	190 - 90	5,999,100

37.—Retail Services in Canada, by Group and Kind of Business and Type of Operation, 1930.

Note.—Figures are preliminary and subject to revision.

			· · · · · · · · · · · · · · · · · · ·		
Group and Kind of Business and Type of Operation.	Es- tablish- ments.	Em- ployees.	Salaries and Wages.	Receipts.	Stocks on Hand, End of Year (at Cost).
KIND OF BUSINESS.	No.	No.	3	\$	\$
Amosements.					
Billiard and pool halls. Bowling alleys. Motion picture houses. Other amusement places.	1,381 155 955 738	1,268 1,179 6,606 4,270	984,800 799,300 7,567,100 2,224,100	5,452,000 2,320,600 39,233,200 7,249,800	351,800 27,900 2,300 88,500
Totals	3,229	13,323	11,575,300	51,255,600	470,500
Business Services.		4 200		15 511 440	
Totals	300	1,995	3,446,000	15,511,300	68,511
CARTAGE AND STORAGE.					
Baggage and cartage Delivery service. Storage (furniture). Storage (ice and cold). Storage (other). Piano moving. Trucking.	1,668 77 22 25 35 4 626	5,370 294 348 287 383 10 1,834	5,852,300 290,200 428,600 418,800 531,100 5,800 1,811,400	14,418,100 574,900 867,800 1,218,700 1,933,100 21,100 6,880,100	59,200 7,700 500 22,800 20,700
Totals	2,457	8,526	9,338,200	25,913,500	110,900
Domestic Services.					
Cleaning carpets. Cleaning, dyeing, pressing and repairing. Dyers General cleaning. Coat and towel supplies. Laundries. Window cleaners. Hat blocking. Fur repairing. Other domestic services. Totals.	2,387 39 2,387 130	104 5,244 85 36 370 11,234 249 15 144 21	126,300 5,153,600 134,800 51,300 411,100 9,531,600 15,400 113,900 15,000 15,847,804	270, 309 13, 727, 600 1, 381, 500 74, 600 1, 415, 100 21, 565, 300 454, 900 46, 700 516, 260 61, 900 23, 493, 540	27, 508 138, 508 4, 800 29, 900 29, 900 11, 000 1, 900 423, 938
Educational Services.					
Totals	211		705,600	1,985,900	80,400
Personal Services.					
Barber shops Beauty parlours and hairdressers. Shoe shine parlours Turkish baths	2,379	5,126 2,252 624 78	4,588,300 2,004,300 331,800 70,700	16,978,300 6,107,400 1,106,400 251,900	302,700 168,900 46,600 800
Totals	10,632	8,080	6,995,100	24,444,000	519,404
Photography.					
	1	ı	1	5,421,600	1

37.—Retail Services in Canada, by Group and Kind of Business and Type of Operation, 1939—concluded.

Note. - Figures are preliminary and subject to revision.

				<u> </u>	
Group and Kind of Business and Type of Operation.	Ee- tablish- ments.	Em- ployees.	Salaries and Wages.	Receipts.	Stocks on Hand, End of Year (at Cost).
	No.	No.	\$	\$	\$
Repairs.					
Garages (general repairs)		1,115	1,190,100	4,509,800	129,900
Auto battery shops	75	84	86,500 5,800	400,200 58,300	32,800 33,800
Auto ignition and electric shops	27	44	54,200	184,200	18,600 21,700
Auto paint shops	121	197	54,200 166,300 129,300	184,200 532,300 334,800	21,700
Auto tire shops	51 80	106 67	I 60.800	347,400	13,100 25,800
Auto top and body shops	191	843	660,500 121,700	1,614,600	104,300
Auto storage. Auto washing and polishing.	76 39	117 89	121,700 77,500	515,600 192,900	22,700 200
Blacksmith shops	5.458	1,148	847,700	7,341,300	644,500
Boot and shoe shops	4,785	1,310	1,014,700	7,914,900	440,400
Harness shope	1 258	19 30	10,100 18,900	121.800 335.700	19,400 74,600
Locksmiths	123	44) 44,100	305,800	32,200
Radio repair shops	62 382	51 310	28,400 283,400	146,600 1,183,100	17,400 109,400
Watch and jewellery shops	722	218	206,700	1,449,200	405,300
Totals	13,505	5,801	5,006,780	27,488,000	2,145,100
Transportation.					1
Auto livery and tani	1,196	2,929	2,780,200	8,232,600	103,000
Bus and stage lines	149	1,191	1.801,000	5,528,700	1,300
Motor freight	493 258	2,143	2,443,200	7,779,400 516,700	18,300 1,500
Other transportation	132	621	34,400 663,200	2,110,400	1,500
Totals	2,228	6,958	7,722,000	24,167,800	124,204
Undertaking and Bureal.					
Tetals	855	1,407	1,797,300	9,377,200	1,085,900
OTHER RETAIL SERVICES.					
Tetais	1,968	2,698	3,444,800	8,054,500	541,800
Grand Totals	41,494	48,301	67,029,300	236,115,200	5,999,100
TYPE OF OPERATION.	-				
ALL ESTABLISHMENTS.	ļ				
Single independent establishments	40,088	56,883	53,098,400 800	182, 158, 200	5,644,600
Two-store multiples	362	2,896	3,550,600	13,462,700	14.300 211,600
Three-store multiples	131 107	1,688	1,883,200 1,252,800	23,200 13,462,700 5,882,200 3,764,800	33,100
Local chains (4 stores and over)	401	1.145 5,687	7,243,500	30,824,100	13,900 81,600
Totals	41,004	68,301	67, 029, 300	236,115,200	5,999,100
THEATRES.					
Single independent establishments	673	2,938	3,174,300	14,787,300	2,300
Local multi-units. Local chains (4 establishments and over)	60)		1	l	1
Sectional and national chains	203	3,956	4,945,900	25,410,700	
Totals	966	6,894	8,120,200	40,196,000	2,300
	-	1	•		•

CHAPTER XVIII.—TRANSPORTATION AND COMMUNICATIONS.

Canada is a country of continental dimensions, nearly 4,000 miles in length from east to west, with its relatively small population of 10,376,786 in the main thinly distributed along the southern borders of its vast area. Different parts of the country are shut off from each other by areas which are almost wildernesses. such as the region lying between New Brunswick and Quebec and the areas north of lakes Huron and Superior, the last dividing the industrial region of Ontario and Quebec from the agricultural areas of the prairies. To such a country with such a population, producing, like our western agriculturists, mainly for export, or, like our manufacturers, largely for consumption in distant portions of the country itself, cheap transportation is a necessity of life. Before 1850, when the water routes were the chief avenues of transportation and were closed by ice for several months each year, the business of the central portions of the country was reduced to a state of relative inactivity during the winter. The steam railway was therefore required for the adequate economic development of Canada, more particularly for linking up with the economic and industrial world the vast productive areas of the Canadian West, and thus promoting their development. construction of the Canadian Pacific Railway gave to Canada, as an economic unit, length; the building of the newer transcontinental railways has given the country breadth.

Railway transportation, though essential, is nevertheless expensive, particularly in recent years, and for bulky and weighty commodities: Hence new enterprises have either been undertaken or are under consideration for improving water communication, such as the new and deeper Welland canal, the deepening of the St. Lawrence canals and of the channel between Montreal and Quebec, and the development of the Hudson Bay route.

Problems of transportation are, therefore, of vital importance in the economic life of Canada, occupying a large part of the time and thought of our Parliaments and public men. Scarcely less important, from the social and the economic points of view, is the development of methods of communication in a country so vast and so thinly peopled. The Post Office has been a great though little recognized factor in promoting solidarity among the people of different parts of the Dominion, while telegraphs and telephones have gone far to annihilate distance; the rural telephone, in particular, has been of great social and economic benefit in country districts. The use of the automobile has also been of great benefit in promoting social intercourse and in facilitating the transaction of business among the dwellers of both urban and rural districts. The press, again, assisted by cheap telegraph and cable rates, and reaching, through the mails, all parts of the country, has been of use in developing national sentiment. To sum up, it may be said that the progress of modern inventions, not least among which is the radio, has greatly improved living conditions in both rural and urban communities throughout the Dominion.

Part I of this chapter includes a statement of the tendencies toward monopoly which have made it necessary to establish a measure of government control over those transportation and communication agencies which are not governmentally-owned and operated; to this is added an account of the origin and functions of the Board of Railway Commissioners. The subsequent parts deal in order with steam railways, electric railways, express companies, roads, motor vehicles, air navigation, canals, shipping, telegraphs, telephones, radio and the Post Office.

PART I.—GOVERNMENT CONTROL OVER AGENCIES OF TRANSPORTATION AND COMMUNICATION.

Private enterprises engaged in the transportation and communication business in Canada have, in the past 50 years, shown the same tendency toward consolidation and amalgamation which has been evident elsewhere throughout the civilized world. The basic reason for such consolidation and amalgamation has been the fact that the business of transportation and communication is, generally speaking, a "natural monopoly", i.e., a type of enterprise in which service can be more efficiently and economically rendered to the public where one or a few concerns control a particular type of service throughout the country. The outstanding example of these consolidations in Canada in our time is the concentration of control of the railways of the country in the hands of the Canadian Pacific Railway Company and the Canadian National Railway Company.

However, since such control brings with it an element of monopoly and possible overcharge which is distasteful to the public, it has in Canada, as in other countries, been deemed advisable to set up authorities controlling the rates to be charged and the other conditions on which services to the public are to be rendered by common carriers. This control, so far as railways within the jurisdiction of the Dominion Government are concerned, has been placed in the hands of the Board of Railway Commissioners, whose authority has been extended to cover various other means of transportation and communication. A brief summary of the history and functions of this body follows on pp. 644-5.

Besides the Board of Railway Commissioners, dealing with the larger public utilities coming under the jurisdiction of the Dominion Government, there exist, in several of the provinces, bodies which undertake among their duties the supervision and control of local public utilities operating under the jurisdiction of the provinces, and the regulation of their rates for service. Among these is the Railway and Municipal Board of Ontario, established in 1906, which controls the construction, operation and maintenance of railways, and the approving of their rates and their rules and regulations affecting the public. Similarly, in Quebec, a Commission of Public Utilities was established in 1909 and was given superintendence over all Quebec corporations, other than municipalities, "that own, operate, manage or control any system, works, plant or equipment for the conveyance of telegraph or telephone messages or for the conveyance of travellers or goods over a railway, street railway or tramway, or for the production, transmission, delivery or furnishing of heat, light or power, either directly or indirectly to or for the public". In Nova Scotia there is a Board of Commissioners of Public Utilities and in Manitoba a Public Utilities Commission with similar functions, while in the three westernmost provinces these same duties are performed by provincial Departments of Railways.

Due to changing conditions and increasing complexities in the transportation field, the Dominion Government appointed in 1931 a Royal Commission to inquire into the whole problem of transportation in Canada, particularly in relation to railways and shipping and communication facilities, having regard to present conditions and the probable future development of the country. (See pp. 648-50.)

The Board of Railway Commissioners for Canada.1

In the early days of railway building in Canada, the provinces were more concerned with rapid development than with rate regulation. Under the Railway Clauses Consolidation Act of 1851, rates were fixed by the directors of the railway, subject to the approval of the Governor in Council. Beyond this, competition was relied upon to bring rates to a reasonable level. As time went on, however, those who believed in the efficacy of competition as a regulator were disillusioned. For example, complaints were made that the Grand Trunk gave low through transit rates, say from Chicago to New York, through Canada, and recouped itself by high non-competitive rates in Upper Canada. In 1888, the supervision of rates was assigned to the Railway Committee of the Privy Council, sitting in Ottawa.

At the turn of the century, two reports were prepared for the Department of Railways and Canals by Professor S. J. McLean, the first setting down the experience of railway commissions in England and the United States, and the second discussing Canadian rate grievances, with a recommendation that regulation by commission be adopted in Canada. The second report found that non-competitive rates were exorbitant as compared with competitive rates and that the railways had exercised their right to vary rates without notice, to the great distress of shippers. Among the weaknesses of the Railway Committee as a rate-regulating body was its fixed station at Ottawa, which made the cost of appearing before it practically prohibitive. Besides, members of Parliament had no necessary aptitude for dealing with railway rates, and of their two functions—legislative and administrative—the legislative was to them the more important.

The Board of Railway Commissioners for Canada, as provided for by the amended Railway Act of 1903, was organized on Feb. 1, 1904. In the beginning, its membership consisted of a Chief Commissioner, a Deputy Chief and one Commissioner. In 1908 the membership was increased by the inclusion of an Assistant Chief Commissioner and two other Commissioners. According to the Act, the Board may be divided into two sections of three members but, since any two constitute a quorum, two Commissioners usually hear all but the more important cases, and, agreeing, give the decision of the Board.

The powers of the Commission, in brief, are in matters relating to the location, construction and operation of railways. The most important of these powers has to do with rate regulation. Passenger rates are divided into standard and special, freight rates into standard, special and competitive. Standard rates are maximum rates and the only ones which must be approved by the Board before they are applied. Special and competitive rates, being less than maximum rates, may be applied by railways without the Board's approval, provided that a change of rates has been advertised. But important rate adjustments usually come to the notice of the Commission, for the changed rate alters the extent of the territory in which a shipper can compete and on this account he is apt to appeal the case to the Commission. It is a knotty problem to mark the boundaries of competitive areasto decide whether Nova Scotian manufacturers should be given rates which would allow them to compete west of Montreal, or again, whether high construction and operation costs in British Columbia should enforce a rate which prevents her goods from moving far into the prairies. By an amendment to the Railway Act, the regulation of telephone, telegraph and express rates was given to the Commission, but with narrower powers than were given to it in dealing with railways.

Revised by A. D. Cartwright, Secretary, Board of Railway Commissioners for Canada.

The procedure of the Board is informal, as suits the nature of its work, for experience has shown that hearings in strict legal form give the parties to the argument uncompromising attitudes. If possible, matters are settled by recommendations to the railway company or the shipper; thus, during 1932, 98 p.c. of the applications to the Board were settled without formal hearing. The Railway Committee had kept its station at Ottawa, giving only formal hearings, so that the grievances of those who could not afford to appear in person or pay counsel went unredressed. The itineraries of the Railway Commission are arranged so that evidence may be taken at the least expense to those giving it.

The Chief or Assistant Chief Commissioner, depending upon which one is presiding, gives final judgment on points of law when, in the opinion of the Commissioners, the question is one of law. On questions of fact the findings of the Board are final and are not qualified by previous judgments of any other court. Questions of law and jurisdiction are differentiated. In the first case, the Board may, if it wishes, allow an appeal to the Supreme Court; in the second, the applicant needs no permission to present his appeal.

The Railway Committee of the Privy Council, being a Committee of the Cabinet, was responsible to Parliament. When the powers of the Committee were made over to the Railway Commission the responsibility was retained, but necessarily by a different means. There is now provision for an appeal from any decision to the Governor General in Council, who may also of his own motion rescind or vary the action of the Board, but the power to rescind or vary usually consists in referring to the Board for reconsideration. From its inception until Dec. 31, 1932, the Board gave formal hearing to 10,028 cases. Its decision was appealed in 107 cases, 65 of these being to the Supreme Court of Canada and 42 to the Governor General in Council. Of the appeals 12 of those carried to the Supreme Court were allowed and 3 of those to the Governor General in Council.

PART II.—STEAM RAILWAYS.¹ Section 1.—Historical Sketch.

Construction was begun on the first Canadian railway in 1835. This was a line only 16 miles long between St. Johns and Laprairie, Quebec, intended to expedite the journey between Montreal and New York. It was opened for traffic in 1836, being operated at first with horses, for which steam locomotives were substituted a year later. About the same time, a line 6 miles long was built in Nova Scotia from Stellarton to a loading point on Pictou harbour to haul coal from the mines to vessels. On this line also the motive power was at first provided by horses, but in the spring of 1839 the "Samson", a locomotive built in England, brought over in a sailing vessel, and still preserved in Halifax, was put in operation. A railway from Montreal to Lachine was opened in 1847 and another line to St. Hyacinthe in 1848. In 1850, however, there were only 66 miles of railway in Canada.

Commencement of the Railway Era—The Grand Trunk.—The railway era in Canada may be said to have begun in 1851, when an Act was passed providing for the construction of a main line of railway between the two Canadas. The

Revised and checked by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This branch publishes an annual report on Steam Railways, as well as numerous other reports, for a full list of which the reader is referred to Chapter XXIX of this volume.

result was the completion of the Grand Trunk Railway between Montreal and Toronto in 1856, its extension westward to Sarnia in 1859, and eastward to Rivière du Loup in 1860. The Atlantic and St. Lawrence Railway, from Portland, Maine, to the Canadian boundary, was leased for 999 years and in 1859, on the completion of the Victoria bridge across the St. Lawrence at Montreal, the Grand Trunk had a through route 800 miles long from Portland to Sarnia. A line from Detroit to Port Huron was leased in 1859, the Champlain roads in 1863, the Buffalo and Lake Huron in 1867, while the Chicago and Grand Trunk was completed from Port Huron to Chicago in 1880. In 1881 the Georgian Bay and Lake Erie system (171 miles) was incorporated, and in the following year the Great Western (904 miles) and the Midland systems (473 miles) were also incorporated into the Grand Trunk. In 1888 the Northern Railway, which had been opened from Toronto to Barrie in 1853, and the Hamilton and Northwestern Railway were taken over by the Grand Trunk. In 1891 the completion of the St. Clair Tunnel gave direct communication with the railways of the United States. In the 1870's the gauge had been changed from the original 5' 6" to the standard gauge of 4' 83"

Construction of the Intercolonial.—An intercolonial railway between the Maritime Provinces and Canada had been proposed as early as the 1830's. In 1844 the Imperial Government made a survey for a military road, and in 1851 agreed to recommend to Parliament either a guarantee of interest or an advance of the sum required to build a railroad. Differences of opinion as to the route resulted in the project being dropped, but in 1853 Nova Scotia undertook to construct by 1862 a trunk line from Halifax to the New Brunswick frontier, with branch lines to Pictou and Victoria Beach. In both Nova Scotia and New Brunswick, however, the scheme of an intercolonial railway broke down for lack of funds, and in 1867 there were only 374 miles of railway in the Maritimes-229 miles in New Brunswick, including lines from Saint John to Shediac and from St. Andrews to Richmond; 145 miles in Nova Scotia, including lines from Halifax to Truro and Windsor, and from Truro to Pictou. These, under the B.N.A. Act, passed to the Dominion Government. The latter undertook the completion of the railway, and in 1876 the line was opened. In 1879 the Rivière du Loup branch of the Grand Trunk was acquired, and in 1898 the Drummond Counties Railway from Chaudière Junction to Ste. Rosalie Junction was leased and running rights obtained from the latter point over the Grand Trunk tracks into Montreal, the Intercolonial thus becoming a competitor for the business of the commercial metropolis of Canada.

The First Transcontinental Railway—The C.P.R.—As early as 1849 a pamphlet published by Major Carmichael-Smyth advocated the construction of a Canadian Pacific railway nearly along the present route. In 1851 a Parliamentary Committee reported against undertaking the enterprise at that time. In 1871 the terms under which British Columbia entered Confederation bound the Dominion to commence the Pacific railway within two years and complete it within ten years. The building of the railway as a public work actually commenced in 1874, but was not very rapidly pushed forward. In 1880 the Government entered into a contract with the Canadian Pacific Railway syndicate, granting to the syndicate all portions of the line completed or under construction, a cash subsidy of \$25,000,000, a land grant of 25,000,000 acres, free admission of materials for construction, and protection for 20 years against competing lines. The company on its side agreed to complete the railway to a fixed standard by May 1, 1891, and thereafter to maintain it efficiently. As a matter of fact the last spike on the main line was driven on Nov. 7, 1885. Like the Grand Trunk, the Canadian Pacific Railway began to acquire

branch lines as feeders, among them being the North Shore, Quebec, Montreal, Ottawa and Occidental in 1881; the Winnipeg to Manitou line in 1882; the Ontario and Quebec, the Credit Valley and the Toronto, Grey and Bruce in 1883; the St. Lawrence and Ottawa, and the Manitoba Southwestern in 1884; the North Shore, Nova Scotia, in 1885; the Atlantic and Northwest in 1886; the West Ontario Pacific in 1887; the Sudbury and Sault Ste. Marie in 1888; the New Brunswick Railway and the Columbia and Kootenay in 1890; and the Montreal and Ottawa, and Montreal and Lake Maskinongé in 1892.

The Second Transcontinental—The Grand Trunk Pacific.—About the end of the century the Grand Trunk, which already had a line as far west as Chicago, submitted to the Canadian Government a proposal whereby it might participate in the settlement and development of the West. Lines were to be leased from Chicago via Minneapolis to Winnipeg and thence a new line, subsidized by the Government, would be built to the Pacific Coast. The Government raised objections to so much of the line lying in the United States and a second proposal was made for a connecting line with larger subsidies from North Bay to Winnipeg. Government submitted, in 1903, a counter proposal that the line, instead of terminating at North Bay, should be continued east to Moncton, New Brunswick, the eastern section from Moncton to Winnipeg to be constructed by the Government and leased to the Grand Trunk Pacific for a 50-year period, the railway paying no rent for the first seven years and 3 p.c. on the cost of the railway for the remaining 43 years. The western half of the railway from Winnipeg to Prince Rupert was to be built by the Grand Trunk Pacific, the Government guaranteeing interest on bonds to 75 p.c. of the cost of construction, not exceeding \$13,000 per mile on the prairie section and \$30,000 per mile on the mountain section. The Grand Trunk reluctantly accepted this proposition and construction of the National Transcontinental and Grand Trunk Pacific commenced.

The Third Transcontinental—The Canadian Northern Railway.—The third transcontinental railway, the Canadian Northern, was begun in 1896 with the completion by Mackenzie and Mann of the 125-mile line of the Lake Manitoba Railway and Canal Co., chartered in 1889. The charters of the Winnipeg and Hudson Bay, the Manitoba and Southeastern, the Ontario and Rainy River, and the Port Arthur, Duluth and Western were next acquired. Assisted by the Manitoba Government, which desired to establish competition with the Canadian Pacific Railway, the Canadian Northern then secured the Manitoba lines of the Northern Pacific and in 1902 completed its line from Winnipeg to Port Arthur. During the following decade, the agricultural west was filling up very rapidly and, with the public of Canada under the influence of this boom, the Canadian Northern Railway was able to secure guarantees of bonds from the Dominion and Provincial Governments to enable it to extend its lines both westward to Vancouver and eastward to Montreal and so complete the great scheme of a transcontinental road.

Effect of the War on the Railways—The Drayton-Acworth Report.— With two new transcontinental main lines, besides branches, under construction Canadian railway mileage was doubled between 1900 and 1915, increasing from 17,657 miles in the former year to 34,882 miles in the latter. The builders of the new lines, as well as the Canadian Government and people, had expected that immigration of capital and labour from Europe would rapidly settle the areas tributary to the new railroads and give them abundant and lucrative traffic, as had been the case with the C.P.R. Instead, the War came, and European labour

and capital were conscripted for the struggle; immigration fell off, while cost of operation increased, owing to the scarcity of labour and material in Canada. interest on the bonds had to be met, and in 1915 the Government felt it necessary to give assistance to the railways. In 1916, after having again made loans to the Grand Trunk Pacific Railway and the Canadian Northern Railway Co., a Royal Commission was appointed by Order in Council of July 13, 1916, to investigate: (1) the general problem of transportation, (2) the status of each of the three transcontinental systems, (3) the reorganization of any of the said systems, or their acquisition by the State, and (4) other matters considered by the Commission to be relevant to the general scope of the inquiry. Alfred Holland Smith of New York, Sir Henry Drayton of Ottawa and Sir George Paish of London, England, were originally appointed to the Commission. On the resignation of the last-named. William M. Acworth, a distinguished English authority on railways, was appointed to take his place. The majority report of the Commission, signed by Sir Henry Drayton and Mr. Acworth, has formed the basis of the subsequent railway policy of Canada. Their recommendation was that the public should take control of the Canadian Northern, of the Grand Trunk Pacific and the Grand Trunk proper, and that they should be administered on purely business principles by a board of trustees, such compensation as seemed proper to be decided by arbitration and given to the shareholders of the Canadian Northern and the Grand Trunk.

The process of the acquisition of these railways and the financial results of their operation down to the end of 1931 are described in Section 3, pp. 664 to 674.

The Royal Commission of 1931.—During 1930 and 1931 both freight and passenger traffic declined until new low records were being established each succeeding month. Freight and passenger revenues consequently decreased at alarming rates and with increasing capital expenditures and fixed charges, the financial condition of Canadian railways demanded readjustment. The dividend rate of the Canadian Pacific Railway was reduced from 10 p.c. to 5 p.c. for the second and fourth quarters of 1931 and early in 1931 it was evident that the Canadian National system would not earn the interest due on public holdings of its debentures exclusive of over \$32,000,000 interest on Government loans. To study the situation and, if possible, to remedy it, the Dominion Government appointed a Royal Commission by Order in Council P.C. 2910 dated Nov. 20, 1931. The Commission, under the chairmanship of the Rt. Hon. Lyman P. Duff, Judge of the Supreme Court of Canada, held hearings throughout the country and on Sept. 13, 1932, submitted its report.

The report condemned the unrestricted and extravagant competition of the Canadian National and Canadian Pacific Railways and the lack of co-operation in providing for the transportation needs of the country which resulted in the construction of branch lines, hotels, and other facilities far in excess of the present requirements. The Commission was of the opinion that aggressive competition should cease and its final conclusion was:

"We feel compelled, as a matter of public duty, to strike a serious note of warning to the people of Canada. Unless the country is prepared to adopt the plan we have proposed, or some other equally effective measures, to secure the efficient and economical working of both railway systems and thereby not only reduce the burden on the Federal Treasury but improve the financial position of the privately owned railway, then the only courses that would be left would be either to effect savings in national expenditures in other directions, or to add still further to the burdens under which the industries of the country are suffering by the imposition of yet further taxation. Failing the adoption of one or other of these courses, and there are obvious limits to their application, the very stability of the nation's finances and the financial credit of the Canadian Pacific Railway will be threatened, with serious consequences to the people of Canada and to those who have invested their savings in that railway".

To effect remedies it recommended:

- (1) That the board of directors of the Canadian National Railways be reduced to three trustees (from 17), and that a majority of the trustees, which must include the Chairman, should govern its decisions.
- (2) The annual budget of the railway should be under the control of the trustees and should be presented to Parliament for approval. Annual deficits should be voted by Parliament and not raised by the issue of railway securities.
- (3) A continuous audit should be made by independent auditors appointed by Parliament.
- (4) A statutory duty should be imposed upon the trustees of the Canadian National and upon the Board of Directors of the Canadian Pacific Railway to adopt as soon as practicable such co-operative measures, plans, and arrangements as may be best adapted to the removal of unwarranted duplication and unnecessary services and facilities and to co-operate and use jointly all facilities as far as feasible.
- (5) To facilitate co-operation, an arbitral tribunal composed of the Chief Commissioner of the Board of Railway Commissioners as chairman and a representative from each of the railways should be appointed to settle disputes between the railways, especially as to co-operative measures or arrangements. The tribunal may be increased by an additional representative from each railway when deemed desirable by the railways. The tribunal should have jurisdiction in relation to the following matters:
 - (a) Joint use of terminals.
 (b) Running rights and joint use of tracks where there are actual or functional duplications, or where
 - such may be avoided.
 - (c) Control and prohibition in respect of the construction of new lines and provision of facilities and additional services where no essential need of the public is involved.
 (d) The joint use of facilities where this would promote economy or permit the elimination of duplication or unremunerative services or facilities.
 - (e) Abandonment of lines, services or facilities.(f) Pooling of any part or parts of freight traffic or of passenger traffic.
 - (g) Things necessarily incidental to the above enumerated matters.

Whilst all members of this Commission concur in these recommendations which, if carried out in letter and spirit by all concerned (the Government, the public and the railways), should effect a considerable measure of relief to the taxpayers of Canada, some members would have preferred a plan which would have established a complete disassociation of the Government of Canada from the responsibilities of competitive railway management or of any direct interest therein.

The Commission also suggested a joint inquiry by the Dominion and Provincial Governments into regulation and taxation of motor vehicles using the highways. During the following session of the Dominion Parliament (1933), legislation known as The Canadian National-Canadian Pacific Act, 1933, was passed implementing the report of the Commission.

Under this Act the Board of Directors of the Canadian National Railways is replaced by a board of three trustees, the chairmanship of which is a full time position. The members are appointed for terms of five years and shall not be removed from office unless for assigned cause and on Address of the Senate and House of Commons. Decisions of the majority which must include the chairman will prevail. The trustees must submit each year estimates of requirements to Parliament through the Finance Minister and income deficits shall not be funded. The trustees shall also present annual reports to Parliament through the Minister of Railways and Canals. Continuous audit shall be made by independent auditors appointed annually by Parliament.

Under Part II of the Act the Canadian National and Canadian Pacific Railways are required to co-operate as recommended by the report of the Commission and, in addition, the railways shall divide the employment of such co-operative activities between the employees of the two railways, the division to be made by negotiations with the employees.

The co-operative measures may include:—

(a) New companies controlled by stock ownership, equitably apportioned

between the companies;

(b) Leases, entrusting agreements, or licences, or agreements for pooling and division of earnings arising from the joint operation of any part or parts of freight or passenger traffic, or express, telegraph, or other operating activities or services; (c) Joint trackage, running rights, joint ownership, or joint operating agree-

ments, depending upon the nature of the property or services included

in any co-operative plan;

(d) Joint or individual highway services, or highway and railway services combined, in any form.

In the formation of any new company, the employees in any services taken over by the new company shall be given preference.

Under Part III provision is made for the erection of a tribunal with jurisdiction as recommended by the Commission, except that clause (e) "abandonment of lines. services and facilities" is struck out.

The powers of the tribunal may be invoked by either company and decisions of the presiding officer and one member shall be final and binding on both railways, even if one railway fails to appoint a representative. The orders of the tribunal shall be binding and enforced in the same manner as orders of the Board of Railway Commissioners and shall not be subject to appeal except as to jurisdiction and only to the Supreme Court of Canada. Where an order of the tribunal conflicts with an order of the Board of Railway Commissioners the former shall prevail. Where a dispute is of substantial concern to the public, or affects any province, the presiding officer shall give due notice and the interested persons may be heard at the sitting.

The Act does not authorize the amalgamation or unified management of the two railways.

Section 2.—Statistics of Steam Railways.

The steam railways of the world may be said to have commenced their operations with the opening of the Stockton and Darlington Railway in England on Sept. 26, 1825. Between then and 1931, the mileage of the steam railways of the world had increased to an estimated total of 781,458 miles, of which figure 294,601 miles were State railways. Of the total, nearly one-third, or 253,286 miles is in the United States. Canada is second with 41,967 miles (exclusive of 341 miles of Canadian railways in the United States) and British India third with 38,736 miles. Germany has 36,344 miles, France 33,208 miles, Russia in Europe 36,701 miles, Russia in Asia 11,061 miles, Australia 28,883 miles, Great Britain and Ireland 24,360 miles, Argentina 23,430 miles, Brazil 19,560 miles and Mexico 16,406 miles.1 Canada has an average of 247 persons per mile of her railway lines.

The mileage of steam railways in operation in Canada is given by years for each year from 1850 to 1931 in Table 1, showing the first great period of construction in the 1850's, when the mileage grew from 66 to 2,065, the lull in the

¹ From Slason Thompson's Railway Statistics of the United States of America, 1931, p. 32, with revisions for Canada and United States.

1860's, the second great period of construction in the 1870's and 1880's, the lull in the 1890's, the third great period of construction between 1900 and 1917 and the subsequent falling-off in the rate of increase.

1.—Record of Steam Railway Mileage as at June 30, 1835-1919, and Dec. 31, 1919-31.

Year.	Miles in Opera- tion.	Year.	Miles in Opera- tion.	Year,	Miles in Opera- tion.	Year.	Miles in Opera- tion.	Yèar.	Miles in Opera- tion.	Year.	Miles in Opera- tion.
	No.		No.		No.		No.		No.		No.
1835 1836-46 1847-49 1850	16 54	1861 1862 1863 1864	2,189 2,189	1875 1876 1877 1878	5,782	1889 1890 1891 1892	12,628 13,151 13,838 14,564	1903 1904 1905 1906	19,431	1917 1918 1919	38,369 38,252 38,330 38,496
1851 1852 1853 1854	205 506 764	1865 1866 1867 1868 1869	2,278 2,278	1879 1880 1881 1882 1883	7,194 7,331 8,697	1893 1894 1895 1896 1897	15,627 15,977 16,270	1907 1908 1909 1910 1911		1920 1921 1922 1923 1924	38,806 39,192 39,360 39,665 40,061
1856 1857 1858 1859 1860	1,414 1,444 1,863 1,994 2,065	1870 1871 1872 1873	2,695 2,899 3,832	1884 1885 1886 1887 1888	10,773 11,793	1898 1899 1900 1901 1902	17,250 17,657 18,140	1912 1913 1914 1915 1916	30,795	1925 1926 1927 1928 1929 1930	40,352 40,352 40,572 41,024 41,409 42,075 42,308

The operated mileage in the different provinces is given for recent years in Table 2. Construction was most active in Saskatchewan and Alberta during the period covered, as will be seen from the increased mileage recorded in these provinces.

2.- Operated Steam Bailway Mileage, by Provinces, Dec. 31, 1923-31.

Province and Type of Track.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1980.	1931.
	miles.	miles.	miles,	miles.	miles.	miles.	miles.	miles.	miles.
Single Track Prince Edward Island. Nova Scotia New Brunswick Quebec. Ontario. Manitoba. Saskatchewan Alberta. British Columbia. Yukoo In United States. Totaks, Single Track.	277 1,447 1,947 4,919 10,957 4,521 6,518 4,784 3,966 58 273 39,665	276 1,427 1,942 4,882 10,947 4,520 6,942 4,818 3,976 58 273	276 1.427 1.935 4.797 10.908 4.540 7.056 4.965 4.117 58 273	276 1,426 1,935 4,767 10,870 4,296 7,268 5,048 4,072 58 336 4,352	276 1,424 1,935 4,859 10,834 4,293 7,358 5,139 4,060 58 336	276 1,421 1,935 4,910 10,866 4,293 7,551 5,307 4,071 58 336 41,424	276 1,420 1,934 4,891 10,872 4,294 7,761 5,543 4,024 58 336	286 1,418 1,934 4,891 10,938 4,420 8,166 5,607 4,021 58 336	286 1,418 1,934 4,926 10,965 4,419 8,268 5,656 4,097 58 341
Second track	2,591 9,680 51,936	2,619 10,012 52,692	2,614 1,555 9,579 54,100	2,620 1,591 9,716 54,279	2,647 1,611 9,887	2,639 1,662 10,130 55,455	2,659 1,607 10,193 55,868	2,690 1,623 10,254	2,690 1,606 10,304 56,968

Capital Liability.—The capital liability of the steam railways of Canada is shown in Table 3 for the years 1901 to 1931. The great increase after 1922 is due to the inclusion of all Government loans to railways and investment in road and equipment of Government railways as part of the capital liability of the railways. Statistics of individual lines are given in Table 4.

3.—Capital Liability of Steam Railways, June 36, 1901-19, and Dec. 31, 1919-31.

Note.—Corresponding figures for each year from 1876 to 1900 inclusive were given on p. 649 of the 1927-28 Year Book.

Year,	Stocks.	Funded Debt.	Total.	Үеаг.	Stocks.	Funded. Debt.	Total.
	\$	\$	\$		\$	\$	\$
1901 1902	424,414,814	391,696,523	816, 110, 837		1,089,114,875		
1903	460,401,863 483,770,312	404,806,847 424,100,762	865,208,710 907,871,074		1,093,885,495 1,100,301,195		1,999,880,494 2,015,124,710
1904	492,752,530	449, 114, 035			1,104,409,122	931,756,481	2,036,165,606
1905	526, 353, 951	465,543,967	991,897,918	1920	1,323,705,962	846,324,166	2,170,030,128
1906	561,655,395	504,226,234	1,065,881,629	1921	1,372,545,165		2,164,687,636
1907	588,568,591	583,369,217	1,171,937,808		1,415,623,322		2,159,277,131
1908	607,891,349	631,869,664	1,239,761,013		1,385,080,426		3,264,674,038
1909 1910	647,534,647 687,557,387	660,946,769 722,740,300	1,308,481,416 1,410,297,687		1,401,263,285 1,378,706,860		3,413,865,613 ¹ 3,471,080,909 ¹
1911	749, 207, 687	779,481,514	1,528,689,201	19262	1 261 750 406	2,144,999,6211	3,506,758,0471
1912	770.459.351	818.478.175	1.588.937.526			2, 252, 256, 367	3,582,471,615
1913	918,573,740	613.256.952	1,531,830,692			2,306,554,9961	3,668,572,6992
1914	1,026,418,123	782,402,638	1,808,820,761	1929 2	1,405,622,070	2,497,054,9071	3,902,676,977
1915	1,024,085,983	851,724,905	1,875,810,888			2,595,145,3081	4,026,469,3111
1916	1,024,264,325	868,861,449	1,898,125,774	1931 2	1,488,050,759	2,793,971,3291	4, 232,022,088

Includes all Government loans to railways and investment in road and equipment of Dominion and vincial railways.

2Does not include Canadian railway capital owned by Canadian railways. provincial railways.

4.—Mileage, Capital Liability, Earnings and Operating Expanses of Individual Steam Rallways for the calendar year 1931.

Fredericton and Grand Lake Coal and Ry. Co. Greater Winnipog Water District					
Algoma Central Terminals, Ltd 3,005.628	Railway.	Track		Earnings from	
Algoma Central and Hudson Bay 323.75 15,590,850 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,242,199 1,301,717 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,379 1,		miles.	\$	\$	\$
	Algoma Central and Hudson Bay Algoma Eastern Alma and Jonquière Brandon, Sask. and Hudson Bay British Yukon. Canada and Gulf Terminal Canada Southern. Canadian National "Eastern Lines. "Totals. Canadian Pacific. Central Vermont Railway, Inc. Crow's Nest Southern. Cumberland Railway and Coal Co. Dominion Atlantic. Eastern British Columbia Eaquimalt and Nanaimo. Essax Terminal. Fredericton and Grand Lake Coal and Ry. Co. Greater Winnipog Water District International Bridge and Terminal Co.	323-75 10-60 84-72 90-82 38-10 381-04 18,714-07 15,752-00 215-331 25-331 25-331 25-331 29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31-29 31	15,590,850 629,800 2,602,000 4,973,879 1,740,000 44,365,000 	309,070 68,157 87,986 149,101 82,190 14,153,592 148,444,022 23,231,424 171,675,446 141,999,360 171,181 1,599,153 898,025 211,788 857,671 89,678	147, 527 51, 976 98, 012 115, 935 79, 773 10, 396, 312 142, 048, 145 29, 624, 987 171, 673, 132 112, 692, 928 202, 473 61, 064 128, 738 1, 661, 174 80, 887 644, 857 146, 260 37, 274 100, 426

For footnotes see end of table, p. 653.

 Mileage, Capital Liability, Earnings and Operating Expenses of Individual Steam Railways for the calendar year 1931—concluded.

Railway.	Single Track Mileage.	Capital Liability,	Gross Earnings from Operation.	Operating Expenses.
	miles.	*	\$	\$
Massawippi Valley		800,000	_	_
Midland Hailway of Manitoba	75-76	4,800,000	245,975	330, 117
Montreal and Atlantic	184 - 60		1,296,661	1,356,02
Morrissey, Fernie and Michel	5.37	1,263,000	62,921	72,80
Napierville Junction	43.04	1,200,000	499,908	326,26
Nelson and Fort Sheppard	60-79	2,846,800	40, 186	75,78 35,40
New Brunswick Coal and Railway Co	59.74		27,775 223,140	194,46
Northern Alberta.	927-62	29, 195, 000	1.863,017	1,503,81
Ottawa and New York	58-77	2.100.000	171.134	264.58
Pacific Great Eastern	347-80	69,634,934	423,145	488,92
Père Marquette (including L.E.D.R.)	336 · 73	11,122,026	3,631,517	2,386,27
Quebec Central	364-84	-	1,727,132	1,730,07
Quebec Railway, Light and Power Co	25 - 55	5,265,671	419,788	397,64
Roberval-Saguenay	44.34	3,330,000	188,371	183,38
St. Lawrence and Adirondack Sydney and Louisburg	60-26 73-90	2,155,567 4,890,611	759,967 1,121,054	677,70 858.16
Parsiannata	113.00	3,856,336	197,155	203.51
Temiscouata. Temiskaming and Northern Ontario*	442.30	41.882.935	4.945.795	3,526,70
Thousand Islands	4-51	60,000	41,352	40.01
Foronto, Hamilton and Buffalo	111.03	10.695.000	2,294,759	1,784,81
Van Buren Bridge Co	0-36	500,000	_	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Vancouver, Victoria and Eastern	241-42	23,500,000	388,213	438,21
Wabash (in Canada)	245-40		4,813,306	4,439,28
Totals, (including trackage rights duplications)	43,341-88	4,445,795,4404	358,549,382	321,025,5 8
Canadian National (Can. and U.S.)	23,880-61		200, 505, 162	199,312,99

¹ Canadian lines only. ¹ Including capital of leased lines. ² Constructed and operated by Ontario Government Railway Commission. ⁴ Included with Quebec Central. ⁵ Includes \$173,773,352 Canadian railway capital owned by Canadian railways.

Capital Investment.—The capital investment in road and equipment of Canadian steam railways is shown in Table 5 for the calendar years 1926-31. The table gives the investment in new lines and in additions and betterments during the year, together with the cumulative total of such investments as at the end of each year. During 1931, \$22.350,280 was invested in new lines and \$42,804,071 in additions and betterments, while up to Dec. 31, 1931, a total of \$3,464,388.610 had been invested in road and equipment of Canadian steam railways. When comparison is made with the figures of Table 3, it is seen that the capital liability of the steam railways was considerably greater than the actual investment in physical property by the railways at the same date. This discrepancy is largely accounted for by the fact that the total of capital liabilities as shown in Table 3 includes loans and advances from the Government to cover deficits of the Canadian National Railways and unpaid accrued interest on such loans which, up to Dec. 31, 1931, amounted to \$354,173,113 as shown in Table 22 and between 1919 and 1922 had amounted to about \$264,000,000. A further factor in the discrepancy is that some of the outstanding railway stocks represent little actual investment in physical property.

5.—Capital Invested in Road and Equipment of Canadian Steam Railways, calendar
vears 1926-31.

Investment.	1926.	1927.	1928.	1929.	1930.	1933.
	\$	\$	\$	\$	\$	*
New Lines—						
Road	10,030,081	14,488,059	30,003,540	37,210,328	24,397,606	20,761,545
Equipment	129,645	448,649	851,447	31,125	31,167	632
General	277,356	2,807,259	488,806	869,773	536,602	1,588,103
Totals	10,437,082	17,743,967	30,843,793	38,111,226	24,985,375	22,350,280
Additions and						
Betterments-		00 400 100	00 000 000	44 445 046	40 005 501	A
Road	19.515,536	32,188,136	33,682,796	44,445,646	40,885,501	21,704,352
Equipment	2,121,625	20,081,275	11,432,446	59,240,026	32,839,021	19, 113, 108
General	2,387,982	138,644	2,659,759	3,210,802	3,380,533	1,916,857
Undistributed	1,089,943	Cr. 74,948	Cr. 75,020	30,211	Cr. 48,662	69,754
Totals	25,115,086	52,333,107	47,699,981	106,926,685	77,056,393	42,804,071
Undistributed	Cr.20,649,071	1,436,902	Cr.12,454,1782	Cr. 8,878,4963	Cr.15,223,0214	Cr. 8,597,5476
Fotals, Invest- ments, as at Dec. 31	3,047,270,072		3,184,873,644		3,407,831,806	3,464,388,610

Includes a credit of \$14,944,515 on account of Hudson Bay Railway which was not operated but was returned to the Dominion Government for completion.

Summary of Traffic Statistics.—A summary of freight and passenger traffic statistics and of the ratio of operating expenses to gross earnings, continuing a series which has been compiled since 1875, will be found for the years 1911 to 1931 in Table 6. This table has, however, the defect that its figures of passengers and freight carried are not comparable throughout but have been reduced as a result of the consolidation of railways. Better tests of the real volume of passenger and freight traffic are supplied in Table 9 of this chapter under the headings "Passengers carried one mile" and "Freight carried one mile" These records, commencing in 1915, show that the maximum volume of passenger traffic was reached in the calendar year 1919 and the maximum volume of freight traffic in 1928. Both freight and passenger traffic, especially the latter, have in recent years been affected by the increase in the use of motor vehicles. This traffic decrease has been much aggravated since 1929 by the general decline in commercial activity.

The statistics of gross earnings and operating expenses illustrate the difficulties confronting our railways in recent years. Before the War it was generally held that, on account of the enormous initial investment required in roadbed and equipment, a railway's operating expenses should not exceed about two-thirds or 70 p.c. of its gross earnings, the remainder being required to meet interest on capital invested, whether represented by stocks or bonds, as well as to provide for necessary improve-

²Includes a credit of \$13.477,505 on account of Canadian National property transferred to Harbour Commissions of Halifax and Saint John.

^{*}Includes difference between purchase price of Atlantic, Quebec and Western; Kent Northern; Quebec, Montreal and Southern; and Quebec Oriental Railways and investment reported in 1928—a credit of \$7,198,024; difference between valuation of Northern Alberta Railways and investment of Alberta and Great Waterways; Central Canada; Edmonton, Dunvegan and British Columbia; and Pembina Valley Railways as at June 30, 1929—a credit of \$5,839,429; a credit of \$1,869,859 for the Hereford Railway which ceased operation; and additions and betterments to separately operated properties and other undistributed items amounting to a debit of \$5,828,816.

^{*}Credit of \$18,180,692 for Canadian Northern and Grand Trunk Pacific rails lifted during the War for use in France and other lines dismantled after consolidation of the Canadian National system.

^{*}Includes a credit of \$6,928,410 due to balance sheet transfers, and a credit of \$1,359,261 for additions and betterments to separately operated properties of Canadian National Railways and miscellaneous credits amounting to \$309,876.

ments. The ratio of operating expenses to gross earnings is called the operating ratio, and in 1913 the Canadian operating ratio was 70.90 p.c. The new conditions of the war period, especially the higher cost of labour and of fuel, increased the operating ratio, in spite of advances in freight and passenger rates, until in 1920 it reached 97.18 p.c. For 1928 there was a decline to a ratio of 78.53 p.c. which rose to 83.86 in 1930 and 89.53 in 1931. Although operating expenses for 1931 were lower than in 1930 on account of the decreases in both freight and passenger traffic, the gross revenues showed a much greater decline, reducing the net operating revenues by \$35,984,445 and increasing the operating ratio.

In Table 7 will be found an analysis of the distribution of the operating expenses of steam railways for the latest four years. The earnings and operating expenses per mile of line and per train-mile are analysed in Table 8.

6.—Summary of Steam Bailway Statistics of Freight and Passenger Traffic, and Ratio of Expenses to Earnings, years ended June 30, 1911-19, and calendar years 1919-31.

Nors-These statistics were published for the years 1875-1910 on p. 434 of the 1916-17 Year Book, and for 1931-10 on p. 591 of the 1928 Year Book.

Year.	Miles in Opera- tion.	Total Train- Miles.	Passengers Carried.	Freight Carried.	Gross Earnings.	Operating Expenses.	Ratio of Expenses to Receipts.
	No.	No.	No	tons.	\$	\$	p.c.
1911	25, 400 26, 727 29, 30, 795 35, 582 37, 604 38, 604 38, 603 38, 663 39, 363 39, 363 39, 363 40, 661 40, 352 40, 572	113,907,613 110,032,845 109,289,865 113,538,876	46, 185, 968 46, 702, 2890 46, 322, 035 43, 503, 459 48, 106, 530 44, 948, 538 43, 754, 194 47, 940, 456 51, 318, 422 46, 793, 251 44, 333, 357 42, 921, 309 41, 458, 684 42, 686, 186	89,444,331 106,992,710 101,393,989 87,204,838 100,659,088 121,916,272 127,543,687 116,699,572		182, 911, 690 178, 975, 259 147, 731, 099 180, 542, 259 222, 890, 637 231, 955, 436 41, 866, 509 376, 789, 093 478, 248, 154 422, 581, 205 393, 927, 406 413, 862, 818 382, 483, 906 389, 503, 452	70-90 73-63 73-63 73-63 68-94 71-72 82-96 89-27 92-26 92-25 89-39 86-52 85-70 78-91
1928 (") 1928 (") 1929 (") 1930 (")	41,024 41,409 42,075 42,308	125,034,253 117,645,670 107,620,076 93,443,731	40.592,792 39.070,843	141,230,026 137,855,151 115,229,511 85,993,206	563,732,260 534,106,045 454,231,650 358,549,382	442,701,270 433,077,113 380,723,411	78·53 81·08

Duplications included. See also Table 9.

7.—Distribution of Operating Expenses of Steam Rallways, calendar years 1928-31.

Item of Expenditure.	1928.		1929.	1929.			1931.	
Was and standard	\$ 97,763,472	p.c. 22·08	\$ 04 001 070	p.c. 21.71	\$ 500 500	p.c.	\$	p.c.
Way and structures Equipment Traffic expenses	101,945,151 17,995,239	23 · 02 4 · 07	100.133,913 18,431,366	23 · 12 4 · 26	82,123,281 18,942,728	20 50 21 57 4 97	65,132,979 17,559,744	5.47
Transportation General and misc. expenses.		47 · 00 3 · 83	17,545,682	4.05	17,808,490	48 28 4 68		48 · 74 4 · 91
Totals	442,701,270	1 00 - 94	433, 077, 113	100-00	380,723,411	100-00	321, 025, 588	100.00

8.—Earnings and Operating Expenses of Steam Railways per Mile of Line and per Train Mile, for the years ended June 30, 1915-19, and the calendar years 1918-31.

		I	er Mile of Li	Per Train Mile.		
Year.		Gross Earnings.	Operating Expenses.	Net Earnings.	Gross Earnings.	Operating Expenses.
1916 ("). 1917 ("). 1918 ("). 1919 ("). 1919 (Dec. 31). 1920 ("). 1921 ("). 1922 ("). 1923 ("). 1924 ("). 1925 (").		5, 616 6, 943 8, 051 8, 581 9, 947 10, 568 11, 626 11, 196 12, 098 11, 233 11, 383	\$ 4,152 4,823 5,774 7,119 8,879 9,745 12,270 10,735 10,434 9,548 9,222	\$ 1,464 2,120 2,277 1,462 1,068 923 356 901 1,188 1,664 1,685 2,161	2 : 144 2 : 358 2 : 683 3 : 696 3 : 683 3 : 817 4 : 192 4 : 376 4 : 095 4 : 199 4 : 053 4 : 166	\$ 1.58 1.62 1.92 2.49 3.29 3.52 4.07 4.03 3.66 3.63 3.47
1926 ("). 1927 ("). 1928 ("). 1929 ("). 1930 (").		12,278 12,350 13,840 18,068 10,897 8,502	9,653 10,047 10,791 10,596 9,133 7,612	2,625 2,303 3,049 2,472 1,747 890	4·347 4·269 4·509 4·540 4·221 3·837	3 · 43 3 · 48 3 · 54 8 · 68 3 · 53 3 · 43

A summary analysis of passenger and freight traffic statistics for recent years is given in Table 9, showing among other things a decline in average receipts per passenger per mile from 3.04 cents in 1921 to 2.72 cents in 1931, and a decline in the average number of passengers per train from 70 in 1919 and 64 in 1920 to 39 in 1931. Similarly, freight traffic statistics show a reduction in freight receipts per ton per mile from 1.200 cents in 1921 to 1.013 cents in 1931. The average haul for freight has been revised to show the average for all railways instead of for each railway, thereby eliminating the effects of consolidations of railways and of interchanging freight between Canadian railways. The passenger traffic has shown the effects of the competition of motor vehicles, both public and private, which in 1915, numbered only 89,944, while in 1931 they numbered 1,206,836. The average revenue per passenger increased in 1918 and 1919 with increases in rates, but the increases between 1924 and 1930 have been largely due to decreases in the short haul traffic. The increases in freight train loading and train revenues have been due to the use of larger and more powerful locomotives.

 Summary Analysis of Statistics of Passenger and Freight Services and Receipts, for the years ended June 30, 1915-19, and the calendar years 1919-31.
 PASSENGERS.

Year.	Passengers Carried.	Passengers Carried one Mile.	Passengers Carried one Mile per Mile of Line.	Average Receipts per Passenger Mile.
1915 (June 30). 1916 (No. 46, 322, 035 43, 503, 459 48, 106, 530 44, 948, 638 43, 754, 194 47, 940, 456 51, 318, 422 46, 793, 251 44, 333, 520 44, 834, 337 42, 921, 809 41, 458, 666 41, 940, 550 40, 552, 792 39, 070, 893 34, 698, 767 26, 398, 812	No. 2,483,708,745 2,727,122,643 3,150,127,428 3,161,082,402,3,658,492,716 3,522,494,856 2,960,583,955 2,814,113,531 3,076,341,444 2,872,333,579 2,910,760,498,952,309 3,146,860,693 2,997,214,817 2,422,874,871 7,748,210,503	No. 69, 802 72, 611 72, 611 79, 829 82, 140 94, 625 90, 376 75, 219 71, 497 77, 805 72, 771 74, 595 75, 522 77, 110 70, 883 58, 123 41, 452	cents. 2 · 02 1 · 95 2 · 12 2 · 55 2 · 03 2 · 92 3 · 04 2 · 82 2 · 77 2 · 76 2 · 77 2 · 66 2 · 67 2 · 77 2 · 76 2 · 77 2 · 76 2 · 77 2 · 77 2 · 76 2 · 77 2 · 77 2 · 77 2 · 77 2 · 77 2 · 77 2 · 77 2 · 77 2 · 77 2 · 77

Summary Analysis of Statistics of Passenger and Freight Services and Receipts, for the years ended June 30, 1915-19, and the calendar years 1918-31---concluded. PASSENGERS—concluded.

Year.	Average Receipts per Passenger.	Average Passenger Journey.	Average Number of Passengers per Train.	Passenger Train Revenue per Passenger Train Mile.
1915 (June 30)	1-08 1-08 1-14 1-49 1-80 2-01 2-01 2-01 2-92 1-79 1-87 1-89 1-96 2-96 2-96 2-96 2-96	miles. 54 55 59 70 70 76 68 63 63 63 77 70 73 77 74 70 66	No. 50 53 59 64 64 65 70 66 61 61 61 66 48	\$ 1.02 1.04 1.16 1.71 2.01 2.26 2.36 2.30 2.10 2.51 2.34 2.33 2.41 2.38 2.38 2.38 2.39 2.10

FREIGHT.

Year.	Freight Carried.	Freight Carried one Mile.	Freight Carried one Mile per Mile of Line.	Freight Receipts per Ton per Mile.
1915 (June 30). 1916 (tons. 71, 498, 170 89, 237, 156 98, 464, 694 102, 425, 410 95, 202, 121 91, 349, 595 100, 050, 046 83, 730, 829 87, 309, 036 102, 258, 933 94, 624, 599 105, 221, 906 106, 011, 335 118, 652, 969 115, 187, 028 96, 194, 017 74, 129, 694	tons. 17. 661, 309, 723 28. 195, 364, 264 31, 180, 707, 851 31, 129, 072, 279 27, 724, 387, 202 26, 950, 598, 322 26, 950, 598, 322 26, 621, 630, 554 30, 367, 895, 893, 34, 907, 683, 527 30, 513, 819, 106 31, 965, 204, 683, 34, 901, 652, 515 41, 510, 660, 776 35, 025, 896, 433 29, 604, 545, 125 5707, 373, 092	tons. 496, 355 753, 202 807, 948 806, 285 720, 096 697, 064 818, 309 676, 311 771, 542 861, 622 768, 649 799, 150 849, 525 863, 710 1, 021, 572 856, 945 710, 197 609, 555	cents. 0-751 0-653 0-880 0-736 0-962 1-003 1-071 1-200 1-083 1-019 1-012 1-043 1-020 1-099 1-001

		Yеаг.	Receipts per Ton Hauled,	Average Length of Freight Haul.	Average Train Load in Net Tons.	Average Load per Loaded Car Mile.	Revenue per Freight Train Mile.
			\$	miles.	tons.	tons.	\$
1915	(June 30)	} <i></i>	1.52	247	344	18-43	2-28
1916	(") 	1.68	316	411	20-91	2-69
1917	` " ')	1.77	317	436	22.24	3.01
1918	(")	1.79	303	457	23-10	3-36
1919	` « ·),	2.29	291	442	23 - 46	4.26
1919	Dec. 31)	2-43	295	434	22.21	4.36
1920	("),	2.68	319	457	23 - 05	4-89
1921	(")	3.10	318	447	22-12	5.37
1922	(")	2-91	348	481	23.03	5-00
1923	٠ 4)	2.84	333	512	26-44	5.05
1924	(")	2.92	837	494	25.45	5.03
1925	("), , ,	2.95	338	519	25 11	5 · 25
1926	(" ')	2.91	325	519	25 ·07	5.41
1927	(#)	j.,,,,,,,,,,	2.85	329	514	25.30	5-29
1928	(") 	2.93	351	557	25.96	5.54
1929	(")	2.79	304	523	24-52	5.74
1930	(")	2.80	808	509	24.34	5-55
1931	()	3-03	347	514	24-68	5 - 20

¹Duplications eliminated.

Railway Wages and Salaries.—The number of railway employees and the amount of their remuneration are naturally affected by the volume of traffic, which tends to rise in periods of active business conditions and fall in times of depression. The volume of traffic is also very directly affected by the size of the grain crops in the West. Thus it may be observed in Table 10 that the very favourable industrial and agricultural conditions of 1928 resulted in a considerable increase in the number of employees. The depression in 1929, 1930 and 1931 resulted in a reduction of \$54,873,817 in the pay roll chargeable to operating expenses during these three years, although, owing to heavy construction work in 1929, the total pay roll as shown in Table 10 was slightly higher than in 1928.

Largely because of inflated monetary conditions, the amount of salaries and wages reached a peak in 1920, but, as will be seen from Table 10, the wage bill increased from 1911 to 1920 to a much greater extent than the number of employees, viz., by 289 p.c., while employees increased by only 31 p.c. By a revision in 1926, the pay roll includes both operating and construction or capital accounts and consequently the data are not directly comparable with data for previous years.

10.—Numbers of Steam Railway Employees, Totals and Averages of Salaries and Wages, and Ratlos of the Latter to Gross Earnings and Operating Expenses, for years ended June 30, 1911-19, and for calendar years 1913-31.

Year,	Employees.	Salaries and Wages.	Average of Salaries and Wages.	Ratio to Gross Earnings.	Ratio to Operating Expenses.
	No,	\$	\$.	p.e.	p.c.
911 (June 30)		74,613,738	528	39.53	56-94
912 (")	155,901	94,237,623	604	39.79	57.92
913 (")	178,652	115,749,825	648 1	45.09	63 - 59
914 (")	159,142	111,762,972	702	45.97	62-43
915 (")	124,142	90,235,727	726	45-15	61.09
916 (")	144,770	104,300,647	721	39.82	57.95
917 (")	146,175	129,626,187	887	41.85	58.34
918 (")	143,493	152,274,953	1,061	46 - 14	55-59
919 (")	158,777	208,939,995	1,316	54.56	61-12
919 (Dec. 31)	173,728	233,323,074	1,343	57-10	61.92
920 (")	185,177	290,510,518	1,568	59.04	60.74
921 (")	167,627	247,756,138	1,478	54-09	58-63
922 (")	165,635	233, 294, 040	1,408	52.94	59 · 20
923 (")	178,052	253,320,005	1,423	52.96	61.21
924 (")	169,970	239,864,265	1,411	53 · 79	62.71
925 ("),,.,	166,027	237,755,752	1,432	52-25	63-85
926 ("),,	174,266	253,412,4241	1,4762	45 - 74 3	57-97
927 (")	176.3381	267,067,048	1,5392	48-113	58 90
928 (")	187.710	287,775,3161	1,5602	46-95ª	59-79
929 (")	187,846	290, 732, 5001	1,5802	48.858	60-24
930 (")	174,4851	268,347,3741	1,578 2	55.38*	66-07
931 (")	154,569	229, 499, 505 1	1.5142	64-013	71-49

*Owing to changes in classification, the figures for 1926, 1927, 1928, 1929, 1930 and 1931 include 8,792, 8,360,11,657,13,396,13,102 and 11,960 employees respectively, with salaries and wages of \$9,075,602, \$8,391,797, \$13,218,742, \$15,096,199, \$14,663,500 and \$13,611,637 respectively, engaged in outside operations and in classes not included prior to 1926. *Exclusive of classes specified in footnote I for 1926 and subsequent years. *The ratio percentages are for pay roll chargeable to operating expenses only for 1926 and subsequent years.

Rolling Stock.—Statistics of the rolling stock of the steam railways of Canada are given for the last seven years in Table 11. The figures may be supplemented by the statement that between 1920 and 1931 the average capacity of box cars increased from 34·779 tons to 39·086 tons, of flat cars from 33·459 to 38·949 tons, and of all freight cars from 35·141 tons to 39·551 tons. The average tractive power of the locomotive in use in 1920 was 31,112 lb. and in 1931, 37,130 lb.

11	_Balline	Stock of	Stooms	Railways.	celendar	VASTR	1925-21.
14	-80111112	STOCK OF	- IPAIR	K MI WZYK.	TAICHUAI	TEMP	1544 01.

Rolling Stock.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
LOCOMOTIVES. Passenger. Freight. Switching. Electric.	No. 1,529 3,425 769 29	No. 1,478 8,416 756 29	No. 1,488 8,384 756 32	No. 1,469 3,376 789 35	No. 1,466 3,233 796 36	No. 1,438 3,192 784 37	No. 1,392 3,168 780 40
Tetals	5,752	5,479	5,640	5,669	5,531	5,451	5,377
Passenger Cars, First class: Second class. Combination Immigrant Dining Parlour Steeping Baggage, express and postal. Other.	1,960 426 430 704 198 249 249 1,843 57	1,968 409 398 668 198 255 893 1,850 60	1,968 406 545 668 207 262 956 1,687 65 158	1,978 400 546 738 204 288 1,111 1,667 69 183	1, 999 386 512 730 218 313 1, 172 1, 653 68 199	1,980 372 492 703 218 331 1,224 1,699 73 254	1,975 364 490 644 266 310 1,235 1,698 104 536
Totals	6,839	6,848	6,922	7,184	7,250	7,346	7,61
FREIGHT CARS. BOX. Flat. Stock. Coal. Tank. Refrigerator. Other. Tetals.	154,527 22,308 12,025 23,445 466 6,286 5,170	150,499 21,631 11,746 23,663 456 6,616 6,644	151,232 21,018 11,656 23,551 462 6,802 6,062	148,717 20,335 11,312 23,278 466 6,950 5,970	151,565 19,601 10,408 22,676 495 7,579 5,432	151,500 17,728 9,479 22,251 516 8,151 5,402	152,841 17,266 9,281 23,091 512 8,464 3,316

¹ Includes pullman cars.

Commodities Hauled.—In Table 12, the duplications from two or more railways handling the same freight have been eliminated. The peak year was 1928 when agricultural products were particularly heavy. The 1931 statistics show a decrease of 22,064,323 tons, or 23 p.c. from the 1930 total and of 38 p.c. from 1928. Decreases in 1931 were general, only 10 commodities showing increases over 1930. Six of these were animal products.

12.—Commodities Hauled as Freight on Steam Railways during the calendar years 1927-31.

Now.—In this table duplications are eliminated, i.e., the same freight handled by two or more rail-ways is counted only once. In this respect these figures differ from those in the corresponding table in the 1928 and previous Year Books, and also from those of Table 6 in this chapter.

Group and Product.	1927.	1928.	1929.	1930.	1931.
GRICULTURAL PRODUCTS—	tons.	tons.	tons.	tons.	tons.
Wheat	12,295,949	17,997,862	10,816,763	9,889,323	9,523,180
Corn	751.924	858,760	846,488	663,070	437.004
Oats	1, 170, 675	1.548.811	1.347.478	993,749	1.165.758
Barley	994,794	1.463.535	1.048.602	721.897	613,237
Rye	531,681	453.093	288,606	239,879	148,748
Flax	134,303	133 133	77.928	109,444	71.934
Other grain	102,601	92.598	115.865	95,842	
Flour	2.359.657	2.374.012	2.220.102	1.822.770	
Other milled products		1.919.015	2,004,804	1,725,598	1.590.96
Hay and straw	689.722	563,301	535, 239	579.286	
Cotton	149.221	142,236	169.831	133.167	
Apples (fresh)		282,432	285,088	349.816	263,644
Other fruit (fresh)	531.811	540,217	527,642	470.303	
Potatoes		699.658	751.215	753,080	
Other fresh vegetables		348,290	845,656	323,726	
Other agricultural	733, 165	759.742	758,836	792,984	274,190
Contract afternation with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	135,100	109,192	190,830	192,984	721,641
Totals, Agricultural Products.	23.490,419	30,176,695	22,140,143	19,663,934	18, 186, 51

12.—Commodities Hauled as Freight on Steam Railways during the calendar years 1927-31—copeluded.

Group and Products.	1927.	1928.	1929,	1930.	1931,
Animal Products	tons.	tons.	tons.	tons.	tons.
Horses	92,914 666,250	102,628	124,172 658,791 76,820	91,729 466,936	68,323 457,808 67,746
Cattle and calvesSheep	666,250 70,330	622,104 64,334	658,791 76,220	466,936 72,698	457,808 67 746
Hogs	348,388	310,827	296,473	233.993	240,651
Hogs	477,790	453,061	460,807	499,408	487,295
Other packing-house products	272,790 248,602	278,614 284,653	267,629 284,892	176,205 210,210	131,325 216,071
Poultry	93,780	101,701	109 121	89,522	100, 160
Poultry Eggs. Butter and cheese.	248,602 93,780 168,598 277,691	151,299	146,968	155,442	157,909
Wool	58,533	101,701 151,299 262,759 63,166	146,968 249,266 59,094	241,064 52,518	229,526 54,896
Wool. Hides and leather.	185,265	168,635	154,483	134,014	114,241
Other animal	104,625	107,890	111,292	96,377	102,480
Totals, Animal Products	2,065,556	2,971,671	2,928,698	2,520,116	2,427,931
MINERAL PRODUCTS-	4 779 007	F 010 F40	F 140 040	4 555 504	0 100 Br.
Anthracite coal	4,552,095 14,327,884	5,212,748 13,266,158	5,109,348 14 370 779	4,574,824 12,153,738	3,167,759 9,962,001
Lignite coal	2,958,916	13,266,158 3,214,005	5,169,348 14,370,779 3,145,782	2,833,973	2,155,799
Coke	1 930 3181	1,549,428	1,719,081	1,447,005	1.189.739
Iron oreOther ores and concentrates	512,578 3,278,901 85,536 7,193,841	608,692 3 752 965	688,384 4 702 860	421,546 3,659,231	45,229 1,297,619
Base bullion and matte	85,536	3,752,965 125,370	162,781	189.437	125,674
Base bullion and matte. Clay, gravel, sand, stone (crushed)	7,193,841 346,519	7.836.974	4,702,860, 162,781 9,072,573 401,540	7,692,562 350,159	5,256,64
Slate, dimension or block stone Crude petroleum	641 644	390,665 806,202	939,509	878, 738	261,304 546,26
Asphaltum	386,928	371,283	480,541	281,450	258,640
Asphaltum Salt Other mineral	856,025 541,542	370,480 983,167	350,544	264,337 947,511	264,372
	ļ		1,069,232		1,092,404
Totals, Mineral Products	38,412,727	38,488,137	42,272,954	35,694,511	25,623,44
COREST PRODUCTS— Logs, posts, poles, cordwood	3,696,800	4,042,410	4,162,238	3,254,653	2,099,220
'11es	179,351	204,546	199,227	118.326	85.36
Pulpwood	4.821.837	5.090.938	3,951,674	3,941,747	2,098,82
Lumber, timber, box shooks, heading,. Other forest	6,606,332 637,898	6,639,247 635,915	6,404,264 586,421	3,941,747 4,507,359 557,232	3,276,337 361,730
Totals, Forest Products	15,942,218	16,613,956	15, 303, 824	12,379,317	7,921,48
	10,714,410	10,010,000	19, 400,022	18,072,011	*,0%1,200
Manufactures and Miscellaneous— Refined petroleum and its products	2,183,613	2,637,478	3,088,483	2,811,336	2,384,373
Sugar	560,558	535,744	535,477	411.917	282,276
Iron—pig and bloom	371,436 158,969	446,625 260,334	492,659 253,890	411,917 817,734 178,781	203,999 136,92
Bar and sheet iron—structural iron and]	200,004	200,000	170,101	
iron pipe	1,487,998	1,938,795	2,416,028	1,549,071	1,001,32
iron pipe. Castings, machinery and boilers Cement	661.630 1,333,256	668,974 1,493,178	713,526 1,711,985	531,145 1,350,308	307,64 1,197,78
Brick and arthroial stone	1 900.00U	1,008,582	1.051.484	649.565	390,71
Lime and plaster	441,908 95,216	475,577	489,563 125,915	367,357 88,016	296,49
Sewer pipe and drain tile	95,216	124,888	125,910	\$8,010	79,55
other than autos	490,147	552,456	485,721	318,019	139,65
Automobiles and auto-trucks	1,746,285	2,416,009	2,599,309	1,666,866	1,117,51
Household goods	75,684 110,717	75,037 114,560	62,921 128,661	51,912 86,904	55,634 64,779
FurnitureLiquor and beverages	294,337	355,973	343,017	277,901	192.10
Fertilizers, all kinds	1 445 355	377,125	568,069	807,408 2,588,015	469,244 2,292,384
Wood-pulp	2,315,206 1,477,852	2,640,459 1,430,533	2,986,674 1,338,847	2,586,915 1,018,626	786,949
Paper, printed matter, books	114,993	113,075	1,338,847 110,393	96,448	76,883 5,673
Canned meats Canned goods (all canned food products	11,634	8,889	9,027	8,403	3,077
other than meat)	385,202	426,906	452,118	383,499	307,970
	6,749,899	7,453,684 4,648,534	8,058,484 4,449,218	6,868,181 3,709,827	5,283,772 2,897,410
Other manufactures and miscellaneous.	4 590 400				
Other manufactures and miscellaneous. Merchandise	4,532,480				
Other manufactures and miscellaneous.	4,532,480 27,000,435	30,403,410	82,471,409 115,187,028	25,936,139	19,970,318

Government Aid to Private Railways.—In order that the private railways of Canada might be constructed in advance of settlement, as colonization roads or through thinly settled districts where little traffic was available, it was necessary for Dominion, Provincial and even municipal governments to extend some form of assistance. In our earlier history, when our governments had plenty of Crown land and little cash, the subsidies granted to railways frequently took the form of land grants, which had the advantage of giving the railway a direct interest in opening up the country, though they sometimes led to the railways holding large tracts of land idle for speculative purposes when intermixed Crown lands had been homesteaded, thus retarding the settlement of agricultural land. Table 13 shows the areas of the land granted as subsidies and for right of way, station grounds and townsite purposes to steam railway companies by the Dominion and Provincial Governments, with the names of the companies in the case of the Dominion Government. The total area granted up to Dec. 31, 1931, amounted to 47,400,714 acres.

As the country grew wealthier, the objections to the land grant method became more apparent, and aid was more frequently given in the form of a cash subsidy per mile of line, a loan, or a subscription to the shares of the railway. From 1851 up to Dec. 31, 1931, as shown analytically in Table 14, the total value of such aid granted to steam railways in Canada, exclusive of the capital of government railways, amounted to \$222,942,253. Of this sum, \$176,693,510 was aid granted by the Dominion Government, \$33,260,615 that granted by the Provincial Governments, and \$12,988,128 that granted by municipalities. Table 15 records the details of the most recent type of assistance given to private railways, viz., by the guaranteeing of their bonds or of the interest thereupon. These guarantees enabled the railways receiving them to borrow money at rates of interest considerably lower than would otherwise have had to be paid. The total amount outstanding on Dec. 31, 1931, was \$847,616,637.

13.—Areas of Land Granted to Steam Railways by the Dominion and Provincial Governments up to Dec. 31, 1931.

Item.	Bonus Grants.	Grants for Right of Way, Station Grounds and Townsite Purposes.	Total.
	acres.	acres.	acres.
GRANTED BY— Dominion Nova Scotia New Brunswick Quebec. Ontario Saska tchewan Alberts. British Columbia.	31,783,655 160,000 1,788,392 2,065,710 3,241,207 8,233,410	97,825 - 1,826 256 8,483	31,881,480 160,000 1,788,392 2,085,710 ¹ 3,241,207 1,826 2,56 8,241,843 ²
Totals	47,252,374	108,340	47,400,7141 3

13.—Areas of Land Granted to Steam Railways by the Dominion and Provincial Governments up to Dec. 31, 1931—concluded.

Item.	Bonus Grants.*	Grants for Right of Way, Station Grounds and Townsite Purposes.	Total.4
GRANTED TO— Canadian National Lines—	acres.	acres.	acres.
Canadian National		1.448	1.448
Canadian North Western	_	1,450	1.450
Canadian North Western Canadian Northern (main line and branches)	3,422,528	13,206	3,435,734
Canadian Northern Alberta	· · · · · -	1,582	1,582
Canadian Northern Manitoba		73	73
Canadian Northern Pacific		5,219	5,219
Canadian Northern Saskatchewan		30	30
Grand Trunk Pacific (main line)		12,960	12,960
Grand Trunk Pacific branches		1,943	1,943
Manitoba Northern	680,320	2,156	2,156
Manitoba and South Eastern	050, 320	î2	680,320 12
Qu'Appelle, Long Lake and Saskatchewan Railroad and	-	1 12	12
Steamboat Co.	1.625,344	1.900	1,627,244
Canadian Pacific Lines—	2,020,031	1,500	1,001,011
Alberta Central	-	87	87
Alberta Railway and Irrigation Co	1,101,712	1,998	1,103,710
Calgary and Edmonton	1,820,685	2,568	1,823,253
Canadían Pacific (main line)	18,206,986	30,959	18, 237, 945
Canadian Pacific branches	1,609,024	15,427	1,624,451
Columbia and Western		2	2
Great North West Central	320,000	6	320,006
Kaslo and Slocan Kettle Valley	-	2,251	2,251
Kootenay Central		2.231	2, 231 287
Lacombe and North Western.	_	230	230
Manitoba North Western	1,501,376	1.347	1,502,723
Manitoba South Western Colonization	1,396,800	296	1.397.096
Nakusp and Slocan	2,000,000	i îš l	18
Nicola, Karnloops and Similkameen	_	203	203
Saskatchewan and Western	98,880	17	98,897
Shuswap and Okanagan	-	242	242
Crow's Nest Southern		1	1
Greater Winnipeg Water District		2,352	2,352
Manitoba Rly. Co. (Nor. Pac. and Man. Rly.)		6	6
Northern Alberta Railways— Alberta and Great Waterways		0.540	2,542
Central Canada.		2,542	708
Edmonton, Dunvegan and British Columbia—		1 400	100
Main line		2,896	2.896
Grande Prairie branch		7,328	328
Northern Alberta		127	127
Pacific Great Eastern		1,324	1,324
Vancouver Power Co		10	10
Vancouver, Victoria and Eastern Railway and Navigation		. I	
Co	-	72	72
Winnipeg River		55	55
Totale	91 709 652	108,340	31,891,995
Totals	31,783,655	1 100,010 (<u> </u>

Not including convertible land grants made by the Government of Quebec. ² Includes 4.965.076 acres re-purchased from B.C. Southern, and Columbia and Western Railways. ³ Grants by Dominion Government only. ⁴ Including only the bonus grants by the Dominion Government.

14.—Analysis of the Total Financial Aid Given to Steam Railways up to Dec. 31, 1931.

By the Dominion Governmen	t.	By Provincial Governments.			
Cash subsidies	118,600,799	Cash subsidies	\$ 33,260,615		
Loans	15,142,638	Total Aid by Provinces	33,260,615		
Paid to Quebec Government	5,160,053	By Municipalities.			
Cost of lines handed over to C.P.R	37,790,025	Cash subsidies	12,988,128		
Total Aid by Dominion	176,693,510	Total Ald by Municipalities	12,388,128		
		Grand Total	222,942,253		

15.—Railway Bonds Guaranteed by Dominion and Provincial Governments, as at Dec. 31, 1931.

Government.	Outstanding Dec. 31, 1931.
	\$
New Brunswick	917.00
Intario	7,859,99
danitoba	
Saskatchewan	
British Columbia	45,186,00
Total Guaranteed by Previncial Governments	93,261, 48 754,355,148
Grand Total	847,616,65

¹ Does not include \$216,207,142 perpetual debenture stock and guaranteed stock of the Grand Trunk Railway, on which interest and dividends are guaranteed by the Dominion Government, nor Government-guaranteed bonds held by the Government itself.

Railway Accidents.—The number of passengers, employees and others killed and injured in steam railway accidents is given in summary form from 1915 to 1931 in Table 16, and in detailed analysis for 1929 to 1931 in Table 17. Between 1915 and 1931 the number of persons killed in train accidents only, decreased by 120, or 32.8 p.c., and the number injured increased by 665, or 42.1 p.c., the increases at highway crossings, due largely to careless driving by motorists, being 18 killed and 209 injured. The number of persons injured in other accidents (trackmen, shopmen, etc.), increased from 1,583 in 1915 to 4,952 in 1931; the extent of the injuries cannot be compiled or compared, but it is probable that legislation in connection with workmen's compensation results in injuries to employees being much more completely reported in the later years.

16.—Number of Passengers, Employees and Others Killed and Injured on Steam Railways, years ended June 39, 1915-19, and calendar years 1919-31.

Norz.—For the years 1888 to 1914, see Canada Year Book, 1922-23, page 635.

\$7	Passengers.		Employees.		Others.		Total.	
Year.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured
915	17	336	115	2.573	247	362	379	3,27
916		309	174	4.332	274	337	468	4,9
917	24	438	209	4.596	219	401	452	5.4
918		344	178	5.352	200	393	410	6.0
919 <u>.</u>	36	307	174	5,432	176	412	386	6,ì
919 (Dec. 31)	34	392	197	6,349	209	476	440	7,2
920	29	481	167	7,719	197	480	393	8.6
21	5	259	156	6,583	193	394	354	7.2
/22	11	369	122	8,361	208	517	341	9.2
23	15	437	167	9.382	165	539	347	10.3
24	1 19	432	127	8.862	216	514	362	9.8
925	5	401	105	8,256	199	642	309	9,2
026	20	446	127	10,622	312	638	459	11.7
92 7	[[4	569	131	11.057	256	695	401	12.8
)28	15	389	140	12,626	352	790	507	13.8
29 , ,	20	551	118	12,483	293	809	431	13.
130	15	548	103	9,678	345	837	463	liñ
31.,	l ä	399	55	5,966	202	830	260	7.

17.—Number of Persons Killed and Injured on Steam Railways in the calendar years 1929-31.

(A) In Accidents resulting from Movement of Trains, Locomotives or Cars.

74	19	29.	19	30.	19	31.
Item.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
Description of Persons— Passengers. Employees. Trespassers Non-trespassers. Postal clerks, expressmen, etc.	20 104 148 139	406 2,028 177 497 86	15 81 205 122 2	488 1,477 215 472 40	3 42 113 88	36: 1,13: 48: 20: 5:
Totals	412	8,144	425	2,692	246	2,24
Description of Accident (Employees and Passengers only)— Coupling and uncoupling Collisions Derailments Parting of trains. Locomotives or cars breaking down. Falling from trains or cars. Jumping on or off trains. Struck by trains, etc. Overhead obstruction. Other causes	2 288 17 - 1 23 11 37 - 5	165 168 268 27 19 288 360 157 19 943	6 5 12 2 20 7 40 - 3	102 115 223 31 21 187 339 138 17 792	2 8 1 5 3 15 15	7: 44 13: 3. 8: 29: 7:
Totals	124	2,434	\$6	1,965	45	1,50

(B) In Accidents other than those resulting from Movement of Trains, Locomotives or Cars.

Description of Persons.	1929.		1930.		1931.	
Description of Persons,	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
Stationmen Shopmen Trainmen and trackmen Other employees Passengers.	7	875 3,529 3,947 2,104 145 99	2 14 6 - 16	670 2,832 3,043 1,656 60 110	1 1 8 3 -	473 1,482 2,341 539 30
Totals	19	10,699	38	8,371	14	4,95

Section 3.—Origin and Growth of Government-Owned Railways.

Canadian Government Railways.—The Intercolonial Railway, built as a condition of Confederation and completed in 1876, and the Prince Edward Island Railway, opened in April, 1875, have since their construction been owned and operated by the Dominion Government. In 1903 the Dominion Government undertook the construction of the National Transcontinental Railway from Moncton, N.B., to Winnipeg, to be leased to the Grand Trunk Pacific Railway Company for a period of 50 years. However, as a result of the conditions arising from the Great War, the company was unable to take over the operation of the road when completed in 1915. The Government itself undertook its operation and was also obliged to lease the Lake Superior branch of the Grand Trunk Pacific Railway, which was isolated from the main line. A number of eastern branch lines have been acquired in recent years, including: the New Brunswick and Prince Edward Island Railway which forms the mainland connection of the Prince Edward

Island car ferry, the International Railway, the Moneton and Buctouche Railway, the Salisbury and Albert Railway, the St. Martin's Railway, the Elgin and Havelock Railway, the York and Carleton Railway, the Quebec and Saguenay Railway, the Caraguet and Gulf Shore Railway, the Lotbinière and Mégantic Railway and the Cape Breton Railway. The Saint John and Quebec, and Inverness Railways, which had been operated under lease, were purchased in 1929, together with the Kent Northern, the Atlantic, Quebec and Western, the Quebec Oriental and the Quebec, Montreal and Southern. The Hudson Bay Railway, which had 332.5 miles of steel rail at the end of 1920, was declared to be comprised in the Canadian Government Railways, and until 1926 was operated to a limited extent by the board of directors of the Canadian National Railways. In that year, as a result of the decision to complete the road, it was returned to the Department of Rail-The eastern terminus was transferred from ways and Canals until completed. Nelson to Churchill, and the line rebabilitated and extended through to Churchill. Construction of wharves and a grain elevator was completed in time to allow two cargoes of wheat to be shipped in September, 1931, to Europe. To Mar. 31, 1932, the total cost of this railway was \$31,194,693 and of terminal work at Churchill \$11,606,121, exclusive of the expenditures of \$6,274,218 on the terminal at Nelson, some of which was salvaged.1

Table 18, from the Annual Report of the Department of Railways and Canals, shows Dominion Government investments in the Canadian Government Railways to Mar. 31, 1932.

18.—Government Investments in Railways to Mar. 31, 1932.

(From the Annual Report of the Department of Railways and Canals.)

Account,		oenditure, scal Year 1932.	Total Expenditure.
Canadian Government Railways— A. Roads entructed to Canadian National Railways—	_	\$	\$
Intercolonial Railway System— Canada Eastern Railway. Cape Breton Railway. Drummond County Railway. Eastern Extension Railway. Moutreal and European Railway. Oxford and New Glasgow Railway. Intercolonial Railway.]	2,506	819,000 3,860,679 1,464,000 1,324,043 333,943 1,949,063 122,995,073
Totals, Intercolonial Railway System		2,505	132,745,801
New Brunswick and Prince Edward Island Railway Prince Edward Island Railway International Railway of New Brunswick National Transcontinental Railway Moneton and Buctouche Railway Salisbury and Albert Railway St. Martin's Railway	Cr.	1,091,296 59,185	2,963,022 169,259,000 293,067 437,648 302,046
Elgin and Havelock Railway York and Carleton Railway Quebec and Soguensy Railway. Caraquet and Golf Shore Railway. Lotbinière and Mégandic Railway. Cape Breton Railway Extension. Canadian Government Railways (rolling stock). Canadian Government Railways (miscellaneous). Quebec Bridge. Miscellaneous suspense.		23,948	135,029 59,749 7,772,911 711,767 360,008 107,647 35,882,095 345 21,706,664
Totals, Roads Entrusted to C.N.R		1,005,658	390,787,290

¹ These figures of total cost include deficits during operations and expenditures which formed part of cash loans to the Canadian National Railways and amounts chargeable to appropriations under collection of revenue in the case of the terminals, in addition to the expenditures by the Government on capital account as shown in Table 18.

18—Government Investments in Railways to Mar. 31, 1932—concluded.
(From the Annual Report of the Department of Railways and Canals.)

Account.	Expenditure, Fiscal Year 1932.	Total Expenditure.
CANADIAN GOVERNMENT RAILWAYS—concluded. B. Roads not entrusted to Canadian National Railways—	1	\$
Hudson Bay Railway Hudson Bay Railway	920,499	31,194,693 6,240,201
Hudson Bay Railway—Churchill Terminal	4,316,168	
Totals, Roads not Entrusted to C.N.R	5,265,506	49,040,613
Totals, Canadian Government Railways	6,242,326	439,827,943
Other Railways and Miscrilaneous—		222 222
Annapolis and Digby Railway	-	660,683 175,000
Central Canada Railway North Railway	_	250,000
Governor General's cars	1	71.539
Miscellaneous expenditure.]	18,000
Vukon Works Stiking Teelin Railway (nort of item under Schedule		******
Yukon Works, Stikine-Teslin Railway (part of item under Schedule "H" of Public Accounts).	_	283,324
Canadian Pacific Railway.	_	62.791,435
Grand Trunk Railway-Debenture Account	-	15,142,634
Grand Trunk Railway—Interest Account	-	10,457,458
Grand Trunk Railway—Special Account	-	7,302
Grand Trunk Railway-Preference Stock	-	121,740
Canadian Northern Railway—Purchase of Capital Stock	-	10,000,000
Loans to Railways—	1	255,408,804
Canadian Northern Railway. Grand Trunk Railway		118,582,182
Grand Trunk Pacific Railway		116.006.599
Canadian National Railways	l -	57,482,653
Loans to Railways—Purchase of equipment	_	56,926,001
Total, Other Railways and Miscellaneous		704,385,354
Grand Totals, Capital Expenditure	6,242,324	1,144,213,257

The Consolidation and Organization of the Canadian National System. -In pursuance of an Act of 1917 (7-8 Geo. V, c. 24), the Government acquired the capital stock of the Canadian Northern Railways with a mileage of 9,566.5. The insolvency of the Grand Trunk Pacific led to the appointment of the Minister of Railways as receiver on Mar. 9, 1919, and in October, 1920, the road was transferred to the Canadian National Railways. The Grand Trunk Railway was acquired under c. 13 of the second session of 1919, which provided for arbitration as to the considerations to be given to its shareholders. This arbitration finally disposed of, steps were taken to consolidate the various railways under government operation and control. In October, 1922, the Grand Trunk Board and the Canadian Northern Board gave place to a single Canadian National Board, to which the former Canadian Government Railways were turned over for management and operation. The unification of the Grand Trunk and Canadian National Railways was provided for by Order in Council of Jan. 30, 1923, which also brought into effect the Act to incorporate the Canadian National Railway Company and respecting Canadian National Railways (c. 13, 1919). This was followed, on Feb. 5, 1923, by an Order in Council establishing the head office of the Canadian National Railways at Montreal, Que.

Operation of the Canadian National Railways.—The Canadian National system's steam mileage at Dec. 31, 1931, including lines in the United States but exclusive of the Northern Alberta (which is controlled jointly by the Canadian

¹ For further details of the acquisition of the Canadian Northern, Grand Trunk Pacific and Grand Trunk Railways by the Dominion Government, see pp. 602-603 of the 1926 Year Book.

National and the Canadian Pacific Railways), was 20,538·24, which with the Eastern Lines' mileage of 3,342·37 made a total of 23,880·61. Including the Thousand Islands Railway, 4·51, and the Muskegon Railway and Navigation Co., 5·25, controlled but separately operated, the total steam mileage was 23,890·37. Including 122·8 miles of electric lines, the grand total was 24,013·17.

The Maritime Freight Rates Act (17 Geo. V, c. 44), effective July 1, 1927, ordered that the accounts of the Canadian National lines east of Lévis and Diamond Junction, Quebec, be kept separate from those of the remainder of the Canadian National system. These lines were designated the "Eastern Lines" of the Canadian National Railways. The Act ordered that specified freight rates on the Eastern Lines be reduced by 20 p.c. Other railways were allowed to make similar reductions in their freight rates in that territory and to bill on the Board of Railway Commissioners of Canada for the difference in freight receipts due to such reductions. The Government contributions to the deficits of the Eastern Lines due to these reductions are shown in Table 22. The total paid to privately owned railways under the Act was \$421,655, \$828,893, \$811,149, \$861,195 and \$669,673, respectively, for 1927-31.

For operation the Canadian National Raitways system is divided into five divisions: the Atlantic division, including all lines east of Rivière du Loup and Monk, Quebec, 3,921 miles; the central division west from these stations to Port Arthur and Armstrong and south to Portland, Maine, 7,403 miles; the Western division, all lines west of Port Arthur and Armstrong including the line to Duluth, 11,419 miles; the Grand Trunk Western, all lines in Michigan, Indiana and Illinois, 1,023 miles; and the Central Vermont from Iberville, Quebec, to New London, Connecticut, 457 miles.

The Quebec Bridge across the St. Lawrence above Quebec city, with a main span of 1,800 ft., carrying a single track railway and accommodation for motor and pedestrian traffic, forms a connecting link in the Canadian National Railways system and is operated as a part of it.

Table 19 shows some of the more important train traffic statistics of Canadian National Railways operation for the years 1930 and 1931 (excluding the Eastern Lines).

19.—Canadian National Railways (Canadian and U.S. Lines) Train Traffic Statistics, for the calendar years 1930 and 1931.2

Item.	1930.1	1931.1
Train Mileage— Passenger trains Preight trains Mired trains. Special trains. Unit cars.	21, 959, 977 24, 912, 229 2, 555, 900 20, 818 1, 247, 656	19, 203, 117 21, 223, 191 2, 625, 083 14, 771 1, 364, 366
Totals, Train Miles ²	50,696,580	44,430,528
Car mileage— Passenger— Coaches, parlour, sleeping and dining cars. Baggage, mail, express, etc.	109,390,722 53,320,958	91,571,007 47,179,956
Totals, Passenger Train Car Miles ¹	162,711,680	138,750,963

19.—Canadian National Railways (Canadian and U.S. Lines) Train Traffic Statistics, for the calendar years 1930 and 19312—concluded.

Item.	1930,1	1931,1
Freight— Loaded freight car miles. Empty freight car miles. Caboose miles. Totals, Freight Train Car Miles ² .	702,084,408 341,501,733 26,885,234 1,070,471,375	315,432,832 23,177,705
Passenger Traffic— Passengers carried (earning revenue) Passengers carried (earning revenue) one mile Passenger train miles per mile of road. Average passenger journey—miles. Average amount received per passenger Average amount received per passenger mile. Average number of passengers per train mile. Average number of passengers per car mile. Revenue from passengers per passenger mile. Total passenger train earnings per train mile. Total passenger trevenue per mile of road.	0-0278 42-79 9-98 0-2772 1-92	724,398,245 1,003 68.75 1.865 0.0271 34.54 8.50 0.2308 1.63
Freight Traffic — Tons of revenue freight carried one mile. Tons of revenue freight carried one mile. Tons of non-revenue freight carried one mile. Total tons (all classes) freight carried one mile. Total tons (all classes) freight carried one mile per mile of road. Total tons (all classes) freight carried one mile per mile of road. Average number of tons revenue freight per train mile. Average number of tons (all classes) freight per train mile. Average number of tons (all classes) freight per loaded car mile. Freight revenue per tons (all classes) freight per loaded car mile. Freight revenue per train mile. Freight revenue per train mile. Freight revenue per mile of road. Freight revenue per ton mile. Freight revenue per ton mile.	15, 192, 210, 516 1, 740, 022, 931 16, 932, 233, 447 743, 691 829, 341 558-97 623-35 24-00 300-07 0-23409 6-68 8, 087-70 3-24523	13, 186, 328, 551 1, 294, 716, 242 14, 481, 044, 793 639, 941 703, 099 550-54 614-77 24-37 339-11 0-22520 5-68 6, 498-60 3-44196

Excludes Eastern Lines and electric lines.

*Work service excluded.

Operating Finances of the Canadian National Railways.—In Table 20 "Canadian Lines" include those of the Canadian Northern system, the Grand Trunk Railway of Canada, the Grand Trunk Pacific and the Canadian Government Railways. The "United States Lines" include those lines known as the New England line, the Grand Trunk Western, the Duluth, Winnipeg and Pacific and the Central Vermont from Feb. 1, 1930. The Hudson Bay Railway was returned to the Government while under construction, and appropriations, etc., for this were not included with the 1926 and later data. The Maritime Freight Rates Act necessitated the segregation of the Eastern Lines which have been kept separate since July 1, 1927.

Gross revenues, operating expenses and net revenues shown in Table 20 include only those from steam railway and commercial telegraph operations, but the deficits are for the entire system, including the operating results of the Niagara, St. Catharines and Toronto Railway (electric) and other railways operated separately, hotels, commercial telegraphs, coastal steamships and all other outside operations.

For detailed statistics of the operation and finances of the Canadian National Railways during 1931 see the annual report of the Department of Railways and Canals for the fiscal year ended Mar. 31, 1932, and Steam Railway Statistics, 1931, published by the Dominion Bureau of Statistics, also the annual report of the Canadian National Railways.

Up to 1928 there was a marked improvement over the results of the first year after consolidation (1923), when the deficit, including profit and loss adjustments, was \$54,634,322, but the light traffic in 1932 so reduced gross revenues that, with increased interest charges, the deficit increased to \$101,335,074 in that year.

The figures of Table 20 are taken from the accounts of the railways as at Dec. 31, 1932. Adjustments have been made which result in minor changes in the items of interest and deficits for former years.

20.—Gross Revenues, Operating Expenses, Net Revenues, Interest on Funded Debt and Deficits of the Canadian National Bailways, 1 for the calendar years 1923-32.

	Railway	Operating :	Revenues.	Railway	Operating l	Erpenses. ²	Net Operating Revenues.			
Year.	Canadian Lines.	United States Lines.	Total.	Canadian Lines.			Canadian Lines,	United States Lines.	Total.	
		\$	\$			\$	\$	\$	\$	
1924	205, 232, 981	34,363,689	239,596,670	192,738,522	28,883,527	235,838,046 221,622,049 216,290,484	12,494,459	5,480,162	21,123,544 17,974,621 33,121,450	
1927	233,735,751	41, 143, 367	274, 879, 118	202,776,373	30,528,894	223,561,262 233,305,267 249,731,696	30.959.378	10,614,473	41,573,851	
1930	213,446,581	36.922.417	250.368.998	198,502,058	31.785.965	248,632,275 228,288,023 199,312,995	16.944.523	5, 136, 452	41,864,705 22,080,975 1,192,167	
1932	139,948,317	21, 155, 277	161, 103, 594	134,300,983	20,907,178	155, 208, 161	5,647,334	248,099	5,895,433	

	Interes	st on Funded l	Debt.	Def	ìcit.	Cumulative	e Deficits.4	
Year.	Public Dominion		Total,	Including Govt. Loan Interest.	Excluding Govt. Loan Interest.	Including Govt, Loan Interest.	Ercluding Govt. Loan Interest.	
	\$		\$		•	•	\$	
1923 1924 1925	35,041,380 38,361,704 40,438,235	30,157,944 31,271,043 31,450,382	65, 199, 324 69, 632, 747 71, 838, 617	54,634,323 54,474,547 41,651,270	23,203,504	54,634,323 109,108,870 150,780,140	24,476,379 47,679,883 57,880,771	
1926 1927 1928	39,197,233 ² 40,526,097 41,810,880	32,090,454 32,505,234 32,507,337	71,287,687 73,031,331 74,318,217	23, 199, 441 37, 526, 900 33, 314, 828		173,959,581 211,486,481 244,801,309	48,989,758 54,011,425 54,818,916	
1929 1930 1931	45,503,980 51,316,121 55,587,145	32,690,545 32,693,875 32,643,624	78, 194, 525 84,009, 996 88, 230, 769		41,039,816	291,411,626 365,145,318 464,420,998	68,738,688 109,778,504 176,410,560	
1932	56,965,279	35, 525, 540	92,490,819	101,335,074	65,809,534	565,756,072	242,220,004	

^{*}Includes Central Vermont Railway from Feb. 1, 1930.

^{*}Revenues and expenses, 1923-27, adjusted to include commercial telegraph lines to be comparable with 1928-31.

^{*}Interest at 4 p.c. on \$34,927,098 G.T.P. debenture stock reduced under agreement to 2 p.c.

^{*}The deficits shown are as per the accounts and include Government interest accounting adjustments of \$11,505,416 and appropriation for insurance fund of \$9,388,982, the actual cash deficit for the period being \$221,325,716, as shown in Table \$2.

The Debt and Interest Charges of the Canadian National Railways.--Table 21, which follows analyses the increase in the debt and interest charges of the system, including both Canadian and United States lines. The table shows to whom the liabilities which have accumulated up to the end of 1932 and the new funds available each year are payable. To define clearly what is included under debt due to the Dominion Government in Table 21, the appropriations for the Canadian Government Railways have been separated from the loans and advances to the remainder of the system. The Canadian Government Railways include the Intercolonial, National Transcontinental, Prince Edward Island and several other smaller railways in the Eastern Provinces, together with the Quebec Bridge. The Hudson Bay Railway was included in the Canadian Government Railways until 1926, when it was transferred back to the Department of Railways and Canals for completion, and appropriations on its account were deducted. These Canadian Government Railways appropriations do not include the operating deficits of the Canadian Government Railways for 1919 and 1920 nor the deficits of the Eastern Lines since July 1, 1927, but include investments for construction, purchase and working capital of the Canadian Government Railways and the operating deficits of these railways since their consolidation with the system in 1921, except as already mentioned. As the book value of these properties is included on the asset side of the balance sheet, the cost of these roads to the Dominion is included in the liabilities of the system as an offset. The construction or purchase of these roads was financed by the Dominion from the Consolidated Revenue Fund, and while for book-keeping purposes their cost is set up as a system liability, they are not a debt and carry no interest obligation.

In a rather different class are the loans and advances made by the Government to the Canadian National Railways or constituent companies on notes, bonds and receiver certificates with accrued simple interest ranging from 3½ to 6 p.c. In computing the public debt of Canada the Finance Department considers these railway loans and advances as "non-active assets" similar to investments in canals, public works, etc., and as such does not subtract them from the gross debt in computing the net debt; similarly, no interest is charged by the Finance Department on the railway advances. The railways, however, debit their accounts with the accrued interest on these Government advances, although no such interest has been paid.

The debt due to the public includes debenture stock maturing and perpetual, and bonds and mortgages of the constituent railways, but does not include the capital stock of the Grand Trunk Railway held by the Government, nor the cost of acquiring the same. Likewise it does not include the capital stock of the Canadian Northern system. The stock of the Grand Trunk Pacific is all held by the Canadian National system and is therefore not included either.

21.—Long-Term Debt¹ of Canadian National Railways (Including Appropriations for Canadian Government Railways), Showing Principal Outstanding at end of calendar years 1922-32, and New Funds Raised, calendar years 1922-32.

PRINCIPAL OUTSTANDING AT END OF EACH YEAR.

	Due to	Dominion Govern	ment.		ļ				
	Appropriations			Guarante	sed by—	1		a	
Year,	for Canadian Government Railways.	Loans and Advances.	Total.	Dominion Government.4	Provincial Governments.	Unguaranteed.	Total.	Grand Total.	
1922	451,712,485 453,985,308 437,412,083 436,416,387 417,279,953 417,150,141 403,443,935 405,209,246	\$ 115,607,457 506,945,969 567,870,480 560,387,968 572,685,535 594,300,307 595,583,349 614,912,221 601,446,6829 604,406,239 605,723,20714	\$ 497,602,331 1,918,337,343 1,114,183,276 1,142,296,435 1,188,482,341 1,225,663,766 1,258,096,742 1,290,216,482 1,330,006,076 1,363,788,502 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,489,823,661 1,	\$ 331,309,904 447,872,904 447,872,904 558,872,904 558,872,904 579,872,891 687,181,330 681,000,655 807,048,434 554,431,905 970,502,289	\$ 93,423,985 93,574,380 93,574,380 93,574,380 93,574,380 93,574,380 93,574,380 93,674,380 94,926,527 72,184,488 72,184,488 72,184,488	\$ 384,762,830 203,075,880 259,151,772 261,465,799 256,382,019 252,662,973 2 203,313,998 223,564,632 241,949,380 233,710,480 230,501,297	\$09, 496, 419 804, 563, 144 823, 099, 066 913, 913, 063 931, 329, 303 925, 480, 244 981, 381, 737 977, 889, 033 1, 168, 565, 863 1, 276, 467, 207 1, 264, 517, 167	2,239,478,479 2,268,105,515 2,431,244,155 2,498,571,939 2,640,245,799	

NEW FUNDS AVAILABLE DURING EACH YEAR.

1923	1,573,970	60,924,511	62,498,481	22,500,000	- Cr.	3,904,088	18,595,912	81,094,393
1924C		12, 287, 577	7,020,346 12,202,032	88,500,000 22,500,000	Çr.	2.314.027 5.083.790	90,814,027 17,416,220	83,793,681 29,618,262
1926 1927	7,227 63,718	21,614,832 1,237,982	21,622,059 Cr. 1,301,700	1,500,013 77,308,439	- Cr.	4,349,048 Cr. 21,406,946	5,849,059 55,901,493	15,773,001 57,203,192
1928 1929	165,243 113,000 C	19,373,872 r. 13,468,139 ° Cr.	19,539,115 13,353,139	23,819,325 126,047,779 Cr.	. 1.647.853 Cr.	27,312,029 Cr. 20,270,534	3,492,704 144,670,460	16,046,411 131,317,321
1930	1,674,204 1,765,305	2,960,157	4,634,361 1,765,305	47,383,561 Cr. 116,180,294		18,364,848 8,238,960	46,006,370 107,891,344	50,640,731 109,658,649
1932C	r. 39,166	91,316,968	91,277,802 Cr.	4,730,907	- Čr.	7,209,133 Cr.	11,940,040	79, 337, 762
Total Increases	5,690,13211	188.777,238	194,467,370	517,958,478 Cr.	. 21,389,892 Cr.	36,554,563	460,014,023	654,481,393

*See Table 23 for short-term loans. *Deficits of Eastern Lines are met by separate appropriations by the Dominion Government and are not included herein. *Total includes unpaid accrued interest on Government loans amounting to \$89,328,803 at the end of 1922 and increasing by some \$30,000,000 each year to the sum of \$388,930,381 at the end of 1932. *Includes \$216,207,142 perpetual debenture stock guaranteed as to interest only. *Dates at which constituent lines were taken over by Canadian National were: Canadian Northern, Sept. 30, 1917; Grand Trunk Pacific, March 9, 1919; Grand Trunk, May 21, 1920; Canadian Government, March 31, 1919 (actual date of transfer Nov. 20, 1918). *Including Hudson Bay Railway \$14,531,700. *Tepayment of temporary loan of \$14,584,639 repaid and temporary loan of \$14,594,848. *Central Vermont Railway bonds repaid and included in annual report but excluded here. *Temporary loan of \$4,834,639 repaid and temporary loan of \$8,501,500 for redemption of Central Vermont Railway bonds repaid and included in guaranteed bond issue of \$50,000,000, June 15, 1930. **Interpretate with the superopriations for Canadian Government Railways include a credit of \$42,582,630 for properties transferred to other Government Departments, etc., not representing new funds available, vis.: Hudson Bay Railway, 1928, \$15,245,688—Halifax Harbour Commission, 1928, \$12,830,122—Saint John Harbour Commission, 1928, \$12,850,122—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbour Commission, 1928, \$12,850,912—Saint John Harbou

Table 22 analyses the capital raised and expended by the Canadian National Railways. In addition to the funds available under long-term debt, as shown in Table 21, the railways have frequently had short-term loans, and have received compensation for reductions of revenue under the Maritime Freight Rates Act. The second part of the table shows how the capital thus made available has been expended.

22.—Capital Raised and Expended by Canadian National Railways, calendar years 1923-32.

CAPITAL RAISED.

Year.	Long-Term Debt.	Short-Term Loans.	Government Compensation for Eastern Lines Deficit. (M.F.R. Act.)	Total Capital Receipts.
	\$	\$	\$	\$
1923	81,094,393 83,793,681 29,618,252	Cr. 10,000,000		91,102,893 78,793,681 29,618,252
1926	15,773,001 57,203,192 16,046,411	Cr. 1,400	2,211,139 4,358,314	15,766,401 59,412,931 63,911,975
1929 1930 1931	131,317,321 50,640,731 109,656,649			137,573,025 68,110,317 97,724,120
1932	79,337,762	Cr. 35,008,251	6,635,845	50,965,356
Totals	654,481,393		33,497,558	687,978,951

CAPITAL EXPENDED.

Year	Cash Deficits.	Net Additions and Bet- terments, and Im- provements on Leased Railway Property.	Invest- ments in Miscel- laneous Physical Property.	Invest- ments in Affiliated Com- panies.	Invest- ments in Sinking and Insurance Funds.	Discount on Funded Debt.	All Other Accounts,	Total Expen- ditures.
1923 1924 1925 1926 1927 1928 1928 1930 1931 1932 Tota	22,844,217 21,395,656 8,313,830 Cr. 10,710,443 5,869,218 Cr. 7,275,990 21,974,110 32,962,841 63,038,100 62,364,176	25, 962, 188 19, 580, 428 23, 054, 63 45, 882, 882 40, 733, 163 86, 718, 700 61, 352, 880 28, 985, 360 Cr. 588, 319	15,852,279 Cr.630,904 1,407,866 214,058 3,300,991 1,781,206 5,207,474 5,301,707 1,387,477	2,473,155 6,271,577 1,658,236 1,827,421 13,026,572 Cr.6,162,879 12,066,022 1,371,140 950,736	Cr.1, 553, 788 2, 485, 483 4, 861, 296 341, 796 4, 523, 464 1, 589, 236 2, 165, 596 1, 116, 689 440, 639	3,020,620 225,620 Cr.574,099 2,060,319 994,404 3,088,068 1,856,574 3,365,813 Cr.913,404	6,643.571 Cr. 7,127,782 Cr. 3,931,750 3,217,242 8,609,371 28,584,582° Cr.47,501,070° Cr. 5,504,689 Cr. 12,675,949	68,110,317 97,724,120 50,965,356

Interest on Government loans not included. Increase in special deposits, \$25,415,179. Decrease in special deposits, \$41,175,428. Excludes transfer of \$31,583,630 investment in Central Vermont lines transferred from "Investments in Affiliated Companies" to "Investment in Road and Equipment" in 1930 accounts, also transfer of \$29,780,426 for Canadian Government Railways property transferred per footnote 11 of Table 21, \$17,230,883 for retirement of abandoned lines, principally duplicate lines of Grand Trunk Pacific and Canadian Northern, west of Edmonton, held in suspense until 1930, \$3,021,486 for Toronto Suburban Railway for which a receiver was appointed in 1931, and other miscellaneous additions and deductions.

See footnote 4 for transfer to "Investment in Road and Equipment".

The figures given in Table 22 differ somewhat from the figures given in the annual reports of the railways by reason of certain accounting adjustments (not representing new funds or expenditures) entered into the accounts during the period but excluded herefrom. It should be noted, however, that the total cash deficit of \$221,325,715 for the period 1923-32 does not include \$11,505,416 of accounting adjustments and \$9,388,962 appropriated for investment in the Insurance Fund. If these items are included, the total deficit for the ten-year period is \$242,220,094 as shown in Table 20.

Table 23 has been compiled to reconcile the investments in and loans to the Canadian National Railways (including Canadian Government Railways) as shown in the Public Accounts for the fiscal year ended Mar. 31, 1932, with the debt to the Dominion Government shown in the railway's balance sheet, Dec. 31, 1931. The last section of the table shows the adjustments to the statement in Public Accounts which make up the difference.

Table 24 shows the assets of the Canadian National Railways at Dec. 31, 1922, and at Dec. 31, 1932, with the increase or decrease for the ten-year period.

Adjustments Accounting for Difference in Railway Obligations as shown by Public Accounts, Mar. 31, 1932, and by Canadian National Railways Balance Sheet, Dec. 31, 1931.

FROM PUBLIC ACCOUNTS, MAR. 31, 1932.				
Canadian Government Railways— Schedule "E"—Miscellaneous Current Accounts— Canadian Government Railways. Schedule "G"—Public Works (railways)— Canadian Government Railways.	-	-	748, 92 787, 29	
Total, Canadian Government Railways	.\$	406.	536,21	2.06
Canadian National Railways— Schedule "L"—Railway Accounts— Loans non-active Less: Canadian Northern stock purchased.	. \$		106,23 000,00	
Total, Canadian National Railways	.\$	604,	106, 23	9,42
Total, per Public Accounts	.\$ 1	,010,	942,45	1.50
FROM CANADIAN NATIONAL RAILWAYS BALANCE SHEET, DE Dominion of Canada Account— a. Canadian Government Railways appropriations account. b. Loans from Dominion. c. Interest on loans accrued but unpaid. Total, per Canadian National Railways Balance Sheet	. \$:	405,3 604,4 354,1	209, 24 106, 23 173, 11	9.42
Difference	.\$	352,	46,14	1.62
ADJUSTMENTS ACCOUNTING FOR DIFFERENCE. Canadian Government Railways— Adjusted automatically by current differences due to closing of Railway books a Dec. 31, 1931. Canadian Railways— Advances for Working Capital (C.G.R. Stores and Open Accounts) written off to Profit and Loss Expenditures out of Cash Loans for Hudson Bay Railway Capital. Expenditures out of Cash Loans for Hudson Bay Railway Deficits. Unpaid interest accrued on Loans not set up in Public Accounts.	Cr. Cr. Cr.	354, i		7.05 6.76 3.20 3.03
Total, Adjustments to Public Accounts Accounting for Difference	.\$	252, 8	146 , L4	1.93

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24.—Assets of the Canadian National Rallways System, Dec. 31, 1922 and 1932.

Account.	Dec. 31, 1922.	Dec. 31, 1932.	Increase (+) or Decrease (-).
T		8	\$
Investments in road and equipment. Improvements on leased railway property. Sinking funds. Deposits in lieu of mortgaged property sold. Miscellaneous physical property Investments in affiliated companies. Other investments.	1,765,323,644 1,492,123 4,629,855 6,171,808 34,767,914 24,253,323 5,789,464	2,186,895,347 3,532,070 19,851,491 4,898,846 59,650,506 29,045,428 2,291,378	+871,571,703 + 2,039,947 + 15,221,636 - 1,272,962 + 24,882,592 + 4,792,105 - 3,498,086
Totals, Investments	1,842,428,131	2,256,165,066	+ 413,736,935
Current Assets— Cash. Special deposits. Loans and bills receivable. Traffic and car service balances receivable. Net balances receivable from agents and conductors Miscellaneous accounts receivable. Dominion Government, operating deficit on Eastern Lines. Materials and supplies. Interest and dividends receivable. Rents receivable. Other current assets.	14,651,422 6,139,435 11,600 2,528,622 5,386,673 16,857,420 41,408,999 112,269 106,775	7,644,258 6,298,655 627,878 3,427,483 7,237,493 887,075 84,536,179 525,494 53,974 543,092	- 7,007,104 + 159,220 - 1,900,744 - 1,959,190 - 9,619,927 + 857,075 - 6,843,820 + 448,491 - 58,295 + 436,327
Totals, Current Assets	87,580,218	62,110,581	- 25,469,637
Deferred Assetà— Working fund advances Insurance and other funds. Other deferred assets.	166,847 352,488 11,805,962	192,161 19,606 7,136,882	+ 25,314 - 332,882 - 4,669,080
Totals, Deferred Assets	12,325,297	7,348,649	— 4,976,€48
Unadjusted Derits— Rents and insurance premiums paid in advance Discount on capital stock. Discount on funded debt. Other unadjusted debits.	322,0£9 634,960 1,919,635 12,820,903	235,915 189,620 15,396,007 4,018,989	86,144 445,340 + 13,476,372 8,801,914
Totals, Unadjusted Debits	15,697,557	19,840,531	+ 4,142,974
Grand Totals	1,958,031,203	2,345,464,827	+ 387, 433, 624

¹ See footnote 11 to Table 21.

PART III.—ELECTRIC RAILWAYS.1

The cheap and reasonably rapid conveyance of human beings is a necessity of modern urban life and one important means by which this necessity is supplied throughout Canada is the electric street railway, generally operated by the hydroelectric energy which is so important a feature of Canadian economic life.

Historical.—Replacing the horse car systems, used in Montreal and Toronto as early as 1861, electric street railways were first seen in operation in Canada in 1885, when a successful experimental railway was constructed and operated at the Toronto Exhibition grounds. Before many years their safety and convenience resulted in the discarding of the older system. An electric system 7 miles in length

¹Revised and checked by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This Branch publishes an annual report on Electric Railways in Canada.

was opened at St. Catharines in 1887, using the double overhead trolley. This was followed by the completion of the Ottawa Electric Railway in 1891, and the electrification of the Montreal and Toronto systems in 1892. The street railways of other eastern cities were generally electrified during the 1890's, while in the newer western cities electricity was used from the commencement. In the cities of Eastern Canada, electric street railways are generally operated by private companies under city franchises, while in a considerable number of cities in Ontario and the West the street railways are owned and operated by the municipalities, a fact indicated in Table 28. In 1921, on the expiry of the 30-year franchise of the Toronto Street Railway Co., the railway in this second largest city of Canada was taken over by the city and is now being operated by a transportation commission.

Many difficulties are met in operating the cars during the winter season, owing to snow. This, however, has been overcome by the use of sweepers, scrapers and ploughs. The single overhead trolley system has been found the most suitable and is in general use. During the past few years an increasing number of motor buses have been used; in 1924 only 48 were operated, but by 1931 the number had increased to 547.

In addition to the street railways there is quite a large mileage of electric suburban or interurban lines, especially in the Toronto, Niagara and Lake Erie district, where considerable freight traffic is carried, and on the Pacific coast, where the British Columbia Electric Railway operates several hundred freight cars.

Development of Electric Railway Traffic.—Figures for the year 1893 show that 30 companies, with a paid-up capital of about \$9,000,000, operated 256 miles of railway. By 1897, 35 companies made returns showing 583 miles of track, 1,156 cars, 26,431,017 miles run, 83,811,306 passengers carried and capital of \$18,-727,355. In 1904, 44 companies showed 766 miles of track, 2,373 passenger cars, 42,066,124 car miles run, 181,689,998 passengers and capital of \$50,399,188. The statistics for 1931 show that during that year 52 companies with a capital of \$215,-818,096, had 1,959 miles computed as single track, 4,044 passenger cars, 547 buses, 491 freight cars and 52 electric locomotives, 133,883,489 car miles run, and 720,-468,361 fare passengers. The number of employees in the service of electric railways on Dec. 31, 1931, was 17,135, as compared with 18,340 in 1930. Total salaries and wages for the year 1931 were \$24,647,391, as against \$26,954,994 in 1930.

Statistics of Electric Railways.—Summary statistics of the operation of electric railways in Canada from 1901 to 1931 inclusive are given by years in Table 25. It may be noted in this table that the carriage of freight reached its maximum in 1928, with 3,888,672 tons, while the number of fare passengers carried in 1929 reached a new record of 833,496,866, decreasing in 1931 to 720,468,361. In Table 26 statistics of mileage and equipment are given for the latest four calendar years, and statistics of the capital liability of electric railways are furnished for the years 1908-31 in Table 27. Detailed figures of the mileage operated, the capital liability, the earnings, operating expenses, passengers carried, employees, and salaries and wages, are given for 1931 in Table 28, while Table 29 shows by years from 1919 to 1931 the number of passengers, employees and others killed and injured on electric railways in Canada.

25.—Summary of Statistics of Electric Railway Operation, years ended June 30, 1991-19, and calendar years 1919-31.

1908									
1901	Year,	Track Mileage in	Car	Passengers.	Freight.			of Expenses to	
1902	1901							p.c. 59·55	No.
1904	1902	557-59				6,486,438	3,802,855	58-63	
1905 793.12 45, 255 101 203, 447, 217 510, 350 9, 357, 125 5, 518, 194 63.25 1906 813.74 50, 618, 836 237, 655, 074 506, 024 10, 966, 871 6.675, 037 60.87 1907 814.52 53, 361, 227 273, 999, 404 479, 731 12, 630, 430 7, 373, 251 58.38 1908 988.97 60, 152, 846 314, 026, 671 -14, 611, 484 8.885, 235 60.81 10, 55 1910 1, 047.97 65, 249, 166 360, 964, 876 852, 294 17, 100, 789 10, 121, 781 59-19 11, 39 1911 1, 223.73 72, 618, 806 426, 667, 792 1, 223, 862 20, 356, 952 1, 296, 134 59-42 18, 67 1912 1, 308.17 82, 070, 064 488, 865, 682 1, 435, 525 23, 499, 250 14, 266, 675 60.71 14, 75 1913 1, 356-63 98, 905, 216 597, 863, 801 1, 977, 930 28, 216, 111 17, 765, 372 62.96 16, 36 1914 1, 560-82 98, 917, 808 614, 709, 818 1, 484, 923 26, 691, 007 19, 107, 818 64.36 61, 19 1915 1, 690-29 96, 964, 829 562, 302, 373 1, 433, 602 26, 922, 900 18, 131, 842 67.35 14, 79 1917 1, 743.54 84, 073, 046 629, 441, 997 2, 333, 538 30, 237, 664 20, 098, 634 66.47 11, 80 1918 1, 686-78 110, 206, 344 749, 334, 380 2, 374, 612 40, 698, 586 31, 385, 702 77.12 16, 94 1919 1, 686-78 110, 206, 344 749, 334, 380 2, 374, 612 40, 698, 586 31, 385, 702 77.12 16, 94 1923 1, 686-78 114, 841, 466 804, 711, 333 2687, 314 474, 742, 248 33, 598, 879 10, 747, 742, 743 379, 744, 744 11, 80 1924 1, 736-77 119, 803, 072 726, 497, 799 2, 543, 669 49, 439, 559 36, 125, 243, 730-77 17, 77, 179, 19244 1, 736-77 119, 803, 072 726, 497, 799 2, 543, 669 49, 439, 559 36, 125, 243, 730-77 17, 77, 19245 1, 635-76 133, 189, 196, 344 838, 438, 449, 849, 849, 849, 849, 849, 849, 84	1903	759-36	38,028,529	155,662,812	371,286	7,233,677		61-83	_
1906	1904	766 50	42,066,124	181,689,998	400, 161	8,453,609		63.01	
1907	1905	793 - 12	45,959,101	203,467,217					
1908	1906								
1000 098-97									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					732,475				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1909	988-97			-				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1910	1.047-07							
1913									
1914	1912								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1913								
1016 1, 673 - 77 82, 516, 672 580, 094, 167 1, 936, 674 27, 446, 225 18, 099, 906 66-02 10, 52 1917 1, 743 - 54 84, 073, 046 629, 441, 997 2, 333, 539 30, 237, 664 20, 098, 634 66-47 11, 681 1918 1, 616 - 361 84, 435, 3221 487, 585, 4561 2, 497, 5301 24, 299, 9901 17, 535, 9751 72-161 11, 646 1919 1, 686 - 581 110, 206, 344 748, 343, 380 2, 374, 612 40, 693, 566 385, 0771 75-18 17, 24 19231 1, 698 - 76 114, 481, 406 804, 711, 333 2, 687, 314 47, 047, 246 37, 242, 483 79-18 17, 34 19221 1, 686, 37 111, 576, 699 719, 305, 4412 2, 282, 292 44, 536, 382 35, 986, 872 72-47 18, 99 19232 1, 724-60 116, 711, 189 738, 908, 949 2, 441, 212 49, 660, 485 35, 986, 872 72-47 17, 97 17, 73 19232 1, 736-31 119, 374, 416 737, 282, 038 3, 141	1914	1.000.00							
1918	1919								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
1019									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
18222 1 724-60 116,711,189 738,908,949 2.441,212 49,660,485 35,986,872 72,47 18,09 19232 1,736-31 119,374,416 737,282,038 3,141,992 50,191,387 36,171,923 72-07 17,73 19242 1,736-77 119,803,072 726,497,729 2,543,669 49,439,559 36,125,213 73-07 17,37 19252 1,684-18 122,935,055 748,710,836 3,489,183 51,723,199 36,453,709 70-50 16,99 19272 1,652-15 131,583,717 781,398,194 3,285,237 53,506,401 37,616,568 70-30 18,09 19292 1,636-76 139,199,634 833,496,866 3,653,411 58,263,761 36,782,719 69-71 18,60 19302 1,508-99 140,046,000 792,701,493 2,872,929 54,719,259 39,125,515 71-50 18,38									17,015
19232 1,736-31 119.374 416 737, 282.038 3, 141, 992 50, 191, 387 36, 171, 923 72-07 17, 73 19247 1,736-77 119.803,072 726, 497, 729 2,543, 669 49, 439, 559 36, 125, 213 73-07 17, 33 1925 1,737-52 119.684, 151 725, 461, 101 2, 701, 823 49, 626, 231 35, 426, 487 71-39 16, 83 19262 1, 884-18 122, 935, 055 748, 710, 836 3, 489, 183 51, 723, 199 36, 453, 709 70-50 16, 93 19272 1, 652-15 131, 553, 717, 731, 398, 194 3, 265, 237 53, 506, 401 36, 616, 568 70-30 18, 93 19282 1, 653-22 133, 689, 589 808, 023, 615 3, 888, 672 55, 632, 761 35, 782, 719 69-71 18, 69 19282 1, 636-76 139, 199, 634 833, 496, 636 3, 653, 411 58, 268, 980 40, 085, 140 68-79 18, 69 19302 1, 508-99 140, 040, 000 792, 701, 493 2, 872, 929 54, 719, 259 39, 125, 515 71-50 18, 38	19222								18,099
1925: 1, 727-52 119, 684, 151 725, 461, 101 2, 701, 823 49, 826, 231 35, 426, 487 71, 39 16, 39 1926: 1, 684-18 122, 935, 055 748, 710, 836 3, 489, 183 51, 723, 199 36, 453, 709 70-50 16, 96 1927: 1, 652-15 131, 583, 717 781, 398, 194 3, 285, 237 53, 506, 401 37, 616, 568 70-30 18, 96 1928: 1, 653-22 133, 889, 889 808, 023, 615 3, 888, 672 55, 632, 761 35, 782, 719 69-71 18, 61 1929: 1, 636-76 139, 199, 634 833, 496, 866 3, 653, 411 58, 289, 980 40, 085, 140 68-79 18, 80 1930: 1, 508-99 140, 044, 000) 792, 701, 493 2, 872, 929 54, 719, 259 39, 125, 515 71-50 18, 38	19232	1.736-31		737, 282, 038	3,141,992	50, 191, 387		72 - 07	17,779
1926: 1 884-18 122-935.055 748.710.836 3.489.183 51.723.199 36.453.709 70.50 16.90 1927: 1 .652-15 131.583.717 781.398.194 3.255.237 53.506.401 36.761.568 70-30 18.00 1928: 1.653-22 133.689.589 808.023.615 3.888.672 55.632.761 36.782.719 69-71 18.68 1928: 1.636-76 139.199.634 833.496.866 3.653.411 58.269.990 40.085.140 68-79 18.80 1930: 1.508-99 140.045.000 792.701.493 2.872.929 54.719.259 39.125.515 71.50 18.34	19242	1,736-77	119,803,072	726, 497, 729	2,543,669		36, 125, 213	73.07	17,379
1927 ² 1,652-15 131,553,717 781,398,194 3,265,237 53,506,401 37,616,568 70-30 18,09 1928 ² 1,953-22 133,589,589 808,023,615 3,888,672 55,632,761 35,782,719 69-71 18,60 1929 ² 1,636-76 139,199,634 833,496,866 3,653,411 58,263,939 40,085,140 68-79 18,80 1930 ² 1,508-99 140,040,000 792,701,493 2,872,929 54,719,259 39,125,515 71-50 18,34	19252	1,737-52	119,684,151	725, 491, 101	2,701,823				16,933
1829: 1,653-22 133,689,589 808,023,615 3,888,672 55,632,761 35,782,719 69-71 18,66 1929: 1,536-76 139,199,634 833,496,866 3,653,441 58,263,980 40,085,140 68-79 18,80 1930: 1,508-91 140,046,000 792,701,493 2,872,929 54,719,259 39,125,515 71-50 18,34	19262	1,684-18	122,985,055	748,710.836					16,961
1929: 1,636-76 139,199,634 833,496,866 3,653,411 58,269,980 40,085,140 68-79 18,80 1930 ² 1,508-99 140,014,000 792,701,493 2,872,929 54,719,259 39,125,515 71-50 18,34									18,090
19302 1,508-99 140,014,000 792,701,493 2,872,929 54,719,259 39,125,515 71-50 18,34	19287						35,782,719		18,697
	19292								18,801
19312 1,386-06 133,883,489 720,468,361 1,977,441 49,088,310 35,367,068 72-05 17,13	19302								
	19312	1,386.06	133,883,489	720,468,361	1,977,441	49,088,310	35,367,068	72.05	17,135
		•		<u></u>	ı	l	<u> </u>	<u> </u>	·

¹Not including Montreal Transways and several other units. ²Calendar year. ³The Toronto Transportation Commission which operated for the last four months of 1921 only and did not report would increase this number by about 30,000,000 or possibly bring it up to the 1920 record.

26 .- Mileage and Equipment of Electric Rallways in the calendar years 1928-31.

Item.	1928.	1929.	1930.	1931.	Equipment.	1928.	1929.	1930.	1931.
	miles.	miles.	miles.	miles.		No.	No.	No.	No.
Length of first main track Length of second main track	f,653·22	1,636-76 565-27	ļ ⁻		open	3,576 94	3,670 106	3,625 90	8,579 76
Totals, Main Track.	l ⁻	2,202.03	2,080-36	1,958.75	ger and baggage	5 20	- 17	- 16	13
Length of sidings and turnouts	293 · 94	302-50	286 - 80	278 - 63	without electrical equipment	383	390	369	376
Totals, Computed as Single Track.	2,512.72	2,504-53	2,367-16	2,237.35	Totals, Passenger Cars	4,078	4,183	4,100	4,044
		·			Baggage, express and mail cars. Fuses. Snow ploughs. Sweepers Miscellaneous. Locomotives.	28 629 399 68 168 318	30 572 484 80 164 291	30 516 520 73 161 323 53	25 491 547 70 165 330 52
					Totals, Units of Equipment	5,749	5,879	5,776	5,724

27.—Capital Liability of Electric Railways, years ended June 30, 1808-19, and calendar years 1919-31.

Note.—The totals here given do not include \$493,346 aid paid by Governments and municipalities.

Yеаг.	Stocks.	Funded Debt.	Total.	Year.	Stocks.	Funded Debt.	Total.
	;	:		\$:	\$	
1908 1909 1910	50,295,266 51,946,433 58,653,826	39,658,556		19211,,,,,,	91,321,955 91,169,885 76,949,185	79,504,449 86,017,551 111,309,789	177, 187, 436
1911 1912 1913 1914	70,829,118		122,841,946 141,235,631 147,595,342	1923 ¹ 1924 ¹ 1925 ¹ 1926 ¹	76,674,185 76,482,085 58,567,242 57,779,518, 58,873,778	163, 201, 978	221,769,220
1916 1917 1918 1919	67,738,275 70,606,520 73,864,820 93,042,368 91,757,418	87,157,309 90,628,219 93,388,273 78,852,188 81,283,922	154,895,584 161,234,739 167,253,093	1928 ¹	50, 653, 071 54, 453, 321 53, 048, 929 45, 155, 649	170, 649, 165 167, 969, 494 171, 040, 610 170, 662, 447	221,302,236 222,422,816

Calendar year.

Mileage, Capital, Earnings, Operating Expenses, Passengers, Employees, and Salaries and Wages of Electric Railways in Canada, year ended Dec. 31, 1331.

Name of Railway.	Mileage Operated.	Capital Liability.	Gross Earnings.	Operating Expenses.	Fare Passengers Carried.	Em- ployees.	Salaries and Wages.
	miles.	\$			No.	No.	;
Brandon Municipal ¹ Brantford and Hamil-	7-65	450,000	19,910	31,235	321,006	20	20, 100
toolo	_	_	29,062	32,945	103,783		14,991
Brantford Municipal	17.73	490.500		112,504	2,292,295	64	77.380
British Columbia	220 23		5,313,866			2,037	3,211,889
Calgary Municipali	53.06		771,713			250	422,669
Canadian National		-,,	,	337,533	32,7730,7880		102,000
Electric Railways;							
Toronto Suburban							
District ⁷	-		70,861	109, 192	125,961	-	63, 173
Cape Breton Electric	_		42,206	42,363	214 107		00.000
Receiver of Cape		_	12,200	42,303	514,307	-	20,623
Breton Electric Co *	_	l }	42,991	35,441	519,807	_	18,868
Cape Breton Tram-			12,551	40,111	010,000	_	10,000
ways, Ltd	21 - 10	4.545	9,729	9,074	118,317	43	4,839
Cornwall Street Ry.							•
Light and Power Co.	5.00	330,000	99,768	58,763	1,321,936	39	5 2,0 15
Eastern Light and			44 005		*** ***		
Power Co. ¹²	33.23	2.987.265	46,885 731,332	49,622 522,154	574,909 12,227,167	251	31,008
Fort William Street	20.56		146,836		2,370,895	231 63	373,024 90,426
Grand River	18.63		271.765	237.952	742,671	145	175.055
Hamilton. Grimsby	** ***	001,000	212,100	201,302	132,011	139	110,000
and Beamsville10	l -	-	29,859	45,923	143.828	1	20,665
Hamilton Radial ¹¹			8,176	3,646		-	2,767
Hamilton Street	18-00		1,321,411	990,939	19,420,103	424	542,933
Hull Electric	16-54	292,000	258,749	218,869	3,941,172	111	138,882
Hydro-Electric Rail- ways: Guelph	•	1			i	I	
District ^{1,5}	6-41	384.482	75.608	78,140	1,100,718	38	10 050
International Transit		501,102	10,000	10,170	1,100,410	26	46,256
Co	4.97	150,000	50,981	42,567	925,712	19	26,778
Kitchener Public			,,		,	•**	20,,10
Utilities Street Ry.		l				I	
Dept.1	6-56	202,462	111,356	80,531	2,507,990	34	53,006

For footnotes see end of table, p. 678.

28.—Mileage, Capital, Earnings, Operating Expenses, Passengers, Employees, and Salaries and Wages of Electric Railways in Canada, year ended Dec. 31, 1931—concluded.

Name of Railway.	Mileage Operated.	Capital Liability.	Gross Earnings,	Operating Expenses.	Fare Passengers Carried.	Em- ployees.	Salaries and Wages,
	miles.	\$,		No.	No.	
Lake Erie and North-							
ern Lethbridge Municipal ¹	51·00 8·25	3,817,500 456,171	222,746 42,145	222,749 40,087	230,772 742,649	108 18	121,686 29,546
Lévis Tramways Co	11.50	1,115,000	144,331	112,254	2,235,413	74	77,302
London and Port Stan-	Ì	1,775,194	-	-			
ley (Lessors) 	24.50						
ley (Lessees)]	2,003,500	365,114	395,416	477,511	119	166,803
London Street	22.36	1,112,480	560,902	465,403	9,160,0	195	271,619
moneton Tramways, Electricity and Gas							
Co., Ltd	2.72	1,125,400	4,949	20,302	99,798	7	9,603
Montreal Tramways Montreal and Southern	158-09	55,997,300	14,500,960	9,286,986	232, 141, 103	4,891	6,818,187
Counties2	55-99	500,000	425,713	449,397	2,737,650	179	255,825
Moose Jaw	9.00	795,372	41,514	43,206	662,019	24	30,033
Nelson Municipal ¹	3.38	46,000	16,647	28,598	359,060	14	15,811
New Brunswick Power Co	16.60	2,817,695	383,593	298,372	6,392,600	136	162,773
Niagara Falla Park		2,520,550	000,000	200,072	0,000,000		
and River Division	11 65	600.000	40 277	107 929	#0E E70	36	88 149
of the Inter. Ry Niagara, St. Cath-	11.65	600,000	90,377	127,353	485,576	90	66, 143
arines and Toronto?	58 20	925,000	636,448	618, 259		341	412,859
Nipissing Central	10.52	4,438,991	46,392	56,062	495,956	20	30,742
North Yonge St. Rail- ways ⁵	10.34	107,549	96,365	100, 885	1,029,775) _	_
Nova Scotia Light		14.71	00,005	-	l ' '		
and Power Co	14 · 12		696,570	482,358	11,387,465	198	342,519
Oshawa² Ottawa	8·78 27·68		204,735 1,644,936	152,404 1,033,029	669,969 26,529,752	84 511	108,974 686,961
Port Arthur Civic	13.43						91,498
Quebec Railway,			,		-,,	i	
Light and Power	23 - 43	_	1,063,274	901,849	18,086,262	473	585,764
Regina Municipal ¹	20.22	1,946,018	297,219	242,859			183,420
Sandwich, Windsor					l ' '	l .	
and Amherstburg ¹ , ³ . Saskatoon Municipal ¹	43.89 15.73	5,816,205 1,376,419	688,748 281,625	704,706 230,027	9,522,017 4,516,089	290 100	386,400 154,058
Sarnia Street ¹³	10.19	1,570,419	251,023 8,546	10,624		100	6, 236
Shawinigan Falls			ì		1	l .,	
Terminal	8.39	437,833	90,673	77,515	-	26	36,621
Sherbrooke Railway and Power Co	10-30	2,466,000	115,073	131,689	1,203,645	64	78,488
Suburban Rapid Tran-	l		1		• • •	1	70,100
eit Co	15.94	600,000	143,286	104,418	2,512,975	-	-
Sudbury, Copper Cliff Suburban	7.90	248, 100	79,811	60,982	700,702	18	29,714
Three Rivers Traction	'**	240,100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00,002	,00,102	1	·
Co	8-90	905,700	129,262	138,754	2,018,142	60	73,517
Toronto Transporta- tion Commission ¹	120-05	34,671,293	12,639,774	7 012 766	187,090,330	4,182	6,246,217
Township of York and	120-00	04,011,230	12,000,714	7,512,100	101,000,000	1,.02	0,020,021
Town of Weston ¹ , 5.	8.06	1,143,166	274,408	214,614	5,582,617	-	
Windsor, Essex and	36-12	1,300,000	158,884	198,618	739, 140	64	99.170
Lake Shore Rapid ¹ , ² Winning	64 · 68	35,246,256	3,112,416	2,464,907		1, 175	1,616,272
Winnipeg. Winnipeg, Selkirk and Lake Winnipeg		′ ′	' '		1	1	
Lake Winnipeg	39-68	900,000	154,910	133,017	942,742	34	45,281
Totals	1 790.40	215,818,098	49,088,310	35 387 A68	720,468,361	17,135	24,647,391

¹ Municipally owned. ² Stock owned by Canadian National Rys. ² Operated by the Hydro-Electric Power Commission of Ontario. ⁴ Citadel division operations only. Total capital and operations of the Montmorency division are included in steam railways. ⁵ Operated by Toronto Transportation Commission. ⁵ Provincially owned. ⁷ Ceased operation Aug. 15, 1931. ⁸ Went into receivership Mar. 23, 1931. ⁸ Sold to Eastern Light and Power Co. June 15, 1931. ¹⁰ Ceased operation June 30, 1931. ¹¹ Leased to Canadian National and Toronto, Hamilton and Buffalo Railways July 13, 1931. ¹² Sold to Cape Breton Tramways Nov. 23, 1931. ¹³ Ceased operation Feb. 25, 1931.

23.—Numbers of Passengers, Employees and Others Killed and Injured on Electric Railways, calendar years 1919-31, with Totals from 1894 to June 39, 1919.

Nors.—Details for years ended June 30.	1000 10	ett at the 1006 Voor Book
NOTE.—Details for verify ended June 80.	IYUU⊢IY. are ziven on D	. OII OLUME 1820 I CHILDOOK.

Calendar Year.	Pascengers.		Employees.		Others.		Totals.	
Calendar 1 ear.	Killed.	Injured.	Killed.	Injured	Killed.	Injured.	Killed.	Injured
Totals, 1894 to June 30, 1919	239	23,802	182	5,609	833	10,693	1,251	39,41
919	4	1,717	29	951	58	1,505	91	4, 17
920	9	1,968	7	658	75	1,434	91	4,06
921	5	1.110	8	609	35	666	48	2.38
922	6	2.260	10	873	31	700	47	3,83
923	6	2,465	11	1,652	45	790	62	4,90
924	2	2,279	6	1,262	54	824	63	4.30
925	9	2,272	5	1.736	37	744	51	4,78
926] 3	2,420	7	1,642	66	879	76	4,9
927	I -	2,090	7	1,508	71	1,260	78	4,85
928] 1	2,735	12	1,114	86	1,139	99	4,98
929	5	2,808	5	1.290	93	1,372	103	5,31
930 , , , , , , , , , , , , , , , , ,	8	2,790	6	1,003	50	1.269	64	5,06
931	1	2,245	3	758	61	1,144	65	4, 14

PART IV.—EXPRESS COMPANIES.1

"Express service is an expedited freight service on passenger trains" But express companies do not own the means of performing their services; they use railway facilities by virtue of contracts with the railway companies. Express companies in Canada have had close relations with the railways practically from the beginning. A brief history of the various express companies will be found on pp. 611-12 of the 1926 Year Book.

Before 1915, an express company in Canada was not liable for delay or damage caused by anything quite beyond its control, thus maintaining itself as an entity separate from the railway company. Thenceforth an express company became liable for delay or injury of goods if either was caused by the railway company in whose cars the goods were being carried.

Goods are sent by express for quick transit, so that express rates do not compete with freight rates. Thus in its first tariff the Dominion Express Co., in pursuance of its contract with the Canadian Pacific Railway, gave a rate of $2\frac{1}{2}$ times the maximum first-class railway freight rate for the same goods carried the same distance. The majority of the contracts between express and railway companies for carrying express freight are on the basis of a percentage of the gross express revenue. The rates are subject to the approval of the Board of Railway Commissioners.

Express Company Operations.—During 1931, the latest year for which the statistics of the Transportation Branch of the Dominion Bureau of Statistics are available, there were four Canadian and one American express organizations operating in Canada. The Canadian Pacific Express Co., formerly the Dominion Express Co., is a subsidiary of the Canadian Pacific Railway and handles the express business on the railways and the inland and ocean steamship lines of the parent company. The express business of the Canadian National system is handled by a department of the railway. The British America Express Co. operated over the Algoma Central until Feb. 28, 1931, when it ceased operations. The Central Canada Express Co. was formerly operated over the Central Canada, the Edmonton,

Revised and checked by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This Branch issues an annual report on Express Statistics.

Dunvegan and British Columbia, and the Alberta and Great Waterways Railways, but in 1927 its business was taken over by the Canadian National Express Department. With the amalgamation of these railways in 1929 and formation of the Northern Alberta Railways Company, the express business was handled by a department of the new company from Nov. 1, 1929. The Railway Express Agency, Inc., operates over the Canadian sections of United States railways and over the route from Skagway to points in Yukon. These companies are organized under powers conferred by Acts of the Dominion Parliament and their business consists in the forwarding of parcels, the transfer of baggage and the issue of money orders, travellers' cheques, letters of credit and other forms of financial paper. The total capital liabilities of the two Canadian companies and of the Canadian National Express Department stood at \$8,739,594 on Dec. 31, 1931.

Statistics of the receipts and expenses of express companies in Canada are given in summary form for all companies for the years 1919 to 1931 in Table 30, and for each company for the year 1931 in Table 31. In these tables the amounts paid by express companies to the carriers, *i.e.*, railways, steamship lines, etc., for transporting the express matter, are shown under the heading "express privileges". Table 31 also shows the mileage operated by each company in 1931. Of the total of 62,726 miles, 42,336 were over steam railways, 313 over electric railways, 14,227 on ocean steamship services (mainly by the Canadian Pacific lines) and 5,676 miles on inland or coastal steamboat routes.

30.—Summary Statistics of Revenues and Expenses of Express Companies, calendar years 1919-31.

Norn.—Similar figures for the years ended June 30, 1911-19, were published at p. 673 of the 1927-28 Year Book.

Calendar Year.	Gross Earnings.	Operating Expenses.	Express Privileges.	Net Operating Revenue.
	\$	\$	*	*
919,	24.983.219	13, 227, 652	12,936,615	-1.231.048
920		16,120,880	16,009,460	-1.617,830
921	32,504,894	15,601,187	16,549,915	353,79
922	28,697,332	13,596,518	14,581,789	519,02
923	27, 625, 700	13.217.780	14,842,410	65,51
924	26.196.017	12,723,651	13,557,168	-84,80
925	25,876,342	12,836,485	13,312,960	226,89
926	26,554,378	12,442,257	13, 466, 863	645, 25
927	26,532,182	12,548,374	13,275,355	708,45
928	27,674,270	13,032,376	13,459,187	1,182,70
929	27,758,385	13,480,028	13,598,575	679,78
930	24,352,181	12,759,439	12,380,060	-787,31
931	20,115,285	11,292,957	10,909,184	-2,086,85

31.—Revenues, Expenses and Operating Mileage of Express Companies, by Companies, calendar year 1931.

Company.	Gross Earnings.	Operating Expenses.	Express Privileges.	Net Operating Revenue.	Mileage Operated,
		\$	\$	*	No.
British America Express. Canadian National Railways. Canadian Pacific Express. Northern Alberta Railways. Railway Express Agency.	10,643,992 8,486,842	4, 661 ¹ , 5, 795, 942 ¹ 5, 098, 869 38, 643 354, 842	6,599 ¹ 4,752,754 5,596,057 56,694 497,080	1,937 ¹ 95,295 -2,208,084 11,736 12,260	24,177 32,652 928 4,969
Totals	20,115,285	11,292,957	10,509,184	-2,088,856	63,725

¹Ceased operation Feb. 28, 1931.

32.—Business Transacted by Express Companies in Financial Paper, calendar years 1928-31.

Description.	1928.	1929.	1930.	1931.
Money orders, domestic Money orders, foreign Travellers' cheques, domestic Travellers' cheques, foreign "C.O.D." cheques. Telegraphic transfers. Other forms.	1,338,257 5,180,857 1,558,322 8,295,720 492,691 2,331,129	\$ 62,812,788 1,494,848 5,474,960 1,789,439 8,206,098 561,414 2,335,914 82,675,461	\$ 52,941,500 1,190,244 5,928,660 1,115,289 7,194,178 557,869 1,707,910 70,435,650	\$ 42,706,134 658,677 4,857,697 686,375 5,324,188 486,738 916,814

PART V.—ROADS AND HIGHWAYS.1

Historical.—The early roads were auxiliary to water routes as avenues of transportation. They were used during the summer season, when portages were necessary to avoid obstacles to river and lake travel, and during the winters, when ice prevented navigation and snow covered the inequalities of the ground. Even the extensive system of waterways of Eastern Canada was an inadequate means of communication between points of settlement in a rapidly growing colony, and the need for overland routes manifested itself in the introduction of the system of common roads which prevailed under the old régime. Not only did the crude early roads serve the needs of the settlers, but also those of the British, French and American armies during the numerous campaigns. Soldiers were frequently employed, in times of peace, on road construction in different parts of Upper and Lower Canada.

The first important highway in Canada extended along the north shore of the St. Lawrence from Quebec to Montreal, being gradually completed with the growth of the French settlements. In Upper Canada, one of the earliest roads (Yonge St.) was that from Toronto to lake Simcoe, completed in 1794 under the direction of Governor Simcoe, the work being done by the Queen's Rangers. This road not only gave access to the area north of Toronto, but also provided a more convenient route than that of the Ottawa river from the trading posts on the Upper Lakes to the centres of population along the St. Lawrence. Montreal was joined to Kingston by road in 1816, and in the following year to Toronto. Thereafter, other highways to inland settlements, from points served by water routes, began to increase in number, as it became apparent that they were essential to the commercial life of the country for transporting supplies to the settlers and bringing their products to the central markets of the colony. The system of posts, which had been established about the beginning of the nineteenth century, necessitated passable routes between the various points, and by 1827 a through road was available between Halifax and Amherstburg, comprising for the most part the old Kempt road, the York road, Dundas street and the Baldoon road. From this trunk line of communication branch roads extended north and south to the more important centres of population in the two Canadas. The cost of construction of these roads was high, and travel by stage coach was tedious and costly. As late as 1850 some points in central Ontario were still inaccessible to any vehicle. Later years, however, have brought with them improved methods of construction and a resulting reduction in expenses, together with an improvement in the wearing qualities of the more important highways.

¹ Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics, which publishes an annual report entitled "Highways and Motor Vehicles in Canada"

Recent Highway Development.—The growth of motor traffic during and since the War has greatly stimulated the movement for increased and improved road construction. Good roads associations assisted by the automobile clubs are to be found in most of the provinces for the education of the public in the need for improved highways. With the rapid increase in the percentage of motor car owners to the population (see p. 685-6) the demand for improved roads became insistent after the War. Furthermore, the advantages to be gained by attracting touring motorists have been a powerful incentive to governing bodies to improve trunk roads and scenic highways within their jurisdictions. One sphere where the motor car has been of special economic advantage has been in rural areas, where its speed and economy are a great improvement over the old horse-drawn vehicle. As a result, in the 1931 census every second farm reported a farm-owned motor vehicle (1.96 farms per farm-owned motor vehicle). This widespread rural ownership of automobiles has resulted in the improvement of secondary rural roads.

A table of road mileage in Canada follows. When it is considered that throughout the Dominion there are about 26 persons to every mile of road and that on an average there is one mile of road for every 9 square miles of land, the magnitude of the problem faced in the construction of these traffic routes is realized. A small population scattered over a large area has made this, like other transportation problems, particularly difficult of solution.

Province.	Unim- proved.	Im- proved Earth.	Gravel.	Water- bound Macadam.	Bitu- minous Macadam.	Bitu- minous Concrete.	Cement Concrete.	Total.
P.E. Island. Nova Scotia. New Brunswick. Quebec. Ontario. Manitobal. Saskatchewan. Alberta. British Columbia ² .	2,418·0 20,673·0 56,769·3 41,000·0	miles. 1,396-0 3,434-8 4,353-0 242-9 19,518-0 1,496-9 96,726-9 19,723-0 10,849-7	miles. 245-9 4,287-4 5,039-0 12,590-9 43,066-7 3,642-9 2,113-0 1,633-0 8,029-1	miles. 30·2 1,486·6 546·8	miles. 17-5 13-0 234-8 808-4	miles. 4.7 2 405.7 1,078.5 81.0 —	miles. 1·5 	miles. 3,650·0 14,719·2 11.825·0 35,763·2 66,411. 5,230·7 155,609·2 62,426·0 22,459·6
Totals	132,987.3	157,741-2	80,617.9	2,183.5	1,215.4	1,692.3	1,583.9	378,091.01

¹ Manitoba figures are as at April 30, 1931. ² B.C. figures are as at Mar. 31, 1931. ³ Includes some mimproved earth roads. ⁴ Includes 42·5 miles of other classes. ⁵ 23,056 reported for 1930.

The great improvement indicated above in the extent and character of Canadian highways has entailed the expenditure of large sums by governing bodies, chiefly provincial or municipal authorities, as roads are under their jurisdiction. Unfortunately, there are no comprehensive or comparable statistics available regarding these expenditures prior to 1928. Expenditures by the Dominion Government have taken the form of subsidies to the provinces for specific highways and have been made under the Canada Highways Act, 1919, largely in the few years immediately after the War, and under relief legislation during the present depression to aid in providing useful employment. These subsidies paid in 1931 are shown in Table 34.

The Canada Highways Act.—Partly in response to the general demand for improved highways and partly to increase civilian employment at the end of the War, the Dominion Parliament, by c. 54 of the Statutes of 1919, authorized the expenditure of \$20,000,000 for the purpose of constructing and improving the highways of Canada during the five years succeeding the passage of the Act. In its apportionment, grants of \$80,000 were made to each province during each of

the five years, the remainder being allotted in proportion to their respective populations. Details as to cost, time, methods of construction, etc., of all roads built under the scheme were to be arranged between the Minister of Railways and Canals and the various Provincial Government Departments. By c. 4 of 1923 and c. 4 of 1925 the operation of the Act was extended to April 1, 1928. A table on p. 669 of the Canada Year Book, 1929, shows the working of the Act and the allocation of expenditure as between the Dominion and the various provinces down to Mar. 31, 1928. By that time the grant had been expended. Road projects subsidized under the Act amounted to 8,753 miles with an estimated subsidizable cost of \$49.581.192.

Road Expenditures by Provinces and Municipalities.—Table 34 presents the available statistics of expenditures on highways in the four latest years. However, the limitations of the statistics in this table should be clearly realized. These expenditures cover only national and provincial highways, secondary highways and other important roads to which the Provincial Governments contribute, together with the bridges or ferries necessary to such highways. The figures do not include expenditures on roads or streets within urban municipalities, nor expenditures by rural municipalities on local roads to which no contribution is made by the Provincial Governments. Expenditures for both construction and maintenance of municipal roads receiving subsidies are often made over and above the amounts upon which subsidies are granted and these extra expenditures are not included. No data regarding municipal expenditures for either construction or maintenance are available in Saskatchewan. Altogether, the record of expenditures by municipalities is very incomplete. In the Maritime Provinces all road expenditures are made by the Provincial Governments.

34.—Capital and Maintenance Expenditures on Provincial Highways or Provincially Subsidized Highways in Canada, calendar years 1928-31.
CAPITAL EXPENDITURES.

Province.	1928.	1929.	1930.	1931.
Prince Edward Island Nova Scotia New Brunswick Quebec. Ontario. Manitoba Sackatchewan Alberta British Columbia Canada	2,700,000 3,603,150 3,890,300 20,610,949 1,817,093 2,329,000 1,399,708 3,400,654	\$ 237,000 1,248,037 5,521,430 6,471,432 22,351,703 2,970,988 5,926,630 4,391,600 6,054,330 55,173,166	\$ 190,000 2,808,554 7,328,285 10,092,281 26,025,136 3,080,739 9,437,007 5,574,952 5,461,279 \$\$,988,233	\$ 310,000 4,197,512 3,595,651 11,872,767 23,708,855 2,779,216 6,702,18 4,378,861 8,703,130 66,250,239
Dominion subsidies Provincial expenditures Municipal expenditures		-	56,022,066 13,976,167	4,262,545 51,373,740 10,613,944

MAINTENANCE EXPENDITURES. Prince Edward Island... 340,800 1,895,458 153,000 145,000 Nova Scotia 1,840,000 1,782,138 2,055,824 1,895,458 747,121 4,865,460 8,123,150 906,013 1,048,664 2,086,754 2,283,784 350,897 4,419,500 1,035,168 New Brunswick 993,864 Quebec...... 4,360,861 5, 108, 690 8,810,954 325,000 Ontario..... 9,584,523 9,741,537 734,328 588,301 541,335 Manitoba... 745,398 1,080,746 2,497,430 Saskatchewan..... 288, 105 651,556 Alberta British Columbia..... 1,777,100 18,963,381 2,412,804 21, 109, 486 Canada,.... 23, 103, 817 22.287.153 Dominion subsidies..... Provincial expenditures.... 19.088.384 18,746,163 3,521,900 Municipal expenditures..... 4.014.433

Provincial Funded Debt Incurred for Highways.—Table 35 shows the funded debts of the provinces outstanding at Dec. 31, 1931, which were incurred for highway development. These amounts should not be confused with estimates of the total investment in highways. The cost of constructing a new road is considerably greater than that of putting a permanent surface on an old road; the latter has been the purpose of much of the provincial expenditure.

The maintenance expenditures by the Provincial Highway Departments during 1931 amounted to \$18,746,163, while the annual charges for highway debt were \$19,772,829, a total provincial charge of \$38,518,992. The provinces collected \$42,662,241 in licences, gasolene taxes, tolls, etc., in connection with highway traffic. While these left an apparent surplus of \$4,143,249, no provision was made for the cost of administering highway and motor vehicle departments, for traffic patrols, nor for any expenditures by municipalities for either road maintenance or interest and retiring charges on capital expenditures.

35.--Provincial Government Funded Highway Debt and Annual Charges thereon, Dec. 31, 1931.

Province.	Province. Amount.		Province,	Amount.	Annual Interest and Sinking Fund.	
	\$	\$		\$	*	
Prince Edward Island Nova Scotia New Brunswick. Quebec Ontario	1,175,000 19,748,930 35,928,810 38,877,000 162,566,276	1,063,686 1,620,000 1,605,215	Saskatchewan Alberta British Columbia	16,546,393 28,645,587 29,370,399 41,604,416 374,462,811	1,067,876 1,859,754 2,378,916	

¹ As at April 30, 1931.

PART VI.—MOTOR VEHICLES.

The earliest motor vehicles were propelled by steam, the history of the gasolene motor car commencing with the successful construction of a gasolene engine by Daimler in 1884. Until 1900 France remained the headquarters of the industry, possessing in that year more than half of the 10,000 cars in operation in Europe, while in the United States the number of cars was only about 700. Shortly afterwards, the development of the Ford car resulted in a keen competition to bring motor cars within the reach of the average man, profits being secured from large production rather than high prices. Detroit became the centre of the automobile industry of the United States and the Canadian side of the Detroit river became the headquarters of the Canadian industry. As a consequence, the population of the border towns Windsor, Walkerville and Sandwich greatly increased between 1911 and 1921, while the town of Ford (now East Windsor), which had no existence in 1911, had 5,870 inhabitants in 1921 and 14,251 in 1931, when the aggregate for the "Border Cities" was 98,179. Problems of regional location have resulted, during more recent years, in a gradual shifting of the centre of the industry, and the Toronto and Oshawa districts now rival in importance the older established centre on the Detroit river.

Like many other inventions, the motor car commenced as a toy, then became a luxury of the rich, while now it ranks as a necessity of life to a large proportion of the population. In the past few years, the motor truck and the motor bus have assumed considerable economic importance, and are separately classified in Table 37.

Up to the present the motor vehicle has affected the passenger traffic of the steam and electric railways more than the freight. Eleven inter-urban and seven urban electric railways have ceased operation since 1926, and passenger traffic on the smaller electric railways and on the steam railways has declined during the last decade instead of increasing with increased population. This diversion of passenger traffic has been effected largely by the private automobile, although the motor bus is rapidly becoming more important and is now operating between all large centres. The motor truck is also carrying an increasing amount of freight, although no statistics showing the tonnage handled are as yet available.

The automobile manufacturing industry in Canada has made very rapid growth since its beginning about the year 1905, two of its chief tendencies during the period having been a consolidation of smaller firms into large units and the adoption of large-scale methods of production, similar in many ways to those of the United States industry. A brief statement of its history, with statistics of production, etc., is to be found on pp. 432-6 of the Canada Year Book, 1924, while more recent statistics of production will be found in Chapter XIV. (See also the Manufactures chapter of this volume.)

Section 1.—Statistics of Motor Vehicle Operation.1

Registration.—The increase in the use of motor vehicles in Canada has been very rapid. In 1904 the number of motor vehicles registered in Ontario was only 535. In 1907, 2,130 motor vehicles were registered in six provinces and in 1908, 3,033 in eight provinces, the motor car being at that time prohibited in Prince Edward Island. From these small beginnings Table 36 shows an increase to 1,232,486 motor vehicles by 1930. For the last two years decreases have been recorded. In Table 37 the numbers of motor vehicles registered in 1931 and 1932 are given by provinces, classified as passenger cars, commercial cars or trucks, motor buses and motor cycles.

The average population per vehicle registered was 8.6 in 1931. Canada ranked fourth in this respect, the United States being first with 5.1. On the basis of the total registration of 1,114,503, only three countries had larger numbers in 1931, viz., United States, 26,093,457; Great Britain and Northern Ireland, 1,949,471; and France, 1,984,681.

¹ Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. The subject is treated in greater detail in "Highways and Motor Vehicles in Canada", published annually by this Branch.

36.—Number of Motor Vehicles Registered in Canada, by Provinces, calendar years 1997-32.

Note.—The number of motor vehicles in Yukon is included in the totals for Canada, 1914-32.

Year.	P.E. Island.	Nova Scotia.	New Bruns- wick.	Quebec.	Ontario.	Mani- toba.	Saskat- chewan.	Al- berta.	British Colum- bia.	Canada.
	No.	No	No.	No.	No.	No.	No.	No.	No.	No.
1907	-	62	_	254	1,530	-	54	5 5	175	2,130
1908	-	65	104	296	1,754	412	74	65	263	8,033
1909		69	167	485	2,452	662	149	275	504	4,763
1910	-	148	299	786		1,524	531	423	1,026	8,967
1911	_	228	483	1,878		2,436	1,304	1,631	2,220	21,519
1912		456	700	3,535	16,266	4,099	2,286	2,505	4,289	34,136
1913	26	511	824	5,452	23,700	5,475	4,659	3,773	6,138	50,558
1914	31	1,324	1,328	7,413	31,724	7,359	8,020	4,728	7,628	69.598
1915	34	1,841	1,900		42,346	9,225	10,225	5,832	8,360	89,944
1916	50	3,012	2,965		54,375	12,765	15,990	9,516	9,457	123,464
1917	308	5,350	5,251		83,308	17,507	32,505	20,624	11,645	197.799
1918	639	8,100	6,434		114,376	24,012	50,531	29,300	15,370	275,746
1919	967	10,210	8,306		144,804	30,118	56,855	34,000	22,420	341.316
1920	1,419	12,450	11,196		177,561	36,455	60,325	38,015	28,000	407,064
1921	1,751	14,205	13,615		206,521	40,215	61,184	40,235	32,900	465,378
1922	2,167	16,159	13,746		240,933	42,200		40,642	34,526	513,821
1923	2,483	18,354	16,829	72,448	280,996	42,428		44,841	41,053	586,850
1924	2,583	20,764	19,975	85,145	308,693	44,322	70,754	51,148	48,626	652,121
1925	2,955	22,858	19,022		344,112	51,241	79,078	54,357	56,618	728,005
1926	8,460	25,879	21,541	108,332	388,728	57,857	97,267	65,590	68,009	836,794
1927	4,388	30,059	24,544	128,459	436, 120	63,905	106,599	73,830	77,612	945,672
19281	5,404	35,113	27,970	148,09)		70,611	119,972	88,398	86,079	1,070,664
1929 :	6, 116		31,736	169, 105	541,912	77,259	128,426	98,720	95,468	
1930 1	7,376	43,029	34,699	178,548		78,830		101,119	98,781	1,232,485
1931 1	7,744	43,758	33,627	177,485	562,220	75,210	107,981	94,727	97,932	1,200,907
1932	6,932	41, 153	28,044	165,730	531,597	71,570	1 91,275	86,878	91,042	1,114,503

¹ Revised figures.

In Table 37 the registration of motor vehicles in 1931 and 1932 is given according to the general type or purpose of the cars in use in each of the provinces.

37.—Types of Motor Vehicles Registered in Canada, by Provinces, calendar years 1931 and 1932.

Province.	Passen- ger Cars.1	Commer- cial Care or Trucks. ²	Motor Buses.	Motor Cycles.	Total.3
Prince Edward Island Nova Scotis New Brunswick Quebec. Ontario. Manitoba. Saskatchewan Alberta. British Columbia.	No. 6,917 36,431 29,223 146,266 489,713 64,940 91,846 79,225 79,451	No. 799 6,911 4.164 28,384 67.808 9.697 15,788 15,034 16,799 86	No. 3 30 62 517 629 33 41 41 85 248	No. 25 386 178 2,318 4,070 540 306 383 1,434	No. 7,744 43,758 83,657 177,485 562,220 75,210 107,981 94,727 97,932 223
Totals	1,024,137	165,470	1,652	9,648	1,200,907
Prince Edward Island Nova Scotia. New Brunswick Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia. Yukon.	6,181 33,798 24,030 135,594 462,923 61,420 75,685 72,079 73,516 129	768 6,958 3,819 27,411 63,868 9,540 15,292 14,293 15,933 88	4 62 60 500 598 80 26 97 209 3	29 335 135 2,225 4,088 530 272 409 1,384	6, 982 41, 158 28, 044 165, 730 531, 597 71, 570 91, 276 86, 878 91, 042 232
Totals	945,355	157,990	1,739	9, 419	1,114,503

¹ Includes taxicabs.

Includes tractors, road machines, flushers, and municipal fire engines, etc., in Ontario and in Quebec.
Revised to exclude dealers' cars and include road tractors.

Government Revenue.—The taxation of motor vehicles, garages, chauffeurs, etc., is becoming a lucrative source of Provincial Government income. In every province the operation of automobiles and motor cycles is dependent on carrying licences duly issued by the various authorities, while similar licences permit the maintenance of garages and the driving of cars or trucks by hired chauffeurs. Perhaps the most recent form of levy on the use of motor vehicles is the gasolene tax, which has been assessed in all provinces since 1927. The following table shows the provincial revenue for the years 1931 and 1932, indicating, at the same time, the more important sources from which it is derived.

28.—Provincial Revenues from the Taxation of the Distribution and Operation of Motor Vehicles, for the years 1931 and 1932.

Province.	Passenger Care.	Trucks, etc.	Motor Cycles.	Dealers' Li- cences.	Operators and Chauf- feurs.	Mileage Tar on Motor Busee and Trucks.	Gasolene Tar.	Total, including Miscel- laneous Revenue.
	s	<u>-</u> _	2	*	\$			<u> </u>
1931.	. • 1	*	•	•	•	•	•	•
1901.]			_			!	
P. E. Island	117,784	13.818	125	1.345	1.365		112,867	248,565
Nova Scotia	807,446		2,336	7.382	90.869	1,708		
New Brunswick	612.445		2,000	6,613		4.017	696.481	1.574.035
Quebec	2,977.026		7,523	20,876	970.535			
Ontario ¹	3.066,140		11,770	35.498	709.058		10,810,914	
Manitobs	778.490		2,353	9,750		39,022	1,094,700	
Saskatchewan	1,229,698		1,758	18,495	24,574	-	1,310,147	
Alberta	1,075,320		1,738	23.575	18.597			
British Columbia	1.582.442		7,528	16.594	46, 423	31,719	1.765.700	
Yukon ²	1,362,742		24	224	#0,423		1,700,700	2.372
I UKOU	1,240					·	í	2,012
Tetais	12,248,011	4,327,995	35,190	140,346	2,017,284	_	22,546,118	42,231,027
						 -		<u> </u>
1932.								
P. E. Island	104,368	14, 103	164	1.085	1,348	l -	134,398	256,854
Nova Scotia	748,050		2,131	6,780				
New Brunswick	573, 122		2,101	4.65)	75,325			
Quebec	2,672,312		7,025	19,488	866.286			10,471,373
Ontario!	4,387,609	1,856,145	11,727	31,711	666, 150		13,510,755	21 100 214
Manitoba	712.370		2,160	J., 7.17	99.960		1.514,260	
Saskatchewan	1,144,831		1,480	13.385			1.328.951	2,847,038
Alberta	1,290,828		1,907	19.575			1.551.227	
British Columbia.	1,405,735		6,708	12,524	136,760		2,053,511	
Yukon*	1,389		48		=====================================	-	-,,	2,432
Totals	13,010,614	4,751,787	33,350	199,198	2,007,006	261,595	27,083,316	48,200,587
	1	I	[Į į	1 ' '	l .	Ι΄ ΄	1

¹ Revenue figures for Ontario are for fiscal year ended Oct. 31. ² No gasolene tax.

Imports and Exports of Motor Vehicles.—Imports and exports of motor vehicles in the fiscal years ended 1908 to 1932 are shown, by numbers of cars and by values, in Table 39. In the earlier years the imports of cars far exceeded the exports, but as the Canadian automobile manufacturing industry became established, exports commenced to exceed imports and in the four fiscal years up to and including 1926 averaged between two or three times the value of the imports. During the fiscal year 1927, however, while the exports almost maintained the high figures of previous years, the imports increased so much as again to approach the value of the exports, and in the fiscal year 1928 the imports exceeded the exports by nearly \$9,000,000, owing to a continued increase in the importation of motor vehicles of all kinds and to the contraction in exports caused by the closing down of the factories of one of the largest makers of low-priced cars, pending the introduction of new

models. In the fiscal year 1929, with this firm again producing, the total number of cars exported was more than double the number imported, and the proportion was about the same in 1930. Both imports and exports were greatly reduced in 1931 and 1932 due to the world-wide depression. The importation of parts had increased with the growth of the industry and amounted in the fiscal years ended Mar. 31, 1928 and 1929, to \$33,237,181 and \$55,761,414 respectively, but decreased in 1930 to \$35,746,929, in 1931 to \$19,597,213 and in 1932 to \$13,451,825. In the same fiscal years exports (including re-exports) of automobile parts were \$3,304,937, \$3,804,743, \$3,555,523, \$1,933,048 and \$1,330,125 respectively.

39.—Imports and Exports of Motor Vehicles, fiscal years ended Mar. 31, 1908-32.

Fiscal Year.	1	Imports of Me	otor Vehi	cles.	Exports of Motor Vehicles (including re-exports).				
	Passenger.		Fr	Freight. ¹		ssenger.	Freight.2		
· - · · ·	No.	;	No.	\$	No.	· ·	No.	\$	
908	674	912,971	-	_	205	320,708	-		
909	533	585,097	_ !	_	279	450, 127	l – I		
910	1,424	1,732,215	- 1	_	448	627,469	I - I		
911		4,235,196		- 1	787	892,212	l - I		
912		6,511,115	-	-	2,156	2,039,993	l – I		
913, 810	8,377	9,738,839	-	-	4,091	2,952,988	1		
314	6,288	7,213,375	- 1	-	6,691	4,321,369	-		
915	5.476	4,888,704	-	_	5,579	3,290,234	! -		
916	8,055	5,089,329	-	-	17,493	9,223,813	1 -		
917	12,037	7,981,177	327	423,824	10,331	5,637,465	! -		
918	16,118	11,317,245	964	1,275.179	8,829	4,471,521	i - I		
919	6,473	5,326,510	1,744	2,274,748	11,867	6,328,447	2.584	1,347,5	
220		11,204,461	2,274	3,831,084	20,883	13,589,423	4,166	2,319,6	
921	5,907	8,399,537	1,706	3,578,938	15,870	11,867,425	3,441	2,733,7	
922	7,181	9,501,362	806	1.537.765	13,676	7,879,845	1,314	673,0	
923	11,402	11,857,165	1,082	1,889,105	45.372	25,987,515	3,726	1,456.7	
24	9,549	9,532,350	1,340	1,910,808	54,939	27,566,869	15,419	5,545,2	
25	8.835	8.726,714	934	1,364,664	44,626	22,393,397	11,790	4,055,7	
926	14,935	14,022,814	1,189	1,772,414	61,860	29,888,014	19,238	6,300.3	
927	29,202	23,882,455	2,548	3,200,626	51,689	24,244,987	20,423	6,899,5	
928	35,783	29,234,603	4,208	5,187,889	32,076	19,833,969	15,115	5,611,9	
29	42,447	34,173,547	7,417	8,795,929	72.524	31,654,942	31,499	11,845,4	
30	33,834	28,060,872	5,078	6,403,794	50,873	23,690,765	29,782	12, 140, 4	
31	17,058	13,358,529	2,987	3,913,361	24,739	11,079,979	13,584	5,289,4	
32	4,796	3,816,447	799	939,306	6,623	2,916,732	2,915	1,138,9	

¹ Freight automobiles were classified with passenger automobiles in figures of imports until 1917.

Section 2.—Motor Vehicle Acts and Regulations.1

In all provinces a motor vehicle must be registered and each person who operates a car must be licensed as a chauffeur, an operator, or a beginner. The following is a brief synopsis of the regulations in force in each province.

Prince Edward Island.—Under the Highway Traffic Act, 1930, and Regulations, all cars must be registered in the office of the Provincial Secretary. In addition to a registration fee of \$2.50 for cars not previously registered in the province and a marker fee of \$1, an annual tax of 70 cents per 100 pounds weight is payable on Mar. 1, but is not required of non-residents if the province or State of origin grants exemptions to Prince Edward Island privately-owned passenger motor vehicles. Every car must have a lock or other device to prevent it from being

² Freight automobiles were classified with passenger automobiles in figures of exports until 1919.

¹ The information in this Section has been revised by the officials in charge of the administration of Motor Vehicle Acts and Regulations in the different provinces.

operated when left unattended. The speed limits are: in cities, towns and villages 15 miles an hour; on approaches to steep descents, bridges, or highway crossings 10 miles an hour; on roads outside cities or incorporated towns on which the driver has not a clear view for at least one hundred yards free from turns and intersections 15 miles an hour; and in other places a speed reasonable and proper.

Nova Scotia.—The Motor Vehicle Act requires cars to be registered by the Motor Vehicle Branch, Department of Highways, which issues permits renewable annually on Jan. 1, but usually extended to Mar. 31. Cars belonging to persons residing outside of Nova Scotia need not be registered, if registered where the owners reside and operated for private use. This privilege is given for not more than three months in each year. If owners come into the province to reside permanently or to carry on business, they must register. Every person who operates a motor vehicle must be licensed as a chauffeur, an operator, or a beginner. Motor vehicles must be equipped as provided in the Uniform Vehicle Code. There is no set speed limit. The rate of speed must be reasonable and proper, and 20 miles per hour is prima facie reasonable and proper in a residential district, at intersections, passing schools, etc., and 40 miles per hour is prima facie reasonable and proper in open country. Commercial motor vehicles having a gross weight in excess of 4,000 lb., are limited to a maximum speed of 25 miles per hour.

New Brunswick.—Under the Motor Vehicle Law, 1926, the registering and licensing authority is the Motor Vehicle Branch, Department of Public Works. Cars must be registered when new and, besides the registration fee, an annual fee is payable on Jan. 1. Non-residents may not operate cars registered in another province during more than 90 days in any year without registering in New Brunswick. The speed limits are: in places which are closely built up, or in any city, town or village, 15 miles an hour; outside of any city, town or village where the road cannot be seen clearly for 200 yards, 20 miles an hour. Driving recklessly, or at a speed greater than 40 miles an hour on a highway, may result in a fine, imprisonment, or suspension of licence. All vehicles keep to the right.

Quebec.—The law regarding motor vehicles is contained in the Quebec Revised Statutes, 1925, c. 35. Cars must be registered in the office of the Provincial Treasurer and re-registered annually on Mar. 1. Certain government and municipal cars and farm tractors are given free registration, while exemptions are made in the case of pleasure cars registered in other provinces and certain commercial vehicles, but only in cases specified in Article 10 of the Act. Cars must have mufflers and, when left unattended, must be locked in such a way as to prevent operation. The speed limits are: in cities, towns and villages, 20 miles an hour; on highways where the land is closely built up, 20 miles an hour; and in open country, 30 miles an hour. Motor vehicles must be stopped before driving over a railway crossing. Motors must stop for street cars which are standing to take on or discharge passengers, and must reduce the speed to 16 miles an hour when meeting another vehicle. These rates have reference to pleasure cars only. In the case of a commercial vehicle having non-pneumatic tires, a speed of 8 miles an hour when loaded and 10 miles an hour when unloaded is allowed. When equipped with pneumatic tires the corresponding rates are 12 and 15 miles an hour. Motor buses are allowed a speed of 30 miles an hour in open country.

Ontario.—In this province the Highway Traffic Act, under the administration of the Motor Vehicles Branch of the Department of Highways, regulates the oper52230-44

ation of motor vehicles on the highways. Motor vehicle permits and drivers' licences are issued for the calendar year. Vehicles owned by residents of other provinces who do not reside or carry on business in Ontario for more than three consecutive months in each year may be operated in Ontario without Ontario registration plates. Passenger cars registered in the United States may be operated in Ontario without Ontario plates for thirty days in any one year. The speed limit in cities, towns and villages is 20 miles an hour; in open country, 35 miles an hour. At intersections, level railway crossings and where the view of the driver is obscured the speed allowed is 10 miles within and 15 miles outside of cities, towns and villages. Vehicles must not pass street cars which are stationary for the purpose of taking on or discharging passengers. At intersections the motor vehicle on the right has the right of way and before entering or crossing a through highway a vehicle must be brought to a full stop. A motor vehicle must be equipped with non-glare headlights, muffler, windshield wiper and mirror. Under Part XIII of the Act a person convicted of certain serious offences in connection with the operation of motor vehicles or a person against whom an unsatisfied judgment is outstanding is required to file proof of his financial responsibility. All accidents resulting in personal injury, or property damage apparently exceeding \$50, must be reported to the nearest provincial or municipal police officer.

Manitoba.—Under the Highway Traffic Act, 1930, cars must be registered in the office of the Municipal-Commissioner, and registration is renewable annually on Jan. 1. All drivers must be licensed. No person, not a resident of the province, shall operate without a licence for a period exceeding 30 days of the date of entry, unless the province or State in which he resides gives reciprocity in this respect. Penalties for driving a car while intoxicated include imprisonment, suspension of driver's licence and impounding of the car. No person shall operate a motor vehicle upon any highway or street at a greater speed than is reasonable and proper, having regard to the condition of the highway and the traffic. The onus of proof is on the motorist. No ray of light from any headlight shall be thrown in a horizontal direction at a greater height from the ground than 42 inches in front of the motor vehicle when travelling on the highways. The use of searchlights and glare headlights is absolutely forbidden on the highway. Number plates must be carried on the front and rear of the vehicles so as to be plainly visible. In the event of an accident the driver involved must render every help possible, and give his name and address to the police officer or, if no officer is at hand, report to the nearest police station or officer. Failure to comply may involve a fine of \$50 or 30 days imprisonment.

Saskatchewan.—The licensing authority under the Vehicles Act is the Minister of Highways. Licences expire annually on Dec. 31, and for private vehicles are computed on the wheel base, the minimum fee being \$10, the maximum \$32.50. The licence fee in respect of cars registered on and after Aug. 1 is approximately one-third less than the annual fee. All motor vehicles except motor cycles must expose two number plates. The registration fee for a motor cycle is \$6. The fee for motor trucks is computed on the gross weight. The owner of every truck to be operated for gain before securing a licence must obtain a permit from the Public Utility Board. Besides two licence plates, he receives two weight plates, embossed with the gross weight for which the licence fee has been paid.

The fee for a chauffeur's licence is \$5. The fee for livery privileges is \$8 more than the fee paid for private licence for the vehicle to be registered. Permits

to operate for gain must be obtained from the Public Utility Board. Every driver of a motor vehicle not in possession of a chauffeur's licence, must secure an operator's licence.

A non-resident may use his motor vehicle for not more than three months in any year, but a non-resident operating a truck for gain must comply with the Public Utility Board requirements. Cities, towns and villages have authority to regulate speed limits within their boundaries. A loaded truck shall not be driven at more than 25 miles per hour, nor an unloaded truck at more than 35 miles per hour, while no motor vehicle may be driven at more than 35 miles per hour when passing any motor or other vehicle going in the opposite direction. Otherwise, speed is governed by the amount of traffic, the nature, condition and use of the highways. No motor vehicle and its load shall have a greater width than 96 inches, while no vehicle shall have a length of more than 33 feet, and no combination of vehicles coupled together shall have a length of more than 85 feet. The maximum height of a vehicle including its load is 14 feet and the maximum weight of any vehicle and its load must not exceed 20,000 lb. Motor vehicles must stop for street cars which are taking on or discharging passengers. Should a driver on leaving a stopping place in a city or town desire to turn, he may do so only at an intersection of the public highway.

Alberta.—The law relating to motor vehicles is contained in the Vehicles and Highway Traffic Act, 1924. The speed limits are: 20 miles an hour in cities, towns and villages: 10 miles an hour at street crossings and bridges; and 30 miles an hour outside cities, towns and villages. A motor car may not pass a street car which has stopped for passengers to get on or off. A resident of any other province of Canada, entering Alberta for pleasure touring for a period not greater than six months, is required to have complied with the motor-vehicle laws of his own province, and on entering Alberta to register with the Provincial Police. of the United States entering Alberta for touring purposes may carry with them their customs certificates in lieu of registration. The Provincial Secretary may revoke or suspend the licence of any chauffeur convicted under the provisions of the Liquor Act of selling or having for sale intoxicating liquor. Provision is made for the impounding of cars where the owners or drivers are convicted of driving cars while intoxicated or convicted under other sections of the Act relating to speeding and juvenile driving. There is provision against the carrying of loaded weapons in an automobile—a preventive measure against accidents during hunting trips.

British Columbia.—Under the Motor Vehicle Act and amending Acts, all motor vehicles are to be registered with the Commissioner of Provincial Police. Trailers must also be licensed. Motor vehicles registered outside of the province may be used for touring purposes for a period up to six months providing that their owners obtain non-resident touring permits or carry the customs permits in the case of residents of the United States.

Motor vehicles are to be driven in a careful and prudent manner at all times. The onus is on the driver for driving to the common danger if driving at a greater speed than 20 miles per hour in any city, town or village, or 30 miles per hour outside cities, towns or villages, or greater than the maximum rate of speed stated on signs erected on certain portions of the highway. A motor vehicle may not pass a standing street car at more than 5 miles per hour, if such street car is not taking on or discharging passengers, and must stop at least 10 feet from the passenger

exit if such street car is taking on or discharging passengers (in cities where safety zones are provided, motor vehicles are allowed to pass between safety zone and curb at a rate as set by by-law). A motor vehicle must not exceed a speed of 15 miles per hour when passing schoolhouses between the hours of 8 a.m. and 5 p.m. of any day on which school is regularly held, or public playgrounds for children between dawn and dusk. Accidents in which death or personal injury has occurred, or in which loss or injury apparently exceeding \$25 is sustained, must be reported to the police.

No person shall ride as a passenger on a motor cycle in front of the person driving or operating the motor cycle. Provision is made for the surrender of drivers' licences upon conviction for an infraction of the Act or Regulations or of Section 285 of the Criminal Code; upon arrest or indictment for manslaughter a driver's licence is suspended. Drivers' and owners' licences of all persons convicted for certain serious offences in connection with the operation of motor vehicles, as well as all persons against whom an unsatisfied judgment for bodily injury or property damage in excess of \$100 is outstanding, are suspended until such time as proof of financial responsibility is furnished by them.

Yukon.—The Motor Vehicle Ordinance, No. 14, 1914, with amendments, requires all cars to be registered in the office of the Territorial Secretary, who issues certificates renewable annually on April 1. A non-resident may operate an unregistered motor for not more than 90 days. In cities, towns and villages the speed limit is 15 miles an hour, and 10 miles an hour at street intersections.

PART VIL—AIR NAVIGATION.1

During 1932 civil aviation was well maintained. Aircraft are a ready means of obtaining accurate information of conditions in remote and unsettled parts, and provide easy access to them. Their use in developing and conserving natural resources has increased every year. Air-mail and air-transport lines are in operation in many parts of the Dominion.

Civil aviation in Canada is divided into two classes: (1) civil operations, carried out for other Government Departments under the Royal Canadian Air Force; (2) commercial aviation, under the regulation of the Controller of Civil Aviation. Both are under the Department of National Defence.

Civil Government Air Operations.—This branch carried out flying on forest fire patrols, fire suppression, oblique and vertical photography for surveys, transportation, etc., for different Government Departments in various parts of the country. The established bases were Winnipeg, Man., and Ottawa, Ont.

Provincial Operations.—The Ontario Provincial Air Service owns and operates 26 aircraft on forest fire protection, transportation, air photography and sketching in northern Ontario. Operations covered an area of about 800 miles from east to west, and 400 miles from north to south. A total of 9,968 hours was flown during 1932. The Manitoba Government Air Service was organized in 1932 and operated 5 aircraft on forest protection in the province for the Forestry Branch; a total of 882 hours was flown on this work. British Columbia and Quebec contracted with commercial aircraft operators for flying required.

Revised under the direction of J. A. Wilson, Esq., Controller of Civil Aviation, by A. E. Heatley, Department of National Defence.

Commercial Aviation.—During 1932 there were 150 commercial aircraft operators in Canada. Their activities included forest fire patrols, timber cruising, air photography, transportation of passengers, express and mail, instruction, advertising, short passenger flights, etc., in various parts of the country.

Air Mail Services.—Regular air-mail services were established in December, 1927. During 1932 commercial firms operated the following air-mail routes under Post Office Department contracts: Winter Services.—Leamington-Pelee Island; Quebec-Seven Islands-Anticosti; Moncton-Magdalen Islands; Moncton-Charlottetown. Summer Services.—Rimouski - Montreal. Yearly Services.—Montreal-Albany; Sioux Lookout-Red Lake area; Amos-Siscoe-Pascallis; McMurray-Aklavik; Winnipeg-Pembina; Peace River-North Vermilion; Resolution-Great Bear lake; Prince Albert-lac La Ronge; Vancouver-Victoria. Mail to the extent of 412,409 lb. was carried under contract, without loss or damage, during 1932. (See p. 741).

Encouragement of Aviation.—To encourage a more widespread interest and knowledge of aviation, the Department of National Defence, since 1928, has assisted by issuing two light aeroplanes to each of the twenty-five flying clubs in the following localities: Halifax, Cape Breton, Saint John, Granby, Montreal, McGill University, Brant and Norfolk, Fort William, Hamilton, Kingston, London, Ottawa, St. Catharines, Toronto, Border Cities, Kitchener, Brandon, Winnipeg, Moose Jaw, Regina, Saskatoon, Calgary, Edmonton, Vancouver, Victoria. Granby and Victoria have since withdrawn from the scheme. The total membership at present is 2,703. A total of 10,451 hours was flown. 129 members obtained private pilots' licences, and 27 members obtained commercial pilots' licences during 1932. Many aerodromes have been established through this movement.

A large air terminal has been built at St. Hubert, 7 miles south of Montreal. A mooring tower for airships and an aerodrome have been constructed there, and immigration, customs and postal facilities are available. A terminal aerodrome has also been constructed at Rimouski for the despatch and reception of trans-Atlantic mails by air.

Manufacture of Aircraft.-An aircraft industry, to construct in Canada the aircraft and equipment required for aviation, is essential to the sound development of flying. Canadian Vickers, the pioneer firm in Canada, maintain their own designing department and have produced several original types especially suited to operation in Canada. The increased interest and the growing operations of the Dominion and Provincial Governments and commercial operators have led to the establishment of increased manufacturing facilities. Several aircraft constructors from England and the United States have formed branches in Canada for the assembly and service of their products. The De Havilland Aircraft of Canada, Ltd., established a plant in Toronto for the service and assembly of their aircraft, chiefly of the "Moth" light-aeroplane type; the Curtiss-Reid Aircraft Co., established a factory at Cartierville, Que.; the Fairchild Aircraft Ltd., at Longueuil, Que.; the Boeing Aircraft of Canada, Ltd., at Vancouver; and the Ottawa Car Manufacturing Co., one at Ottawa for A. V. Roe aircraft. Aero engine factories are established for construction or assembly and service of their products as follows: Armstrong-Siddeley Motors, Ltd., at Ottawa; Aero Engines of Canada, Ltd., at Montreal, for "Wright" and "Bristol" engines; Canadian Pratt and Whitney Aircraft Co., Ltd., at Longueuil, Que.

40.—Statistical	Summary of	f Civil	Aviation	în	Canada.	1927-32.

Item.	1927.	1928.	1929.	1930.	1931.	1932.
General Analysis.	No.	No.	No.	No.	No.	No
Firms manulacturing aircraft. Firms chiefly operating aircraft. Firms chiefly operating aircraft. Firms using aircraft as auxiliary service. Aircraft hights made. Aircraft hours flown Approximate acrollane mileage. Approximate float seaplane mileage. Approximate amphibian mileage. Approximate amphibian mileage. Total aircraft mileage. Average flight duration (minutes). Filots carried. Passengers and crew carried. Total personnel carried. Pilots carried one mile (pilot-miles). Fassenger-miles). Total personnel carried 1 mile (passenger-miles). Total personnel carried 1 mile (personnel-miles). Total freight or express carried (lb.). Total freight or express carried (lb.).	372,189 829,010 43 16,748 18,932 35,680 829,010 1,424,031 2,253,041 1,098,346	352,029 20,341	1,768,738 426,064 5,956 6,284,079 33	285, 628 13, 938 7,547, 420 36 156, 574 124, 875 281, 449 7,547, 420 5,408, 676 12,956,096	l · · ·	773 102,219 56,1702 2,786,609 1,503,157 198,792 80,573 4,569,131 76,8000 179,019 4,569,131 2,869,799 7,438,930 3,129,974 413,687
Licensed Civil Air Harbours.	1	010,001	207,		1	
Total air harbours (all types)	36	44	77	77	78	83
Licensed Civil Aircraft.		ļ		<u> </u>		
Aeroplanes (single-engined) Aeroplanes (triple-engined) Float seaplanes (single-engined). Boat seaplanes (single-engined) Amphibians (single-engined) Total aircraft (all types)		124 3 160 33 4 264	281 2 119 37 6 445	316 2 183 21 5 527	286 1 180 23 5 495	259 1 152 26 7 445
Licensed Civil Air Personnel.						
Pilots only (flying machines). Pilot-Air Engineers. Air Engineers only (flying machines). Total licensed personnel. Unlicensed air mechanics employed	29 74 148	258 70 130 458 8	349 96 212 657 150	408 131 241 780 164	653 134 236 894 131	775 133 208 983 52

¹These figures show duplication, since in several instances the aircraft are used both as landplanes and seaplanes.

PART VIII.—CANALS.

Before the period of extensive railway construction which commenced for Canada in the 1850's, the water routes, more especially the St. Lawrence, the Great Lakes and the Ottawa, were the chief avenues of transportation. These routes were interrupted at certain points, necessitating portages, and to eliminate the toil of unloading, transporting and reloading at the portages the canals of Canada were constructed.

The earliest mention of canals in Canada is in connection with the Lachine canal, begun by early French settlers in 1700, but only after the conquest of Canada by the British were improvements of the main water routes made, and in the early part of the 19th century increased internal and foreign trade and the introduction of steam navigation resulted in more attention being given to this work. Although the canals were constructed primarily for military purposes they soon became essential to the commercial life of the country.

Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This Branch publishes an annual report on "Canal Statistics".

Section 1.—Canal Systems.

There are in Canada seven canal systems under the control of the Dominion Government in connection with navigable lakes and rivers. They consist of the canals (1) between Port Arthur or Fort William and Montreal; (2) from Montreal to the International Boundary near lake Champlain; (3) from Montreal to Ottawa; (4) from Ottawa to Kingston and Perth; (5) from Trenton, lake Ontario, to lake Huron (not completed); (6) from the Atlantic ocean to Bras d'Or lakes, Cape Breton; and (7) from Winnipeg to lake Winnipeg. By means of these canals a total waterway of 1.846 miles has been opened to navigation, the actual mileage of canals being 509.40.

A detailed description of the individual canals was given on pp. 626-629 of the 1926 Year Book. Summary statistics of their length and lock dimensions are given in Table 41.

41.—Canals of Canada.	Langth and Look	Dimensions 1829
41.—Canais di Canada.	Lœuzun auu Lock	Diniensions, 1932.

	1			In	ks.	
Name.	Location,	Length.			ım Dime	ensions.
		La Canago III	No.	Length.	Width.	Depth.
Parran's Rapide Plat Galops	Montreal to Lachine Cascadee Point to Coteau Landing Cornwall to Dickinson's Landing Farran's Point rapids Rapide Plat to Morrisburg Iroquois to Cardinal Port Weller, lake Ontario, to Port Colborne, lake Erie St. Mary's rapids, 47 miles west of lake Huron St. Ours, Que Chambly to St. Johns, Que	Miles. 8 74 14 67 11 00 1 28 3 89 7 36 27 60 1 38 0 12 11 76	5 5 6 1 2 2 3 8 I	ft. 270 280 270 800 270 270 859 900 339 120 5	ft. 45 45 43·67 50 45 45 80 60 45 23·25	ft. 141 151 141 161 141 302 18-251 121 6-5
Ottawa and Rideau Rivers— Ste. Anne Lock Carillon Grenville	Junction of St. Lawrence and Ottawa rivers. Carillon rapids, Ottawa river. Long Sault rapids, Ottawa river. Ottawa to Kingston. Rideau lake to Perth (Tay branch). Trenton to Peterborough lock, Peterborough.	0-12 0-94 5-94 126-25 7-25	1 2 5 47 2	200 200 200 134 134	45 45 45 33 33	9 9 5 5 5 5
St. Peters	Peterborough lock to Swift rapids. Swift rapids to Port Severn. Port Severn lock. Stargeon lake to Lindsay (Scugog branch) Lindsay to Port Perry (Scugog branch) Isthmus of Murray—bay of Quinte. St. Peters bay to Bras d'Or lakes. Cape Breton, N.S. Red river, 15 miles north of Winnipag	26-65 5-15 0-50	24 (max (max 1	134 rine railw 100 142 300 :		6 4 6 6 4.5 11 ³ 18 17

^{&#}x27;Navigable depths are occasionally less at times of extremely low water.

Government Expenditures on Canals.—Tables 42 and 43 deal with the expenditures of the Dominion Government on the construction and maintenance of canals. The principal source of revenue is rentals for water for power purposes. All canals, it may be added, have since 1904 been free of tolls to vessels applying for the privilege of locking facilities. The total capital cost of Canadian canals since their construction was begun is set at \$244,835,826. The heavy capital expenditures in recent years are due to the construction of the Welland Ship Canal.

^{*}Minimum depth in river 25 feet.
*With lake Ontario at elevation 244 feet above sea-level.

on which \$125,980,223 had been spent up to Mar. 31, 1932. The lock gates were first opened on Apr. 21, 1930, and upper lake vessels with certain restrictions were allowed through. In 1932 the largest of the lake vessels (633 feet long) used the canal and draughts up to 22 feet were accommodated.

42.—Expenditures and Revenues of Canals for Periods Before Confederation, 1868-1910, and fiscal years ended Mar. 31, 1911-32

Note.—For the individual years 1868 to 1910, see Canada Year Book, 1916-17, p. 462,

		Expend	liture Charg	eable—		1		
			1	o Revenue.		Total		
Fiscal Year.	to Capital.	to Income.¹	Staff and Repairs, Canals in general,	Staff.	Repairs.	Expendi- ture.	Total Revenue.	
Before Confed-		8		8	<u> </u>	8		
eration	21, 152, 933	98,378	• -	ا ہ "	• • • I	21,251,811	· ·	
1868-1910	76,388,584	6,465,248	1,594,241	11,695,811	9,488,903	105,632,287	14,156,391	
1911	2,349,474	440,270	103.398	511.306	471,530	3,875,978	221,138	
1912	2,560,939	442,012	109,651	585,900	555,710	4,254,212	268,717	
1913	2,259,257	381,987	121,371	605, 248	535, 136	3,852,999	307,568	
1914	2,829,661	389,285	147,729	642,845	574,039	4,583,559	380,188	
1915	5,490,796	444,730		675,771	562,599	7,314,132	427,763	
1916	6,142,149	397,665	139,952	697,532	529,565	7,906,868	446,722	
1917	4,304,589	899,414	137,907	700,022	486.168	6,028,100	461,423	
1918	1,781,957	111,553	[149,859	743,857	540,331	3,327,557	414,868	
1919	2,211,935	164,046		733,091	698,878	3,964,508	387,655	
1920	4,579,565	798, 113		745,986	713,335	6,994,885	441,920	
1921	5,449,962	1,193,148		815,979	920,993	8,572,952	365,94	
1922	4,482,639	836,810		983,042	1,105,054	7,616,746	804,510	
1923	4,995,184	564,242		924,217	859,889	7,548,018	742,40	
1924	6,747,395			980,094	942,056	9,354,098	897,413	
1925	10,619,903	458,791		959,516	853,076	13,078,865	907,650	
1926	12,024,461	501,449		1,046,568	873,682	14,628,536	920,900	
1927	13,845,684	451,880		1,129,040 1,212,721	858,473 1,150,241	16,488,853	961,694 $1.355.677$	
1928	13,762,903 13,164,582	418,719 300,292		1,212,721	1,130,241	16,720,404 15,875,498	1,355,07	
1929	9,324,221	348,517		1,219,133	1,105,386		1,230,33	
1930	9,846,011	786,941	180, 106	1,495,796	1,287,141	13,545,996	1,026,670	
1931 1932	8,521,041			1,496,594	1,064,022	11,576,637	976,848	
Totals	244.835.827	17,167,774	5,164,824	31,756,\$24	27, 153, 842	326,079,191	29,143,04	

¹The income account is of expenditure on buildings and permanent improvements; the revenue account is of expenditure on maintenance only,

43.—Capital Expenditures for Construction and Enlargement of Canals to Mar. 31, 1932.

Canal.	Expendi- ture, Fiscal Year 1932.	Total Expendi- ture.	Expenditure, Fiscal Year 1932.	Total Expendi- ture.	
Carillon and Grenvillet. Ste. Anne Lock and Canal. Chambly St. Ours Lock Lachine Lake St. Louis Beauharnois. Soulanges Lake St. Francis. Cornwail Williamsburg Farran's Point Galops Rapide Plat St. Lawrence River North Channel River Reaches Galops Channel		\$ 4,191,757 1,320,216 780,996 704,217 14,007,978 2,988,176 1,636,029 7,899,945 75,907 7,245,804 1,334,552 877,948 2,159,881 1,995,143 4,838,30 1,339,895	St. Lawrence Ship Canal St. Peters. Rideau. Tay. Murray. Trent. Welland Welland Ship Canal. Sault Ste. Marie. Culbute Lock and Dam. Canals, general. Prescott Elevator. Totals.	(Cr.) 51 - (Cr.) 201 3,496,4892	\$ 133,897 648,547 4,214,213 489,599 1,248,947 19,953,626 29,903,388 125,980,223 4,935,896 382,381 34,967 4,715,326 244,835,827

¹The records relating to cost of construction by the Imperial Government were destroyed by fire in 1852 and the statistics prior to that year are not included in this table.

²Including \$506,764 charged to Unemployment and Farm Relief Continuance Act.

Section 2.—Canal Traffic.

Tables 44 to 49 deal with the traffic passing through Canadian canals in recent years up to and including 1932. In this latest year the total traffic amounted to 17,960,650 tons, which was an increase of 1,771,576 tons from the total for 1931.

The increase in total traffic through Canadian canals was all through the Sault Ste. Marie, Welland, St. Lawrence and St. Andrews canals. Although the traffic through the canals at Sault Ste. Marie decreased by 24,122,156 tons, the percentage and also the total tonnage using the Canadian lock increased. By the summer of 1931, the new Welland Ship Canal was advanced sufficiently to allow vessels drawing up to 18 feet of water to pass through and, at the opening of navigation in 1932, the allowable draught was increased to 20 feet for the large upper-lake vessels. Later in the season vessels drawing 20½ feet and with cargoes up to 15,900 tons used the canal. Iron ore, which had previously been shipped by rail from Point Edward to Hamilton, was shipped through from Lake Superior to Hamilton by water, and increased quantities of coal and other commodities were shipped through the canal.

For details of traffic handled through each canal, see the annual report on Canal Statistics published by the Bureau of Statistics.

44.—Total Traffic through Canadian Canals, navigation seasons 1900-32, by Nationality of Vessels and Origin of Freight.¹

Nors.—For Canadian canal traffic from 1886 to 1899, see 1902 Year Book, p. 398.

			77-44	ed States		Fr	eight Carrie	d.	
Navi- ation	Canadi	an Vessels.		ed Dtates essels.	Originati Canad	ng in la.	Originati United S		Total.
on.	No.	Registered Tonnage.	No.	Registered Tonnage.	Tons.	P.C. of Total.	Tons.	P.C. of Total.	Tons.
900 901	21,755 20,860	4,129,250 3,980,264	5,502 5,634	2,408.985 2,482,274	=======================================				5,013,69 5,665,25
902	22, 198	4,485,695	6,433	4,086,439	-	ì l	-		7,513.19
903	23,767	5,212,832	6.695	4,236,475	-	l I	-		9,213,81
901	21,851	4,772,100	6.253	3,655,905	-	i I	-	ľ	8,258,23
905 . 906	23,726 25,498	5, 191, 191, 5, 526, 321	7.085 7.319	5,096,241 5,685,315	_	!	-		9,371,74 10,523,18
907	28.833	6,328,911	9.328	11.604.834	_	i _ I		!	20.543.63
908	29,040	6,780,789	7,489	8.521.139	5,012,147	28-6	12,490,673	71 3	17,502,82
909	22,507	7.811.578	9,996	16.459.322	7.378.057	21-8	26,342,691	78.2	33,720,74
910	25,337	8,931.790	11,462	21,777,297	7,883.614	18.3	35, 106, 994	81-7	42,990,60
911.,	25,585	9, 172, 192	10,370	18,231,622	7,792,907	20.5	30,237,446	79.5	38,030,38
912	27,371	10,237,335	11,785	24,636,190	9,376,529		38,210,716	80.3	47,587,2
913.	28.654	12,078,041	10,739	24,238,788	11, 130, 875		40,923,038	78-7	52,053,9
914*	26, 125 21, 575	12,050,856	7.742	15,636,414 7,385,101	9,382,206 6,789,423		27,641,031 8,409,380	74·7 55·3	37,023,23 15,198,8
915 916 .	23,002	9,398,207 9,839,029	6,415 6,800	10,660,839	7,486,962		16,096,529	68.3	23.583.4
917.	21.588	9.831.694	6.594	10,259,772	5,964,369		16,274,566	73.2	22,238,9
918.	18.909	7,800,972	6.791	9.616.200	3.369.477		15,514,142	82.2	18,883.6
9191	20,682	8,735,973	4.092	5, 259, 173	4,865,831	48.7	5,129,435	51-3	9,995,26
920	23,038	8,521,643	3,826	3,838,890	4,094,044		4,641,339	53⋅1	8,735,3
921	25,720	10,079,386	2,969	2,330,178	4.562.028		4,844,993	51.5	9,407,0
922	26,217	11,059,261	3,735	3.165.054	6,273,227		3,752,828	37.9	10,026,0
923	27,112	13,013,970	3,399	3,325,809	7.637,485		3,561,949	31.8	11,199,4
924 1925	27,467 28,361		3,233 3,587	2,821,177 3,824,924	8,857,177 9,570,311		4,011,920		12.869.0
926.	27, 965		3,543	3,144,866	9,656,190		4,560,356 3,821,473	32·3 28·3	14,130,6 13,477,6
927	36.162		4.013	3.364.461	11.863.931		5,624,380		17.488.3
928	30.575		3,973	3.270.591	13,882,592		4,387,849	25.8	18,720,4
929	25.917		2.400		9,689,718		4.009.929	29.3	13,699.6
930	24,100		2.063		10,955,113		3,848,221	26.0	14.803.3
93 L	25,830		1,821		11,433,737		4,755,337	29.4	16,189,0
1932	19,854	15,255,970	2,061	2,681,078	13, 242, 773	l 73i-7 ∣	4,717,877		17,960,6

Figures include duplication where cargoes use two or more canals.
Third lock of United States Sault Ste. Marie canal opened Oct. 21, 1914

Fourth lock of United States Sault Ste. Marie canal opened Sept. 18, 1919.

45.—Distribution of Total Freight Traffic on Canals, by Months, navigation seasons 1926-32.

Month.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
January	tons. 1,691,689 2,309,478 2,123,356 1,710,017	tons. 541 673,811 2,426,701 2,497,073 1,975,204 2,468,196	tons. 585 111,161 2,452,368 2,583,737 2,621,168 2,843,453	tons. 711,312 2,155,653 2,165,033 1,875,862 1,899,269	tons. 294,038 2,023,657 1,966,064 2,155,723 2,319,748	tons. 859,121 2,676,774 2,243,120 1,987,980 2,080,946	tons. 912,999 2,235,860 2,346,107 2,273,578 2,439,664
September October November December	1,880,044 2,039,909 1,522,764 200,406 13,477,663	2,596,336 2,646,216 2,022,010 182,223 17,488,311	2,502,805 2,792,983 2,540,168 272,063 18,720,441	1,775,010 1,759,939 1,258,485 99,084 13,699,647	2,226,704 2,170,635 1,493,992 152,773 14,803,334	2,066,567 2,064,380 2,012,871 197,365	2,687,235 2,578,860 2,232,162 254,185 17,969,650

¹ Figures include duplications where cargoes use two or more canals.

46.—Tonnage of Canal Traffic, by Canals and Classes of Products, navigation seasons 1931 and 1932.

		1901 4110	1994.			
Year and Canal.	Agricultural Products.	Animal Products.	Manu- factures.	Forest Products.	Mine Products.	Total.
1931. Sault Ste. Marie. Welland. St. Lawrence. Chambly. St. Peters. Murray. Ottawa. Rideau. Trent.	3,020 - 690	tons. 216 2,049 9,641 63 1,157 	tons. 316,376 1,191,813 1,154,906 600 3,111 5 82,430 25,213 1,059	tons. 35, 463 349, 557 482, 069 12, 542 20, 938 6 18, 399 914 21, 195	tons. 216,835 2,569,903 1,450,860 34,778 19,307 878 389,861 133 778	tons. 2,219,567 7,273,886 6,036,980 50,336 47,528 889 492,919 27,521 23,172
St. Andrews	20	243 15,830	2,776,308	7,813 948,891	7,405 4,690,738	16,276
1932. Sault Ste, Marje. Welland. St. Lawrence. Chambly. St. Peters. Murray. Ottawa. Rideau. Trent. St. Andrews.	5,891 - 732 309 89	530 333 11,241 85 936 - 767 440 17 280	338,560 1,722,081 1,539,464 8,000 5,452 400 92,531 23,279 772 1,395	24,113 313,340 413,361 3,083 13,478 24 7,365 587 3,644 24,892	159,859 2,378,881 1,053,645 17,002 15,074 152,128 1,075 667 10,592	2,337,201 8,537,460 6,693,800 29,350 40,831 424 253,523 25,690 5,189 37,182
Totals!	9,621,277	14,629	3,731,934	863,887	3,798,923	17,960,650

¹ Figures include duplications where cargoes use two or more canals.

47.—Principal Articles Carried through Canadlan Canals, navigation seasons 1928-32.1

						
Article.	1929.	1930.	1931.	1932.	Increase in 1982.	Decrease in 1932.
Barley	tons. 845,346	tons. 421.940	tons.	tons. 617.255	tons.	tons. 480,937
Buckwheat	-	5 132,532	36 166,930	1 445, 151	278,221	35
OatsRye	125,574	249,264 126,169 61,453	585,658 87,106 64,211	428,181 537,968 60,544	450.862	157,477 3,667
Flaxseed	3,905,658	5,400,500	5 4,842,445	32,281 6,622,237	32,276 1,799,792	
Flour	532,984	583,488 8,764	826,373 3,794	176,457 2.313	-	49,916 1,481

47.—Principal Articles Carried through Canadian Canals, navigation seasons 1929-321—concluded.

						·
Article.	1929.	1930.	1931.	1932.	Increase in 1932.	Decrease in 1932.
	tons.	tons.	tons.	tons.	tors.	tons.
Other milled products	88,084	55,113	73.016	84.749	11,733	_
Fruits and vegetables	12,758	8.376	7,055	5.248	- 12,133	1.807
Potatoes	2,870	2,587	2,486	8.892	6.406	-,
Live stock	506	J - 424 .	390	250	1,	140
Poultry, game and fish	3,115	1,863	1,637	1.900	263	
Dressed meats	12	78	35	297	262	_
Other packing-house pro-					-	
ducts	1,633	1,572	3,351	2.052		1,299
Hides and leather	624	303)		,		•
Wool	506	316}	10,417	10.130		287
All other animal products	11,327	9,684	_	-		
Agricultural implements	14,408	3,932	1,743	3,776	2,033	
Cement, bricks and lime	2,272	14,861	17,246	33,294	16.048	
Household goods and furni-						
tore	585	844	503	234		269
Iron, pig and bloom	89,720	60,969	37,100	13,594		23,506
Iron and steel, all other	633,451	317,017	174,144	146,929	_	27,215
Gasolene	1 2	2	226,807	545,803	318,996	_
Petroleum and other oils	494,943	891,169	900,716	784,303	-	116,413
Sugar	323,126	306,183	403,351	438,612	35,261	_
Salt	21,560	23,232	35,196	49.739	14,543	
Wines, liquors and beer	19,210	26,364	29,123	16,591		12,532
Merchandise not enumerated	1,020,118	[1,003,082	950,379	1,415,033	464,654	· -
Paper	• .	. 3	200,472	284,026	83,554	
Pulpwood	1,064,724	1,158,837	644,599	731,085	86,486	
Sawn lumber	130,779	91,467	-66,404	57,128	-	9,276
Squared timber	14,295	6,977	7,285	2,578		4,707
Shingles	1,218	3,904	2.117	1,162		955
Other woods	21,951	25,503	28,014	11,934	-	16,080
Hard coal	96,815	148,302	165,609	275,262	109,653	-
Soft coal	1,862,106	2,347,398	2.962.734	2,745,576		217,158
Coke	52,262	20,502	229,298	316,295	86,997	- .
Copper ore	9,152	30,848	22,294	6,234	-	16,060
Iron ore	267,392	120,284	338,518	54,290		284.228
Other ore	36,120	86,072	32,372	3,534		28,838
Sand, etc	1,277,042	1,051,155	939,913	387,732		552,181
Totals ¹	13,699,647	14,803,334	16,189,074	17,960,650	1,771,5764	
		1		I :	1	

 $^{^1}$ Figures include duplications where cargoes use two or more canals. 2 Included with petroleum and other oils. 3 Included with merchandise not enumerated. 4 Net increase.

48.—Canal Traffic, by Direction and Origin, navigation seasons 1931 and 1932.

Year pad Canal.	From Canadian to Canadian Ports.		From Car United Por	States			From Uni to Car Por	
ten no cena.	Up.	Down,	Up.	Down.	Up.	Down.	Up.	Down.
1931.	tons.	tons.	tons.	tons.	tons.	tons.	tons.	tons.
Sault Ste. Marie Welland	284,064 544,522	1,717,729 2,961,981	2,875 253,080	41,815 30,487	14,014 174,510	21,931 296,3 5 4	113,132 15,041	2,997,911
St. Lawrence Chambly St. Peters	1,393,002 21,310 6,214	36,929	297,227 13,311 -	10,299 4,317	20,770 - -	13,840 - -	81,076 - 68	14,904
Murray Ottawa Rideau	75,981 23,337	411,075 4,184	-	1,084	-	11 - -	4,779	862
Trent	10,240 15,079	12,932 1,197	=	-		• -	-	
Totals ¹	2,373,765	8,205,584	566, 193	88,002	209,294	332,136	214,095	4,199,704

Figures include duplications where cargoes use two or more canals.

48.—Canal Traffic, by Direction and Origin, navigation seasons 1931 and 1932—concluded.

Year and Canal.	From Canadian to Canadian Ports.		From Canadian to United States Ports.		From Unit to United Por	d States	From United States to Canadian Ports.	
	Up.	Down.	Up,	Down.	Up.	Down.	Up.	Down.
1932.	tons.	tons.	tons.	tons.	tons.	tons.	tons.	tons.
Sault Ste. Marie	289,886 606,989		13,035 393,650	43,524 87.850		43,324 507,119		
WellandSt. Lawrence	1,488,448	3,405,595	352,951	40,147		34,371		1,014,651
Chambly St. Peters	11,833 10,827		5,718 879	1,300			<u>-</u>	10,158 17
Murray Ottawa	400 81,159		_	24 2,567		-	1,268	_
Rideau	22,652	8,038	-	2,001	-			
Trent St. Andrews	2,598 34,726		_ '	Ξ	-	<u>-</u>	[-]	
Totals!	2,552,518	8,864,736	766,233	175,412	452,878	584,814	403,268	4,154,791

Year and Canal.	Total Tr Direc		Origin of	Cargo.	Total	Increase (+) or De- crease (-)
iear and Canal.	Up.	Down.	Canada.	United States.	Cargo.	on Previous Year.
1001	tons.	tons.	tons.	tons.	tons.	tons.
1931. Sault Ste. Marie. Welland. St. Lawrence. Chambly. St. Peters. Murray. Ottawa. Rideau. Trent. St. Andrews.	414.085 987,153 1,792,075 34.621 6,282 16 80,760 223,337 10,240 15,079	1,805,482 6,286,733 4,244,905 15,715 41,246 873 412,159 4,184 12,932 1,197	2,057,552 3,947,133 4,793,891 35,432 47,460 16 485,284 27,521 23,172 16,276	162,015 3,326,753 1,243,089 14,904 68 873 7,635	2,219,567 7,273,886 6,036,980 50,336 47,528 889 492,919 27,521 23,172 16,276	+ 1,185,976 - 142,043 - 49,662 - 12,445 - 1,427 - 48,014 - 689 - 613 - 73,439
Totals1	3,363,648	12,825,426	11,433,737	4,755,337	16,183,674	+ 1,385,740
Sault Ste, Marie Welland St. Lawrence Chambly St. Peters Murray Ottawa Rideau Trent St. Andrews	17,551 11,706 400 85,427 22,652 2,598	7, 183, 534 4, 494, 764 11, 799 29, 125 24 168, 096 3, 038 2, 591	5,055,515 5,668,797 13,892 40,814 424 252,255 25,690 5,189	3,481,945 1,025,003 15,358 17 1,268	8,537,466 6,693,800 29,350 40,831	+ 1,263,574 + 656,820 - 20,986 - 6,697 + 465 3 - 239,396 - 1,831 - 17,983
Totals ¹	4,180,897	13,779,753	18,237,573	4,723,077	17,969,65	+ 1,771,576

Figures include duplications where cargoes use two or more canals.

49.—Traffic through individual Canadian Canals, navigation seasons 1927-32.

Note.—For corresponding figures for 1920-24, see p. 636 of the 1925 Year Book and for 1925-26, p. 668 of the 1930 Year Book.

	Canadian Vessels.		United S	tates Vessels.	_Total	Total	
Canal and Year.	No.	Registered Tonnage.	No.	Registered Tonnage.	Passen- gers.	Freight Carried.	
Sault Ste. Marie— 1927	2,818 2,940 3,145	tons. 3,269,942 3,415,478 3,401,058	421 418 440	tons. 1,214,782 1,171,011 1,475,774	34,483 34,289 33,357	tons. 1,470,551 2,007,137 2,374,119	
1929 1930 1931 1932	2,595 2,864 2,951	2,622,448 8,195,482 3,172,136	362 230 148	859,128 611,128 284,339	27,831 20,626 14,330	1,691,471 2,219,567 2,337,201	

49.—Traffic through individual Canadian Canals, navigation seasons 1927-32—concluded.

	Canadi	an Vessels.	United S	tates Vessels.	Total	Total
Canal and Year.	No.	Registered Tonnage.	No.	Registered Tounage.	Passen- gers.	Freight Carried.
b		tons.		tons.		tons.
elland— 1927	6,504	5,811,180	1,150	1,039,417		7,247,459
1928	5.365	5,598,493	1,222	1,051,464		7,439,617
1929	3,842	3.835.740	551	450,910	-	4,769,866
930	4.623	5,028,583	629	545,984	1,580	6,087,910
1931 1932	4,942 4,473	6,076,320 6,076,197	$\frac{868}{1,239}$	942,973 2,150,688	6,887 5,951	7,273,886 8,537,460
Awrence -	7,110	0,010,181	1,209	2,190,000	0,301	
927	13,860	7,370,693	1,110	960,201	87,567	7,912,952 8,411,542 5,718,651
928 929	13,152 10,368	7,416,426 5,470,265	1,25 8 513	922,377 307,175	85,926	8,411,542
80	9,177	5,759,178	342	211,882	71,405	6,179,023
1	10,257	5,685,318	265	167,981	51,848 43,866	6.036,980
2	7,851	5,510,025	320	224,456	1,784	6,693.800
oly—	541	67 400	070	107 070		904 596
7	414	67,402 52,679	870 750	107,370 93,983	609 446	204,536 179,868
9	297	55,559	569	67.869	318	123.077
30	307	26,497 23,311	472	55,492	164	99,998 50,336
31	327	23,311	194	55,492 16,259 10,384	158	50,336
932 eters—	203	15,045	116	10,384	60	29,350
927	903	58,840	19	5,345	302	46,306
928 929	964	65.306	20	6.287	174	52,848
29	909	69.689	27	4,749	370	49,650
930 931	845 871	76,861 69.849	20 22	2,923	194	59,973 47,528
932	790	61,233	70	4,270 6,304	126 215	40,831
sy 927						
1927	440	104,893	141	10,724 1,282	8,339	712
928 929	290 301	46,081 37,316	86 148	1,282 2,747	2,325	1,385 4,875
929	279	86,128	164	3,572		2,316
930 931	302	70,988	180	3,879	60	889
32	152	11,288	114	. 1,523	88	424
a— 27	3,017	553,140	193	92 AEE	27,565	455 750
8	3,694	606, 187	178	23,055 23,014	24,116	455,759 487,786
9 <i></i>	3,509	606, 187 652, 730 687, 987	106	12,209 5,013	22,995	537,037
930	3.209	687.987	49	5,013	22,982	540,933
1931	3,111 1,334	618,807 275,898	24 26	1,984 2,833	24,648	492,919 253,523
id—		210,000	20	2,000	_	400,020
927	1,139	84,081	30	1,525	3,803	57,951
928	936	78,368	19	685	1,441	51,999
)29 30	744 506	64,259 51,104	71 11	602 348	1,115 785	45,901 98 910
931	505	45,843	6	130	793	28,210 27,521
132	439	42,895	11 .	216	613	25,690
;— 197	2,577	82,411	79	2,042	47.00	47 754
927 928	2,456	82,411 81,899	22	2,042 488	47,954 39,291	27,754 36,311
929	2.024	64,588	29	1,315	33,908	17.843
929 930 931	1,712 2,374	54,614	14	234	26,989	23,785
1931	2.374	53.160	32	627	29.267	23,172
932 Indrews	1,325	35,509	17	335	21,027	5,189
1927	350	70,019			262	64,331
192R	364	74.259			138	51.948
1929 1930	678	89,867			1,084	58,628
1930	847 277	115,645 30 475			893 202	89,715
1931	336	30,475 55,744			121	16,276 37,182
is—						•
27	32,149	17,472,601	4,613	3,364,461	210,884	17,488,311 18,720,441
778	30,575 25,917	17,435,176 12,741,071	3,973 2,400	3,270,591 2,223,258	155.946	18,720,441
1979 1939	24,100	14,489,045	2,043	2,223,250 1,484,576	164,552 133,266	13, 699 ,647 14,8 6 3,334
1 931	25.820	15,869,553	1,821	1,749,231	133,266 126,633	16,189,074
1932	19,854	15,255,970	2,061	2,681,078	44,18\$	17,960,650

¹Totals include duplications where vessels use two or more canals.

The Panama Canal. 1-The Panama canal, which was opened to commercial traffic on Aug. 15, 1914, is a waterway which is destined to be of the greatest importance to the British Columbian ports, from which vessels now leave direct for Great Britain and European ports throughout the year. As an alternative route to that of the transcontinental railway lines, such a passage by water is of vital importance in the solution of the larger transportation problems of the continent. and while its influence is perhaps more potential than actual, such a check on transcontinental rail rates is a valuable one. During the War the great expectations based upon the opening of the canal were not realized, owing to the scarcity of shipping, but, with the post-war decline in ocean freight rates, an increase in traffic between our Pacific ports and Europe is occurring, and, while the proportion carried in vessels of Canadian registry is comparatively small, the cargo tonnage has nevertheless assumed considerable proportions. During the year ended June 30, 1932, as will be seen from Table 50, a tonnage of 65,959 originating on our eastern coast and a total of 574.317 tons destined for our western coast were carried westward through the canal. The greater importance of the route as one from Pacific to Atlantic ports is illustrated by the 3,479,778 tons originating at western ports and 561.805 tons destined for eastern Canadian ports locked through in the same period. Strictly intercoastal Canadian cargo during the year aggregated 90,802 long tons. The canal is thus becoming an avenue of trade between Eastern and Western Canada.

The report of the Governor of the Panama Canal Zone for the year ended June 30, 1932, records a decrease from 1931 of from 5,529 to 4,506 in the number of transits, a decrease from 27,792,146 to 23,625,419 in canal net tonnage and decreases from \$24,645,457 to \$20,707,377 in tolls collected, and from 25,082,800 to 19,807,998 in tons of cargo carried (Table 51).

With respect to traffic by nationality of vessels and cargo carried, vessels of United States registration carried 8,835,055 tons, or 44.6 p.c. of the total cargo of 19,807,998 tons locked through in the year 1932. British vessels carried 4,638,068 tons, or 23.4 p.c., Japanese vessels 1,031,704 tons, or 5.2 p.c., German vessels 1,078,738 tons, or 5.4 p.c. and Norwegian vessels 1,427,284 tons, or 7.2 p.c.

50.—Traffic to and from the East and West Coasts of Canada via the Panama Canal, years ended June 30, 1921-32.

V	Originat	ing on—	Destined for—		
Year.	Canada, West Coast.	Canada, East Coast.	Canada, West Coast.	Canada, East Coast.	
	long tons.	long tons.	long tons.	long tons.	
1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931.	125, 638 180, 931 604, 546 1, 223, 102 1, 082, 282 1, 650, 855 1, 548, 783 2, 845, 675 2, 578, 982 1, 947, 277 3, 525, 133 3, 479, 778	39, 561 25, 174 92, 939 110, 677 121, 803 160, 196 207, 003 168, 287 202, 522 261, 532 110, 924 65, 959	126, 414 148, 305 101, 588 141, 086 158, 709 168, 295 248, 009 268, 960 226, 810 179, 242 967, 100 574, 317	16,558 6,521 125,283 197,204 379,284 614,580 803,418 394,173 510,475 189,349 517,410	

¹Revised, and figures supplied, by courtesy of the Governor of the Panama Canal Zone.

51.—Summary of Commercial T	Yaffic through th	іе Рапама	Canal,	years	endeđ	June
·	30, 1915- 32.					

	Atlantic	to Pacific.	Pacific to Atlantic.		Total Traffic.	
Yеаг.	Vessels.	Vessels. Cargo Tonnage.		Cargo Tonnage.	Vessels.	Cargo Tonnage.
	No.	long tons.	No.	long tons.	No.	long tous.
915		2,070,993	553	2.817,461	1.075	4.888.48
)16	396	1,369,019	362	1,725,095	758	3,094,1
)17 <i>.</i>		2,929,260	929	4,129,303	1,803	7,058,5
)18. <u> </u>		2,639,300	1, 154	4,892,731	2,069	7,532,0
)19		2,740,254	1, 167	4,176,367	2,024	6.916,6
)20		4,092,516	1,298	5,281,983	2,478	9,374,4
)21		5,892,078	1,421	5.707.136	2,892	11,599,2
22		5,495,934	1,227	5,388,976	2,736	10,884,9
23		7,086,259	1,842	12,481,616	3,967	19,567,8
24		7.860,100	2,490	19,134,610	5,230	26,994,7
25 ,	2,413	7.398,397	2,260	16,560,439	4.673	23,958,8
26		8,037,097	2,437	18,000,351	5, 197	26,037,
27		8,583,327	2,587	19,164,888	5,475	27,748,2
128		8,310,134	3,072	21,320,575	6,456	29,630,7
29		9,882,520	3,085	20,780,486	6,413	30,663,0
30		9,475,725	3,050	20,554,507	6,185	30,030,2
81,,		6,680,429	2,725	18,402,371	5,529	25,082,8
32		5,635,358	2,162	14, 172, 640	4.506	19,807.9

PART IX.—SHIPPING AND NAVIGATION.

Canadian shipping may be divided into three classes: (1) ocean or sea-going shipping; (2) inland or rivers and lakes international shipping; and (3) coasting trade or coastwise shipping. Ocean shipping covers the sea-going vessels arriving or departing from Atlantic and Pacific Coast ports, including St. Lawrence River ports up to Montreal. Inland international shipping is the term used to cover shipping between Canadian and United States ports on the Great Lakes and international rivers and on lakes and rivers accessible to shipping from United States ports such as the Ottawa, Rideau, Trent, etc. (Ferriage is, however, excluded from this and other classes of shipping.) Coastwise shipping or the coasting trade covers shipping between one Canadian port and another on the Atlantic coast, on the Pacific coast and on the inland international lakes and rivers or lakes and rivers accessible to them. It does not, however, include shipping on isolated Canadian waterways such as the Mackenzie river, lake Winnipeg, lake St. John, etc.

Whereas, in the case of most countries of such extensive coast line, the ocean shipping is much the more important, in Canada, the shipping on inland waters, while finally dependent to a large extent on ocean traffic to foreign ports, shares, almost equally with that on the Atlantic and Pacific oceans, the attention devoted to water traffic. The Great Lakes are among the leading highways of the international trade of the world; consequently, the statistics of inland international shipping are included with those of sea-going shipping in Table 52, while those of sea-going shipping alone will be found in Table 53.

Tables 52-60, following, have been compiled or revised from the Shipping Report of the Department of National Revenue for the fiscal year ended Mar. 31, 1932.

52.—Sea-going and Inland Vessels (exclusive of Coasting Vessels and Ferriage) Arrived at and Departed from Canadian Ports, fiscal years ended June 30, 1301-66, and Mar. 31, 1907-32.

Note -F	or the veers	1868-1900, see	Canada	Voor	Rook	1011 n 280
MOTEr	or rue verns	1000-1900-866	CHIRCHE	1691	DVVK.	1911. D. 000.

	Ві	ritish.	Car	nadian.	Fo	reign.	Total
Fiscal Year.	No.	Tons Register.	No.	Tons Register.	No.	Tons Register.	Tonnage.
01,	4,319	6,694,133	30.211	8,540,089	22 200	10,795,586	26.029.8
02	4.363	6,865,924	33.202	9,654,528	33,302 40,148	13,504,952	30,025,4
03	4.647	7,753,788	31,534	10, 482, 940	53,545	15,418,315	33,655,0
04	4,997	8.045.817	30.984	9,955,290	35,739	18, 201, 098	31,202,2
05	4,614	8,034,652	29.729	11,047,447	35,647	13,195,721	32,277,8
06	5.104	9,059,453	32,239	11,241,915		14,430,804	34.782.1
07 (9 mos.)	4,488	7,576,721	30,654	11,582,409	37,644	11,436,761	30,595,8
	6,356	10.329.515		11.717.846	25,263	17,527,670	39,575.0
08			28.795		40,461		
09	5,795	10,405,370	29.247	13,805,790	38,677	16,490,443	40,701,0
10	5.780	11,038,709	28,635	15,680,534	41,650	17,848,748	44,567,
[]	6,870	12,712,337	29,670	16,380,146	40,892	18,337,062	47,429,
[2	6,766	13,342,929	27, 949	18,069,983	45,399	21,560,215	52,973,1
13	7,307	13,896,353	42,624	20,677,938	47,303	23,275,492	57,849,
<u> </u>	7.418	15,711,849	30,234	17,026,121	55,835	29,181,513	61,919,
15	6,949	13,931,091	29,359	17,504,751	48,635	22,168,311	53,604,
16	6,817	12,417,944	37,900	17,372,836	75,411	27,930,318	57,721,
17	7.387	16, 144, 873	39,978	20,290,252	74,850	29,277,419	65,712,
18	7,337	16,959,790	34,786	19,890,461	70,781	29,952,237	66,802,
19	6,099	14,054,166	37,023	17,567,061	52,273	21,607,821	53,229.
20 <i></i>	5.511	12,320,994	37.388	16,869,619	52.827	20.302.920	49,493,
21	4.526	10.545.619	39,877	22,236,692	50.370	21,866,049	54,648,6
22	4.239	10.471.403	36,679	20,029,572	61.114	26.164.278	56,665.
23	4.869	13,868,905	59.364	26,423,287	87, 199	32, 110, 991	72,403,
24	5.187	15, 158, 994	53,945	28,216,588	80.700	31,571,791	74.947.3
25	5.763	16,463,204	44,432	26,620,979	84.084	34,854,868	77.939.
26	6.515	17,749,067	34,010	23, 149, 028	55, 109	34.348.732	75.246.
27	6.448	18, 117, 525	34,015	25,692,591	62,344	33.521.543	77.331.
28	6.253	18,738,027	38.497	28, 453, 951	67,771	36,611,819	83,803
29	6.400	21,625,660	39.038	29,792,258	75.745	42.317.309	93.735.5
	5.634	20,171,383	40.251	29, 137, 798	107.925	40, 129, 608	89, 438,
30							90.911.
31,	5,826	20,008,005	83,877	29,541,844	83,383	41,362,027	
32	5,754	19,025,391	30,978	27,683,791	72,577	36,727,215	83,436,

Section 1.—Ocean Shipping.

Canadian ocean shipping dates back to the days of early European fishermen who frequented the shores of Newfoundland and the Maritime Provinces. Oceangoing vessels of that time were crude wooden sailing craft of but 20 or 30 tons burden, to be entrusted only to skilful and hardy mariners for navigation through little known seas. Later on exploration and settlement produced a larger volume of traffic, but it was not until the building of ships in Canada by the French assumed some dimensions that traffic became important. The first ocean-going vessels in Canada were probably built by Pont-Gravé, one of the first settlers in New France, and soon afterwards Talon and Hocquart, intendants of the colony, realizing the advantages offered to the industry by the timber resources available, gave it every encouragement. Shipyards were established at Quebec and other points along the St. Lawrence, and these, together with later establishments in the Maritime Provinces and on the western coast, have formed the principal bases of Canadian shipping on the Atlantic and the Pacific.

Canadian shipping attained some prominence in the days of fast wooden sailing vessels, and also at a later date when steam power first came into use. In 1833 the Royal William, a Canadian ship built to ply between Quebec and Halifax, crossed the Atlantic from Pictou to London, the first vessel to navigate the Atlantic under steam power. A few years later Samuel Cunard established the well-known steam-ship line of that name. His company pursued a conservative course; wooden

ships were used long after iron hulls were a proven success, and paddle wheels after the introduction of the screw propeller. By 1867 the company's business had shifted to New York and its terminal was moved thither from Halifax. The Allan line had a somewhat similar early history but remained a purely Canadian company. In addition to other lines of less importance, both the C.P.R. and the Dominion Government operate fleets on the Atlantic and the Pacific oceans.

In the following tables statistics are given of sea-going vessels entered and cleared at Canadian ports during the fiscal years from 1901 to 1932 (Table 53); of the nationalities, tonnages of freight carried, and numbers of crews of vessels entered and cleared at Canadian ports in the fiscal years ended 1931 and 1932 (Table 54); of entrances and clearances of sea-going and all ships at principal ports (Table 59); and of the countries whence arrived and to which departed (Table 55). The numbers and particularly the tonnages of vessels entered and cleared at Canadian ports, in both ocean and coasting trade, indicate clearly the predominance of British and Canadian shipping over that of all other nations. This is particularly the case on the Atlantic coast, where the bulk of our European and South American trade is handled. The figures in Table 53 show a significant and fairly steady expansion in the total of ocean shipping through Canadian ports since the beginning of the century, with a relatively slight decline in the latest year.

53.—Sea-going Vessels Entered and Cleared at Canadian Ports with Cargo and in Ballast, fiscal years ended June 39, 1901-06, and Mar. 31, 1907-32.

Nore.—For corresponding figures for the years 1868-1900, see Canada Year Book, 1911, p. 379.

	В	ritish.	Car	nadian.	Fo	Total	
Fiscal Year.	No.	Tons Register.	No.	Tons Register.	No.	Tons Register.	Tonnage
\ 4	4.319	6,694,133	9.910	1.677.138	79 474	A 121 701	14 740 0
<u>]</u>					12,476	6, 171, 791	14,543,0
92	4,363	6,865,924	11,413	1,937,227	14,530	5,928,237	14,731.4
<u> 13</u>	4,647	7,753,788	11,282	2,085,568	12,403	6,001,819	15.841,
<u>H</u>	4,997	8,045,817	11,045	1,979,803	14,002	5,801,085	15,826,
5,,,,,,	4,614	8,034,652	11,279	2,269,834	11,904	5,283,969	15,588.
)6, ,, , , , ,	5,104	9,059,453	12,201	2,304,942	12,511	5,479,034	16,843,4
7 (9 mos.)	4,488	7,576,721	7,880	1,899,141	8,107	4,429,012	13.904.
) 8	6,356	10,329,515	10,562	2,606,660	12,886	6,555,096	19,491,
9	5,795	10,405,370	10,946	2,806,278	13,441	6,554,228	19.765.
0	5,780	11,038,709	10,875	3,498,361	13,147	6,267,243	20,804,
	6.870	12,712,337	10,607	3.341,998	12,467	6,242,851	22,297.
2	6.766	13,342,929	10,966	4,618,163	15.134	6,628,513	24.589.
3	7.307	13,896,353	11.810	4,530,835	16,549	7,803,910	26.231
4	7.418	15,711,849	12.786	5,160,799	15.811	8,695,838	29.568.
15	6.949	13.931.091	11.903	4,005,011	15,060	7,466,484	25.402.
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,		,		24, 102,
16	6.817	12,417,944	12,386	3,894,731	18,559	8,514,975	24.827.
17	7.387	16,144,873	12,241	4,343,448	18,500	8,778,753	29, 267,
18	7.337	16,959,790	10,998	4,343,853	16,597	11.483.484	32,787.
9	6.099	14,054,166	11.115	3,758,528	15, 132	7,448,699	25,261,
20	5,511	12,320,994	11,994	4,434,634	17,353	8, 489, 126	25,244,
81	4.526	10,545,619	12.490	5,510,484	17,624	8,860,626	24,916,
2	1.239	10.471,403	14,929	6,861,202	17, 170	10.261.865	27.594
3	4.869	13,868,905	16.693	7,463,809	17,493	12.945.623	34.278.
24	5.187	15, 158, 994	16,778	7.698.045	16,795	14, 161, 363	37, 018.
S	5.763	16,463,204	17,779	7.966.193	17,314	16.551.629	40.981.0
•	2,100		,		11,011	10,301,028	40, 801,
26	6,515	17,749,067	17,906	9,703,054	18,117	18, 202, 875	45,654,1
2 7	6,448	18,117,525	16,746	8,926,138	19,111	19, 106, 106	46, 149,
:8	6,253	18,738.027	16,716	9,021,264	18,561	20, 455, 343	48,214.
29	6.400	21,625,660	18,005	9,235,036	21,021	23,547,831	54,408.
30	5,634	20, 171, 383	18, 145	9,673,948	19,689	23, 146, 901	52,992
BI	5,826	26,008,005	17,865	11,707,129	17,906	22,885,015	54,600,1
32	5,754	19,025,391	15,919	11,808,667	16,604	21,596,183	52,340

54.—Details, by Nationality, of Sea-going Vessels (exclusive of Coasting Vessels) Entered and Cleared at Canadian Ports, fiscal years ended Mar. 31, 1931 and 1932.

			Frei	ght.	
Nationality.	Number of Vessels.	Tons Register.	Tons Weight.	Tons Measure- ment.	Number of Crew.
1931.					
Entered.					
BritishCanadian	2,962 8,904 8,871	10,746,965 6,066,752 11,251,045	2,671,576 1,330,623 3,461,880	272,269 23,754 54,013	271,623 240,860 265,214
Totals	20,737	28,064,762	7,464,079	359,636	777,697
CLEARED.	:				
British. Canadian	2,864 8,961 9,035	9,261,040 5,640,377 11,638,970	3,984,518 920,508 4,880,537	501,785 166,657 487,581	224,945 227,008 271,950
Totals	20,860	26,535,387	\$,735,543	1,105,973	723,963
Totals, Entered and Cleared.			•		
British Canadian Foreign	5,826 17,865 17,906	20,008,005 11,707,129 22,885,015	6,656,094 2,251,131 8,292,417	774,054 190,411 491,544	496,568 467,868 537,164
Totals	41,597	51,600,149	17,109,642	1,456,009	1,501,600
1932.					
Entered.					
British Canadian Foreign	2,925 7,944 8,306	10,164,943 6,082,973 10,755,294	1,919,791 1,681,806 2,965,693	203,342 35,150 15,733	227,837 221,094 240,685
Totals	19,175	27,063,210	0,566,699	254,225	689,416
Cleared.					
British	2,829 7,975 8,298	8,860,448 5,725,694 10,750,889	4,324,046 686,480 4,677,342	304,030 167,128 539,990	200,640 200,683 241,174
Totals	19,102	25,337,031	9,687,868	1,011,148	642,497
Totals, Entered and Cleared.					
British	5,754 15,979 16,604	19,025,391 11,809,667 21,506,183	6,243,837 2,368,286 7,642,435	507,372 202,278 555,723	428,477 421,777 481,859
Totals	38,277	52,340,241	16,251,558	1,265,373	1,332,113

55.—Sea-going Vessels Entered and Cleared, by Principal Countries, fiscal year ended Mar. 31, 1932.

VESSELS ENTERED INWARDS.

		VESSELS	ENTE	KED 1	NWARDS	5.		· · · · · · · · · · · · · · · · · · ·	
		British.			Canadian			Foreign.	
Country.	No. of Ves- sels.	Tona Register.	Crew, No.	No. of Ves- sels.	Tons Register	Crew, No.	No. of Ves- sels.	Tons Register.	Crew,
bence Arrived—									
Great Britain	928	5,321,086	109,039		62,016	769	162	288,624	4,21
Australia	37	250,010	5,824	18	65,368	733	4	13,965	13
British South Airica British West Indies	29	102,722	1,422	100	400 104	14 949	1.8	26,505	29
Newfoundlandi	27 598	41,617 424,051	671 15,941		460,124 166,048	10,242 5,997	152 144	198,484 201,451	3,72 3,27
New Zealand	996. 9	62,589	1.431		3.260	5,997 42	144	21.841	20
Hong Kong	25	256,217	8,250	7	61.805	3,686		44,302	87
Other Br. possessions	33	120, 100	1,992	l -'.	VI,000	0,000	21	72,500	83
Argentina	ľi	2,182	30	15	54,120	669	24	82,826	81
Belgiana	56	429,744	10.014		. **,***		74	256,343	8.11
China	32	144,014	2,983	5	44,227	2,583	Ĝi	227,277	3,26
Colombia	7	30,802	255	39	218,180	1,671	3	12,150	9
Caba	-	_	- 	1 1	1,460	28	2	1,986	4
Denmark	-			i - I	i - I	- (24	146,514	4,17
France	11	72,783	1,503	-	_ :	- 1	47	181,253	3,60
Germany	27	225, 101	5,416	i -I	-	-]	109	513,362	9,64
Greece			المقعاد	_	-	-	3,	9,318	
Holland	29	153.476	1,522		· - 1	Y	80		4,17
Italy	5	15,352	160 7,360		136,015	7.103	50 256		2,50
метісо	45 2	299,581 7,368				7,103 56	256	1,130,351	15,92
Norway		7,9UO	: º⁴	10	948	50	- 8	23,898	27
Para	_a	64,778	364	19	105,692	813		24,087	ĩ:
Peru St. Pierre and Miquelon	184	13, 134	1,620		29,548		28	18,055	
Spain	1 23	8,159	95	100	20,010	1,011	- š		2
Sweden	_	- 0,100	_	_	_		44	179,6411	4.2
United States	442	1.979.589	46,645	5.158	4,564,672	166,870		6.311.241	159.24
Sea Fisheries	235	7,286	1,955		71,015	17,162	1,248	64,527	12.8
From Sea	120	23, 104	1,936	68	5,141	511	30		33
Totals ¹	2,925	10, 161, 343	227,837	7,911	6,682,973	721,094	8,396	10,755,291	210,68
	1	ESSELS	CLEAR	ED O	UTWARD	8.			
o which Departed -				·		آ ا		<u> </u>	
Great Britain	817	4,550,475							
Australia	46	281,259 187,037	6,412 5,989	8 7	30,952	335		38,975	34
Hong Kong British South Africa	18 6	187.037 25.054	5,989 296	í	61,805 4,485	3,644 55	7 8	32,701 26,992	30
British Guiana	۰ ل	23,004	290	51	183,962	4,114	25		62
British West Indies	35	66, 136	2,533	183	322,399	7,236	110		2.8
Newjoundland	753	433,776	17.040		160,793	6.380	126	202.028	3.0
New Zealand	a 103	54,945	1.514	7	25, 420	292	10		3,0
Other Br. possessions	30	107,138			- 1		36	112,176	1.26
Argentina	14	44,937	1,044	13	45,056	531	27		9
Relaium	2.5	147 054	1 000	I	, 550	-51	50		9 11

Hong Kong	Great Britain	817					629	250		
British South Africa. 6 25,054 296 1 4,485 55 8 26,092 British Guiana 51 183,985 4,114 25 35,829 British West Indies. 35 66,136 2,533 133 322,399 7,236 110 143,143 2,1 143,143 2,1 144,145 145,145 25 35,829 146,145 146,793 6,380 126 202,028 3,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200 20,200	Australia	46	281,259	6,412		30,952	335	12	38,975	
British Guiana.		18	187,037	5,989	7	61.805	3,644	7	32,701	366
British West Indies	British South Africa	6	25,054	296		4,485				304
British West Indies	British Guiana		· -	_	51	183,962	4,114	25	35.829	674
New Zealand	British West Indies		66,136	2,533	133	322,399	7,236	110	143, 143	2,812
Other Br. possessions 30 107,138 1,629 - - 36 112,176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 2,2176 2,2176 <td>Newfoundland</td> <td>753</td> <td>433,776</td> <td>17.040</td> <td>344</td> <td>160,793</td> <td>6,380</td> <td>126</td> <td>202,028</td> <td>3,051</td>	Newfoundland	753	433,776	17.040	344	160,793	6,380	126	202,028	3,051
Other Br. possessions 30 107,138 1,629 - - 36 112,176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 1,2176 2,2176 2,2176 <td>New Zealand</td> <td>6</td> <td>54,945</td> <td>1,514</td> <td>7</td> <td>25,420</td> <td>292</td> <td>10</td> <td>36,002</td> <td>347</td>	New Zealand	6	54,945	1,514	7	25,420	292	10	36,002	347
Argentins. 14 44.937 1.044 13 45.056 531 27; 93.088 Belgium 37 147.954 1.900 - 50 1.50.679 2. China 36 161.216 3.230 5 48.155 2.562 45 213.268 3. Colombia 7 35.570 267 38 213.362 1.646 8 27.467 2. Colombia 2 4.172 86 8 15.166 489 40 75.622 1. Deamark 62 251.171 6. France 48 249.502 5.641 2 4.090 59 124 424.324 6. Germany 13 58.951 685 92 391.281 5. Greece 4 11.817 131 17. 30.748 6 13.689 201 - 56.74 12.295 56.76 161.378 2. Tally 6 18.689 201 - 38.1443.557 18.5 Mexico 3 123 123 19 22 5.483 159 2 5.861 Norway 34.594 301 14 81.301 511 7 20.715 18. Norway 19.05.355 18. See Fisheries 232 8.802 2.303 2.308 4.129.899 147.771 5.139.589.301 1.845.864 37.947 5.058 4.129.899 147.771 5.139.899 17. For Sea 18 18.382 1.297 12 292 560 70 8.126	Other Br. possessions	30	107,138	1.629	_			36	112, 176	1,267
Belgium. 37 147,954 1,990 - - 50 159,679 267 China. 36 161,216 3,230 5 48,155 2,562 45 213,268 3,4 Colombia. 7 35,570 267 38 213,302 1,640 9 27,467 7 Cubs. 2 4,172 86 8 15,166 489 40 75,622 1,767 6,7622 7 6,7622 7 6,7622 7 6,7622 7 7,622 7 6,7622 7 6,7622 7 6,7622 7 6,7622 7 6,7622 7 7 6,7622 7 7 6,7622 7 7 6,7622 7 7 7 6,7622 7 7 7 6,7622 7 7 7 6,7622 7 7 7 6,7622 7 7 7 7 6,7622 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 <td< td=""><td>Argentina</td><td>14</td><td></td><td></td><td>13</td><td>45,056</td><td>531</td><td>27</td><td>93.088</td><td>918</td></td<>	Argentina	14			13	45,056	531	27	93.088	918
China. 36 161,216 3,230 5 48,155 2,562 45 213,268 3,4 Colombia. 7 35,570 267 38 213,302 1,640 9 27,467 Cubs. 2 4,172 86 8 15,165 489 40 75,622 1,1 Denmark -		37		1.990	l - i			50		2,133
Colombia 7 35,570 267 38 213,302 1,640 9 27,467 27,467 200 200 38 15,166 489 40 75,622 1,622 1,717 6,762 1,717 6,762 1,717 6,762 1,717 6,762 1,717 6,762 1,717 6,762 1,717 6,743 6,743 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,717 7,712 7,717 7,712 7,712	China	36	161,216		5	48, 155	2,562	45		3,699
Cubs. 2 4,172 86 8 15,166 488 40 75,622 1,76 Pennark - - - - - - 62 251,171 6,76 France 48 249,502 5,641 2 4,090 59 124 423,284 6,724 Greece 4 11,817 131 - - 17 50,748 6,88 Holland 34 113,479 1,289 - - 55 161,878 2,748 Hay 6 18,689 201 - - 38 147,181 1,47,181 1,47,181 1,47,181 1,47,181 1,47,181 1,47,181 1,47,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 1,87,181 <	Colombia	7	35.570		38	213,302	1.640	1 9		289
Denmark - - - - - 62 251,171 6,2 France 48 249,502 5,641 2 4,090 59 124 424,384 6. Germany 13 58,951 685 - - 9 124 424,384 6. Greece 4 11,817 131 - - 17 30,748 5. Holland 34 113,479 1,259 - - 56 161,378 2, Italy 6 18,689 201 - 38 147,181 1, Japan 28 242,240 6,734 23 186,226 9,299 333 1,443,581 1, Norway - - - - - - - - 60,535 18,581 18,581 18,581 1,741 55 39,558 1,581 1,685 1,741 55 39,558 1,685 1,741	Cuba	2			8	15,166	489	40		
France. 48 249.502 5.641 2 4.090 59 124 424.384 6.7 Greece. 11,817 1311 17, 50.748 113,817 1311 17, 50.748 113,819 129 56 161,378 2.7 17, 50.748 113,479 1.289 38 147,181 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.	Denmark	-	_		_	_				6,588
Germany 13 58.951 685 92 291.281 5.5 Greece 14 11.817 131 17 50.748 5.1 Holland 134 113.479 1.289 56 161.378 2.1 Hulland 154 15.479 1.289 56 161.378 2.1 Hulland 154 15.479 1.289 1.289 1.28 156 157.48 157 18.9 158 159 159 159 159 159 159 159 159 159 159	France	48	249,502	5,641	2	4.090	59	124	424.384	6.287
Greece. 4 11,817 131 -	Germany	13	58.951				- 1			5.527
Holland 34 113.479 1.289 55 161.378 2.1 Italy 6 18.689 201 - 38 147.181 1.2 Japan 28 242,240 6.734 23 186.228 9.299 333 1,443.557 18.5 Mexico 3 123 19 22 5.483 159 2 5.861 Norway 5 9 0 60.535 5 Peru 5 34.594 301 14 81.301 511 7 20.715 1.2 St. Pierre and Miquelon 159 27,142 1.931 126 33.923 1.741 55 39.558 1.0 Spain 5 3 1.938 1.0 Sweden 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			11,817			-				563
Italy	Holland	34	113.479	1.289	-	_	_	56		2.262
Japan 28 242,240 6,734 23 186,228 9,299 333 1,443,557 18,45 Mexico	Italy	6	18,689	201		-	_			
Mexico. 3 123 19 22 5,483 159 2 5,861 Norway. - - - - - - 19 60,535 19 Peru. 5 34,594 301 14 81,301 511 7 20,715 15 Spain. - - - - - 31,938 1,741 55 39,558 1,585 Sweden. - - - - - - 3 1,938 United States. 432 1,845,804 37,947 5,058 4,129,899 147,771 5,183 5,489,900 145. See Fisheries. 252 8,802 2,303 2,058 75,652 12,620 1,402 78,019 17, For Sea. 18 18,382 1,297 12 292 50 70 8,126		28		6,734		186,228	9,299	333		
Norway. 5 34,594 301 14 81,301 511 7 20,715 22,715 22,715 23,712 1,931 126 33,923 1,741 55 39,558 1,031 1,031 1,26 33,923 1,741 55 39,558 1,031 1,032 1,031 1,031 1,031 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032 1,032		3			22					
Peru 5 34,594 301 14 81,301 511 7 20,715 21,715 St. Pierre and Miquelon 159 27,142 1,931 126 33,923 1,741 55 39,558 1,583 Spain - - - - 3 1,938 43 227,412 6,62 United States 432 1,845,804 37,947 5,058 4,129,899 147,771 5,183 5,439,900 145,7 For Sea 18 18,382 1,297 12 292 50 70 8,126	Norway	-	_	-	-	· -	- 1	19		
St. Pierre and Miquelon 159 27,142 1,931 126 33,923 1,741 55 39,558 1,558 Spain - - - - 3 1,938 Sweden - 3 1,845,804 37,947 5,058 4,129,899 147,771 5,183 549,900 147,771 Sea Fisherice 252 8,802 2,303 2,058 75,652 12,620 1,402 78,001 17,71 For Sea 18 18,332 1,297 12 292 50 70 8,126	Peru		34,594	301	14	81.301	511	7		
Spain	St. Pierre and Micuelon	159	27,142	1.931	126		1.741	55		1,059
Sweden 432 1,845.804 37,947 5,958 4,129.899 147,771 5,183 5,439.900 145.8 See Fisheries 252 8.802 2,303 2,058 75,652 12,620 1,402 78,019 17,71 For Sea 18 18,382 1,297 12 292 50 70 8,126		-		_	_		-,,	3		
United States 432 1,845.804 37,047 5,058 4,129,899 147,771 5,183 5,439,900 145.6 Sea Fisheries 252 8,802 2,303 2,058 75,652 12,620 1,402 78,019 17, For Sea 18 18,382 1,297 12 292 50 70 8,126	Sweden	-	-	! -!	-	_	-		227,412	
Sea Fisheriee 252 8.802 2.303 2.058 75.652 12.620 1.402 78.019 17. For Sea 18.382 1,297 12 292 50 70 8.126	United States			37,947	5,058	4.129.899	147,771	5.183		
For Sea 18 18,382 1,297 12 292 50 70 8,126		252								
Totals 2,829 8,860,448 200,640 7,975 5,725,694 200,683 6,298 10,759,889 241,1				1,297	12					
	Totals ¹	2,829	8,860,448	200,640	7,975	5,725,694	200,683	6,298	10,759,880	241,174

¹ Totals include other countries not specified.

Section 2.—Inland Shipping.

Inland shipping is associated in its beginning with the birch-bark canoe of the American Indian. The advantages of this light and easily navigable boat were realized by explorers and fur traders, and for many years it was in general use, giving way to more substantial craft only with the demands of heavier traffic. The bateau and Durham boat came into common use after the migration of the U.E. Loyalists but soon gave place to larger vessels on the St. Lawrence and the other main highways of the time. Original plans of the Lachine canal, calling for a width of 12 feet and a depth of 18 inches, afford an illustration of the size of these primitive craft.

In the absence of any roads to make land travel possible, the St. Lawrence river and the Great Lakes formed the main highway to the interior. The route from Montreal to the Upper Lakes was broken at three places—from Montreal to Kingston transportation was by bateau or Durham boat, from Kingston to Queenston schooners were used, then there was the portage road from Queenston to Chippawa and, finally, schooner again to the destination. The charge for transporting a barrel of rum from Montreal to Kingston was from \$3 to \$3.50, and freight charges on other goods were proportions of this standard rate.

In 1809, the Accommodation, the first Canadian steamship, was built for the Hon. John Molson, to run between Montreal and Quebec. By 1818 Molson had formed a company, the St. Lawrence Steamship Co. or the Molson Line. On lake Ontario, the Frontenac was used from 1817 on a weekly service between York and Prescott and, following this beginning, came a period of great activity in lake and river shipping. In 1845, the Gore reached lake Huron by way of the Welland canal to carry on transport trade on the Upper Lakes, where previously there had not been enough traffic to support a large ship. Shipping on the Upper Lakes became brisker now, for there were settlers to be carried from Buffalo to the western United States and grain to be brought back. In this period Canadian shipping made its profit by carrying American goods, for there was little traffic originating in the Canadian near-West.

Upon the advent of steam railways, water-borne traffic did not decrease but, on the contrary, increased, and at present the greater part of the western grain is shipped via the Great Lakes route to eastern ports. The iron ore and coal traffic between lake Superior and lake Erie ranges between 60 and 80 million short tons per annum; the total traffic on these upper lakes alone is greater than that carried by all Canadian railways and about one-twelfth of that carried by all United States railways.

Inland International Shipping.—Statistics of the inland international shipping between Canadian and United States ports for the fiscal years ended Mar. 31, 1928-32, exclusive of ferriage, are given in Table 56. The total tonnages of inland international shipping entered and cleared in the fiscal years 1920-32, were as follows: 1920, 24,248,779; 1921, 29,731,901; 1922, 29,070,783; 1923, 38,124,846; 1924, 37,928,971; 1925, 36,958,025; 1926, 29,591,831; 1927, 31,181,890; 1928, 35,589,163; 1929, 39,326,700; 1930, 36,446,557; 1931, 36,311,727; 1932, 31,096,156.

56.—Canadian and United States Shipping on Rivers and Lakes between Canadian and United States Ports, exclusive of Ferriage, fiscal years ended Mar. 31, 1928-32.

Item.	1928.	1929.	1930.	1931.	1932.
Vessels Arrived—					_
Canadian—Steam and motor. No. Tous register. No. Number of crew.	9,946	9,677	9, 285	7,294	6,98
	8,689,990	9,496,259	9, 183, 401	8,666,392	7,504,57
	276,095	280,107	271, 231	236,5 66	206,24
Sail. No. Tons register. Number of crew	330	270	1,276	519	21
	101,618	57,077	72,227	64,877	64,46
	1,380	1, 09 3	2,080	1,232	89
United States— Steam and motor	23,769	26,261	42,989	32,229	27,82
	7,609,732	8,921,588	8,010,012	8,783,219	7,515,19
	179,096	196,118	261,251	261,606	221,90
Sail	1,028	1,112	1, 192	621	24
	344,292	512,827	284, 945	255,202	131 .97
	2,993	4,604	2, 758	1,964	90
Description of vessels— Steam, screw	12,818 2,008 9 18,880	25,395 2,013 9 8,522	39,806 1,630 9 10,829	29,740 1,497 9, 8,277	25,39 1,30 8,09
Sail	97	83	43	257	70
	1,261	1,298	2,425	883	38
essels Departed—					
Canadian—Steam and motor	11,157	10,855	9,894	7,684	7,645
	10,550,279	10,952,282	10,133,814	9,015,359	8,242,686
	282,831	297,325	283,083	240,683	215,666
Sail	348 90,800 1,453	231 51,604 843	1,651 74,408 2,496	515 88,087 1,370	63,399 94
United States— Steam and motor	23,239	26, 135	42,807	31,945	27,653
	7,834,436	8, 816, 991	8,389,248	9,203,669	7,434,814
	195,173	212, 840	263,268	259,674	220,222
Sail No Tons register Number of crew	1,174	1,216	1,248	682	250
	368,016	518,072	298,502	234,922	139,044
	3,342	5,210	2,932	2,027	895
Description of vessels— Steam, screw	13,973 1,989 9	26, 261 1, 997 9	40, 194 1, 715 9	30,018 1,484 9	25,922 1,291
Motor	18,425	8,723	10,783	8,118	8,077
	146	74	36	32	57
	1,376	1,373	2,863	1,165	413

Section 3.—Coasting Trade.

Statistics of the arrivals and departures of the vessels engaged in the coasting trade of Canada, whether on the sea or the Great Lakes and international rivers, are given for the latest five years in Table 57. This statement does not include vessels plying on inland waterways inaccessible to international shipping nor does it include ferry services between one Canadian port and another.

57.—British and Foreign Vessels Employed in the Coasting Trade of Canada, fiscal years ended Mar. 31, 1928-32.

7146	traca ma	. 41, 10,00			
Item.	1928.	1929.	1930.	1931.	1932.
Vessels Arrived—					
British— Steam and motor	83,371	83,714	74,170	71,076	64,743
	40,893,914	43,810,823	39,332,171	43,444,698	41,697,387
	1,777,703	1,656,274	1,552,640	1,567,482	1,416,113
	10,798	10,574	7,364	5,828	4,477
	3,530,357	4,195,107	3,555,731	2,876,756	2,405,395
	56,562	39,975	31,558	25,494	21,205
Foreign— Steam and motor	707	670	596	528	625
	924,691	1,019,911	763,632	796,098	802,634
	15,740	15,765	13,746	12,593	12,690
	105	89	75	75	30
	32,624	20,747	15,332	17,100	7,556
	581	440	309	399	111
Description of vessels— Steam, screw No Steam, paddle " Steam, sternwheel " Motor " Sail, shipe. "	72,904	70,520	61,246	58,083	52,046
	2,994	2,560	2,292	1,750	1,519
	1,557	947	272	176	164
	6,623	10,357	10,956	11,595	11,639
Sail, barks	5,938	5,101	3,204	2,565	1,958
	4,965	5,562	4,235	3,338	2,549
Vessels Departed—		-,	- ,		
British— Steam and motor	83,197	82,680	74, 323	71,058	64,907
	40,008,995	43,076,773	39, 653, 349	43,813,306	42,010,810
	1,763,783	1,741,032	1, 556, 378	1,611,737	1,449,780
	10,530	10,460	7, 195	5,639	4,541
	3,300,910	4,097,105	3, 591, 010	2,896,156	2,416,761
	50,118	40,677	30, 708	24,759	21,847
Foreign— Steam and motor	842	626	600	585	626
	813,315	809,051	808, 220	816,330	875,335
	16,798	15,085	12, 915	14,042	13,900
	145	139	79	72	38
	22,810	24,168	15, 328	14,763	8,993
	422	481	284	310	103
Description of vessels— Steam, screw	72,754	69,474	61,214	58,176	51,979
	2,982	2,589	2,230	1,656	1,502
	1,551	955	823	176	164
	6,752	10,288	11,156	11,635	11,888
Sail, barks	5,703	4,806	2,948	2,368	2,024
Sail, schooners	4,972	5,793	4,326	8,3 4 3	2,555

Section 4.—Grand Total Shipping Trade.

Statistics are given in Table 58 showing sea-going, inland international, coastwise and total vessels entered and cleared at Canadian ports, by provinces, during the fiscal year ended Mar. 31, 1932, and totals for the fiscal years 1923 to 1932. It is noteworthy in this table that the volume of coastwise shipping is the greatest, while sea-going is next in tonnage. In the period from 1923 to 1929,

both sea-going and coastwise shipping showed marked expansion, but in recent years there has been some decline. Inland international shipping, on the other hand, has varied considerably from year to year without showing any definite trend. It is, however, significant of the importance of water-borne traffic on the inland rivers and lakes that the total tonnage of shipping entered and cleared was greater for Ontario than for any other province in the fiscal year ended 1930 and in the latest year, 1932, was only slightly below that of the Pacific Coast province. This was due to the fact that the great bulk of the inland international shipping was through Ontario ports, while there was also a large tonnage of coasting trade through these ports. Quebec came third in total shipping in 1932, followed by Nova Scotia and New Brunswick.

58.—Total Number and Tonnage of All Vessels Entered and Cleared at Canadian Ports, by Provinces, during the fiscal year ended Mar. 31, 1932, with Totals for the fiscal years ended 1923-32.

-				
ILIC.	usive	ot	ferrisa	re.)

		Sea-g	oing.			Coas	twise.	
Province.	Aı	rived.	De	parted,	Ar	rived.	De	parted.
	Ves- sels.	Tons Register.	Ves-	Tons Register.	Ves- sels.	Tons Register.	Ves- sels.	Tons Register
Prince Edward Island. Nova Scotia. New Brunswick. Quebec. Ontario. Manitoba British Columbia. Yakon.	1,445	73,555 5,400,684 1,597,565 5,930,902 - - 14,000,504	4,687 3,889 1,300 4	5,640,351 1,411,699	13,359 3,165 8,909 13,780	1,170,280 9,127,094 14,494,481 15,910,015	13,458 3,269 8,883 13,322 30,132	276,79 3,703,15 1,380,03 9,785,72 13,191,87 16,850,03 124,27
Totals, 1934 Totals, 1929 Totals, 1928 Totals, 1928 Totals, 1924 Totals, 1925 Totals, 1925	23,737 21,583 22,531 23,963 21,382 21,185 29,436 19,261	28, 064, 762 27, 155, 766 27, 164, 158 24, 240, 847 23, 224, 281 22, 837, 720 29, 470, 379	20,869 21,885 22,895 20,627 20,923 21,353 20,420 10,499	26,944,369 28,973,787 22,925,488 22,817,276 29,510,617 18,521,377	77,507 82,286 55,047 94,981 92,222 88,633 87,185 88,035	44,912,972 47,134,652 13,646,866 49,046,638 45,381,586 43,124,919 41,770,480 41,490,372 39,268,712 36,249,941	77,354 82,197 53,965 94,714 99,814 87,878 87,691 84,762	45,311,89 47,519,55 44,667,90 48,007,07 44,144,03 42,617,46 41,117,17 41,139,44 38,096,416 34,739,63
Province.		Inland Int	ernatio	nal.		Tot	als.	
	796 34,393	704 , 626 14, 502 , 629	1,087 34,606	1,052,474 14,819,112		376,462 9,184,333 2,767,845 15,762,622 28,997,110	18,145 7,158 11,270	381,885 9,343,510 2,791,734 15,733,400 28,013,934
Manitoba British Columbia Yukon	60 15	2,535 6,423	60 15	2,535 5,822	38,927 193	29,913,054 130,969	39,275 193	30, 134, 314 130, 0 96
Totaks, 1331 Totaks, 1939 Totaks, 1939 Totaks, 1928 Totaks, 1928 Totaks, 1927. Totaks, 1926 Totaks, 1926	40,663 54,742 37,328 35,073 29,876 26,049 46,412 50,314	17,769,690 17,559,585 18,967,751 16,745,632 14,863,096 14,117,099 17,616,105	49,876 55,600 39,437 35,918 39,626 27,656 47,011 59,758	15, 879, 943 18, 542, 937 18, 895, 972 27, 338, 949 18, 843, 531 16, 319, 794 15, 474, 732 19, 341, 920 19, 901, 925 19, 269, 338	139,907 159,530 154,896 150,957 143,480 135,918 154,633	92, 969, 104 88, 373, 217 95, 498, 497 86, 368, 065 81, 211, 206 78, 725, 299 78, 566, 854 76, 662, 713	139,040 159,682 155,237 151,259 142,363 136,297 154,522	52, 617, 978 88, 800, 343 55, 230, 415 86, 963, 348 81, 862, 749 75, 403, 183 75, 512, 286

The relative volume of shipping in the leading ports of the provinces of Canada is shown in Table 59. Details are given of the sea-going vessels and of the total of all shipping (exclusive of ferriage) arrived and departed at each port. In the fiscal year ended Mar. 31, 1932, the tonnage of sea-going vessels arriving and departing at Vancouver exceeded that at any other port in Canada; Victoria was next, followed by Halifax and Montreal. In total shipping, which included coastwise and inland international as well as sea-going shipping, Vancouver was considerably in the lead, followed by Victoria, Montreal and Halifax.

59.—Number and Tonnage of Sea-going and of All Vessels Entered and Cleared at the Principal Ports of Canada, fiscal year ended Mar. 31, 1832.

Note.—For details of coastwise and inland international shipping at these ports and at all other ports of Canada, see the Shipping Report of the Department of National Revenue for the fiscal year ended Mar. 31, 1932. Figures of total shipping are exclusive of ferriage.

		Sea-going	Vesse	ls		Total Sl	hipping	·.
Province and Port.	Aı	rived.	De	parted.	Arrived.		De	parted.
	Ves- sels.	Tons Register.	Ves- sels.	Tons Register.	Ves-	Tons Register.	Ves- sels.	Tons Register,
Prince Edward Island— Charlottetown	63	5 7, 185	82	83,207	658	263,31 3	655	2 69,370
Nova Scotia— Baddeck Canso. Digby. Halilax Louisburg North Sydney. Parrsboro. Pictou. Port Mulgrave. Sydney Windsor Yarmouth	28 110 12 1,265 45 751 60 3 7 133 112 491	1,217 3,903,009 13,163 309,577 22,722 1,789 4,095	40 723 61 3 5 200 129	8,972 302,701 26,860 906 2,978	1,411 539 3,105 183 1,282 451 458 1,194 965 208	71,770 155,807 643,710 4,708,569 4,5210 516,657 69,101 123,276 129,263 1,221,626 216,687 465,950	479 1,442 547 3,277 185 1,361 458 463 1,194 980 208 1,610	216.816
New Brunswick— Saint John St. Andrews	608 1,232							
Quebeo— Chicoutimi Gaspé Lévis Montreal Port Alfred Quebec Rimouski Sorel Three Rivers.	5 13 4 849 16 431 6 27 58	5,277 3,421,257 47,715 2,140,837 58,783 57,217	1 22 815 24 275 7 66 58	11,168 148,918	124 81 5,538 89 2,320 651 831	34,991 78,845 100,956 7,637,641 301,002 3,984,305 206,983 1,594,960 1,624,756	72 130 81 5,595 91 2,338 648 855 982	101,417 7,660,918 301,132
Ontario— Amherstburg. Belleville Brockville. Cobourg Collingwood Cornwall Depot Harbour Erieau Fort William Goderich Gore Bay Hamilton Kingston Little Current Midland	- - -		111111111111111111111111111111111111111	2,950	868 233 850 482 289 1124 1,309 100 216 2,262 2,262 214	326, 201 179, 618 527, 228 1,512, 912 128, 487 290, 511 241, 751 241, 751 2915, 733 179, 556 74, 953 1, 437, 513 1, 312, 961 133, 189 479, 756	861 232 848 481 77 271 113 1,141 99 215 2459 2459 267 212	526,758

53.—Number and Tonnage of Sea-going and of All Vessels Entered and Cleared at the Principal Ports of Canada, fiscal year ended Mar. 31, 1932—concluded.

		Sea-going	Vesse	ls.	Total Shipping.				
Province and Port.	Aı	rrived.	De	parted.	Aı	rived.	De	parted.	
	Ves- sels.	Tons Register	Ves- sels.	Tons Register.	Ves- seis.	Tons Register.	Ves- sels.	Tons Registe:	
	٠.				l				
Intario -concluded.	l	l .	l ,	!					
Niagara Falls Owen Sound	1 -	-	-	-	1,589				
Port Arthur	-		_	-	376	302,173	374	310,4	
				-	1,135	2,770,319		3,088,3	
Port Colborne	-	! -	-	-	1,088	1,796,677	1,066	1,730,9	
Port McNicoll	l <u>-</u>	-	-	_	299	187,753	241	186,8	
	ı –	- I	-	-	183	466,801	185	471.7	
Port Stanley] [<u>-</u>	_	_	171	190,384	166	188,1	
Sandwich	-	-			706	706,348	704	678,3	
	_ '	1 -		-	191	225,019	193	228,2	
Sarnia Sault Ste. Marie	_ ;	-	-		18,071	3,376,748		3,390,9	
Thorold	_ I	-	-	-	1,822	1,934,976		1,768,9	
Toronto] -	-	-	151	212,647	149	206,8	
Walkerville	_	-	-	_	2,635	2,558,454	2,622	2,537,2	
Wallaceburg	_	i -	-	_	420	176,822		176.0	
Welland	_		-	_	181	123,127	178	122,0	
Windsor	_	-	-	-	125	147,633	72	89.2	
w likesor	-	l -	-	-	512	1,169,970	506	1,167,30	
ritish Columbia—								•	
Alert Bay	329	10,124	369	9.964	1.281	540, 229	1.317	545.5	
Anyox	10	72	30	29,565	462	311.018	466	311.0	
Bamfield	34	1.646	26	1,529	546	112.387	537	114.3	
Britannia Beach	97	231.276	100	241,391	611	366, 783	606	368.0	
Butedale	58	1,532	58	1.533	518	138, 468	516	133.4	
Chemainus	260	405,566	266	403, 595	696	509.923	699	506.9	
Ladysmith	61	46,491	53	36.830	894	405,493	899	408.2	
Nanaimo	226	254,023	269	266.638		1.370.144	2.554	1.364.9	
New Westminster	332	1,054,008	321	1,048,764		1,476,439	1.830	1.468.5	
Ocean Falls	61	119.843	71	153.543	958	719, 291	958	719.9	
Port Alberni	114	365,945	116	366,098	494	477.742	490	474.8	
Powell River	177	282,592	176	299,892		1,170,991		1.180.9	
Prince Rupert	1.941	272,723	1.900	251.376		913.604		904.3	
Quatsino	73	54,471	87	75.692	367	167, 906	357	166.1	
Stewart	6	2,528	15	16,923		283,147	267	284.6	
Sidney	446		411	131,685	691	222.804		223.0	
Union Bay	127	189,616	121	183,537	791	421.162	791	424.0	
Vancouver	2,268	8.017.499	2.063	5.683.980		11.809,539		11 924 1	
Victoria	2,228	4,493,434	2,099	3,989,828	5,315	8,256,399		8,359,78	
	_,	','','	_, ~~ ,	-,0,020	-,***	4,24,000	2,000	4,000,11	

Section 5.—Shipping Constructed and on the Registry.

The shipbuilding industry in Canada dates from the earliest settlement of the country, and up till the 1870's was one of the leading industries of Quebec and of the Maritime Provinces, 490 vessels with a total tonnage of 183,010 being constructed in the calendar year 1874. At that time, however, the advent of the steel ship rendered the wooden vessels, the material for which was so abundant in Canada, obsolete, with the result that the tonnage built has never again reached the above figure, though in the fiscal years 1919 and 1920 the construction of the Canadian Government Merchant Marine, built as an extraordinary measure arising out of the War, raised the totals constructed to 104,444 and 164,074 tons respectively. Statistics of ships built and registered in Canada or sold to other countries are given in Table 60. For further information on the shipbuilding industry, see Table 7 of the chapter on Manufactures, pp. 428-429.

69.—Vessels Built and Registered in Canada and Vessels Sold to Other Countries, fiscal years ended Mar. 31, 1911-32.

Noze.—For 1874-1900, see Canada Year Book, 1911, p. 383, and for 1901-10, see 1932 Year Book, p. 597. Statistics are from the Shipping Reports of the Department of National Revenue.

Fiscal Year.		Built.	Re	gistered.	Sol	d to Other C	ountries.
riscai lear.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	Value.
911	247	22,812	234	50,006	17	5,885	201,526
912	826	81,065	302	30,021	18	4,265	140,350
913,	324	24,325	328	30,225	20	7,976	610,650
914	289	46,887	230	46,909	27	8,258	169,618
915	224	45,721	237	55,384	21	17,044	1,150,950
916	167	13,497	325	102,239	21	4,529	192,575
917	184	28,638	334	105.826	47	24.954	4,398,570
918.,,,,	216	53,912	336	70,350	63	25,252	5,330,850
919	277	104.444	327	102,883	85	48,965	14,612,338
920	352	164,074	459	237,022	68	53,407	17,819,477
921	220	95,838	323	188.915	69	34,623	8,456,573
922	143	78,409	228	131,732	35	25,462	3,399,450
923	154	14.868	274	57,446	18	26,394	1,009,327
924	160	20,336	194	74,811	21	17,076	605,211
925	232	36,147	198	48,054	28	21,689	717,730
926	247	39.840	218	88.380	27	24,673	1.413,150
927	341	32,801	281	79.448	32	27,027	1,984,040
928		12,904	417	64,301	31	16.397	599,490
929		49,798	386	155,972	80	18,627	154,750
930	282	28,871	468	84,529	34	33,779	80 5,636
931	294	45,162	396	129,088	22	8,865	421,500
932,		19,032	319	64,396	23	18.849	889.22

The numbers and net tonnages of the vessels on the registry of Canada, as at the end of each of the calendar years from 1923 to 1932, are given by provinces in Table 61. In 1932 there were 8,895 vessels with a tonnage of 1,475,128.

61.—Number and Net Tonnage of Vessels on the Registry of Shipping of Canada, by Provinces, Dec. 31, 1923-32.

Nors.—The figures in this table are supplied by the courtesy of the Department of Marine.

D	1	1923.		1924.	;	1925.	:	1926.	:	1927.	
Province.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	No.	Tonnage.	
P.E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Yukon	138 1,505 873 1,298 1,677 93 6 2,101	9,600 140,641 38,798 443,177 317,850 10,207 486 268,489 1,632	1,305 1,649 93- 6	10,207 486	1,475 818 1,341 1,667 93 6 2,373	8,997 135,761 33,318 438,253 326,571 10,207 486 327,524 1,916	1,452 816 1,369 1,702 94 6 2,618	33,062 447,889 387,036 10,321 486	1,412 829 1,368 1,724 96 6 2,872	33,077 456,092 397,987 10,661 486	
Totals	7,694	1,230,880	7,689	1,221,020	7,913	1,283,033	8,193	1,348,935	8,454	1,368,000	
	1	1928.	:	1929.	1930.			1981.	1932.		
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Yukon	132 1,436 828 1,373 1,746 98 6 3,012	8,549 126,428 33,395 502,224 367,007 10,684 486 313,651 3,650	6 3,257	8,370 127,980 34,031 506,594 347,531 11,051 486 335,810 4,543	1,478 919 1,262 1,775 105 6 3,203	119,055 38,350 495,017 392,708 11,185 486	1,434 983 1,277 1,771 110 6	112,891 39,766 506,787 378,925 11,461 486	134 1,400 983 1,321 1,761 112 6 3,161		
Tetals	8, 645	1,366,074	8,899	1,375,493	8,895	1,432,064	8,905	1,427,648	8,895	1,475,128	

Section 6.—The Department of Marine.1

Administration of the general shipping interests of Canada is in the hands of the Dominion Department of Marine. It deals with: (1) administration of the Canada Shipping Act and other Acts of the Dominion Government relating to marine transportation; (2) pilotage; (3) the construction and maintenance of lighthouses, lightships, fog alarms, buoys and beacons; (4) ports, harbours, piers, wharves and breakwaters; (5) the Meteorological Service of Canada; (6) relief of distressed seamen; (7) hydrographic, tidal and current surveys; (8) inquiries into the causes of shipwrecks and casualties, and the collection of wreck statistics; (9) life-saving service; (10) the inspection of steamboats; (11) the construction and maintenance of the St. Lawrence River ship channel; (12) marine signal service; (13) ice breaking and (14) the administration of Government radiotelegraph stations and the supervision of private stations in Canada. The net revenue of the Department for the fiscal year ended Mar. 31, 1932, was \$871,529, and the expenditure for the same period was \$25,056,916.

A summary statement of the revenue and expenditure of the Department of Marine is given for each fiscal year since Confederation in Table 62, while details for the six years from 1927 to 1932 are presented in Tables 63 and 64.

42.--Total Bevenues and Expenditures of the Department of Marine, fiscal years ended June 30, 1868-1996, and Mar. 31, 1997-32.

Fiscal Year.	Revenue.	Expendi- ture.	Fiscal Year.	Revenue.	Expendi- ture.	Fiscal Year.	Revenue.	Expendi- ture.	
	\$	\$		\$	\$		\$	\$	
1868	75,351 71,490 70,254	371,071 360,900 367,189 389,537 518,958	1890 1891 1892 1893	115,507 104,248 106,582 107,390 165,870	807,417 885,410 861,427 898,720 905,654	1912 1913 1914 1915	185,579 185,725 217,034 795,550 ² 461,457	4,911,141 5,213,223 5,828,027 6,202,908 5,621,611	
1873 1874 1875 1876	114,756 108,350 91,235 107,984	706, 818 845, 151 844, 586 970, 146 820, 054	1895 1896 1897 1698 1899	99,557 103,012 111,009 120,602 126,528	895,828 793,634 867,773 856,192 1,102,602	1917 1918 1919 1920	228,812 396,779	4,768,784 4,361,498 4,459,165 38,301,080 26,038,902	
1878 1879 1880 1881	91,942	786, 156 755, 359 723, 391 761, 731 774, 832	1900	130,229 144,919 148,607 139,876 128,507	982,562 1,029,925 1,501,619 1,671,495 2,150,940	1922 1923 1924 1925 1926		20,419,883 13,156,182 13,160,680 13,636,145 16,776,939	
1883 1884 1885 1886	118,080 101,268 91,885	825,011 927,242 1,129,901 980,121 917,557	1905 1906 1907 1908 1909	139,475 106,260	4,747,723 5,066,253 3,637,600 5,374,774 5,498,531	1927. 1928. 1929. 1930.	615,089 671,224	10,270,674 15,368,692 18,167,190 23,508,502 27,486,719	
1688	99,920 99,940	883,251 1,023,801	1910 1911	156,957 154,492	4,692,771 4,197,420	1932	871,529	25,056,916	

Nine months. The increase in expenditure in 1920 and later years was due to the shipbuilding program and to loans to harbour commissions. Includes \$493,000 from sale of steamer Earl Grey to the Russian Government.

¹Revised by F. McVeigh, Assistant Deputy Minister, Department of Marine.

63.—Revenue of the Department of Marine, by Sources, fiscal years ended Mar. 31, 1927-32.

Source of Revenue.	1927.	1928.	1929.	1980.	1931.	1932.
	*	\$	\$	*	\$	ş
Harbours, piers and wharves	117,077	57,803	45,878	53,28!	54,668	78,674
Earnings of Dominion steamers	11,875 135,131	5,909 127,852	136, 982	376 131,356	$\frac{20}{144.332}$	113.231
Examination, masters and mates	4.281	5,002	5, 181	5.126	4,733	3,381
Casual revenue, sundries	80,724	98,659	121,990	104,860	94,323	89,691
Radio revenue	69,539	64,219	81,760	90,728	75, 753	50,700
Fines and forfeitures	2,924	4,225	3,728	5,228	1,119	953
Wireless amateur licence fees	206, 243	249,693	271,526	407,762	468,093	528,942
Wireless operators' examination fees	427	480	361	421	605	810
Miscellaneous	1,205	1,247	1,288	2,067	1,427	1,258
Capital account	335	- 1	2,585	9,325	135,988	3,838
Totals	629,761	615,089	671,224	810,530	981,061	871,525

64.—Expenditure of the Department of Marine, fiscal years ended Mar. 31, 1927-32.

Item of Expenditure.	1927.	1928.	1929.	1930.	1931.	1932.
	\$	\$	\$	\$	\$	\$
Ocean and River Service	F 000	5,749	4,921	4 754	5,979	4.874
Investigation into wrecks	5,832 2,163	2.573	2, 162	4,754 2,402		1.882
Removal of obstructions	95,443	1,771	1.095	223	3,498	297
Life-saving service	62,668	62, 919	53,380	60,478	55, 030	57,535
Dominion steamers and icebreakers	1,497,106		1.954,580			
Schools of navigation	7.752	7,288	7.816		7,320	7,620
Cattle inspection	4,000	3,709	3.644	3,671	3,654	3,839
Wrecking plants (subsidy)	35,000	45,000		45,000	70,000	70,000
Hudson Bay patrol		1,021,513	289,464	12,989		- -
Examination, masters and mates	18,930	19,303	20,000	20,461	21,615	20,115
Hydrographic survey	266,480	310,699	386,789	508,246	565,722	494,051
New steamer for hydro survey	400 004	475 004	TOE 004	000 400	4,357	514,259
Radio telegraph	439,804	475, 204	735,004	829,499 225,265	764,633 221,656	649,356 216,906
Radio reception	111,782	154,543	166,776	20,603	221,000	210,500
Three new steamers				173.000		_
Icebreaker, Hudson bay			_	791,299		31,985
Icebreaker, St. Lawrence river	_	_ '	_	747,028	12,103	
Other items of expenditure	33,848	13,833	12,675	25,741	10,879	52, 259
Totals	2,580,808	3,749,105	3,683,256	5,125,332	3,637,101	3,630,828
						
Lighthouse and Coast Service—						200 242
Agencies and contingencies		210,048	223,280			225,016
Administration of pilotage	82,624	121,744	141,657	118,099	111,099 733,976	158,080 732,619
Salaries and allowances to lightkeepers	674,581	676,080	718,777	733,977	199,910	102,019
Maintenance and repairs to lighthouses,	830,772	893, 182	889,223	915, 978	953,890	932,698
Construction of lighthouses, etc	511.402	597,633	683.012	684,482		374.249
Breaking of ice	30.000	30,000	30,000	58.000	44,000	
Signal service	99.765	102.938	109,994			
New steamer	_	94.968				· -
Other items of expenditure	24, 179	20,167	16,957	25,719	49,637	22,220
Totals	2,465,958	2,746,761	2,812,900	2,871,266	3,391,526	2,594,356
Dublic Wouler abaneable to Control						
Public Works, chargeable to Capital— Ship channel, river St. Lawrence	1.605,049	1 091 009	1,894,912	2,753,019	3,462,951	4,242,538
Salvage of seew 27	1,000,049	1,301,303	1,077,312	2,700,019	0,402,801	13,000
Sorel shipyard	151,316	95,562	162.019	1	i	1
Allowances	131,310	- 00,002	6,625	2.438		_
	I _	- I	-, 320	405,589	397,410	283,751
St. Lawrence River dams				,	470	•
St. Lawrence River dams Provisions for Dredge 8		-	- 1	-	1,476	
St. Lawrence River dams	-		-	- 101 646	3,861,837	4,539,289

¹ Included with "Ship channel, river St. Lawrence" for 1980-32.

64.—Expenditure of the Department of Marine, fiscal years ended Mar. 31, 1927-32—concluded.

Item of Expenditure.	1927.	1928.	1929.	193 0.	1931.	1932.
Scientific Institutions—	3		\$	*	-\$	\$
Meteorological Service— Totals	243, 283	270,276	287,948	316, 707	367,622	401,592
Steamboat inspection	121,961	131.065				
Departmental salaries	385,700	382, 293 53, 426	392.453 54.798			
Contingencies	44,530	102,659	34,190	55,205	69,814	01,020
Gratuities	6, 118	6, 487	2,634	4.842	4,461	4,214
Investigation Halifar Harbour Board		-,	-,:-	-,,,-	-,	7,654
Montreal Harbour Commission	1,035,000					
Quebec Harbour Commission,	903,000	2,160,000	2,888,000			1,379,000
Vancouver Harbour Commission	728,000	1,564,000				
Halifax Harbour Commission	-	-	30,000			
Chicogtimi Harbour Commission	-	-	500,000			
Saint John Harbour Commission Three Rivers Harbour Commission	-	-	602,000			
New Westminster Harbour Commission.	! []	- 1	_	136,000	1,543,600	
Miscellaneous and unforeseen		5, 156	2,200	-	1,235	189,140 960
Grand Totals	10,270,674	15.268.693	18, 167, 198	22.548.502	27, 494, 724	25.056.016

Steamboat Inspection.—The Steamboat Inspection Service of Canada, maintained under the authority of the Department of Marine, comprises the Board of Steamboat Inspection, together with staffs of inspectors at the principal ocean and inland ports. The Board decides on the standards required of all vessels coming under its jurisdiction. These must be attained by all ships given official warrant as to their seaworthiness and mechanical condition. Further, the Board grants certificates of competency to engineers of steamboats.

A table showing the number and tonnage of steamboats inspected during the fiscal year ended Mar. 31, 1932, follows:—

65.—Steamboat Inspection, fiscal year ended Mar. 31, 1832.

		Vessels I	spected.				
Division.	tered	els Regis- or Owned Dominion,	tered	els Regis- or Owned ewhere.	Vessels not Inspected.		
	No.	gross tonnage.	No.	gross tonnage.	No.	gross tonnage.	
Halifar	120	103,366	16	62,868	14	65,836	
Saint John	58	35,382	2	7,652	48	27,540	
Quebec	78	55,326	-	-	. 8	2,696	
Sorel	106 140	56,223 120,053	9	40.070	21 61	3,548	
Montreal	121	146,516	4	19,272 190	i "1	11,882	
Toronto	191	289, 250	40	58.644	22	24,321	
Midland	80 1	62,773	2	54	25	12,805	
Collingwood	78	18,841	- 1	-	32	8.978	
Port Arthur	76	56,613	- 1		77	8,112	
Vancouver	226	135,978	.8	68,432	. 103	62,361	
Victoria	60	61,116	11	44,007	33	27, 154	
Totals	1,334	1,141,457	92	261,113	. 444	255,233	

65.—Steamboat Inspection, fiscal year ended Mar. 31, 1932—concluded.

Division.	to Ir	ls Subject espection hen in mission.	to the	ls Added Dominion gister.	Vessels Lost, Broken Up or Destroyed.	
	No.	gross tonnage.	No.	gross tonnage.	No.	gross tonnage.
Halifax	150	232,090	2	4,569	2	56
aint John	108	70,574		-	2	1,44
¿uebeo	86	58,022	1 1	5,889	7.1	
forel	127 210	59,771 151,207	8	437 3,447	3	\$,12 12
Cingston	125	146,706	2	1.931	<u> </u>	12
oronto	253	372.215	ร์	8.906	ь (19
fidland	107	75,632	ř	462	3	Ē
lollingwood	110	27,819	4	71	6	90
ort Arthur	153	64,725	6	155	_1	!
ancouver	337	266,771	5	7,665	13	2,33
/ictoria	104	132,277	-	~_		
Totals	1,870	1,657,809	38	33,532	39	10.70

Fees collected during the year on account of inspections totalled \$111,869 and those on account of examinations of engineers amounted to \$1,362, giving a combined total revenue of \$113,231 collected by inspectors.

Seamen Shipped and Discharged.—Table 66 shows, for each year from 1908 to 1931, the number of seamen shipped and discharged at Canadian ports under the provisions of the Canada Shipping Act (R.S.C., 1927, c. 186).

66.—Number of Seamen Shipped and Discharged at Canadlan Ports, calendar years 1985-31.

Year.	Seamen Shipped.	Seamen Discharged.	Year.	Seamen Shipped.	Seamen Discharged.
1908	18,013	11,542	1920	22,569	19,719
1909	20,502	11,573	1921	18,444	17,103
1910	16,735	11,069	1922	25,689	24,558
1911	13,748	11,301	1923	31,407	30,195
1912	13,708	11,290	1924	30,687	29,018
1913	16,975	13,749	1925	31,772	28,472
1914	18,987		1926	31,869	27,413
1915	22,797		1927	28,137	25,863
1916	20,902		1928	28,748	25,768
1917	16,998	14,145	1929	31,374	29,483
1918	16,516	12,930	1980	26,983	25,670
1919	18,208	13,649	1931	24,891	24,289

Wrecks and Casualties.—The statement in Table 67, supplied by the Department of Marine, applies to vessels of every nationality in respect of wrecks and casualties in Canadian waters, and to Canadian vessels in respect of wrecks and casualties in other waters. The returns in some years cover wrecks and casualties of previous years. Statistics of marine danger signals appear in Table 68.

67.—Canadian Wreeks and Casualties, years ended June 30, 1901-17, and calendar years 1918-21.

Year.	Cas- ual- ties.	Net Tounage.	Lives Lost.	Stated Damages.	Year.	Cas- ual- ties.	Net Tonnage.	Lives Lost.	Stated Damages.
	No.	tons.	No.	\$		No.	tons.	No.	\$
1901	136	47, 181	126	285,782	1917	239	715,384	152	4,850,145
1902	222	105,814	132	835,916	1918	226	312,928	4029	1,818,89
1903	237	162,297	32	409,991	1919	240	205,720	100	1,808,690
1904	192	81,143	9	489,699	1920	227	222,928	28	1,643,828
1905	178	79,588	15	621,267	1921	260	588,503	38	1,809,328
1906	220	139,586	149	573,420	1922	277	601,423	27	451,312
1907	817	131,441	55	672,466	1923	876	480,713	50	3,184,749
1908	307	120,269	34	1,390,891	1924	224	215,470	54	4,355,217
1909	343	189,906	24	1,131,966	1925	298	305,798	53	3,317,020
1910	321	211,565	101	1,569,580	1926	309	293,310	91	4,630,267
1911,	271	122,619	48	942,093	1927	434	566,011	128	6,879,825
1912	293	269,569	59	1,053,768	1928	501	558,251	64	5,418,236
1913	275	270,905	160	1,963,870	1929	451	459,394	12	4,740,620
1914	255	210,368	1,0831	4,983,775	1930	551	447,169	66	3,077,009
1915	280	214,036	70	1,459,012	1931	477	404, 157	7	2,696,019
1916	308	242,996	67	1,377,442					

¹Includes 1,042 lives lost in the *Empress of Ireland* disaster. ²Excluding damage to cargo estimated at \$4,310,350. ³Includes 328 lives lost in the *Princess Sophic* disaster.

68.—Comparative Statement of Marine Danger Signals, fiscal years ended Mar. 31, 1921-32.

Note.—Besides the following, there were, in 1932, 49 lighted spar-buoys, floats and delphins; 5,618 unlighted buoys; 846 unlighted tripods, floats, delphins, spindles and beacons; and 2,678 stakes, bushes and baliess.

Description.	1921.	1922.	1923.	1924.	1923.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
LightsLightships	1,598	1,602	1,596 9	1,627 10	1,654 10	1,675 10		1,771	1,815 11	1,855 11	1,912	1,923
Lightkeepers	1,130	1, 118			1,134	1,143						1,230
SirensDisphones	1 134	1 135	1 138	1 140	146	1 146	2 147	153	2 158	2 162	2 165	170
Fog bells	33 148	35 148	36 148	35 147	35 149	36	35 148	36 151	38 147	38 151		38 153
Hand fog bells	4	4	4	4	14	4	5	4	4	4	4	130
buoys	343 30	345 29	349 30	359 30	374 32	374 34	380 36	401 38	411 40	425 40	429 40	436 42
Beil buoysSubmarine bells	90	9ò 7	92	9š	98	99	101	104	111	119	119	119
Fog guns and bombs	11 7	7 1	-	7	6	ě	6	6		5	3	5
Fog alarm stations only.	13	13	12	12	13	13	13	13	13	13	13	13

Section 7.—Merchant Marine Services Operated by the Canadian Government.¹

The War had far-reaching effects upon the merchant shipping of the world. The losses from submarines, the demands for naval auxiliary and transport services, and the abnormally large quantities of material to be carried overseas for both war purposes and the support of the civilian populations of Europe, all combined to create pressing demands for merchant shipping. In the latter part of the War, when submarine operations were intensified, the supply of merchant tonnage became a source of serious anxiety to the Allies and every effort was made not only to economise the shipping then affoat but to increase the supply by new building. It was under these circumstances that the Dominion Government placed orders with Canadian shipbuilding firms for the construction of 63 steel cargo vessels of six different types. These vessels were intended primarily to co-operate with British shipping in supplying the necessities of war, but, though the War ended before the ships were all built, the construction program was continued to provide employment and, in view of the losses of the War, to assure sufficient shipping as a complement to the National Railways and as a means of carrying abroad the products of Canada's farms, forests, mines and factories.

Shipping construction at that time was very costly and this abnormally high first cost has been a serious handicap to the economical operation of the ships ever since. Prior to Dec. 31, 1919, 19 vessels had been delivered by the builders. Additions were subsequently made to the fleet until the total fleet, as at Dec. 31, 1924, numbered 57 vessels of a total deadweight tonnage of 353,450. Through sale and the loss of three vessels the fleet was reduced to 29 vessels with a deadweight tonnage of 234,595 at Dec. 31, 1931. Early operations proved profitable: a surplus of \$1,056,767 was shown for the year ended Dec. 31, 1919 and a surplus of \$1,293,525 for the year ended Dec. 31, 1920 (without provision for interest charges). Subsequent years, however, have shown the effects of the depression in the shipping industry, and annual deficits of \$8,047,635, \$9,649,479, \$9,368,670, \$8,836,609, \$7,667,513, \$6,687,221, \$7,086,940, \$7,545,525, \$5,928,758, \$5,844,757 and \$5,405,414 are shown for the years 1921 to 1931 respectively. These figures include interest and depreciation assessed on the original high cost of the yessels.

In conformity with the Canada-West Indies Trade Agreement Act of 1926 (16-17 Geo. V, c. 16), the Dominion Government has provided direct steamship services to the West Indies through the medium of Canadian National (West Indies) Steamships, Ltd. The service is provided by a fleet of twelve vessels of a total deadweight tonnage of 60,592. Five of these boats, known as the "Lady" ships, were specially constructed for passenger service on this route, while the remaining seven vessels previously formed part of the Canadian Government Merchant Marine fleet, and were taken over by the Canadian National (West Indies) Steamships, Ltd., for operating purposes, under entrusting agreements with the respective companies which owned the ships. The investment in vessels at Dec. 31, 1931, amounted to \$9,848,167, mainly made up of the construction cost of the "Lady" ships and the present day valuation of the other seven ships, together with the cost of conversion for use in the West Indies service of three of the latter. The financial results of the operations of the Canadian National (West Indies) Steamships, Ltd., have been as follows:-

¹ Revised under the direction of Geo. W. Yates, Assistant Deputy Minister, Department of Railways and Canals, by A. H. Allan, General Manager, Canadian National Steamships, Montreal.

Calendar Year.	Operating Revenues. Operating Revenues. Expenses. Net Operating Loss.			Depreciation.	Interest.	Book Loss	
- · ·-	\$	\$	•	*	\$	*	
1929. 1930. 1931.	3,332,683 3,792,694 3,648,986	3,780,524 4,315,831 4,095,555	447,841 523,137 446,569	227,315 288,999 294,141	442,739 550,519 604,651	1,117,895 1,362,655 1,345,361	

PART X.—TELEGRAPHS.1

The Toronto, Hamilton and Niagara Electro-Magnetic Telegraph Co., organized by a group of Toronto men, was the first to establish an electric telegraph service in the pre-Confederation province of Canada. It was formally organized on Oct. 22, 1846, and its Toronto-Hamilton line was opened on Dec. 19 of the same year. In January, 1847, the line was completed to Queenston, whence there was a connecting line to Buffalo. The Montreal Telegraph Co. commenced the construction of a line to Toronto in February, 1847, and began actual operation between the two cities on Aug. 3 of the same year. By the end of the year it had 540 miles of wire in use, 9 offices and 35 employees, and had sent out 33,000 messages. Both the Montreal and the Toronto companies were incorporated by special Acts at the 1847 session of the Legislature. In 1852 the Toronto, Hamilton and Niagara Co. sold out to the Montreal company.

The British North American Electrical Association was also formed in 1847, with the object of connecting Quebec with the Maritime Provinces, but for some years its line went no further than Rivière du Loup, though it was finally extended to Woodstock, N.B., where it connected with the American Telegraph Co., which already had lines in New Brunswick. The New Brunswick Telegraph Co. built a line connecting Saint John with the Maine Lines in 1848, and in the following year extended it to Amherst, N.S., where it connected with the Nova Scotia line, bringing Halifax for the first time into telegraphic communication with New York.

The movement for consolidation of services, so evident in the Canadian railways, was also active among the telegraph companies. Thus the Montreal company bought out the Toronto, Hamilton and Niagara Telegraph Co., the Montreal and Bytown Telegraph Co. and the Grand Trunk Telegraph Co., and maintained a strenuous competition with the Dominion Telegraph Co., organized in 1868. In 1881, however, the conflicting interests were consolidated under lease by the Great North Western Telegraph Co., this move effecting great economies in operation. A few years later, however, the Canadian Pacific Railway Co. established competing lines and by September, 1886, had opened 366 offices in Ontario, Quebec and Western Canada.

The Dominion Government Telegraph Service was commenced with the object of furnishing rapid communication in outlying districts where the amount of business was so small that commercial companies would not enter the field, but where the public interests required that there should be communication. Its services are especially useful in connection with the signal and other stations established by the Department of Marine along the north shore of the Gulf of St. Lawrence, and in the Maritime Provinces and British Columbia. On Mar. 31, 1932, the Government Telegraph Service comprised 9,077\(^2\) miles of pole line, 11,118\(^1\) miles of wire, 367\(^3\) knots of cable and 731 offices. Details will be found in the Annual Report of the Minister of Public Works.

¹ Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics, which issues an annual report dealing with telegraph statistics.

Telegraph Systems.—The Canadian telegraph systems are composed of lines owned by the Dominion Government and by chartered railway and telegraph companies. The lines previously owned by the Great North Western Telegraph Co., the Grand Trunk Pacific Telegraph Co., the Canadian Northern Railway Co. and the National Transcontinental Railway are now owned by the Government and are operated by the Canadian National Telegraph Co. (formerly Great North Western Telegraph Co.). The Dominion Government Telegraph Service operates the line to Yukon and other lines in outlying districts.

The Canadian system, in proportion to population, is one of the most extensive in the world, and is operated under considerable climatic and geographic disadvantages. In the operation of railways and in the receipt and dispatch of market and press reports, its services to the nation are invaluable.

Telegraph Statistics.—A brief summary table giving the more important figures of the operation of Canadian telegraphs from 1920 to 1931 follows. For details see the Bureau of Statistics' Annual Report on Telegraph Statistics.

69 .- Summary Statistics of All Canadian Telegraphs for the calendar years 1920-31.

Year.	Gross Revenue	Operating Expenses.	Net Operating Revenue.	Pole Line Mileage.	Wire Mileage.	Em- ployees.	Offices.	Messages, Land.	Cable- grams.3	Money Trans- ferred,
	\$	\$	\$	miles.	miles.	No.	Νo.	No.	No.	\$
1920	11,337,428	9,589,982	1,747,446	52,393	238,866	7,508	4,825	15,589,711	1,162,204	7,045,661
1921	11,310,989	9,734,299	1,576,690	52,828	250,802	7,818	4,901	15,013,993	1,154,787	5,150,916
1922	11,018,762	9,846,425	1,172,337	53,096	262,348	8,500	4,762	15,271,410	4,736,204	4,404,407
1923	11,417,284	9,931,815	1,485,439	53,383	270,782	8,275	4,961	16, 150, 106	5,055,115	5,326,352
1924	10,930,020	9,603,620	1,326,400	54,742	268,632	8,909	4,945	15,460,811	5,790,582	6,428,080
1925	11,520,322	9,681,200	1,839,122	51,726	284,121	7,2242	4,664	14,460,988	6,104,025	6,680,595
1926	12,143,388	10,166,040	1,977,348	52,6121	305,933	6,7552	4,801	14.934,683	6,421,673	7,790,127
1927	12,990,549	10,600,412	2,390,137	52,7311	823,539	7,8382	4,885	15,564,067	6,664,771	9,241,864
1928	14,740,641	11,647,063	3,093,578	53,7771	337,971	7,6392	4,909	16,857,220	6,861,195	9,776,090
1929	16, 256, 441	12,590,364	3,666,077	52,8351	360,883	8,056²	4,766	18,029,973	5,210,926	11,295,857
1930	14, 264, 997	11,791,291	2,473,706	52,8241	371,747	7,3312	4,681	15,558.224	6,745,220	10,213,475
1931	11,641,729	10,720,949	920,780	53,2281	368,583	6,6372	4,474	18, 200, 198	6,097,713	7,475,928
	·	<u> </u>	1	<u> </u>	!	I <u></u>	<u> </u>	<u> </u>	·	<u> </u>

¹Excluding U.S. lines of Canadian National Telegraphs. ²Excluding railway employees. ²Including transatiantic cablegrams relayed between Canso, N.S., and the United States.

Table 70 gives figures of telegraph operation and line and wire mileage of various companies for the years 1926 to 1931. Statistics of the Halifax and Bermudas Cable Co., the Canadian Marconi Wireless Telegraph Co. and the Pacific Cable Board are not included.

70.—Statistics of Chartered Telegraph Companies for the calendar years 1926-31.

Сопрану.	Yrs.	Miles of Line.	Miles of Wire.	Number of Messages.	Number of Offices.3
Canadian National Telegraph Co.4	1926	23,031	129,042	7,538,301	I, 922
	1927	23,049	136,143	7,875,550	1, 941
	1928	23,412	141,523	8,238,893	1, 943
	1929	24,565	166,121	9,488,208	2, 135
	1930	24,828	169,163	8,570,571	2, 130
	1931	24,627	166,594	7,274,795	2, 092
Canadian Pacific Railway Co	1926	15,686	141,924	5,863,5682	1,510
	1927	15,775	151,329	6,072,4592	1,566
	1928	16,429	160,287	6 858,5972	1,638
	1929	16,794	167,664	7,259,2052	1,642
	1930	16,919	172,210	6,216,4912	1,639
	1931	17,522	175,568	5,266,0942	1,535
Western Union	1926 1927 1928 1929 1930 1931	2,751 2,721 2,721 1,178 1,177 1,186	18,493 18,179 18,129 10,910 10,991 11,015	779, 188 832, 312 881, 245 414, 506	207 202 194 6
Temiskaming and Northern Ont. Ry. Commission	1926	422	2,009	130,770	36
	1927	449	3,270	135,613	37
	1928	450	3,288	153,842	38
	1929	450	3,288	128,852	38
	1930	549	3,513	116,984	41
	1931	593	3,285	117,990	38
The North American Telegraph Co., Ltd	1926 1927 1928 1929 1930 1931	-	445 445 445 445 445 445	76,826 78,531 84,427 87,514 78,682 69,067	19 19 18 18 18
Dominion Government Telegraph Service	1926	10,722	14,020	522,796	1,066
	1927	10,737	14,173	536,842	1,082
	1928	10,765	14,299	535,605	1,040
	1929	9,848	12,455	537,080	895
	1930	9,351	11,399	495,562	796
	1931	9,300	11.666	411,806	756

¹Cablegrams not included. The total in Table 69 includes messages handled by the Marconi Wireless Telegraph Co.

²Not including press messages.

³The total in Table 69 includes offices of wireless and cable companies.

⁴Statistics of the Grand Trunk Pacific Telegraph Company have been included with the Canadian National up to 1927; the two were amalgamated in 1928.

⁵Included with Canadian National.

Submarine Cables.—Six transoceanic cables have termini in Canada—five of them on the Atlantic coast and one on the Pacific. The year in which the cable was first demonstrated to be of commercial value was 1866, and up to the present its use has greatly increased. The Atlantic cables are controlled by English and United States' interests. The Pacific cable, from Canada to Australia and New Zealand, has been in operation since 1902, and was owned by a partnership of the Governments of Great Britain, New Zealand, Australia and Canada. As a result of the recommendation of the Imperial Wireless and Cable Conference of 1928, in view of increased wireless competition, it was decided to dispose of the Pacific and West Indian Islands cable systems to the Imperial and International Communication Co., a company formed to take over all Empire-owned cables and lease the Empire-owned beam wireless systems. The necessary legislation was passed by Great Britain in February, 1929, and by Canada in June, 1929.

PART XI.—TELEPHONES.1

The telephone is in part a Canadian invention, though its inventor, Alexander Graham Bell, a Scotsman by birth, was at the time of its invention a resident of the United States, having immigrated with his father to Brantford, Ontario, in 1870, and subsequently proceeded to Boston. According to his account, the discovery of the telephone, both as to its main principle and as to the first transmission of the human voice, was made at his father's residence at Tutela Heights, Brantford, in 1876, and the first telephone talk over any distance was conducted between Brantford and Paris, a distance of 8 miles, on Aug. 10, 1876.

Telephone development in Canada dates from the year 1880, when the Bell Telephone Co. was incorporated by Act of Parliament. Although at this time all patents and lines were owned by the Canadian Telephone Co., this was dependent on the Bell Co., to which it sold out in 1882. By 1883 the first submarine telephone cable had been laid between Windsor and Detroit, and during the year the Bell Co. operated in Canada 4,400 rental-earning telephones, 44 exchanges and 40 agencies, with 600 miles of long-distance wire. It controlled development in all the provinces except British Columbia, where the greater part of the system has always been in the hands of the British Columbia Telephone Co., Ltd.

With the rapid growth of private companies in the Maritime Provinces, the lines of the Bell Co. were disposed of in 1888 to the Maritime Telegraph and Telephone Co. in Nova Scotia, and to the New Brunswick Telephone Co. in New Brunswick, an interest in these corporations being retained under the terms of sale. A development of a different kind is seen in the three Prairie Provinces, where well-organized systems were sold to the Governments of Manitoba and Alberta in 1908 and to Saskatchewan in 1909. The lines in Ontario and Quebec are still largely owned by the Bell Telephone Co.

Telephone Systems.—The 2,399 telephone systems existing in 1931 (Table 72) include the three large provincial systems in Manitoba, Saskatchewan and Alberta, and a smaller governmental system in Ontario, together with the system operated by the National Parks of Canada, Department of the Interior. There were also 138 municipal systems, the largest operated by the cities of Edmonton, Fort William and Port Arthur. Out of the 1,523 co-operative telephone companies, no fewer than 1,172 were in Saskatchewan alone and 204 in Nova Scotia. Besides the above, there were 506 stock companies, 99 partnerships and 126 private systems.

The steady growth of the use of telephones from 1911 is indicated in the summary statistics of Table 71, showing an increase from 302,759 in 1911 to 1,364,-200 in 1931, or from 4·2 to 13·1 telephones per 100 of the population. By provinces, the numbers of telephones in 1931 were as follows: Ontario 621,528, Quebec 300,502, British Columbia 128,646, Saskatchewan 82,875, Alberta 70,427, Manitoba 73,399, Nova Scotia 46,932, New Brunswick 33,950, Prince Edward Island 5,806 and Yukon 135. The numbers of instruments per 100 estimated population were as follows: British Columbia 18·5, Ontario 18·1, Saskatchewan 9·0, Alberta 9·6, Manitoba 10·5, Quebec 10·5, New Brunswick 8·3, Nova Scotia 9·1 and Prince Edward Island 6·6. In the proportion of telephones to population, Canada as a whole, with 13·1 telephones per 100 population, ranks second to the United States which has 16·4 telephones per 100 population.

¹ Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics, which issues an annual report dealing with telephone statistics.

Estimates of the number of telephone conversations during 1931 were 2,532,-443,000 local and 33,198,000 long-distance calls. These estimates were based on estimates made by systems operating almost 90 p.c. of all telephones in Canada; their estimates were based on actual counts made on days of normal business activity, and, after adjusting for uncompleted calls, holidays, Sundays, etc., the average was multiplied by 365. The long-distance calls in practically all cases were the actual long-distance calls put through or completed. The average was 1,856 local and 24 long-distance calls per telephone and 244 telephone conversations per capita as compared with an average of 253.6 in 1930. The estimated per capita average for the United States in 1930 was 226 and for New Zealand, 208.3.

Statistics of the number of telephone companies reporting to the Dominion Bureau of Statistics are given in Tables 72 and 73.

71.—Progress of Telephones in Canada, years ended June 30, 1911-18, and Dec. 31, 1919-31.

Yr.	Capital- isation.	Cost of Property.	Revenue.	Operating Expenses	Salaries and Wages,	Com- pa- nies.	Pole Line Mileage.	Tele- phones.	Em- ploy- ees. ²	Tele- phones per 100 Popula- tion.
	\$	\$	\$		\$	No.	miles.	No.	No.	No.
1911	40,043,982	34,737,530	10,068,220	6,979,045	915,636	537	-	302,759	10,425	4.2
1912	46,276,852	56,887,799	12,273.627	9,094,689	2.659,642	683	-	370,884	12,783	5-0
1913	59,847,005	69, 214, 971	14,879,278	11,175,689	6,839,399	1,075	-	463,671	12,867	6-2
1914	70,291,884	80,258,356	17,297,269	12,882,402	8,250,253	1,136	-	521, 144	16,799	6∙8
1915	74,284,991	83,792,583	17,601,673	12,836,715	8,357,029	1,396	~	533, 0 90	15,072	6-8
1916	76,930,314	88,520,020	18,594,268	11,147,201	7,852,719	1,592	-	548,421	15,247	6-8
1917	79,121,702	94, 469, 534	20, 122, 282	12,095,426	8,882,593	1,695	-	604,136	16,490	7.4
1918	85,274,691	104,368,628	22,753,280	13,644,518	10,410,807	2,007	-	662,330	17,336	8-0
1919	100,587,833	125,017,222	29,401,006	20,081,436	15,774,586	2,219	-	778,758	20,491	9-5
1920	116,689,705	144,560,969	33,473,712	28, 044 ,401	17,294,405	2,327	161,270	856,266	21,187	9-9
1921	132,537,771	158,678,229	36,986,913	30,080,035	19,000,422	2,365	178,093	902,090	19,943	10-3
1922	143,802,023	167,332,932	39,559,149	29, 966,18 1	17, 30 5, 759	2,387	184, 147	944,029	19,321	10-6
1923	152,673,022	179,002,152	42,132.959	32,390,370	18, 182, 429	2,459	188,408	1,009,203	21,002	11-1
1924	160,015,020	193,884,378	44,322,598	33,615,686	18,293,234	2,466	193,399	1,072,454	21,685	11-6
1925	168, 167, 291	210,535,795	47,233,617	35,566,947	19, 106, 383	2,495	194,370	1,142,876	21,831	12-2
1926	179, 151, 098	227, 155, 900	50,522,859	38, 141, 360	25, 219, 493	2,479	201,604	1,201,008	23,083	12-8
1927	192,442,495	243,999,135	56 , 907, 338	48,561,916	26, 254, 605	2,462	204,245	1,259, 9 87	23,437	13.2
1928	207,441,866	263, 201, 651	61,791,333	51,542,544	28, 501, 378	2,447	207,566	1,334,534	24,373	13.8
1929	234,943,307	291,589,148	65, 240, 610	56,559,517	31,672,277	2,415	220,525	1,382,822	27,459	14 · 1
1930	258, 188, 983	319, 101, 191	69, 420, 459	61,886,340	32,085,948	2,414	222,113	1,402,861	26,575	14-1
1931	273,989,739	333,055,119	66, 806, 580	60,067,016	28,493,252	2,399	222, 196	1,364,200	23,825	13 · 1

Includes salaries and wayes chargeable to capital account. Exclusive of employees on rural lines in Saskatchewan.

72.—Number of Telephone Companies in Canada, by Provinces, Dec. 31, 1931.

Province.	Gov me		Muni- cipal,	Stock.	Co- operative.	Private.	Partner- ship.	Total.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon	2 1 2	Dom.	127 8 1 1 1	16 18 18 101 816 1 19 6 10	30 204 36 42 88 1,172 30	4 13 3 28 63 6 3 6	1 15 5 21 44 6 - 7	51 250 26 186 595 30 1,196 52 12
Totals	6	11	138	500	1,523	126	99	2,399

This system is located in the provinces indicated.

73.—Number of Telephone Companies in Canada, 1811-31.1

Year.	Govt.	Municipal.	Stock.	Co- operative.	Partner- ship.	Private.	Total.	Year.	Govt.	Municipal.	Stock.	Co- operative.	Partner- ship.	Private.	Total.
1911	0000 4 4 4	25 35 52 58 62	308 368 543 611 584	101 133 262 297 601	18 31 63 48 28	113 151	683 1,075 1,136	1922	5 5 6 6	117 127 153 144 142	693 450 502 502 490	1,752 1,606 1,551	68 106	98 124 137 186 174	2,466 2,495
1916 1917 1918 1919 1920 1921	455555	74 89 88	622 645 735 666 647 614	1,085 1,346 1,495	17 12 18 9	111 114 96 95 83 92	1,695 2,007 2,219 2,327	1928 1929 1930	5 5 5 7	138 137 137 188 188	496 491 492 506 506	1,557 1,543 1,537	93 106 107	161 132 121	2,447 2,415 2,414

^{&#}x27;The years 1911-18 are from July 1 to June 30. Figures for 1919 to 1931 are for the calendar years,

In the two following tables, figures are shown giving the number of telephones in use, the mileage of wire and the number of employees of telephone companies, by provinces, for the year 1931, and for the Dominion, from 1911 to 1931. Table 76 gives the financial statistics of Canadian telephone companies from 1912 to 1931.

74.—Telephones in Use, Mileage of Wire and Number of Employees, by Provinces, Dec. 31, 1931.

			Telephone	s in Use.				
Province.	Busi- ness.	Resi- dential.	Rural.	Public Pay.	Total.	Per 100 Popula- tion.	Mileage of Wire.	Em- ployees.
	No.	No.	No.	No.	No.	No.	miles.	No.
P. E. Island	1,163	1,614	2,958	71	5,806	6.6	8,137	
Nova Scotia	11.547	23,179	11,228	978]	46.932		96,564	
New Brunswick	8,718	17,032	7,558	642	33,950		61,743	
Quebec	92,497	17E,845	28,015	8,145	300,502			6,371
Ontario	156,529	336,911	116,774	11,814	621,528		2,273,843	9,750
Manitoba	21,314	37,264	12,758	2,063	73,399			
Saskatchewan	16,843	18,649	47,096	287	82,875			
Alberta	21,628	32, 129	15,834	836	70,427	9-6		
British Columbia	39,042	85,130	3,244	1,230	128,646	18.5		2,544
Yukon	-	115	20	-	135	3.4	566	
Totals,	369,281	723,868	245,485	25,566	1,361,200	13.1	4,885,076	23,825

Excluding employees on rural lines.

75.—Telephones in Use, Mileage of Wire and Number of Employees, 1911-31.

			Telephone:	s in Use.		ļ		
Year.	Business.	Resi- dential.	Rural.	Public Pay,	Total.	Per 100 Popula- tion.	Mileage of Wire.	Em- ployees.²
•	No.	No.	No.	No.	No,	No.	miles.	No.
1911 1912	-	-1	-	-	302,759 370,884	4·2 5·0	687,782 889,572	
1913,.,	l -I		-	-	463, 671	6.2	1,092,587	12,867
1914 1915		- [-	-	521,144 533,090	6·8 6·8		
1916		-	-	-]	548,421	6-8		
1917 1918	[- [-	604,136 662,330	7·4 8-0	1,708,203 1,848,466	16,490 17,336
1919 1920	260,481	390,930	204,855	-	778,758 856,266	9-2	2, 105, 240	20,491
1921		396,384 414,887	232,208 247,607	-	902,090 944,029	10·3 10·6		
1923	303,660	444,300	261,360		1,009,320			19,321 21,002
1924 1925	281,108 297,875	509,928	265,509 268,807	15,909 19,357	1,072,454 1,142,876	11.6	2,765,722	21,683
1926 1927			270,686 275,544	21,336 22,482		12·8 13·2		
1928,	345,771		280,878	23,065				
1929	366,418	724,001	269,487	22,916		14 · I		
1930	373,387 369,281	740,050 723,868	264,681 245,485	24,743 25,566				

Figures for the years 1911-18 are from July 1 to June 30; those for 1919-31 are for calendar years.
 Excluding employees on rural lines in Saskatchewan.

76.—Financial Statistics of Canadian Telephone Companies, 1912-31.1

Year.	Capital Stock.	Funded Debt.	Cost of Property and Equipment.	Salaries and Wages. ²	Gross Revenue.	Operating Expenses.	Net Operating Revenue.
		\$	\$	\$	\$	\$	\$
1912 1913 1914 1915	21,533,605 26,590,501 28,644,340 28,947,122 29,416,956	33,256,503 41,647,554 45,337,869	69,214,971 80,258,356 83,792,583	2,659,642 6,839,309 8,250,253 8,357,029 7,852,719	12,273,627 14,897,278 17,297,269 17,601,673 18,594,268	9,094,689 11,175,689 12,882,402 12,836,715 11,147,201	3,721,589 4,414,867
1917 1918 1919 1920	29,476,367 29,803,090 35,227,233 36,149,838 42,194,426	55,471,601 65,360,600 80,539,367	104,368,627 125,017,222 144,560,969		20, 122, 282 22, 753, 280 29, 401, 006 33, 478, 712 36, 986, 913	13,644,524 20,081,436 28,044,401	9,108,756 9,319,570 5,429,311
1922 1923 1924 1925 1926	48,968,198 57,366,675 63,798,133 65,514,130 68,345,999	95,306,347 96,216,887 102,653,161	179,002,152 193,884,378 210,535,795	18, 182, 429 18, 293, 234	42,132,959 44,322,598 47,233,617	33,615,686 35,566,947	10,266,295 10,706,912 11,666,670
1927 1928 1929 1930 1931		121.528,627 141,205,328 155,411,716	263,201,651 291,589,148 319,101,191	28,501,378 31,672,277 32,085,948	61,791,333 65,240,610 69,420,459	51,542,544 56,559,517	10,248,789 8,681,093 7,534,119

¹Figures for the years 1912-18 are from July 1 to June 30; those for 1919-31 are for calendar years. ²Includes salaries and wages chargeable to capital accounts,

PART XII.—RADIO.1

Under the Radiotelegraph Act (c. 195, R.S.C., 1927), the administration of radio within the Dominion was vested in the Department of Marine, now under the jurisdiction of the Hon. Alfred Duranleau, Minister. The matter of Dominion jurisdiction has been questioned by certain of the provinces from time to time, but on Feb. 9, 1932, the Judicial Committee of the Imperial Privy Council ruled that the control and regulation of radio communication is within the jurisdiction of the Dominion Parliament. This decision was a very important one and has done much to further the nationalization of radio broadcasting in Canada. (See pp. 731-733).

Section 1.—Radiotelegraphy.

The Coast Station Radiotelegraph System.—The present coast station system of 65 stations consists of three chains—one extending from Vancouver to Prince Rupert on the Pacific, another from Port Arthur to the Atlantic ocean in the east, and the third from Port Churchill to Resolution island at the entrance to Hudson strait. The Great Lakes coast stations connect with those of the east coast, which, in turn, connect with the Hudson Bay route chain. There is no direct radio connection between the Great Lakes and the Pacific Coast chains.

Of the above stations, 17 on the east coast and Great Lakes are operated by the Canadian Marconi Co. under contract with the Department, and the remaining 48 on the east coast, west coast and Hudson bay and strait are operated directly by the Department. Twice daily, at advertised hours, a number of these stations broadcast messages to shipping containing such important information as weather forecasts, storm warnings, reports in connection with floating derelicts, ice and other dangers to navigation. In the interests of navigators, to whom accurate time is essential in computing observations on celestial bodies, three Canadian coast stations—two on the west coast and one on the east coast—transmit time signals at advertised hours daily.

Some years ago the discrimination of underwriters in the matter of insurance rates charged on ships plying to Canadian ports led the Department to feel that any reasonable expenditure which would tend to reduce these charges would be a sound investment. To this end 12 direction-finding stations have been established at specially selected sites with respect to navigational routes—7 on the east coast, 4 on the Hudson bay and strait, and 1 on the west coast. These stations are fitted with special apparatus which enables the direction of the incoming radio signal transmitted by a ship to be accurately determined. It is the expressed opinion of many master mariners that Canadian direction-finding stations set a standard for accuracy and efficiency.

A more recent extension of the shore direction finder is the development of the direction-finding instrument on board ship. To assist this development, the Department has established radio beacon transmitters at a number of lighthouses and lightships (see Table 77). These radio beacons transmit characteristic radio signals with an approximate range of 50 miles every hour at advertised times during clear weather and continuously when the atmosphere in the vicinity of the station is so obscure as to impede navigation.

To insure the safety of life at sea, all passenger steamers and freighters plying to and from Canadian ports must carry radio equipment manned by competent operators in possession of a certificate of proficiency in radio. The Department

¹ Sections 1 and 2 have been revised by Commander C. P. Edwards, O.B.E., Director, Radio Service, Department of Marine, Ottawa. A fuller treatment of the historical and descriptive background of radio communication was published at pp. 607-610 of the 1932 Year Book.

maintains a complete radio inspection service to enforce this regulation. Inspectors located at various ports throughout the Dominion are responsible for checking the efficiency of the radio equipment on ships of all nationalities, and seeing that only competent operators are carried. Examinations for certificates of proficiency in radio are conducted by the Radio Branch, and 3,532 certificates have been issued up to Mar. 31, 1932.

Table 77 shows the name and situation of the Government-owned radiotelegraph stations in Canada and Newfoundland.

77.—Government-Owned Radio Stations in Canada, fiscal year ended Mar. 31, 1932.1

		1	<u> </u>
Name of Station.	Situation.	Name of Station,	Situation.
Chebucto Head, N.S.* Clarke City* Fame Point, Que.* Father Point, Que.* Grindstone Island	Newfoundland. Eatrance Halifax Harbour. Gulf of St. Lawrence.	Hudsen Bay and Hudsen Strait. Cape Hopes Advance, Que. ² . Nottingham Island ² . Port Churchill, Man. ² Resolution Island ² . Chesterfield Inlet	Hudson Strait. Hudson Strait. Hudson Bay. Hudson Strait. Hudson Bay.
Que.* Halifar Dockyard Montreal, Que.* North Sydney*. Point Amour, Nfld.* Quebec, Que.* Sable Island*. Saint John, N.B.* Yarmouth, N.S.*	Magnaien 18409. Halifar, N.S St. Lawrence River. Cape Breton, N.S. Gulf of St. Lawrence. St. Lawrence River. North Atlantic. Red Head N.B.	DIRECTION-FINDING STATIONS. Cape Hopes Advance. Nottingham Island Port Churchill, Man	Hudson Strait. Hudson Strait. Hudson Bay.
Direction-Finding Stations.	SD. H. V.I. Ganata	Nerthwest Terri- terles, Coppermine	
Cape Race D/F Chebucto Head D/F Saint John D/F Saint Paul D/F Yarmouth D/F	Belle Isle Straits. Nova Scotia. Newfoundland. Entrance Halifax Harbour. Red Head, N.B. Nova Scotia. Nova Scotia.	Cape Lazo	Cormorant Island, B.C. Hope Island, Vancouver Is. Strait of Georgia, near Co- mox, B.C. South of Graham Island,
RADIO BRACON STATIONS. Cape Whittle West Point Pointe des Monts Cape Bauld Cape Ray Heeth Point Light	Gulf of St. Lawrence, Anticosti, Gulf of St. Lawrence, N.W. Newfoundland.	Digby Island, B.C Estevan, B.C Gonzales Hill, B.C Merry Island, B.C	Queen Charlotte Islands. Entrance Prince Rupert Harbour. West Coast, Vancouver Is. Victoria, B.C. British Columbia.
	Heath Point Anticosti	Point Grey, B.C	West Coast, Vancouver Is. Entrance Vancouver Har- bour. Merchants Exchange, Van- couver.
Great Lakes. Kingston, Ont.* Midland, Ont.* Point Edward, Ont.* Port Arthur, Ont.*	Port Arthur	STATIONS.	West Coast, Vancouver Is.
Toronto, Ont.*	Lake Erie. Sault Ste. Marie, Ont. Entrance Georgian Bay, Ont. Toronto Island	Dead Tree Point	Langara Island, Q.C.I. South of Graham Island, Q.C.I. West Coast, V.I. (Kains Is.). Triple Islets Group, B.C.
RADIO BEACON STATIONS. Southeast Shoal Main Duck Long Point Michipicoten Island Cove Island	Lake UntarioLake Erie.	LIFE-SAVING STATIONS. Banfield, B.C. Carmanah, B.C. Cape Beale, B.C. Pachena, B.C.	West Coast, Vancouver Is. """ """ """ """"

¹⁰f these Government-owned stations some only are operated by the Government. The rest are

operated by the Marconi Co, and are indicated by an asterisk (*).

This is the same station as that listed under Direction-Finding Stations, but is included under two headings to indicate its two functions. It is counted only as a D/F station in the summary in Table 73.

Also included under Radio Beacon Stations to show its double function.

Table 78 gives the number of messages and words handled and the cost of maintenance for the Government stations of the east coast, the west coast, the Great Lakes, the Hudson bay and Hudson strait. For the year 1931-32, the total number of messages was 307,869, as compared with 396,727 in 1930-31, 440,912 in 1929-30, 456,239 in 1928-29, 404,144 in 1927-28 and 402,023 in 1926-27, and of words handled 6,936,062, as compared with 8,534,982 in 1930-31, 9,167,302 in 1929-30, 8,942,945 in 1928-29, 7,695,757 in 1927-28 and 7,347,794 in 1926-27.

78.—Business and Cost of Maintenance of Radiotelegraph Stations for the fiscal years ended Mar. 31, 1931 and 1932.

		1931.		1932,				
Station.	Messages Handled.	Words Handled.	Cost of Main- tenance,	Messages Handled.	Words Handled.	Cost of Main- tenance.		
	No.	No.	\$	No.	No.	\$		
East Coast	119,651	2,496,089	212,838	99,979	2,203,391	209,500		
Great Lakes	27,782	431,019	79,294	21,220	332,868	78,978		
West Coast	223,574	4,680,209	134,043	156,690	3,288,519	145,875		
Hudson Bay and Strait	25,720	927,665	82,470	29,980	1,111,284	76,751		
Totals	396,727	8,534,982	508,645	307,869	6,936,062	511,104		

Section 2.—Radiotelephony.

Transatlantic Radiotelephone Service.—A radiotelephone service between Canada and Great Britain was first made available to the Canadian public, through the medium of the Bell Telephone Co. via the transatlantic radio circuit operated by the American Telegraph and Telephone Co. from New York, in March, 1928.

In 1932 a direct circuit with Great Britain was opened through the medium of the beam station of the Canadian Marconi Company at Drummondville, P.Q.

Approximately \$250,000 is expended annually by the Radio Branch of the Department of Marine for the suppression of inductive interference in the interests of broadcast listeners. This service is entirely free. Upwards of 100 men and 24 fully equipped cars are engaged in this work. Radio broadcasting throughout the Dominion is at present carried on by private enterprise.

Radio Broadcasting.—Broadcasting of the human voice by radio first commenced in Canada with test programs carried out by the Canadian Marconi Company in Montreal during the winter evenings of 1919. Regular organized programs were commenced in December, 1920, by the same company, on a wavelength of 1,200 metres.

In April, 1922, the establishment of broadcasting stations on a general scale commenced, 52 private, commercial and amateur broadcasting licences being granted during the fiscal year 1922-23. During the fiscal year 1931-32, 66 broadcasting stations were in operation in the Dominion, and the number of licensed receiving sets was 598,358. The licence fee for a broadcasting station is \$50 per annum, and for a receiving set \$2 per annum.

The increasing popularity of radio receiving sets for "listening in" on broadcasted musical programs and news, is indicated by the number of such sets licensed in Canada (private receiving stations in Table 79) which have grown from 9,956 in the fiscal year ended Mar. 31, 1923, to 598,358 in 1932. In the latest year the total was divided among the provinces as follows: Ontario, 285,048; Quebec, 127,804; Saskatchewan, 31,487; Manitoba, 35,262; British Columbia, 55,534; Alberta, 27,481; Nova Scotia, 21,109; New Brunswick, 13,256; Prince Edward Island, 1,189; Northwest Territories and Yukon, 188. In the calendar year 1930, the sales in Canada of radio sets numbered 223,228, valued at \$22,776,225. Complete sets manufactured numbered 170,082, valued at \$19,196,936.

The wireless and radio stations at present operating in Canada are summarized in Table 79.

	<u> </u>				
Class of Station.	1928.	1929.	1930.	1931.	1932.
Coast Stations (Government-owned)	33	30 11	28 12	29 12	29 12
Ship Stations (Government-owned)	33 8	37 8	44 15	47 19	50 20
Radiophone Stations (Government-owned)	27 279	27 296	4 1 275	4 1 272	5 1 241
Limited Coast Stations	3 7	3 4	4 47	4 50	4 32
Private Commercial Stations	84 42	98 79 46	138 81 71	131 80 91	112 77 107
Amateur Experimental Stations. Amateur Broadcasting Stations.	532 15 268,420	584 12 297,398	610 10 424, 146	728 8 523,1001	898 7 598,358
Private Receiving Stations Radio Training Schools Licensed aircraft	9	291,395 5 2	3 3	020,100°	990,096 5 1
Totals	269,581	298,644	425.495	524,582	599.959

79.-Wireless and Radio Stations in Operation in Canada, Mar. 31, 1928-32.

Section 3.—The Canadian Radio Broadcasting Commission.1

The adoption of a policy of national radio broadcasting, in 1932, followed upon two extensive investigations into the radio broadcasting situation in Canada; one by a Royal Commission in 1929, and one by a special committee of the House of Commons in 1932. The Royal Commission, of which Sir John Aird was chairman, not only examined the Canadian situation but also surveyed the radio broadcasting systems obtaining in the United States, Great Britain, and certain European countries. Its report, which was presented to the Government in September, 1929, recommended the creation of a national radio broadcasting monopoly in Canada to be operated by a corporation owned by the Dominion Government. One of the principal considerations guiding the commission's report was the desirability of providing a broadcasting service in Canada adapted to the special requirements of the country and free from external influence.

¹ Includes 873 licences issued free to the blind.

¹ Supplied by courtery of Hector Charlesworth, Chairman Radio Broadcasting Commission.

No action on the report of the Royal Commission was taken at the regular session of 1930, and it was not until the session of 1932 that the report received parliamentary consideration, following the decision of the Imperial Privy Council which held that radio broadcasting in Canada came within Dominion rather than provincial jurisdiction. Then the House of Commons, on the motion of the Prime Minister, the Right Honourable R. B. Bennett, appointed a committee to consider and advise upon the broadcasting question. This committee, of which the Honourable Raymond D. Morand was chairman, was instructed: (1) "To consider the report of the Aird Commission"; (2) "To advise and recommend a complete technical scheme for radio broadcasting for Canada so designed as to ensure from Canadian sources as complete and satisfactory a service as the present development of radio science will permit"; and (3) "To investigate and report upon the most satisfactory agency for carrying out such a scheme".

In the final report, presented to the House of Commons on May 9, 1932, the committee outlined its conception of the place of radio broadcasting in the national life in the following terms: "Your committee was seized, from the inception, of the national importance and international character of radio broadcasting, and the evidence submitted has served to further consolidate our opinion of the far-reaching scope and benefits of proper, well-regulated broadcasting service throughout Canada as a medium of education, thought-provoking development, and fostering of Canadian ideals and culture, entertainment, news service, and publicity of this country and its products, and as an auxiliary to religious and educational teaching, also as one of the most efficient mediums for developing a great National and Empire consciousness within the Dominion and the British Commonwealth of Nations".

After paying tribute to the existing commercial radio broadcasting stations for the services they had rendered, the committee stated its conviction that the existing system did not ensure the maximum benefits of radio broadcasting. The change that had taken place in the science of radio broadcasting and in the financial condition of the country subsequent to the presentation of the Aird Report was mentioned by the committee in connection with its inability to completely accept the recommendations contained in that report. The committee recommended the creation of a national broadcasting system, including a chain of high-power stations located at suitable intervals across the country with a number of supplementary stations of lower power. It recommended that the national broadcasting system be controlled and operated by a commission to be known as the Canadian Radio Broadcasting Commission and consisting of a chairman, a vice-chairman, and a third commissioner, holding office for ten, nine, and eight years respectively. committee proposed that this commission should be vested with the necessary powers: to carry on the business of broadcasting in Canada, including power to regulate and control all broadcasting; to own, build and operate stations; to acquire by lease, purchase, expropriation, or otherwise, any or all existing broadcasting stations; to enter into operating agreements with privately-owned stations; to prohibit the establishment of privately-owned chains of stations; to take over, subject to the approval of Parliament, all broadcasting in Canada; and to perform other functions necessary to the creation and operation of a national broadcasting system.

Regarding the financing of the proposed national system the committee recommended that it be self-sustaining and that only the money accruing from transmitters' and receivers' licence fees and advertising income be available for it.

The report of the committee, which was unanimous, was adopted without opposition in the House of Commons and a bill based upon it was introduced by the Prime Minister at the same session of Parliament. The Canadian Radio Broadcasting Act, 1932, was passed without opposition, and provided for the appointment of a commission as proposed by the committee and vested certain powers in the commission, some of which powers were subject to the approval of the Governor in Council, and some to the approval of Parliament.

Under authority of this Act, a commission of three members was appointed in the autumn of 1932, the personnel being Hector Charlesworth, Chairman; Thomas Maher, Vice-Chairman, and Lieut.-Col. W. Arthur Steel, Commissioner. The chairman and the vice-chairman took office on Dec. 1, 1932, but, owing to absence in Europe at the International Radio Conference at Madrid, Colonel Steel did not assume office until the middle of January, 1933.

Although the commission was not formally established in office and had hardly commenced the creation of its organization, it took charge of Canada's part in the first intra-Empire broadcast arranged by the British Broadcasting Corporation for Christmas Day, 1932, in which all the principal parts of the Empire exchanged greetings and received a message from His Majesty to his subjects throughout the world. This ambitious enterprise was carried out with complete success.

Without the use of transcontinental transmission wires and broadcasting stations, the commission could not at the outset engage in national broadcasting on a substantial scale. Pending the conclusion of negotiations for the leasing of wires and arrangements for the broadcasting of commission programs by commercial stations, the commission endeavoured to augment the existing broadcasting service by providing occasional broadcasting programs of a national character through temporary arrangements with wire companies and commercial broadcasting stations. Commencing with two programs a week, by May 1, 1933, it was broadcasting national programs on a trans-Canada network seven days a week. each of these programs being one hour long. At that time negotiations for the use and control of transcontinental wires for a fixed period of several hours each day and for the regular broadcasting of commission programs by commercial stations were approaching conclusion. These arrangements were designed to enable the commission to broadcast nationally and regionally for some hours every day, its operations in this connection being restricted by the amount of money available for its purposes. In April, 1933, the commission had secured the nucleus of a national network of stations of its own by taking over and operating the three stations of the Canadian National Railways at Moncton, Ottawa, and Vancouver. Subject to its finances permitting, it planned to commence during the year the construction of one or two high-power stations in Western Canada. In the meantime the commission began to discharge other functions assigned to it by Parliament, including the application of the statutory provision for the restriction of the advertising content of all commercial programs. At the parliamentary session of 1933 the Act creating the commission was amended to remove certain restrictions on the commission in regard to the selection of the personnel of its organization and to provide that it might function in certain respects with the approval of the Governor in Council instead of the approval of Parliament,

PART XIII.—THE POST OFFICE.

Historical.—A postal service was established between Montreal and Quebec as early as 1721, official messengers and other travellers making a practice of carrying letters for private persons. When Canada came under British rule, the Post Office was placed on a solid footing by Benjamin Franklin, then Deputy Postmaster General for the American colonies, who visited Canada in 1763, opened post offices at Quebec, Montreal and Three Rivers, and also established courier communication between Montreal and New York. Since 1755 Halifax had had a post office and direct postal communication with Great Britain.

As a consequence of the American Revolution and the resulting isolation of Canada from Nova Scotia, the first exclusively Canadian postal service, a monthly courier route from Halifax to Quebec, was established in 1788, involving a seven weeks' trip and expenses of about £200 of which only one-third was met by postal charges. Up to 1804 the postal facilities of Upper Canada consisted of one regular trip by courier each winter with whatever mail might reach Montreal during the season of navigation. Charges were necessarily high, \$1.12 being paid on ordinary letters from London to Toronto via Halifax.

The first post office in Toronto was opened about 1800. By 1816 there were 19 offices in the two Canadas and by 1827 this number had increased to 114. At this time the system consisted primarily of a trunk line of communication between Halifax, Quebec, Montreal, Toronto and Amherstburg, over which couriers travelled at varying intervals. Branching off this line were routes to Sorel, Sherbrooke, St. Johns, Hull, Hawkesbury, Perth and Richmond, with most deliveries made once or twice a week.

Hitherto the Post Office had been under the control of the Imperial Department, but considerable agitation resulted in the service being transferred on April 6, 1851, to the several provinces. Only enough mutual control was maintained to insure the continuance of Imperial and intercolonial services. The provinces had complete jurisdiction over the establishment and maintenance of systems and rates.

At Confederation the provincial systems were transferred to the Dominion. The Post Office Act of 1867 established a service throughout Canada. The domestic rate on letters was reduced from 5 to 3 cents per half-ounce, and in 1870 the rates to the United States and the United Kingdom were reduced from 10 to 6 cents and from 12½ to 6 cents respectively per half-ounce. In 1875 a convention between Canada and the United States reduced postal rates between the countries to the domestic level. In 1878, on the admission of Canada to the Postal Union, letter postage to the countries of the Postal Union was reduced to 5 cents per halfounce. After a conference in 1897 Imperial penny postage (2 cents per half-ounce) was established on Dec. 25, 1898, while the domestic rate was reduced from 3 to 2 cents per ounce. These rates were maintained until 1915, when a 1-cent war tax was imposed on all pay letters and post cards (except where this would be in violation of international agreements), and also on postal notes. Later the rate to Great Britain was increased to 4 cents on the first and 3 cents on succeeding ounces, while that to Postal Union countries was raised to 10 cents on the first and 5 cents on succeeding ounces. The Postal Union rate was reduced in October, 1925, to 8 cents for the first ounce and 4 cents for subsequent ounces. Penny postage again became effective for Canada, to the United States, Newfoundland and other countries of North America on July 1, 1926, and to the United Kingdom and all other places within the British Empire on Dec. 25, 1928. On May 24, 1929, penny postage became effective to France and, on Dec. 25, 1929, was extended to all places in South America. On July 1, 1930, the rate to other Postal Union countries was made 5 cents for the first ounce and 3 cents for each succeeding ounce. On July 1, 1931, a special revenue tax imposed by the Government for the purpose of obtaining additional revenue, came into effect on letters addressed to places in Canada, throughout the Empire, to France and to North and South America generally, making the rate in these cases 3 cents for the first ounce and 2 cents for each succeeding ounce.

The Post Office Department is administered by the Postmaster General. Besides the several administrative branches at Ottawa, the Dominion is divided into 15 districts, each in charge of a Superintendent of Postal Service. The Canadian system embraces a territory more extensive than that served by any other system, excepting those of the United States and Russia, though the sparsity of population and the comparative lack of development make inevitable a peculiarly difficult and expensive service.

Rural Mail Delivery.—A system of rural mail delivery was inaugurated in Canada on Oct. 10, 1908, limited at that time to existing stage routes, persons residing on such routes being entitled to have mail boxes put up in which the mail carrier was to deposit mail matter and from which he was to collect mail matter and carry it to the post office. As a consequence of the public approval of this scheme, new Regulations, taking effect on April 1, 1912, made all persons residing in rural districts along and contiguous to well-defined main thoroughfares of one mile and upwards eligible to receive their mail in this manner, while couriers on rural mail routes were also required to sell postage stamps and take applications, and accept money, for money orders and postal notes. The result has been an increase in the number of rural routes from approximately 900 in 1912 to 4,315 in 1932, having 235,755 mail boxes as against approximately 25,000 in 1912. The establishment of these routes has been an important factor in the amelioration of the conditions of Canadian rural life.

Statistics.—Tables 80 to 82 show the number of post offices in operation in Canada in the latest six years, the gross revenue in all offices collecting \$10,000 and upwards in 1931 and 1932, and the net revenue and expenditure of the Department in various years since 1890.

¹Revised as to financial transactions by H. E. Atwater, Financial Superintendent, Post Office Department.

Province.	1927.	1928.	1929.	1930.	1931.	1932.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	130 1,778 1,113 2,463 2,614 817 1,428 1,195 867 20 15	128 1,771 1,114 2,514 2,604 817 1,428 1,200 866 20 15	127 1,770 1,079 2,528 2,528 2,586 816 1,423 1,189 876 20 16	126 1,762 1,062 2,519 2,575 815 1,430 1,191 892 20 17	125 1,751 1,041 2,516 2,576 818 1,48 1,224 890 21	116 1, 673 1, 023 2, 451 2, 522 781 1, 424 1, 200 905
Totals	12,440	12,478	12,430	12,440	12,427	12,133

80 .- Number of Post Offices in Operation, by Provinces, Mar. 31, 1927-32.

81.—Statistics of Gross Postal Revenue of Offices Collecting \$10,000 and upwards, fiscal years ended Mar. 31, 1931-32.

Name of Post Office. 1931. 1932. Name of Post Office. 1931.	1982. \$ 15,817 20,136 80,359 17,325 22,744 7,544,313 11,059 16,221 14,960 13,121 33,555 69,701 15,999 15,204 28,954 154,435 56,279
P.E. Island. Charlottetown	15,817 20,136 80,359 17,325 22,744 7,544,313 11,059 16,221 14,960 13,121 15,909 15,204 28,934 154,435
Charlottetown	20,136 80,359 17,325 22,744 7,544,313 11,059 16,221 14,960 13,121 23,655 69,701 15,204 22,954 154,435
Totals for Province 161,826 179,860 Valleyfield 13,441 Victoria ville 19,636	20,136 80,359 17,325 22,744 7,544,313 11,059 16,221 14,960 13,121 23,655 69,701 15,204 22,954 154,435
Totals for Province 161,626 179,860 Valleyfield 13,441 Victoriaville 19,636	22,744 7,544,313 11,059 16,221 14,960 13,121 33,655 69,701 15,909 15,204 28,954 154,435
Nota Sectia	22,744 7,544,313 11,059 16,221 14,960 13,121 33,655 69,701 15,909 15,204 28,954 154,435
Amherst	11,059 16,221 14,960 13,121 33,655 69,701 15,204 28,954 154,435
Halifax 18, 425 18, 925 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19,	11,059 16,221 14,960 13,121 33,655 69,701 15,204 28,954 154,435
Halifax 18, 425 18, 925 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19,	13,121 33,655 69,701 15,999 15,204 28,954 154,435
Halifax 18, 425 18, 925 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19, 420 19,	13,121 33,655 69,701 15,999 15,204 28,954
Halifar	13,121 33,655 69,701 15,999 15,204 28,954
Rentville	13,121 33,655 69,701 15,999 15,204 28,954
North Sydney	13,121 33,655 69,701 15,999 15,204 28,954
North Sydney 16,889 1,612 Serievine 02,189 Pictou 13,237 14,315 Bowrganville 13,752 Springhill 14,116 13,194 Bracebridge 13,554 Stellarton 11,091 11,993 Frampton 25,660 Sydney 64,667 67,152 Brantiord 142,550 Truro 54,885 57,778 Brockville 48,787 Windsor 18,421 20,016 Bruington 8,947 Wolfville 13,924 16,012 Campbellford 9,171 Yarmouth 30,343 32,810 Carleton Place 15,916 Totals for Province 1,491,929 1,486,815 Clinton 9,132	33,655 69,701 15,996 15,204 28,954 154,435
North Sydney 16,889 1,612 Serievine 02,189 Pictou 13,237 14,315 Bowrganville 13,752 Springhill 14,116 13,194 Bracebridge 13,554 Stellarton 11,091 11,993 Frampton 25,660 Sydney 64,667 67,152 Brantiord 142,550 Truro 54,885 57,778 Brockville 48,787 Windsor 18,421 20,016 Bruington 8,947 Wolfville 13,924 16,012 Campbellford 9,171 Yarmouth 30,343 32,810 Carleton Place 15,916 Totals for Province 1,491,929 1,486,815 Clinton 9,132	15,999 15,204 28,954 154,435
Windsor. 16, 22 25, 91 30 and 3 30, 343 32, 810 Campbellord 9, 171 Yarmouth. 30, 343 32, 810 Carleton Place 15, 916 Totals for Province. 1, 491, 929 1, 486, 816 Clinton. 9, 132	15,204 28,954 154,435
Windsor. 16, 22 25, 91 30 and 3 30, 343 32, 810 Campbellord 9, 171 Yarmouth. 30, 343 32, 810 Carleton Place 15, 916 Totals for Province. 1, 491, 929 1, 486, 816 Clinton. 9, 132	154,435
Windsor. 16, 22 25, 91 30 and 3 30, 343 32, 810 Campbellord 9, 171 Yarmouth. 30, 343 32, 810 Carleton Place 15, 916 Totals for Province. 1, 491, 929 1, 486, 816 Clinton. 9, 132	
Windsor. 16, 22 25, 91 30 and 3 30, 343 32, 810 Campbellord 9, 171 Yarmouth. 30, 343 32, 810 Carleton Place 15, 916 Totals for Province. 1, 491, 929 1, 486, 816 Clinton. 9, 132	1 50.279
Totals for Province 1,491,829 1,486,818 Cinton 9,132	11,057
Totals for Province 1,491,829 1,486,818 Chaton 9,132	10,524
Totals for Province 1,491,829 1,486,818 Chaton 9,132	16,968
	74,484 10,505
	18,605
New Brunswick. Cobourg 36,930	39,627
Bathurst 12,908 13,483 Cochrane 19,812 Campbellton 23,284 25,198 Collingwood 18,788 Chatham 13,164 13,942 Copper Cliff 12,575	22,302 19,883
Chatham 13,164 13,942 Copper Cliff 12,575 Dalhousie 11,431 11,633 Cornwall 39,363	10,843
Dalhousie	45,422
Edmundston. 16,678 17,540 Dundas. 15,367 Fredericton. 70,579 75,602 Dunnville. 19,349	16,937 23,913
Moneton 510 258 467 917 Fermis 16, 236	18,849
Newcastle 11,760 12,952 Fort Eric North 24,958 Saint John 270,877 297,968 Fort Frances 19,215 St. Stephen 17,930 19,697 Fort William 77,492	26,573 20,364
Saint John 270,877 297,968 Fort Frances 19,215 St. Stephen 17,930 19,697 Fort William 77,492	83,225
Dackville 11,230 20,200 Catt 10,231	68,180
Susser 16,563 17,384 Gananoque 18,233 Woodstock 20,566 20,891 Georgetown 12,493	19,934 15,780
	18,828
Totals for Province 1,331,383 1,342,739 Gravenhurst 10,178	11,809
Quebec. Grimsby 11,332 Guelph 97,719	13,088 106,677
4 mag Q 130 10 723 Haileybury 11,525	12,867 658,566
Amos 9,139 10,723 Halleybury 11,525 Beauharnois 9,504 12,995 Hamilton 621,721 Buckingham 10,015 11,151 Hanover 14,904 Chicoutini 32,860 32,337 Hawkesbury 10,148	658,566
	16,054 11,089
Coaticook	10.923
Drummondville East. 22,160 26,873 Huntsville 14,336 Farnham 11,967 13,860 Ingersoll 22,768	15.890
Casicook	13,31
Granby 22,620 28,551 Kapuskasing 13,218 Grand Mère 11,276 12,124 Kenora 23,526 Hull 28,181 32,302 Kincardine 14,591	25,08
Hull 28, 181 32, 302 Kincardine 14, 591	18,09 125,13
	37,53
Lachute 9,251 10,183 Kirkland Lake 25,742 Lac Mégantic 9,645 10,343 Kitchener 189,275 La Tuque 12,080 13,949 Leamington 19,314 Lennoxville 9,658 10,875 Lindsay 36,964 Lévis 23,018 24,522 Listowel 15,120 Lévis 1,200 1,200 1,200 Lindsay 36,964 15,120 Lindsay 36,964 15,120 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 Lindsay 36,964 <t< td=""><td>37,53 143,33</td></t<>	37,53 143,33
La Tuque 12,080 13,949 Leamington 19,314 Lennoxville 9,656 10,875 Lindsay 36,964	21,32 39,05
Lennoxville 9,656 10,875 Lindsay 36,064 Lévis 23,018 24,522 Listowel 15,126	14,79
Magog 11,328 12,662 London 513,111	524,03
Montmagny	10,95 22,80
Montreal 4,725,519 4,629,518 Midland 20,540	23,42
Guebec 612, 291 651, 283 Napanee 19, 949 Rimouski 16, 188 17, 040 New Liskeard 20, 154 Rock Island 8,889 10, 646 Newmarket 16, 687	23.15
Rock Island 8,889 10,646 Newmarket 16,687 Rock Island 9,485 10,618 Niagara Falls 137,953 Ste. Arathe des Monts 11,325 12,724 North Bay 63,401	19,71 136,69
Rouyn 9,485 10,618 Niagara Falls 137,953 Ste. Agathe des Monts 11,325 12,724 North Bay 63,401	69,59
Rouyn 9,485 10,618 Niagara Falls 137,953 Ste. Agathe des Monts 11,325 12,724 North Bay 63,401 St. Hyacinthe 34,462 41,318 Oak ville 16,438 St. Johns 27,714 30,519 Orangeville 12,203 7 200 27,720 27,200 27,200	r 18.90
St. Iyacinthe. 31,402 41,310 Orangeville 12,203 St. Johns. 27,714 30,519 Orangeville 12,203 St. Jérôme. 15,991 18,030 Orilla. 37,299 Shawingan Falls. 24,941 25,538 Oshawa. 94,785	13,48 42,62
Rimouski. 16,188 17,040 New Liskeard 20,154 Rock Island 8,889 10,646 Newmarket 18,687 Rouyn 9,485 10,618 Niagara Falls 137,953 Ste. Agathe des Monts 11,325 12,724 North Bay 63,401 St. Hyacinthe 34,462 41,318 Oakville 16,436 St. Johns 27,714 30,719 Orangeville 12,203 St. Jerôme 15,991 18,036 Orillia 37,299 Shawinigan Falls 24,941 25,538 Osbawa 94,785 Sherbrooke 116,456 123,624 Ottawa 652,385	96,57 725,47
Shawinigan Falls 24,941 25,538 Oshawa 94,785 Sherbrooke 116,456 123,624 Ottawa 652,385	

81.—Statistics of Gross Postal Revenue of Offices Collecting \$10,000 and upwards, fiscal years ended Mar. 31, 1931-32—concluded.

Name of Post Office. Ontario—concluded. Owen Sound. Paris. Parry Sound. Pembroke. Perth. Peterborough. Petrotia.	1 28.427	\$ 54,323 25,597 16,074	Name of Post Office. Saskatchewan—con. Shaunayou	1931.	1932.
Owen Sound	49,914 24,221 13,926 31,123 28,927	_	ŀ		3
Paris	24,221 13,926 31,123 28,927	54,323 25,597	Chausaran		
Paris	24,221 13,926 31,123 28,927	25,597		12,746	10,086
Pembroke	13,926 31,123 28,927	16 074	Swift Current	35,555	32,466
Pembroke	1 28.427	10,043	Tisdale	9,712	32,466 10,824
Perth	1 28.427	33,180	Weyburn	27,892	25,189
Peterborougn	174 050	29,602 124,585	Yorkton	31,517	30,641
	114,933	124,565	Totals for Province	2,869,172	2,893,555
Picton	11,812 17,761	19,698	1000001011010000		7,500,000
Port Arthur	1 56,522	19,698 62,584	Alberta.	ì	
Port Colborne	23,817	23, 101	718	17.004	37 054
Port Hope	20,553 16,423	22,621 15,364	Banff	17,084 646,100	17,854 627,723
Preston	22,301	25.868	Campose	15,199	16,038
Renfrow	1 26.703	25,868 30,719	CalgaryCamroseDrumheller	19,376 517,593	20.521
St. Catharines	99,104	109,416	Edmonton	4 517,593	554,472 11,718
St. Catharines St. Marys St. Thomas	16,174	17,858	Grande Prairie	12,098	11,718
St. Thomas	61,422 63,641	65,966 69,933	Lacombe Lethbridge	10,598 73,471	11,476 75,460
Sault Ste. Marie	67,576	68,807	Medicine Hat	40,109	40,821
Seaforth	9,666	10,486	Medicine Hat	18,303	20,864
Simcoe	36,475	40,573	Vegreville	10.654	11,408
Smithe Falls	26,291	27,509	Vermilion	10,090 13,742	11,498 14,812
Stratford Strathroy	66,940 12,424	73,414 13,595	wetaskiwin	13,742	19,812
Sudbury	79,086	75 493	Totals for Province	2.247.719	2,349,149
Thorold	11,306	11.406		ì———	
Titlsouburg	14.856	17,284 48,979	British Columbia.		İ
Timmins	36,645 6,924,340	7,356,069	Chilliwack	17 691	21,064
Trenton	20,491	22,021	Cranbrook	17,821 20,726	21,570
Walkerton	11,328	12,524	Duncan	18,557	20,095
Wallaceburg	(13,243	13.916	Fernie	14,468	15,488
Waterloo	44,710	49,091	Kamloops	34,914 24,841	39,012
Welland Weston	40,503 24,408	41,821 24,346 14,865	Kelowna Nanaimo	28,895	27,468 30,709 47,413
Whithy	14,090	14,865	Nelson	44,083	47,413
Windsor	447,319	451,515	New Westminster	93,962	96,487
Wingham	11,395	12,015 57,979	PentictonPort Alberni	20,832 10,705	24,265 11,539
Woodstock	56,551	57,919	Powell River	16,540	15,856
Totals for Province	14,252,437	15, 302, 577	Prince George	12,243	13,933
			Prince George Prince Rupert	12,243 36,747	33,835
Maniteba.	1		Revelstoke	15,821 10,029	16,320 10,544
Brandon	102,806	99,432	Rossland Salmon Arm	9,510	10,344
Dauphin	21.476	24.341	Trail	25.193	3.4.630
Flin Flon	l 10.070	24,341 10,278 11,875	Vancouver	1,406,935 82,773	1,431,830
Neepawa	10,548	11,875	Vernon	82,773 289,429	1,431,830 33,976 815,357
Neepawa Portage la Prairie. St. Boniface.	27,982 17,992	29,882 16,930	Victoria	209,929	010,007
The Pas	1 34 447	19,369	Totals for Province	2,739,845	2,852,822
Wawanesa	11,029	13,802			
Winnipeg	11,029 3,247,674	3,114,066	Yukon,		
Totals for Province	3,994,111	3,888,853	10800.		
Saskatchewan.	\		Tetals for Yuken	12,265	18,683
	40 700	0 742	Summary.		
Assiniboia	10,702 10,811	9,743 11,181	Prince Edward Island	161,026	179.860
Biggar Estevan	19,114	18,589	Nova Scotia	1,401,929	1,486,815
Humoorus, , , , , , , , , , , , , , , , , , ,	10,100	12.648	New Brunswick	1.331.383	1.342.720
Lloydminster	12.632	14,347	QuebecOntario	7,431,940 14,292,437	7,544,313 15,302,677
Meliort	14,574 14,866	15.234 14.153	Manitoba	3.994,111	18,502,077
Moose Jaw	118,831	113,634	Saskatchewan	Z,860,172	3,888,853 2,893,555
Moose Jaw North Battleford	30,919	34,045	AlbertaBritish Columbis	2.247,719	2,340,109
Prince Albert	1 51,725	54,268	British Columbia	2,739,845	2,852,022
Regina	922,395 10,897	946,350 10,852	Yukon	12,265	13,083
Saskatoon	339,841	342,953	Totals for Canada	26,472,827	37,843,907
- The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	,			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,-

82.—Revenue and Expenditure of the Post Office Department for the quinquennial fiscal years ended 1890-1910, and fiscal years ended Mar. 31, 1911-32.

Note.—For all other years since Confederation, see 1911 Year Book, p. 288	Note	-For all other	vears since	Confederation.	see 1911	Year Book n 288.	
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Fiscal Year.	Net Revenue. ¹	Expendi- ture.	Deficit.	Surplus.
	\$		•	\$
1890 1895 1900 1905 1910	2,792,790 3,188,984 5,125,373	3,074,470 3,593,647 3,645,646 4,634,528 7,215,337	717,081 800,857 461,662	490, 845 743, 210
1911 1912 1913 1913 1914	10,482,255 12,060,476 12,956,216	7,954,223 9,172,035 10,882,805 12,822,058 15,961,191	2,914,541	1,192,729 1,310,220 1,177,671 134,158
1916	20,902,384 21,345,394 21,602,713	16,009,139 16,300,579 18,046,558 19,273,584 20,774,385	-	2,849,271 4,601,805 3,298,836 2,329,129 3,675,532
1921 1922 1923 1923 1924	26,554,538 29,262,233	24, 661, 262 28, 121, 425 27, 794, 502 28, 305, 937 29, 873, 802	1,566,887 - 1,291,809	1,669,857 1,467,731 794,555
1926. 1927. 1928. 1929.	29,378,697 30,529,155 31,170,904	30,499,686 31,067,698 32,379,196 33,483,058 35,036,629	1,629,001 1,850,041 2,312,154 2,067,336	524,778
1931		36,292,603 34,448,986	5,876,496 1,972,382	

^{1 &}quot;Net Revenue" is exclusive of salaries and allowances to postmasters and some other smaller items. The gross revenue in the fiscal year 1931 was \$37,468,252 and in 1932, \$39,276,248.

Auxiliary Services.—The auxiliary postal services—the issuing of money orders (including postal notes) and the facilities offered by the Post Office savings banks—have expanded enormously since Confederation. In 1868, there were 515 money order offices in operation, issuing orders to an amount of \$3,342,574. In 1932 the number of offices had increased to 6,414, while the value of orders issued was nearly 40 times as large as in the earlier year. In the following tables, illustrating the use of money orders and postal notes, it will also be noticed that the large number of 14,324,715 money orders, representing a value of \$132,625,260, was issued during 1932. The number of postal notes received and paid was 7,227,262, with a value of \$12,629,304. It may be added that postal notes are issued payable to bearer and are in general use for the transfer of small sums, while money orders are payable to order at a designated post office. Statistical tables showing deposits with the Government savings banks since Confederation and combined business of Post Office and Dominion Government savings banks, 1927-32, are included in the chapter on Currency and Banking.

83.—Operations of the Money Order System in Canada, fiscal years ended Mar. 31, 1911-32.

Norz.-For 1868 to 1910, see Canada Year Book, 1911, p. 289. For 1901-10, see 1932 Year Book, p. 622.

Fiscal Year. Off	Money Orders Orders Issued in Canada.	Value of Orders	Payab	Value of Orders Issued in other		
		Issued in Canada.	Canada.	Other Countries.	Countries, Payable in Canada.	
	No.	No.	\$	\$	\$	\$
1911	3,501	4,840,896	70,614,862	45, 451, 425	25, 163, 437	8,664,557
	3,673	5,777,757	84,065,891	52, 568, 433	31, 497, 458	8,712,667
	3,923	8,698,563	101,153,272	61, 324, 030	39, 829, 242	9,081,627
	4,274	7,227,964	109,500,670	66, 113, 221	43, 387, 449	9,807,313
	4,499	6,990,813	89,957,906	64, 723, 941	25, 233, 965	9,707,383
	4,690	7,171,375	94,469,871	75, 781, 582	18, 688, 289	9,868,137
	4,810	8,698,502	119,695,535	97, 263, 961	22, 431, 574	9,704,610
1918	4.930	9,919,665	142,959,167	116,764,491	26, 194, 676	9,385,627
1919	4,953	9,100,707	142,375,809	116,646,096	25, 729, 713	10,351,021
1920	5,106	9,947,018	159,224,937	135,201,816	24, 023, 121	10,050,361
1921	5, 197	11,013,167	173,523,322	155,916,232	17,607,090	6,680,971
	5, 266	10,031,198	139,914,186	124,316,726	15,597,460	5,515,069
	5, 337	11,098,222	143,055,120	126,617,350	16,437,770	8,986,041
	5, 472	12,561,490	159,855,115	141,620,372	18,234,743	13,508,396
	5, 578	13,435,448	163,519,320	145,769,761	17,749,559	13,957,613
1926. 1927. 1928. 1929.	5,706 5,797 5,923 6,066 6,209	14,784,230 15,760,994 17,505,563 17,210,316 17,525,979	177,840,231 188,219,777 200,773,403 203,129,237 197,699,353	158,844,831 167,206,859 177,880,036 179,833,100 174,285,024	18, 995, 400 21, 012, 918 22, 893, 367 23, 296, 138 23, 414, 329	15,600,917 15,532,673 15,398,181 14,096,027 14,016,240
1931	6,401	16,313,134	167,749,651	149,012,359	18,737,292	12,906,487
1932	6,414	14,324,715	132,625,260	121,391,212	11,234,048	9,097,086

Attention may be drawn to the excess of the value of money orders issued in Canada for payment in other countries over the value of money orders issued outside for payment in Canada. This difference (about \$2,137,000 in 1932 and about \$33,580,000 in 1914) represents to a large extent remittances made by immigrants and to travellers in foreign countries. It is an indication, at least, of the large amounts sent out from Canada, and is an essential figure in the computation of our balance of international payments.

84.--Money Orders, by Provinces, and Total Postal Notes, fiscal years ended Mar. 31, 1928-32.

Province.	1928.	1929.	1930.	1931.	1932.
Money Order Offices in—	No.	No.	No.	No.	No.
Canada	5,923	6,066	6,289	6,401	6,414
Prince Edward Island	68 385	68 387	70 400	72 421	7: 42:
New Brunswick	284	281	265	306	300
QuebecOntario	1,254 1,653	1,291 1,676	1,330 1,681	1,370 1,696	1,37 $1,68$
Manitoba	402	414	435	450	45
Saskatchewan	805 i 577 i	833	853	891	89
AlbertaBritish Columbia	487	609 499	643 505	673 515	67- 52-
Yukon	" is l	- 8	77	7 ا	920
E000A . 471					

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84.—Money Orders, by Provinces, and Total Postal Notes, fiscal years ended Mar. 31, 1928–32—concluded.

				_	
Province.	1928.	1929.	1930.	1931.	1932.
Money Orders Issued in—	No.	No.	No.	No.	No.
Canada Prince Edward Island Nova Scotia New Brunswick Quebec. Ontario Manitoba Saskatchewan Alberta. British Columbia Yukon	17,565,543 132,449 1,082,898 625,937 2,680,292 4,814,717 1,251,054 3,476,742 2,128,610 1,302,149 10,715	17, 216, 316 133, 302 1, 082, 210 658, 700 2, 614, 493 4, 674, 538 1, 240, 124 3, 280, 063 2, 149, 257 1, 365, 931 11, 698	17,525,979 151,000 1,177,126 6,631 2,859,337 4,813,685 1,240,430 3,057,750 2,056,748 1,431,630 11,642	16,313,134 151,811 1,134,996 689,993 2,698,723 4,587,967 1,139,338 2,653,994 1,848,114 1,396,018	14,324,715 128,996 1,008,232 566,527 2,261,175 4,006,994 1,013,23 2,331,567 1,760,455 1,235,615
Value of Money Orders Issued in-	\$	\$			\$
Canada Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia. Yukon	286, 773, 403 1, 558, 411 11, 498, 537 7, 272, 069 27, 320, 599 53, 829, 608 14, 024, 147 41, 740, 502 27, 807, 168 15, 986, 960 235, 401	243, 129, 227 1,577, 370 11,755,770 7,508,412 27,915,322 53,392,573 14,362,604 41,087,022 28,605,695 16,764,171 260,298	197, 699, 353 1,711, 244 12,746,149 8,236,195 29,319,688 53,684,637 13,771,051 35,195,400 25,212,265 17,570,164 252,565	167,749,651 1,691,838 11,722,636 7,408,955 26,450,676 47,294,433 11,531,293 26,142,693 19,580,975 15,727,240 248,907	132, 625, 268 1, 295, 973 9, 514, 229 5, 515, 290 20, 553, 982 37, 497, 963 9, 006, 233 19, 888, 827 17, 050, 391 12, 098, 869 203, 553
Money Orders Paid in-	No.	No.	No.	No.	No.
Canada Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon	3,469,756 1,890,988	15,828,745 50,295 641,589 1,045,897 2,372,736 4,929,503 3,462,363 1,957,848 767,880 699,147 1,447	16,261,451 55,522 670,986 1,148,453 2,760,896 4,850,156 3,337,598 1,833,069 831,021 736,320 1,430	15, 194, 131 57, 168 659, 447 1, 075, 018 2, 559, 951 4, 644, 032 2, 980, 702 1, 715, 563 702, 442 728, 355 1, 450	13,719,524 50,802 627,269 929,408 1,838,959 4,537,142 2,746,432 1,625,339 691,926 671,014 1,230
Value of Money Orders Paid in-			;	5	
Canada Prince Edward Island Nova Scotia New Brunswick Quebec Contario Manitoba Saskatchewan Alberta British Columbia Yukon	12,157,500 23,235,516 60,099,268	192, 439, 726 922, 183 8, 123, 644 11, 896, 720 27, 166, 302 55, 864, 338 39, 171, 93 24, 484, 599 13, 610, 889 11, 162, 557 36, 509	189, 558, 749 962, 828 8, 615, 554 12, 492, 358 30, 400, 388 54, 669, 931 35, 474, 587 21, 527, 686 13, 784, 609 11, 595, 062 35, 741	162,773,546 905,202 8,089,034 11,057,962 26,985,799 48,548,791 27,537,919 17,473,777 11,467,571 10,672,398 34,546	131, 421, 945 743, 777 6, 826, 988 8, 432, 979 18, 751, 132 41, 822, 499 22, 247, 614 14, 267, 265 9, 780, 572 8, 525, 908 23, 219
Postal Notes—		.	0 400 000	0 145 055	7 997 969
Total notes received and paid No Total value, including postage stamps affixed	7,490,169 16,678,633 179,487	7,912,970 16,670,112 184,309	8,466,055 15,578,489 188,098	8,145,855 14,681,376 179,745	7,227,262 12,629,304 157,515

Postage Stamps.—The value of the postage stamps, post cards, etc., sold during each of the latest five fiscal years, as shown in the statement of revenue in the Postmaster General's reports, was as follows: \$26,200,776 in 1928, \$26,475,541

in 1929, \$27,101,353 in 1930, \$25,769,781 in 1931 and \$27,242,715 in 1932. Receipts from postage paid in cash were as follows: \$6,068,722 in 1927, \$7,467,611 in 1928, \$8,410,255 in 1929, \$9,045,805 in 1930, \$8,887,322 in 1931 and \$9,078,136 in 1932.

Air Mail Services.—While certain curtailments have been made in the airmail system in 1932 due to the need for economy, the total poundage of mail carried by air throughout Canada showed a reduction of only about 12.5 p.c. from the preceding year, while the mileage flown showed a decrease of approximately 30 p.c., indicating a substantial increase in the poundage per mile flown.

An interesting feature of the returns is the volume of mail carried by air into the several mining districts, and there would seem to be little doubt that aerial postal communication contributes materially to the development of Canada's natural resources.

85.--Mileage Flown and Weight of Mails Carried by Air, fiscal year ended Mar. 31, 1932.

Route.	Distance.	Single Trips Scheduled.	Trips Made.	Total Distance Flown.	Weight of Mail Carried.
	miles.	No.	No.	miles.	Ib.
Amos-Chibougamau—discontinued Jan. 8, 1932. Amos-Siscoe. Leamington-Pelee Island. Moncton-Charlottetown via Summerside on eastbound trip) Moncton-Magdalen Islands. Montreal-Albany Montreal-Albany Montreal-Detroit. Toronto-Detroit. Montreal-Moncton—discontinued May, 1931. Narrow Lake-Sioux Lookout-Tuesdays. Peace River-North Vermilion. Quebec-Seven Islands. Regina-Edmontona Winnipeg-Calgary². Winnipeg-Edmonton Seven Islands-Anticosti Toronto-Buffalo—discontinued May 30, 1931. Montreal-Rimouski Special Flights. Mackenzie River Service— Fort McMurray-Fort Smith. Fort Smith-Fort Resolution. Fort Resolution-Fort Simpson Fort Simpson-Aklayik.	Heast 100 42 22 22 22 20 200 557.5 229.5 467 345 493 815.5 991.5 120 66.4 330 varied.	379 80 208 32 40 254	244 244 126 160 16 281 226 325 77 208 39 40 244 249 249 372 6 45 704 89 varied.	4,560 10,248 2,772 14,055 2,800 55,882 124,533 71,303 34,631 25,378 6,275 13,800 116,904 194,634 340,332 720 4,580 46,745 28,752 10,458	860 15, 804 14, 859 57, 395 5, 900 16, 959 24, 524 13, 128 1, 167 39, 961 17, 183 20, 115 8, 281 21, 055 40, 468 1, 804 6, 967 25, 378 54, 801 2, 343
Totals	<u></u>			1,229,021	443,501

¹ Superseded Aug. 16, 1931, by Toronto-Detroit.

Subsidies, etc.—The conveyance of mail by land, water and air entailed a total expenditure of \$14,953,113 during the fiscal year ended 1932. Land transportation (largely that by rural delivery) cost \$6,532,084, railway carriage cost \$7,161,434, conveyance by steamship cost \$256,990, while that by air cost \$1,002,-605. These amounts were paid solely for services rendered as carriers. In addition, however, considerable mail is carried, on both the Atlantic and Pacific coasts, by steamships and steamship lines which are especially subsidized by the Government. Table 86, showing amounts so paid in 1930, 1931 and 1932, follows.

² Superseded Aug. 15, 1931, by Winnipeg-Edmonton.

86.-Mail Subsidies and Steamship Subventions, fiscal years ended Mar. 31, 1930-32.

Note.—The figures in the following table were supplied by F. E. Bawden, Esq., Director of Steamship Subsidies, Department of Trade and Commerce. They appear annually in the "Public Accounts", issued by the Finance Department and represent the amounts paid in connection with contracts made under statutory authority by the Department of Trade and Commerce for trade services, including the conveyance of mails.

Service.	1930.	1931.	1932.
Atlantic Ocean—	\$	\$	\$
Canada and Great Britain. Canada and South Africa. Canada and British East Africa Eastern Canada and Brazil, Uruguay and the Argentine. To assist the carriage of livestock to Europe.	114,583	147.916	802,000 150,000
Canada and British East Africa	111,000	82,500	100,000
Eastern Canada and Brazil, Uruguay and the Argentine	110,000	120,000	100.000
To assist the carriage of livestock to Europe	-	-	43,739
rar me 19ccau—		A. 500	
British Columbia, Australia and/or China	61,600	84,700	92,400
Canada and New Zealand, on the Pacific.	100,000	100,000	988,000 100,000
Prince Rupert, B.C., and the Queen Charlotte islands	21,000	21,000	16,800
Prince Rupert, B.C., and the Queen Charlotte islands	83,000	21,000 47,100 5,000	45,900
Vancouver and ports on Howe sound	5,000	5,000	4,000
Vancouver and northern ports of British Columbia	24,800	24,800	19,840
Victoria, Vancouver, way ports and Skagway Victoria and west coast Vancouver island	25,893 15,000	25,000 15,000	25,000
Local Services—	19,000	19,000	12,000
Reddeck and Jone	10.500	10.500	10,500
Charlottetown and Pictou Charlottetown, Victoria and Holliday's Wharf. Dalhousie, N.B., and Carleton, Que Grand Manan and the mainland	35,000	40,000	40,000
Charlottetown, Victoria and Holliday's Wharf	5,000	7,000	5,600
Dalhousie, N.B., and Carleton, Que	8,000	3,000	2,400
Grand Manan and the mainland	20,000	34,250	33,000
		3.600	2,880
Halliar, Canso and Guysporough	9,000	9,000	7,200
Halifar and Sharbrooks	6,000 1,500	5,884 1,485	4,754
Halifax, Canso and Guysborough. Halifax, LaHave and LaHave River ports. Halifax and Sherbrooke. Halifax, South Cape Breton and Bras d'Or Lake ports.	5,000	5,000	793
Halifax, Spry Bay and Cape Breton ports	6,000	5,000 5,942	4,000 4,800
Halifax and west coast of Cape Breton	6,000	6,000	4,800
He are Coudres and les Eboulements	, ,,,,,	1,418	2,000
Mainland, Miscou and Shippigan Mulgrave, Arichat and Petit de Grat	2,000	2,000	1,600
Mulgrave, Arichat and Petit de Grat	14,285	14,776	12,000
Mulgrave and Causo Mulgrave and Guysborough, calling at intermediate ports	27,400	27,400	21,613
Murray Bay and north shore (winter service)	13,955	14,000	10,987
Murray Day and north store (winter service)	32,900	32,900	85,290
Newcastle, Neguae and Escuminac, calling at intermediate ports on the Miramichi river and bay. Parraboro, Kingspert and Wolfville.	4.500	4,500	3,600
Parraboro, Kingsport and Wolfville	5,000	5,000	3,985
Pelee island and the mainland	11,000	10,906	8,800
Pictor, Mulgrave and Cheticamp	11.000	11,000	11,000
Pictou, New Glasgow and Antigonish Co. ports	1,000	1,000	800
Pictou, Souris and the Magdalen islands.	50,000	50,000 10,350	50,000
Port Mulgrave, St. Peters, Irish cove, and Marble mountain. Quebec, Natashquan and Harrington, and other ports on the north shore of the guif of St. Lawrence.	10,139] UGE, UL	8,280
porth chora of the suif of St. Laurance	85,000	85,000	85,000
Quebec or Montreal and Gaspé, and other ports on the south	20,000	1 50,000	60,000
shore of the gulf of St. Lawrence	60,000	60,000	60,000
shore of the gulf of St. Lawrence			,
rence	_	49,990	50,000
Rimouski and Pointe aux Outardes	12,500	ا ا	
Rivière du Loup and Tadoussac, and other north shore ports	14,625	14,647	12,000
St. Catherine's bay and Tadoussac	5,000	5,000 2,000	4,000 1,600
Saint John and Bridgetown	2,000 1,000	1,000	800
Saint John, and Bear River and other way ports. Saint John and Bridgetown. Saint John and Digby. Saint John, Digby, Annapolis and Granville. Saint John and Margaretville, and other ports on the bay of	15,000	15,000	12,000
Saint John, Digby, Annapolis and Granville	2,000	2,000	1,600
Saint John and Margaretville, and other ports on the bay of	-,	}	
F GUUY	4,500	4,500	3,471
Saint John and Minas Basin ports	5,000	5,000	5,000
Saint John and St. Andrews, calling at intermediate ports Saint John, Westport and Yarmouth, and other way ports	4,000	4,000	3,200
Saint John and Weymouth	18,000 1,500	18,000	14,400 375
Saint John and Weymouth Summerville, Burlington and Windsor, N.S.	500 .	488	400
Sydney and Bay St. Lawrence, calling at way ports	18,000	27,227	20.000
Sydney and Bay St. Lawrence, calling at way ports	.,	· ·	
of Cape Breton	18,000	18,000	13,569
Sudney and Whysecomenh	16,000	16,000	16,000
Grant to the province of British Columbia for the improvement	3,000		
Grant to the province of British Columbia for the improvement of the mail service on inland waters in that province Inspection of subsidized steamship services.	3,000 4,294	4.962	4,998
The beautiful of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of substance of s	1,001		4,780
Totals.,,	1,083,436	1,322,745	2,998,724
	,,,,,,,,	,,	,,

CHAPTER XIX.—LABOUR AND WAGES.1

PART 1.—LABOUR.

Section 1.—Occupations of the People.

The occupations of the people of a country are at any given time mainly determined by its natural resources and the stage which has been reached in their develop-The outstanding characteristics of Canada are its enormous extent, its immense natural resources and the comparatively slight development of these. only the resources of the southern portions being as yet at all well-known. The developed areas fall into four economic units with quite distinct physical characteristics: first, the Maritime Provinces, where lands, forests, mines and fisheries are the chief natural resources; secondly, Ontario and Quebec, with lands, forests, mines and abundant water power for manufacturing purposes; thirdly, the Prairie Provinces, where the land is the chief natural resource, except in Alberta which contains immense coal deposits: lastly, British Columbia, with fisheries, forests and mines. where agriculture plays a comparatively minor part. When the country as a whole is considered, the immense fertile areas of arable land must be considered as its chief natural resource, but in different parts of its vast expanse other resources predominate and give the key to the chief occupations of the people.

In Canada, as in other new countries, the labouring population (using the term in its widest sense) bears a larger proportion to the total than is the case in older civilizations where there exists more realized wealth. In addition to our native-born workers, great numbers of young males and smaller numbers of females, who have nothing to sell but their personal services, have, in the past, immigrated from older countries to Canada to find here a better market for their labour. Thus both the sex distribution and the age distribution of the population of Canada is rendered somewhat abnormal, an unusually large percentage of that population being of working age and of the male sex—that is, of the sex which is most generally gainfully employed.²

The Labour Force of Canada in 1931.—In 1931, out of a total population in the nine provinces of 8,159,095, 10 years of age and over (including 3,668 of unstated ages), 3,924,533 or $48 \cdot 1$ p.c. were gainfully employed, as compared with 3,173,169 or $47 \cdot 5$ p.c. in 1921, 2,723,634 or $49 \cdot 4$ p.c. in 1911, 43.9 p.c. in 1901 and $44 \cdot 5$ p.c. in 1891.

Male Labour in 1931.—Of the male population in the nine provinces 10 years of age and over in 1931 of 4,252,537, 3,258,614 or 76.6 p.c. were gainfully employed, as compared with 2,683,019 or 77.5 p.c. in 1921, 2,358,813 or 79.5 p.c. in 1911, 74.2 p.c. in 1901 and 76.6 p.c. in 1891. Thus the latest census shows a decrease in the proportion of males gainfully employed, a decrease probably due partly to a later age at school leaving, partly to a change in the age distribution of the male population 10 years of age and over, a larger percentage of the total being at relatively

[&]quot;The sections and subsections of this chapter, with the exceptions of Sections 1, 3, 7 and Section 9, Subsection 3, all of Part I, have been revised by, or under the direction of, H. H. Ward, Deputy Minister, Department of Labour, Ottawa. The information in Section 3, Part I, has been obtained through the courtesy of the Provincial Departments of Labour or Bureaus of Labour, and that in Section 7, Part I, has been revised by the chairmen of the respective provincial Workmen's Compensation Boards.

3On the sex distribution of the population, see pp. 103-111; on the age distribution, see pp. 114-116.

advanced ages, and a smaller percentage in the younger groups. For example, $5 \cdot 5$ p.c. of the males of Canada were over 65 years of age in 1931 as compared with $4 \cdot 7$ p.c. in 1921.

Female Labour in 1931.—Of the female population of 10 years and over in the nine provinces, numbering altogether 3,906,522 in 1931, 665,919 or 17·0 p.c. were then gainfully employed, as compared with 490,150 or 15·2 p.c. in 1921, 364,821 or 14·3 p.c. in 1911, 12·0 p.c. in 1901 and 11·1 p.c. in 1891. Thus the tendency for women to go increasingly into gainful occupations, which has been noticeable since 1891, continues.

1.—Persons Engaged in Gainful Occupations in Canada, by Sex and Occupation, 1931.

0	Canada.			
Occupation.	Male.	Female.	Total.	
Agriculture	1.103.542	24,225	1,127,767	
Forestry, Fishing, Trapping	96.684	818	97.50	
Mining, Quarrying, Oil and Salt Wells.	71.584	427	72.011	
Manufacturing—Total	520,829	110.372	631, 201	
Vegetable Products	61,138	16,618	77.75	
Animal Products	43,317	11,129	54.446	
Textile Products	48,781	48,950	97,73	
Wood and Paper Products: Printing, etc	140.312	14.528	154.84	
Iron and its Products	139,336	6,616	145,95	
Non-Ferrous Metal Products	31,912	5,100	37,01	
Non-Metallic Mineral Products.	31,181	1,844	33,02	
Chemical and Allied Products	12,864	2,926	15,79	
Miscellaneous Products	11,988	2,661	14,641	
Electric Light and Power	17,481	1,472	18,95	
Electric Light and Power. Construction (including Carpentry, Plumbing, etc.)	254, 285	1,806	256,09	
Transportation and Communications (not postal service)	282,788	23,421	306,20	
Trade—Total	301,977	84,904	386,88	
Retail	249,944	76,081	326,02	
Wholesale	51,894	8,801	60,69	
Wholesale-Retail Dealing	139	22	16	
Finance	67,319	24,974	92,29	
Service—Total	376,731	389,525	766,25	
Professional	97, 143	146,166	243,30	
Public Administration, n.e.s.—				
Federal and Provincial	52,900	12,459	65,35	
Municipal	47,961	2,905	50,86	
Other	330	138	46	
Recreational	13,788	2,421	16,20	
Custom and Repair	62,448	18,594	81,04	
Business Service	4,861	1,730	6,59	
Personal Service	97,300	205, 112	302,41	
Other	165,394	3,975	169,36	
Totals, All Occupations	3,258,614	665,919	3,924,53	

Section 2.—The Dominion Department of Labour.

The Department of Labour of the Dominion Government was established in 1900 under the authority of the Conciliation Act, 1900 (63-64 Vict., c. 24). Its chief duties originally comprised the administration of certain provisions of this Statute designed to aid in the prevention and settlement of labour disputes, the administration of the Government's fair wages policy for the protection of workmen employed on Dominion Government contracts and on works aided by grants of public funds, the collection and classification of statistical and other information relative to conditions of labour, and the publication of a monthly periodical known as the Labour Gazette. From 1900 to 1909 the Department was administered by the Postmaster General, who was also Minister of Labour. It was constituted a separate Department under the Labour Department Act, 1909 (R.S.C., 1927, c. 111).

The work of the Department was greatly increased in 1907 by the passage of the Industrial Disputes Investigation Act (R.S.C., 1927, c. 112). At present the Department is also charged with the administration of an Act passed in 1918 known as the Employment Offices Co-ordination Act (R.S.C., 1927, c. 57), the Government Annuities Act of 1908 (R.S.C., 1927, c. 7), the Technical Education Act enacted in 1919 (R.S.C., 1927, c. 193), the White Phosphorus Matches Act of 1914 (R.S.C., 1927, c. 128), the Combines Investigation Act of 1923 (R.S.C., 1927, c. 26), the Old Age Pensions Act of 1927 (R.S.C., 1927, c. 156), the Fair Wages and Eight Hour Day Act of 1930 (20-21 Geo. V, c. 20), the Vocational Education Act, 1931 (21-22 Geo. V., c. 59), the Unemployment and Farm Relief Act, 1931 (21-22 Geo. V, c. 58), the Unemployment and Farm Relief Continuance Act, 1932 (22-23 Geo. V, c. 13) and the Relief Act, 1932 (22-23 Geo. V, c. 36). The scope of the Department has increased in other directions, especially in investigating the cost of living, and in connection with the International Labour Organization of the League of Nations. For a report of the operation of the Old Age Pensions Act, see p. 780 and for the proceedings under the Combines Investigation Act, 1923, see p. 790. For the operation of the Government Annuities Act of 1908 and the Technical Education Act, see the chapters on Insurance and Education, respectively.

Industrial Disputes Investigation Act.—The Industrial Disputes Investigation Act (R.S.C., 1927, c. 112), has attracted considerable favourable attention from legislators and publicists throughout the world. As enacted in 1907, it forbids strikes and lockouts in industrial disputes affecting mines and public utilities until the matters in dispute have been dealt with by a board of conciliation and investigation consisting of three members, two appointed by the Minister of Labour on the recommendation of the respective parties to the dispute, the third on the recommendation of the first two, or, if they fail to agree, by the Minister himself. After their report has been made, either of the parties to the dispute may reject it and declare a strike or a lockout, a course adopted, however, only in a small percentage of cases. The machinery of the Act may be extended to other industries with the consent of the parties concerned. In January, 1925, a judgment was rendered by the Judicial Committee of the Privy Council declaring that the Act as it stood was not within the competence of the Dominion Parliament. At the ensuing session of Parliament amendments were made to the Statute, with the object of limiting its operation to matters not within exclusive provincial jurisdiction. It was also provided by these amendments that the Statute should apply in the case of "any dispute which is within the exclusive legislative jurisdiction of any Province and which by the legislation of the Province is made subject to the provisions of this Act".

The Legislatures of all provinces except Prince Edward Island have taken advantage of this provision and enacted enabling legislation, by which the Dominion Industrial Disputes Investigation Act becomes operative in respect of disputes of the classes named in the Dominion law and otherwise within exclusive provincial jurisdiction.

A review of the proceedings under the Industrial Disputes Investigation Act from its enactment in March, 1907, to Mar. 31, 1932, shows that during the 25 years 772 applications were received for the establishment of boards of conciliation and investigation, as a result of which 515 boards were established. In all but 38 cases, strikes or lockouts were averted or ended.

^{&#}x27;See p. 241 of the Labour Gazette for February. 1925, for text of judgment of the Judicial Committee of the Privy Council in regard to the validity of this Statute.

Fair Wages Branch.—The Fair Wages Branch of the Department of Labour is charged with the preparation of fair wages conditions and schedules of minimum wage rates, which are inserted in Dominion Government contracts and must be adhered to by contractors in the execution of such works. The number of fair wages schedules prepared, from the adoption of the Fair Wages Resolutions in 1900 up to the end of the fiscal year 1931-32, was 5,870. The number of fair wages schedules and clauses furnished during the fiscal year 1931-32 was 272.

The fair wages policy of the Government of Canada was originally based on a resolution adopted by the House of Commons in 1900 and expressed in an Order in Council adopted on June 7, 1922, and amended on April 9, 1924. As drawn up by Order in Council it was applied to contracts for building and construction operations, also to contracts for the manufacture of certain classes of Government supplies. The policy required that the current wage rates and working hours of the district should be observed in the case of all workmen employed, or if there were no current rates or hours in existence, then fair and reasonable conditions in both respects. Contracts for railway construction to which the Dominion Government has granted financial aid, either by way of subsidy or guarantee, are likewise subject to fair wages conditions. The policy has, moreover, been extended within recent years to cover contracts for works carried out by the several Harbour Commissions and aided by grant of public funds.

An Order in Council passed on Dec. 3, 1929, provided for the payment of current wage rates to workmen employed in the construction, alteration, extension, maintenance and operation of works for the utilization of water powers under licence from the Dominion Government. The Fair Wages Clause was also inserted in an agreement made by the Dominion Government with a paper company for the cutting of pulpwood in Manitoba, under which the company agreed to pay to those employed in the industry wage rates not less than those generally accepted as current in each trade or occupation in similar industries, and to maintain conditions of labour not less favourable than those prevailing in similar industries in the district.

On May 30, 1930, an Act of Parliament was adopted, known as the Fair Wages and Eight Hour Day Act, 1930, which provides for the payment of current wage rates to all persons employed on contracts made with the Government of Canada for works of construction, remodelling, repair or demolition, provided that the wages in all cases shall be fair and reasonable. This Statute also directed that the working hours of persons while so employed shall not exceed eight hours a day. It was further declared that the foregoing conditions are to be applied to all workmen employed by the Government itself on the construction, remodelling, repair or demolition of any work.

On Mar. 27, 1930, an Order in Council was passed providing that, except in cases where the work of employees was intermittent in character, or the application of the rule was not deemed to be practicable, or in the public interest, the hours of work of any Dominion Government employees who had up to that time been required to work more than eight hours daily should be reduced to eight hours a day, with a half holiday on Saturday.

The Department of Labour is frequently consulted by other Departments of the Government regarding the wage rates to be observed in connection with work undertaken on the day labour plan. Labour Gazette.—A monthly publication, known as the Labour Gazette, has been issued by the Dominion Department of Labour since its establishment in 1900. It contains a monthly review of the industrial situation in Canada and of the state of employment, including reports of the operations of the Employment Service of Canada in the various provinces, also information relative to: labour legislation, wage rates and hours of labour, wholesale and retail prices of staple commodities in Canada and other countries, labour disputes (including the proceedings under the Industrial Disputes Investigation Act), industrial accidents, legal decisions affecting labour, industrial training and technical education, proceedings under the Combines Investigation Act, and other matters of general or current industrial interest. The Labour Gazette is widely distributed throughout Canada, and the statistical and other information contained therein is constantly used in connection with wages and other issues between employers and workers. A subscription charge of 20c. per annum is made for this publication.

Labour Legislation.—Much attention is devoted to labour legislation. Information as to new laws enacted by the Dominion and the provinces is kept up to date, while notes or articles regarding their provisions are published in the Since 1917, the Department has published annual reports containing the text of Canadian labour laws enacted during each year, together with an introduction summarizing this legislation under subject headings. The first of these reports was based on Dominion and provincial labour legislation as existing at the end of 1915. Reports on the labour laws enacted in the four succeeding years were published in regular order. In 1920 a further consolidation was brought out and annual reports supplementary thereto were issued in 1921, 1922, 1923, 1924. 1925 and 1926. A third consolidated report on labour legislation, containing the texts of the Dominion and provincial labour laws up to the end of 1928, was issued in 1929. Annual supplements containing labour laws of subsequent years were issued in 1930, 1931 and 1932, respectively. The Department of Labour has also published articles dealing with various provincial labour laws, indicating the extent to which these have been standardized and the differences which exist.

Joint Industrial Councils.—One section of the report of the Royal Commission of 1919 on Industrial Relations dealt with shop committees and industrial councils, the commissioners urging the adoption in Canada of the principles underlying Whitley Councils and kindred systems. The subject was also discussed at the National Industrial Conference of 1919. The committee to which the matter was referred made a unanimous report, urging the necessity for greater co-operation between employer and employee and stating their belief that this end could be furthered by the establishment of joint industrial councils.

Under Order in Council P.C. 2232 of Dec. 22, 1928, there was established an Advisory Committee on the Civil Service Superannuation Act to advise the Treasury Board in respect to matters incidental to the administration of the Act. This Committee is composed of five representatives named by organizations of civil servants and five named by the Government, of whom three are named by the Department of Finance, one by the Department of Insurance and one by the Department of Justice. The Committee began its sessions in January, 1929, and is still functioning in connection with matters affecting the superannuation of public employees.

Section 3.—Provincial Labour Departments and Bureaus.

The rapid industrial development at the end of the nineteenth century in Quebec and Ontario, the leading manufacturing provinces, brought with it the recognition of the need of special provincial offices to safeguard the interests of labour, with the result that the Ontario Bureau of Labour was established in 1900 and the Quebec Department of Public Works and Labour in 1905. In 1904 an Act was passed in New Brunswick providing for a Bureau of Labour, but this never became operative. Some years later, to cope with conditions created by the growth of industry in the West, Acts were passed providing for the creation of Provincial Bureaus of Labour in Manitoba (1915), in British Columbia (1917), in Saskatchewan (1920), and in Alberta (1922). A Department of Labour was established in Nova Scotia by c. 3 of the Statutes of 1932.

The Nova Scotia Department of Labour.—The Act establishing the Nova Scotia Department of Labour provides that "the Department of Labour shall take cognizance of all matters relating to labour and shall administer such affairs, matters, Acts and regulations as the Governor in Council from time to time assigns to that Department, whether or not the same have been assigned or have belonged by or under any Act of the Legislature of Nova Scotia or otherwise to some other Department or to some member of the Executive Council".

The Department is in charge of a Minister of Labour, who has under him a Secretary of Labour. The latter is empowered to collect and publish information and statistics affecting labour, and to administer such Acts as may be assigned to the Department by Order in Council. At present, labour bureaus in the province and the administration of the Factories Act have been assigned by Order in Council to the Department of Labour.

The Quebec Department of Labour.—This Department was formerly known as the Department of Public Works and Labour, each division having a separate Deputy Minister, but at the session of 1931 the Legislature created each division a distinct department.

Its duties include the institution and control of inquiries into important industrial questions and those relating to manufactures, and it may collect useful facts and statistics relating thereto, to be transmitted to the Quebec Bureau of The Department is charged with the administration of provincial Statistics. Acts respecting trade disputes, factory inspection, maintenance of fair wage clauses in Provincial Government contracts, superintendence of licensed registry offices for domestic workers, inspection of boilers and foundries, prevention of fires, establishment and maintenance of provincial employment offices, the issue of educational certificates to wage-earners under 16 years of age, together with the inspection of heating installations, steam, hot-water and hot-air furnaces. The Department's functions also include the qualification of electricians and contractors in that line of business, the qualification of stationary engineers and firemen, and the inspection of boilers registered under the Interprovincial Code, together with the registering of the blue prints in connection with the construction of boilers. The Department publishes annual reports outlining the work performed.

The Department of Labour of Ontario.—The Department of Labour of Ontario was established in 1919 and placed under the direction of a Minister and a Deputy Minister of Labour. This Department had its origin in the Bureau of Industries formed in 1882 under the Department of Agriculture, to collect and

publish statistics relating to the industries of the province and (later) to administer the first Factory Act of 1886. In 1900 a Bureau of Labour, attached to the Department of Public Works, was authorized to collect and publish information relating to employment, wages and hours, strikes, labour organizations and general conditions of labour. Several investigations were made regarding such matters and the first free employment offices were opened by the Bureau of Labour. In 1916 this Bureau was in turn superseded by the Trades and Labour Branch, also under the Ministry of Public Works but administered by a Superintendent. The establishment of the Branch had been recommended by the Ontario Commission on Unemployment and the expansion of the work undertaken by the Branch, and the increase in the demands made upon its resources led to the creation of a special Department of the Government by the Department of Labour Act, 1919.

The Department of Labour administers the following Acts: The Department of Labour Act; The Factory, Shop and Office Building Act; The Steam Boiler Act: The Operating Engineers Act: The Building Trades Protection Act: The Employment Agencies Act; The Apprenticeship Act; The Regulations respecting the Protection of Persons working in Compressed Air: The Regulations respecting the Protection of Persons working in Tunnels and Open Caissons; The Minimum Wage Act. The Department is required to maintain employment offices, to collect information respecting employment, sanitary and other conditions in work places. wages and hours of work, and to study labour legislation in other parts of the British Empire and in foreign countries, as well as any suggested changes in the labour laws of Ontario. The representatives of the Department of Labour have right of access to offices, factories and other work places at any reasonable hour, and may be authorized to hold inquiries under the Public Inquiries Act. The Department publishes annual reports which cover the work of the officers employed in the administration of the various Acts assigned to it. The Minimum Wage Act is administered by the Minimum Wage Board.

Manitoba Bureau of Labour.—The Act of 1915, establishing the Manitoba Bureau of Labour, provided that it be attached to the Department of Public Works; an amendment of 1922, however, provided for its attachment to any other Department, as the Lieutenant-Governor in Council may determine.

The Bureau is established to co-operate with employers, trade unions and others. It is charged with the enforcement of the following Acts: The Manitoba Factories Act; The Bake Shops Act; The Building Trades Protection Act; The Fair Wage Act; The Electricians' Licence Act; The Elevator and Hoist Act; The Shops Regulation Act; The Public Buildings Act; The Minimum Wage Act; The Steam Boiler Act; the licensing of cinematograph projectionists under The Public Amusements Act; The Fires Prevention Act; The One Day Rest in Seven Act.

Saskatchewan Department of Railways, Labour and Industries.—This was created as a separate Department by an Act of 1928. It is administered by the Minister of Railways, Labour and Industries, assisted by a permanent Deputy Minister. The functions of the Department include the administration of the following Acts: The Factories Act and Elevator Regulations; The Steam Boilers Act; The Building Trades Protection Act; The Act protecting the payment of wages to certain employees; The Mines Safety and Welfare Act; The Minimum Wage Act; and the Order in Council respecting fair wages in government contracts, also of all matters connected with railways over which the Government of Saskatchewan by any Act may have control. It is also charged with the operation of public free

employment offices; the collection and publication of statistics relating to employment; wages and hours of labour throughout the province; strikes and other difficulties; trade unions and labour organizations; the relations between capital and labour, and other subjects connected with industrial problems; the commercial, industrial and sanitary conditions of employment; raw products of Saskatchewan and their industrial possibilities; other matters related to industrial development

Alberta Bureau of Labour.—The Act of 1922, creating the Alberta Bureau of Labour, provided that the Bureau be in charge of a Minister having under him a Commissioner of Labour. The latter is empowered to collect and publish information and statistics affecting labour, and to administer such Acts as may be assigned to the Bureau by Order in Council. Important among these Acts are: The Alberta Government Employment Bureau Act; The Minimum Wage Act; The Boilers Act; The Factories Act; The Theatres Act; The Trade Schools Act. The Bureau issues annual reports.

The British Columbia Department of Labour.—This Department was instituted by an Act of 1917, under a Minister and Deputy Minister of Labour. It administers the laws of British Columbia affecting labour, and is empowered to collect information respecting industries, wages, employment, prices, labour organizations and other data pertaining to labour problems. Prominent among the Acts under the jurisdiction of the Department are: The Minimum Wage Act for Female Employees; The Male Minimum Wage Act (passed in 1929); The Hours of Work Act; The Semi-Monthly Payment of Wages Act; The Factories Act. The Department also operates the employment bureaus within the province. The Deputy Minister of Labour is ex officio Chairman of the Board of Adjustment under the Hours of Work Act of 1923, which, with exceptions, provides for the eight-hour working day in industry; he is also Chairman of the Male Minimum Wage Board and Chairman of the Minimum Wage Board for Women. Annual reports are published by the Department, containing much information respecting labour matters.

Section 4.—Canada and the International Labour Organization.¹

The International Labour Organization of the League of Nations was set up in 1919 in accordance with Part XIII of the Treaties of Peace, to promote the improvement of industrial conditions by legislative action and international agreement.

The Organization comprises the Permanent International Labour Office in Geneva, Switzerland, and the International Labour Conference, which meets annually and is composed of four representatives of each Member State, two of whom are government delegates, while two represent the employers and the employed respectively. Fifty-eight countries are members of the International Labour Organization, including all of the important industrial countries of the world except the United States.

The International Labour Office functions as a secretariat of the annual conference, and also collects and publishes information on subjects relating to industrial life and labour. The Office is under the control of a Governing Body consisting of

On this subject see also the 1921 Year Book, pp. 607-609; 1922-23 Year Book, pp. 704-707; 1924 Year Book, pp. 666-670; 1925 Year Book, pp. 676-678; 1926 Year Book, pp. 679-681; 1927-28 Year Book, pp. 735-737; 1929 Year Book, pp. 725-727; 1930 Year Book, pp. 710-712; 1931 Year Book, pp. 753-755 and 1932 Year Book, pp. 633-634.

24 persons, appointed by the International Labour Conference, of whom 12 represent Governments, 6 represent employers and 6 represent workers. In addition to its control of the Labour Office, the Governing Body is charged with the preparation of the agenda of the annual conference.

Under the terms of the Peace Treaties, eight of the government seats on the Governing Body are held by the countries of "chief industrial importance". Canada was designated by the Council of the League of Nations as one of these eight States of "chief industrial importance". The Minister of Labour is the Government representative on this body. Mr. Tom Moore, President of the Trades and Labour Congress of Canada, is one of the six workers' representatives on the Governing Body.

The conclusions of the International Labour Conference are cast in the form of draft conventions or recommendations, addressed to the national Governments which comprise the membership of the International Labour Organization. A two-thirds majority of the Conference is required for the adoption of either a draft convention or recommendation. Under the Treaties of Peace, the Member States are bound to bring the draft conventions or recommendations before the authority or authorities within whose competence the subject matter lies, for the enactment of legislation or other action. Thus the findings of the Conference only become binding in the various countries concerned if and when action regarding them is taken by the latter.

Most of the proposals dealt with in the successive meetings of the Labour Conference since its establishment in 1919 have been adjudged by the law officers of the Crown to fall within provincial jurisdiction. The draft conventions and recommendations of the Conference have in all cases been brought to the attention of the Dominion Parliament, while those which dealt with subjects within provincial control were also referred to the Provincial Governments.

The Dominion Department of Labour is entrusted with the duties arising out of the relations of Canada with the International Labour Organization. These have entailed much correspondence, not only with the International Labour Organization but also with the different Departments of the Dominion Government, with the provinces, and with employers' and workers' organizations. Replies have also been prepared in the Department of Labour to various questionnaires issued by the International Labour Office. Performance of these duties has necessitated a close study of the different technical questions which have figured on the agenda of the various conferences and at the meetings of the Governing Body. A bulletin entitled "Canada and the International Labour Conference" has been issued by the Department of Labour, furnishing information respecting the International Labour Organization. Comprehensive articles dealing with the proceedings of the annual sessions of the International Conference have been published from year to year in the Labour Gazette. These articles contain the text of the various draft conventions and recommendations of the Conference.

Sixteen sessions of the International Labour Conference have been held. Thirty-three draft conventions and 41 recommendations have been adopted at these annual gatherings. The draft conventions and recommendations of the Conference have, among other subjects, related to the following: hours of labour, measures for the avoidance of unemployment, employment conditions of women and children, employment conditions of seamen, employment in agriculture, weekly rest, statistics of immigration and emigration, principles of factory inspection, inspection of emigrants on board ship, workmen's compensation for accidents and occupational

diseases, sickness insurance, minimum wages, prevention of accidents to dockers, forced labour, and regulation of hours of work of salaried employees and of workers in coal mines.

Up to Dec. 31, 1932, 489 ratifications of these conventions had been registered with the League of Nations, of which 8 were conditional or with delayed application; 51 had been approved by the competent national authority and 115 had been recommended to the competent national authority for approval.

Canadian Action on Draft Conventions and Recommendations.—The action taken by the Dominion and the Provincial Governments on the draft conventions and recommendations of the International Labour Conference has been summarized in the articles on this subject published in previous Year Books and referred to in the footnote on p. 750.

Section 5.—Organized Labour in Canada.

The Dominion Department of Labour publishes an annual report on labour organization; this sets out the various branches of unionism in existence, the principles on which they are founded, their chief activities, and statistics of the different groups comprised in the trade unions of the Dominion. Reference is also made in this annual report to the principal international labour organizations with which the organized workers of Canada are affiliated.

Trade unionism in Canada occupies a unique position, by reason of the fact that most organized workers in the Dominion are members of organizations whose headquarters are located in a foreign country, viz., the United States. In years gone by Canadian workmen who sought a livelihood in the United States greatly outnumbered those who came from that country to Canada. As industry was further developed in the United States there arose a number of unions of various crafts, and with these the Canadian workers soon became affiliated. With the development of industry in the Dominion, many of these Canadians returned to their native land, bringing with them the gospel of trade unionism and collective bargaining as a means of protecting their rights. In many instances these trade unionists become the nuclei of strong bodies of organized workers formed in Canadian cities.

The usual résumé of the origin and growth of the trades union movement in Canada has been omitted in this edition, owing to considerations of space. The interested reader is referred to pp. 712-714 of the 1930 edition of the Year Book and to "Labour Organization in Canada, 1931", published by the Dominion Department of Labour. This latter publication presents the history and present organization of trades unionism in the Dominion in a very comprehensive manner. The following paragraphs give a short sketch of the present organization of the five main groups into which Canadian labour organizations now fall.

Trades and Labour Congress of Canada.—Through the initiative of the Toronto Trades Assembly (now the Toronto District Trades and Labour Council), the first national labour organization, the Canadian Labour Union, was formed in Toronto in September, 1873. This organization held its second and third annual meetings in 1874 and 1875, but disappeared as a result of the serious depression of the later '70's. In 1883 the Trades and Labour Council of Toronto, feeling the necessity of the wage-earners of Canada having a medium through which to express

their opinions, assumed the responsibility of calling another trades and labour congress, which met in Toronto on Dec. 26, with 47 delegates. On the summons of the Toronto Council, a second meeting, with 109 delegates, assembled on Sept. 14, 1886, the first occasion on which any labour body outside of the province of Ontario was represented. A permanent organization was effected at this meeting under the name of "Trades and Labour Congress of the Dominion of Canada". This was the title of the organization until 1895, when the title "Trades and Labour Congress of Canada" was adopted in preference to "Canadian Federation of Labour". Since 1886 conventions have been held annually, the 1932 meeting in Hamilton being counted as the 48th. The Trades and Labour Congress is representative of international trade unionism in the Dominion, the bulk of its membership being drawn from the international organizations which have local branches in Canada. According to reports for 1931, the Congress received payment of per capita tax on the Canadian membership of 60 international bodies and also from two national organizations which had their entire membership in the Dominion; the combined membership was 141,137, comprised in 1,635 local branches.

All-Canadian Congress of Labour.—The All-Canadian Congress of Labour was organized Mar. 16, 1927, by labour bodies not eligible for membership in the old established Trades and Labour Congress of Canada. One of the promoters of the new body was the Canadian Federation of Labour, which was formed as a result of the expulsion from the Trades and Labour Congress of Canada of Knights of Labour assemblies and all other unions which were composed of members of crafts over which existing international organizations claimed jurisdiction. With the formation of the All-Canadian Congress of Labour the Canadian Federation passed out of existence. At the close of 1931, the All-Canadian Congress of Labour had eleven central bodies in affiliation, with a combined membership of 25,221, as well as 31 directly chartered local unions with a membership of 3,101, making a total combined reported membership of 28,322.

Membership of International Organizations in Canada.—At the close of 1931 there were 82 international craft organizations having one or more local branch unions in Canada, two less than the number recorded in 1930. These bodies among them had 1,884 local branches in the Dominion with 188,219 members. The membership of the two industrial unions with branches in the Dominion was 27,726 comprised in 51 branches. Thus the total international trade union membership in Canada at the close of 1931 was 215,945. The international craft organizations represent approximately 61 p.c. of the total of all classes of workers in the Dominion organized under trade union auspices (Table 3).

Canadian Central Labour Bodies.—There are in Canada 25 Canadian central labour bodies, 18 of which are in direct opposition to the international organizations. In some instances these Canadian central labour bodies have been formed by secessionists from international unions. The combined membership of the Canadian central labour organizations on Dec. 31, 1931, was 48,509, comprised in 606 local branches (Table 4).

Membership of Independent Units.—There are 37 independent local labour bodies in the Dominion, 36 of which had a membership of 12,099 at the end of 1931.

Federation of Catholic Workers of Canada.—During the period when the Knights of Labour operated in Quebec, there existed also four independent unions,

one of labourers and three of leather and shoe workers. Up to 1902 these several bodies were represented at the annual conventions of the Trades and Labour Congress of Canada. In that year, in an effort to eliminate a duplication of unions and bring the independent bodies under the banner of the international organizations, the Trades Congress denied them further representation. The Knights of Labour assemblies gradually disappeared, but the independent unions continued to exist. Up to the time of the expulsion by the Trades Congress of those bodies which were outside the ranks of the international organizations, there was only one Catholic union, that composed of shoe workers in the city of Quebec, which had accepted the social doctrine of the Roman Catholic Church and admitted a chaplain (a member of the clergy), this course being adopted in 1901 following the adjustment of a dispute in the shoe industry in that city by the archbishop of the diocese. Some years later, a number of other national unions were formed in the province of Quebec. all of which accepted for their guidance the declarations of Pope Leo XIII, who on May 15, 1891, issued an encyclical on "The Condition of the Working Classes", the provisions of which were subsequently proclaimed by Pope Pius X as fundamental rules for workingmen's associations. In 1918, a conference of national unions was held in Quebec city, followed by other meetings in Three Rivers in 1919 and Chicoutimi in 1920; the delegates at the latter conference, numbering 225 from 120 unions, decided to establish a permanent central body to co-ordinate the work of the scattered units. Accordingly, at the 1921 conference held in Hull, at which approximately 200 delegates representing 89 unions were present, a constitution to govern the new body was approved. The name selected was "Federation of Catholic Workers of Canada" and permanent officers were elected, the constitution and by-laws becoming effective on Jan. 1, 1922. From information at hand, there are 121 National Catholic unions with a combined membership of 25,151.

One Big Union.—Delegates from Western Canada to the Quebec convention of 1918, dissatisfied with the alleged reactionary policy of the Trades and Labour Congress of Canada, held a caucus at which it was decided to concentrate their energies towards having the Trades Congress legislate in accordance with their views. Some months later a meeting of delegates was called by the British Columbia Federation of Labour to assemble immediately following the annual convention of that body, which, for the first time in its history, met outside of the province under its jurisdiction, in Calgary. The conference assembled on Mar. 13, 1919, with 239 delegates present; the outcome of the meeting was the formation of an industrial organization, the "One Big Union". On June 11, 1919, a conference of the new body was held in Calgary to further the plans of the organization, which had a membership of 41,150 at the close of 1919. From the outset the O.B.U. met with much opposition from the old-established labour unions, represented by the Trades and Labour Congress of Canada, which was opposed to the substitution of industrial unionism for the existing system of craft unions. According to information supplied by the general secretary, the O.B.U., at the close of 1931, had 46 units under charter, one of which was located in the United States, as well as two central labour councils (bodies similar to trades and labour councils), the combined reported membership being 24,260.

Total Reported Membership of Organized Labour in Canada.—The numerical strength of organized labour in Canada at the close of 1931 was given by the Department of Labour as follows: international organizations, 1,935 local branches with an aggregate membership of 215,945; Canadian central labour bodies, 606 branches and 48,509 members; independent units, 37 with 12,099 members; National Catholic unions, 121 with 25,151 members; grand total, 2,772 local branches and 310,544 members. As compared with 1930, this represents a decrease of 37 branches and of 11,905 members. Table 2 shows by years the membership of trade unions in Canada since 1911.

2.-Membership of Trade Unions in Canada, 1911-31.

Year.	Members.	Year.	Members.	Year.	Members.
911 912	160, 120	1918 1919	378,047	1925 1926	274,064
914915	166, 163	1920 1921 1922	313,320	1927 1928 1929	300,60
916 917	160,407	1923 1924	278,092	1930 1931	322,449

International Trade Unions Operating in Canada.—Table 3 gives the names of the 82 international craft labour organizations and the two industrial unions which now carry on operations in Canada, and shows: (1) the number of branches which were in existence in the Dominion at the close of 1931, and (2) the reported membership. The reported figures in Tables 3 and 4 are given in italics where the information has been obtained from sources other than the headquarters of the indicated organization.

3.-International Trade Unions Operating in Canada.

NUMBER OF BRANCHES AND NUMBER OF MEMBERS IN CANADA, DECEMBER, 1931.

International Organization.	No. of Branches in Canada.	Reported Members in Canada.
American Federation of Labour	8	349
Asbestos Workers, International Association of Heat and Frost Insulators and	∔	19
Bakery and Confectionery Workers' International Union of America	_7	19
Barbers' International Union of America, Journeymen		1,30
Bill Posters and Billers of America, International Alliance of		500
Blacksmiths, Drop Forgers and Helpers, International Brotherhood of Boilermakers, Iron Shipbuilders and Helpers, International Brotherhood of	35	900 2.54
Bookbinders, International Brotherhood of		621
Boot and Shoe Workers' Union		1.053
Brewery, Flour, Cereal and Soft Drink Workers, International Union of the		1,000
United	15	900
Bricklayers', Masona' and Plasterers' International Union of America	57	4,38
Bridge, Structural and Ornamental Iron Workers, International Association of	13	36
Broom and Whisk Makers' Union, International	-	i
Carpenters and Joiners of America, United Brotherhood of	74	11,553
Carvers' Association of America, International Wood	1 1	22
Cigarmakers' International Union of America	5 3	183
Cloth Hat, Cap and Millinery Workers' International Union		215
Clothing Workers of America, Amalgamated	9 19	5,000 1,682
Conductors, Order of Sleeping Car	1 1	1,004
Electrical Workers, International Brotherhood of	1 43 1	3,111
Elevator Constructors, International Union of	1 7	35.

3.—International Trade Unions Operating in Canada—concluded.

International Organization.	No. of Branches in Canada.	Reported Members in Canada.
Engineers, International Union of Operating	31	1,307
Firemen and Oilers, International Brotherhood of	36 20	800
Fire Fighters, International Association of Fire Workers' Union, International Association of Garment Workers of America, United. Garment Workers' Union, International Ladies'. Glass Bottle Blowers' Association of the United States and Canada.	8	2,490 1,057
Garment Workers of America, United	6	1,250
Garment Workers' Union, International Ladies'	10	3,000
Glass Bottle Blowers' Association of the United States and Canada	6 3	122
Glass workers' Union, American Fints	"	101
Glass Workers' Union, American Flint Glove Workers' Union, International Granite Cutters' International Association of America. Hod Carriers', Building and Common Labourers' Union of America, Inter	4	100
Hod Carriers', Building and Common Labourers' Union of America, Inter	-	
national Hotel and Restaurant Employees' and Beverage Dispensers' Internationa Alliance	10	470
Alliance	11	846
Iron, Steel and Tin Workers of North America, Amalgamated Association of	i i	30
Allance Iron, Steel and Tin Workers of North America, Amalgamated Association of Jewellery Workers' Union, International Lathers, International Union of Wood, Wire and Metal Leather Workers' International Union, United Lithographers of America, Amalgamated Locangeing Engineers, Brotherhood of	2	7.2
Lathers, International Union of Wood, Wire and Metal	9	250 250
Leather workers international Union, United	7	443
Leather Workers' International Union, United. Lithographers of America, Amalgamated Locomotive Engineers, Brotherhood of. Locomotive Firemen and Enginemen, Brotherhood of. Locomotive Firemen and Enginemen, Brotherhood of. Locomotive Firemen and Enginemen, Brotherhood of. Locomotive Firemen and Enginemen, Brotherhood of. Machinets, International Association of Maintenance-of-Way Employees, Brotherhood of. Marble, Stone and Slate Folishers, Rubbers, and Sawyers, Tile and Marble Setters' Helpers and Terrazzo Workers' Helpers, International Association of. Metal Polishers' International Union. Metal Workers' International Association, Sheet. Mine Workers of America, United. Moulders' Union of North America, International Musicians, American Federation of. Painters, Decorators and Paperhangers of America, Brotherhood of. Pattern Makers' League of North America. Paving Cutters' Union of North America. Paving Cutters' Union of the United States and Canada Photo-Engravers' Union of North America, International. Plasterers' and Cement Finishers' International Association, Operative. Plumbers, Gas and Steam Fitters, United Association of Journeymen. Printers', Die Stampers' and Engravers' Union, International Plate. Printing Preesmen's and Assistants' Union, International Pulp, Sulphite and Paper Mill Workers of the United States and Canada, International Brotherhood of. Quarry Workers' International Union of North America.	101	5.671
Locomotive Firemen and Enginemen, Brotherhood of	103	6,020
Longshoremen's Association, International	10 77	1.400
Machinests, International Association of	198	8,648 17,440
Marble, Stone and Slate Polishers, Rubbers, and Sawyers, Tile and Marble	,	1.,,,,,
Setters' Helpers and Terrazzo Workers' Helpers, International Association	را ا	
Of	3 2	1 18 267
Metal Polishers International Association Sheet	17	947
Mine Workers of America, United	[] 4i	17, 100
Moulders' Union of North America, International	. 31	3,000
Musicians, American Federation of	37	5,411 1,514
Painters, Decorators and Papernangers of America, Brotherhood of	36 30	1,678
Pattern Makers' League of North America	14	275
Paving Cutters' Union of the United States and Canada	4	100
Photo-Engravers' Union of North America, International	6 18	436 1,380
Plasterers and Cement Finishers International Association of Journeymer	1 36	2,400
Printers'. Die Stampers' and Engravers' Union, International Plate	ĭ	40
Printing Pressmen's and Assistants' Union, International	. 19	4,500
Pulp, Sulphite and Paper Mill Workers of the United States and Canada, Inter	15	1,555
Ouerry Workers' International Union of North America	1 12	40
Railroad Signalmen of America, Brotherhood of	9	300
Railroad Telegraphers, Order of	. 12	8, 138
Railroad Trainmen, Brotherhood of	94 J16	13,278 13,316
Reilway and Steamshin Clerks, Freight Handlers, Express and Station	il ***	
Employees, Brotherhood of	69	4,300
Railway Conductors, Order of	.] 68	2,883
Railway, Bus and Coach Employees of America, Amaigamated Association of	26	8,549
Pulp, Sulphite and Paper Mill Workers of the United States and Canada, International Brotherhood of. Quarry Workers' International Union of North America. Railroad Signalmen of America, Brotherhood of. Railroad Trainmen, Brotherhood of. Railway Carmen of America, Brotherhood of. Railway Carmen of America, Brotherhood of. Railway and Steamship Clerks, Freight Handlers, Express and Station Employees, Brotherhood of. Railway Conductors, Order of. Railway, Bus and Coach Employees of America, Amalgamated Association of Street and Electric Retail Clerks' International Protective Association.	[] -ž	150
Roofers, Damp and Waterproof Workers	. [.	14
Seamen's Union of America, International	1 7	250
Siderographers, International Association of	38	1,188
Stereotypers' and Electotypers' Union International	10	340
Street and Electric Retail Clerks' International Protective Association Roolers, Damp and Waterproof Workers Seamen's Union of America, International Siderographers, International Association of Stage Employees, International Alliance of Theatrical Stoneouters' Association of North America, Journeymen Switchmen's Union of North America, Journeymen Tailors' Linion of America, Ourneymen	. 17	560
Switchmen's Union of North America	7 8	73 150
Tailors' Union of America, Journeymen. Teamsters, Chauffeurs, Stablemen and Helpers, International Brotherhood of Textile Workers of America, United (Including American Federation of Full	13	950
Textile Workers of America. United (Including American Federation of Ful	il	1
Fashioned Hosiery Workers)	. 2	1,000
Train Despatchers' Association, American	50	
Fashioned Hosiery Workers) Train Despatchers Association, American Typographical Union, International Upholsterers' International Union of America	4	
		-
Totale	1,884	188,219 24,260
One Big Union	46	3,466
Industrial Morkers of the Morid		
Grand Totals	1,935	215,945

Table 4 gives the number of branches and the members of Canadian central labour bodies operating in Canada at the close of 1931.

4.—Canadian Central Labour Bodies Operating in Canada. NUMBER OF BRANCHES AND NUMBER OF MEMBERS, 1931.

Organization.	No. of Branches or Affiliations.	Members Reported.
Trades and Labour Congress of Canada	42	5,739
All-Canadian Congress of Labour.	31	3,101
Amalgamated Building Workers of Canada	7	1,076
Amalgamated Carpenters of Canada	15	2,500
Amalgamated Civil Servants of Canada	88	4,644
Brotherhood of Canadian Pacific Express Employees	26	1.527
Canadian Association of Railway Enginemen	52	1.555
Canadian Association of Stationary Engineers	15	500
Canadian Brotherhood of Railway Employees	225	17,350
Canadian Carnet Weavers' Reneficial Association	5	162
Canadian Electrical Trades' Union. Canadian Ironworkers', Piledrivers' and Riggers' Union.	9 1	963
Canadian Ironworkers', Piledrivers' and Riggers' Union	1	180
Canadian Printers Union	_	36
Civil Service Association of Alberta	18	700
Dominion Railway Mail Clerks' Federation	15	926
Electrical Communication Workers of Canada	6	195
Federated Association of Letter Carriers	43	1,456
Federated Seafarers' Union of Canada	1	500
Industrial Union of Needle Trades' Workers of Canada	-	2,500
Lumber Workers' Industrial Union of Canada	30	3,500
Mine Workers' Union of Canada	16	3,131
National Association of Marine Pheneers	16	1,086
National Union of Painters, Decorators and Paperhangers of Canada	4	186
Provincial Federation of Ontario Fire Fighters	26	726
Saskatchewan Brotherhood of Steam and Operating Engineers	2	30
United Postal Employees of Canada	41	2,400
Vancouver and District Waterfront Workers' Association	1	680
Totals	679	57,349

Section 6.—Fatal Industrial Accidents.

Statistics of fatal industrial accidents have been compiled by the Dominion Department of Labour since 1903, the data being obtained from provincial Workmen's Compensation Boards, the Board of Railway Commissioners for Canada and various other governmental authorities, from departmental correspondents and from press clippings. Table 5 shows the number of fatal industrial accidents reported to the Department during each year from 1928 to 1932 inclusive. The number of fatalities in each of the different industries is also shown as a percentage of the total number. Preliminary figures show 961 fatal industrial accidents in 1932.

5.—Fatal Industrial Accidents in Canada, by Industries, 1928-32.

- · · · · · · · · · · · · · · · · · · ·	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	nber of	Patal		do	Por	onnt of	Total	A nated	
Industry.	1928.				1 1932. ¹			1930.		
Agriculture	194 176	156 235	122 175	163 76	72	10.5	13.3		6.4	7.5
Fishing and trapping Mining, non-ferrous smelting and quar- rying	260	54 234	36 258	40 158	30 123	15-5	3-1 13-2			3-1 12-8
Manufacturing. Construction Electric light and power?	201 250 387	250 298 - 366	196 324 42 327	142 217 44 205	114 122 21 191	14.9			11.9 18.2 3.7 17.3	11-9 12-7 2-2 19-9
Transportation and public utilities Trade. Service. Miscellaneous.	64 102	58 114	58 117	43 97 3	50 81 3	3.8		3·4 7·1	3·6 8·2 0·3	5·2 8·4 0·3
Totals	1,677	1,766	1,455	1,188	961	100.0	100-0	100-0		100.0

Figures subject to revision. Previously reported under Transportation and Public Utilities.

Causes of Fatal Accidents.—The classification of fatal accidents in 1932 by causes shows that the largest number, 260, came under the category "by moving trains, vehicles, etc". This includes all accidents due to cars or engines, including mine and quarry cars, and to automobiles and other power vehicles and horse-drawn vehicles, as well as accidents caused by moving implements, by moving watercraft and by aircraft. Next in order as a cause came "falls of persons", 160 in number, including those who fell from some elevation and those who fell into pits, shafts, holds of vessels, harbours, rivers, etc. "Dangerous substances" including electric current, explosives, hot and inflammable substances, gas fumes, boiler explosions, etc., caused 155 fatalities. Fatalities numbering 142 were caused by falling objects. Animals caused 44 fatalities, including 27 caused by horses. Thirty-one fatalities were caused by working machines, 25 by prime movers, 27 by striking against or being struck by objects, 16 by handling of heavy or sharp objects, 13 by hoisting apparatus, 4 by tools, 12 by infection, 24 due to industrial diseases, 11 by shooting and violence, 10 by cave-ins and 16 by lightning, frost, storms and sunstroke.

Numbers of industrial accidents, fatal and non-fatal, dealt with by the various provincial Workmen's Compensation Boards are included in the following section on Workmen's Compensation in Canada.

Section 7.—Workmen's Compensation in Canada.

An account of the development of workmen's compensation legislation in Canada from employers' liability legislation was given at pp. 744-746 of the 1927-28 Year Book, while a summary of the 1932 legislation with regard to workmen's compensation appears in the general sketch of labour legislation in Canada at pp. 787-789 of the current edition. Details regarding the operation of the various Workmen's Compensation Boards of the provinces are given below.

Operations of the Workmen's Compensation Boards.—Nova Scotia.—The Workmen's Compensation Act was passed in 1915 but only became effective on Jan. 1, 1917. During the fifteen years between that date and Dec. 31, 1931, 109,005 accidents were reported to the Board, of which 94,977 were compensated as per Table 6. Prior to Jan. 1, 1920, medical aid was only furnished in special cases.

6.—Compensation Paid and Accidents Compensated by the Nova Scotia Workmen's Compensation Board, 1917-31. (Estimates for outstanding claims not included.)

Year.	Compensation.	Medica! aid.	Total.	Accidents Compen- sated.
•	*	\$	\$	*
917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930.	503,258 826,740 629,156 1,135,235 705,752 576,906 808,560 874,478 638,787 875,940 1,052,363 1,076,074 936,210 879,828 951,258	202 491 36,561 36,296 40,147 55,484 68,740 84,122 88,978 95,089 117,682 129,399 106,578	503, 460 826, 749 629, 647 1,71,796 742, 048 617, 053 865, 044 938, 452 707, 527 960, 063 1,141, 281 1,053, 842 1,009, 227 1,057, 834	4, 83 4, 94 7, 11 4, 94 5, 02 6, 24 5, 78 6, 65 6, 65 7, 68 9, 47 8, 82 6, 35

New Brunswick.—The Workmen's Compensation Act of New Brunswick was passed in 1918. It extends to a wide range of industries, and is administered by a Board of three persons, levying assessments and paying benefits. For the sums paid out annually from 1920 as compensation and for medical aid see Table 7.

7.—Compensation Paid by the New Brunswick Workmen's Compensation Board, 1928-31.

	Weekiy	Permanent	Fa	al.	Medica	Permanent	
Year.	Compensa- tion.	mpensa- Partial Reserve		Doctors' Fees and Transport- ation.	Hospital and Nursing Service.	Total Disability Reserve.	
	\$	ş	\$	\$	\$	\$	\$
920	195,063	73,440	1,799	128,158	39,324	15,606	ļ
921	159,096	103,054	3,661	188,945	56,631	22,378	
922	132,988	84,316	2,906	124,088	76,046	31,568	
923	204,85 3	90,349	3,573	130,339	83,530	35, 935	
924	203,946	113,555	3,425	162,740	87,261	41,528	
925,.,	186,946	90.044	2,784	144,285	84,897	38,920	
926	185,624	76,780	2,033	93,838	73,149	40, 293	
927	211,692	103,430	2,427	88,299	79.481	43,994	
928	217,890	116,208	3,141	127,490	80,212	51.984	
929	243,770	99,266	3,388	137,667	85,238	59,217	-
930	199,313	92.344	2,682	116,055	77,722	54,172	6,23
931	181,676	73,774	1.581	72,481	79.021	60,183	_

Quebec.—The Quebec Workmen's Compensation Commission was established in 1928 by authority of c. 80 of the Statutes of that year. The Act was brought into force by proclamation on June 9, 1928, operations of the Commission commencing as of Sept. 1, 1928. Under this Act, the Quebec Commission did not insure employers against their liability. On April 4, 1931, a new Act was enacted by the Quebec Legislature (21 Geo. V, c. 100), effective Sept. 1, 1931, providing for state insurance, practically along the same lines as the Workmen's Compensation Act of Ontario. Table 8 shows the operations of the Quebec Commission from Sept. 1, 1928 to Dec. 31, 1932.

8.—Compensation Paid and Accidents Compensated by the Quebec Workmen's Compensation Commission, 1928-32.

Year.	Claims,	Accidents Compen- sated.	Accident Cost.
	No.	No.	\$
1928 (4 months) 1929. 1930 (8 months) 1931 (4 months) New Act. 1932 New Act.	8,266 25,610 20,900 12,420 14,803 32,345	2,625 21,377 19,850 13,204 12,717 29,587	209,764 3,229,554 3,792,346 2,758,785 1,275,323 3,104,563

Ontario.—Under the system operated by the Ontario Workmen's Compensation Board in Schedule 1, where the liability is collective, 24 classes of industries pay various percentages of their pay rolls annually to the Board and escape individual civil liability for accidents and certain specified industrial diseases. The percentage of pay roll collected by the Board is graded according to the degree of hazard in the occupation and ranged in 1931 from 15 cents per \$100 of pay roll in blue-printing to \$10 per \$100 in wrecking of buildings, erection of high metal chimneys, etc., and aerial testing. The average for all classes was \$1.18 per \$100 of pay rolls which amounted to \$389,740,000. Certain other industries under schedule 2, including municipal undertakings, railways, car shops, telegraphs, telephones, etc., are made individually liable to pay the rates of compensation fixed under the Act. Employees of the Dominion or of the province, killed or injured in the discharge of their duty, are by special legislation placed on the same footing as those of private employers of the second class.

Statistics of the benefits awarded and the accidents to workers reported during the first 18 years of the operation of the Act appear in Table 9; 43,904 accidents were paid for during the year 1932 including: 283 cases of death, 33 of permanent total disability, 2,417 of permanent partial disability, 22,998 of temporary disability and 18,173 in which medical aid only was provided. These latter are all under Schedule 1, as medical aid in Schedule 2 cases and Crown cases is furnished directly by the employer.

Benefits Awarded and Accidents Reported by the Ontario Workmen's Compensation Board, 1915-32.

		Benefits .	Awarded.			Accidents	Reported.	
Year.	Sched	ule 1.	Schedule 2	Total	Schedule	Schedule	Crown.	
			Compensa- tion.	Benefits.	1.			Total.
	\$	\$	\$	*	No.	No.	No.	No.
915	692,389	İ	200,932	893,321	13,878	3,144	11	17,03
916	1.553,653)	451,710	2,005,363	21,269	4,806	17	26,09
917	2,286,955	83,5147		2,994,025	30,701	5,813	18 73	36,53 47,84
918 919	2,751,137 2,808,639	369,346 386,299	763,511 997,923	3,883,995 4,192,869	40,662 36,236	7,618 7,918	106	44.26
	2.000,000	000,200	357.320	7.102,000	00,200	7,810	_~~	32,20
920,		703,706	1,963.390	7,780.245	46,177	7,222	1.452	54,85
921	3,858,017	662.794	1,668,452	6,189,264	36,272	7,666	1,253	45, 19
922	3,417,102	692,820 788,906	1,582,975 1,848,786	5,692,897 6,178,862	42,139 51.655	7,124	1,148 3,374	50,41 61,10
923	4,036,170 4,052,288	835,956	1,234,576	6,122,820	49,558	6,080 4,916	4.201	58.67
	1,002,200	300,000	1,201,010	0,122,020	40,000	2,510	7,501	00,01
925.,,		875.836	1,054.077	5,565,443	50,883	5,079	4.050	60.01
926	3,664,040	988,487	1,168,825	5.821,352	57,032	4,942	3,942	65.91
927	3,930,418	1,062,860	1,091.378	6.084,655	62,063	5.412	4,504 4,572	71.97 79.39
928		1,166.508 1,385,525	1,335,751 1,280,012	7,067,948 8,012,158	69,011 76,029	5.815 6,008	5.066	87.10
980	4.942.756	1.336.046	1,144,216	7,423,018	61,490	4,486	192,8	69.20
						1		
931	3,917,045	1.060.763	1.043,584	6,021,392	46,069	3,348	3,477	52.89
932.,,	3,202,639	817,240	1.105.741	5, 125, 62 t	35,264	2.474	3,732	41,47

¹ No provision for medical aid, ² Half year only.

Manitoba.—Under the Workmen's Compensation Act, effective Mar. 1, 1917, Part 1 of the Act, dealing with workmen in hazardous occupations, is administered by The Workmen's Compensation Board, which charges insurance rates according to the hazard of the industry, the sums received by the workman being in lieu of the rights of action previously existing. The province, the city of Winnipeg, and certain corporations operating public utilities are permitted by the law to practise self-insurance.

From the date of the coming into force of the Act to Dec. 31, 1931, the Board dealt with 81,593 compensable accidents and paid out \$10,447,463 for compensation and medical aid. Of the accidents in 1931, 3,132 involved medical aid costs only, 3,310 involved temporary and 196 permanent disability, while 33 resulted in death (Table 10).

10.—Compensation Paid and Accidents Compensated by the Manitoba Workmen's Compensation Board, 1917-31.

Year.	Compensa- tion.	Medical Aid.	Total.	Accidents Compen- sated.
1917 1918 1919 1920 1921 1922 1923 1924 1924 1925 1926 1927 1927 1928 1928	304, 135 285, 772 389, 710 527, 102 585, 292 624, 581 476, 722 538, 781 599, 144 605, 957	\$ 23,002 25,121 40,748 78,566 114,118 156,734 161,526 178,814 190,023 208,815 250,833 259,830 223,795	\$ 312, 872 339, 256 326, 520 468, 276 641, 210 742, 026 786, 386 631, 883 717, 595 814, 772 1, 163, 821 1, 116, 431 1, 164, 887	No. 1, 32 1, 73 1, 80 2, 50 2, 68 4, 97 4, 93 4, 97 5, 40 7, 04 7, 04 8, 87 10, 44 8, 31 6, 67

Saskatchewan.—The Workmen's Compensation (Accident Fund) Act became fully effective July 1, 1930, and covers practically all employees in the province except railway employees engaged in the running trades, casual workers, farm and ranch labourers, domestic and menial servants, janitors, retail store employees, and persons who cannot be classed as workmen.

The Act is administered by a board of three and imposes compulsory collective liability on the employers covered. The schedule of benefits is similar to that provided by other Compensation Acts. Table 11 shows the number of accidents and benefits paid to the end of 1932.

 Compensation Paid and Accidents Compensated by the Saskatchewan Workmen's Compensation Board, 1939-32.

Year,	Compensa- tion.	Medical Aid.	Total.	Accidents Compen- sated.
	\$	\$	\$	No.
19301 1931 1932	131,338 308,662 255,933	28,434 100,748 73,398	159,772 409,410 329,331	2,639 3,969 2,844

¹ Six months.

Alberta.—The Workmen's Compensation Act of 1918 became effective Aug. 1, 1918, as regards mining, and Jan. 1, 1919, in respect of almost all industries except agriculture, railroading and the operation of retail stores and offices. Railroading (except for the running trades) was brought within the scope of the Act in 1919, and a further amendment in 1928 left only conductors and trainmen exempt from the operations of the Act.

Table 12 shows the operations of the Board for the calendar years 1921 to 1932. Of the 10,049 accidents reported in 1931, 33 were fatal and 123 resulted in some permanent injury. Similar details for the 1932 figures are not available. The amounts shown below do not include sums transferred to the pension fund, which had assets amounting to \$2,575,025 on Dec. 31, 1931, nor do they include administration expenses nor sums set aside to cover estimated liabilities.

12.—Compensation Paid and Accidents Compensated by the Alberta Workmen's Compensation Board, 1821-32.

Year,	Compensa- tion.	Medical Aid.	Total.	Accidents Reported.	Accidents Compen- sated.
	\$	\$	1	No.	No.
921	253.669	113,433	367, 102	7,069	3,56
922	265.326	134.252	399.578	7,518	3.31
923,	323,369	161.732	485, 101	9,160	4.26
924	241.090	127,397	368.487	7.383	3.62
925	312,990	154,870	467,860	8.355	4.00
926	298,404	124.138	422,542	8,930	4.6
927	371,787	161.537	533.324	10, 149	5.5
928	456,526	207.602	664, 128	13,400	6.6
929	507,438	265,636	773.074	14.899	7, 1
930	498,015	264,780	762,795	12,607	6.0
981,	452,643	216.212	668,855	10.049	4.8
932	407.284	203,745	611.029	8.974	4,6

British Columbia.—The Workmen's Compensation Act, effective Jan. 1, 1917, provides compulsory accident insurance in almost every industrial occupation carried on in the province, protecting in 1931 approximately 150,000 employees with a pay roll of almost \$150,000,000. Insurance rates levied against employees are graded according to the hazard of the industry. All employers under the Act are required in addition to deduct one cent per day or part thereof from the wages of employees and to remit this money to the Board to the credit of the medical aid fund, which provides all necessary medical and surgical and hospital expenses for injured employees. For figures see Table 13.

13.—Compensation Paid and Accidents Compensated by the British Columbia Workmen's Compensation Board, 1917-31.

Year.	Compensa- tion.	Medical Aid.	Total.	Claims (gross).
			\$	No.
1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926.	1,224,039 1,394,696 1,709,759 1,771,126 1,767,260 2,157,918 2,309,007 2,419,372 2,481,456	62,668 268,985 289,108 397,451 431,748 457,196 514,762 602,733 618,942 678,231 643,594	665, 942 1, 493, 024 1, 683, 804 2, 107, 210 2, 202, 874 2, 224, 466 2, 672, 680 2, 911, 740 3, 038, 314 3, 159, 687 3, 297, 794	13,69; 22,495 18,18; 20,906 16,88; 19,64; 24,18; 25,566 27,56; 30,30;
927 928 929 930 930	2,654,200 2,898,021 3,588,626 3,403,743 2,572,254	688,446 752,623 773,397 568,289	3,586,467 4,341,249 4,177,140 3,140,543	32,79 36,75 33,28 25,87

Section 8.—Strikes and Lockouts.

Statistics of strikes and lockouts in Canada have been collected by the Dominion Department of Labour since its establishment in 1900. Table 14 shows the number of disputes, the number of employees involved in disputes, and the time loss in working days for each year from 1901 to 1932 and the totals for the period. The items in the columns headed "time loss in working days" in the tables following are calculated by multiplying the number of persons directly involved in strikes and lockouts by the number of working days they are so affected during the time the disputes are in existence. Tables 15 and 16 give detailed analyses, by provinces and by industries, for 1931 and 1932.

Summary tables of the figures with details as to strikes and lockouts during 1932 may be found in the *Labour Gazette* for February, 1933, pp. 132-151.

Industrial Disputes in Recent Years.—In each of the years since 1925, until 1932, the time loss in "man working days" from strikes and lockouts was less than in any year since 1916 and less than in most of the years back to 1901, when the record was begun. This was chiefly because there were no coal mining disputes involving large numbers of workers for relatively long periods of time. In 1932 there was a considerable number of disputes in coal mining, some involving large numbers of employees for relatively long periods. The number of strikes and lockouts in existence in 1932 was 116, as compared with 88 in 1931, but the number of employees involved was 23,390 in 1932; this was greater than in any year since 1926. Table 14 includes figures as to coal mining and industries other than coal mining.

14.-Strikes and Lockouts in Canada, by years, 1901-32.

		Coal Minin	vg.		stries othe Coal Minir			All I	ndustries.	
	Num- ber of]		Num-						,
Year.	Dis- putes in Exist- ence during year.	Number of Workers Involved.	Time Loss in Working Days.	Disputes in Existence during year.	Number of Workers Involved.	Time Loss in Working Days.	In Exist- ence during the year.	Begin- ning in the year.	Number of Workers Involved.	Time Loss in Working Days.
1901 1902 1903 1904 1905	2 3 7 4 10	184		122 169 99	22,329 12,199 32,998 11,236 6,949	193,181	125	97 124 171 103 95	24,089 12,709 38,408 11,420 12,513	737, 908 203, 301 858, 959 192, 890 246, 138
1906 1907 1908 1909 1910	j3 13 7 13 3	4,549 8,990 3,541 8,618	146,622 102,824 13,600 720,180	137 175 69	18,833 25,070 22,530 9,496 19,253	231,654 417,318	150 188 76 90 101	149 183 72 88 94	·	378,276 520,142 703,571 880,663 731,324
1911 1912 1913 1914 1915	6 2 4 3	9,890 2,243 4,837 2,500	1,513,320 107,240 562,025 280,800 11,907	94 179 148 60	19,395 40,617 35,682 7,217 8,642	307,764 1,028,546 474,229 210,050	100 181 152 63	99 179 143 58	29,285 42,860 40,519 9,717 11,395	1,821,084 1,135,786 1,038,254 490,850 95,042
1916 1917 1918 1919	8 21 46 20 35	11,270 17,379 22,920 10,130	72,387 534,890 130,696 383,659	112 139 184 316	15,268 32,876 56,823 138,785	164,427 538,625 517,246 3,017,283	120 160 230 336	118 158 228 332 310	26,538 50,255 79,743 148,915	236,814 1,123,515 647,942 3,400,942 799,524

14.—Strikes and Lockouts in Canada, by years, 1991-32—concluded.

		Coal Minin	g.		istries othe Coal Minic		All Industries.				
	Num- ber of Dis-			Num- ber of			Num Disp				
Year.		Number of Workers Involved	Time Loss in Working Days.	Dis- putes in Exist- ence during year.	Number of Workers Involved	Time Loss in Working Days.	In Exist- ence during the year.	Begin- ning in the year.	Number of Workers Involved.	Time Loss in Working Days.	
1921 1922 1923 1924 1925	10 21 23 15 17	26,475 20,814 21,201	798,518 299,539 1,089,484	83 63 55	17,300 13,447 13,109	372,211 205,570	86 70	159 89 77 64 86	28,257 43,775 34,261 34,310 28,949	1,048,914 1,528,663 671,750 1,295,054 1,193,283	
1926 1927 1928 1929 1930	16 20 14 8 15	5,033 3,015	53,833 88,000 6,805	54 84 82	15,389 5,646 12,548 9,901 7,540	98,737 136,212 145,275	74 98 90	75 72 96 88 67	23,834 22,299 17,581 12,940 13,768	266,601 152,576 224,213 152,086 91,797	
1931 1932 To- tals	9 33 433 ¹	8,540	[83		192,715 122,234 14,20 5,2 82	116		10,738 23,390 1,016,631 ¹		

Figures for disputes extending over the end of a year are here counted more than once.

Table 15 is a record of industrial disputes, by provinces, for the years 1931 and 1932. In 1931, the chief time loss was in British Columbia where strikes of some magnitude occurred involving sawmill workers employed by firms operating on the Pacific coast and where masters, mates and marine engineers were involved in a prolonged dispute. A large time loss, however, was recorded in Ontario also, due chiefly to strikes of clothing factory workers in Toronto. In 1932 the chief time loss was in Alberta, due to strikes of coal miners; in British Columbia, chiefly in sawmills; and in Ontario owing to a number of strikes of loggers in the northern part and of fur workers in Toronto.

15.—Strikes and Lockouts, by Provinces, Number of Workers Involved and Time Loss. 1931 and 1932.

		193	31.1		1932.1					
Province.	No. No. of		Time Loss.		No.	No. of	Time Loss.			
	of Workers Disputes. Involved	Working 1 Days.	P.C. of Total.	of Disputes.	Workers Involved.	Working Days.	P.C. of Total.			
Prince Edward										
Island	5	1 100	4.682	2-3	11	4,814	17,930	7.0		
New Brunswick	2	1,198 44	192	6.1	'-	4,014	11,300	1.0		
Quebec	13	1.118	8,090	0·1 3·9	25	6,964	47.508	18-6		
Ontario	23	2,866	66,132	32.4	31	3,467	33,815	13.3		
Manitoba	8	408	6,785	3-3	3	77	1.483	0.6		
Saskatchewan	. 5	744	6.746	3·3 2·8	8	365	4,191	1 · 7 43 · 8		
Alberta	10	662	5,717	2.8	20	3,294	111,783	45·6 15·0		
British Columbia	21	3,576	85,894	42·1 9·8	18	4,409	38,295	10.0		
Interprovincial		122	20,000	3.9	<u> </u>					
Totals	88	10,738	204,238	100.0	116	23.390	255,000	100-0		

^{&#}x27;Including strikes of unemployed men on relief work, receiving wages, not maintenance—in 1931: Nova Scotia, 1 dispute involving 12 workers, 12 days' time loss; Alberta, 1 dispute, 30 workers, 30 days' time loss; British Columbia, 5 disputes, 795 workers, 4,520 days' time loss; in 1932: Quebec, 2 disputes involving 950 workers, 3,125 days' time loss.

Table 16 shows strikes and lockouts by industries during 1931 and 1932, the most important during 1931 occurring in clothing, manufacturing, sawmilling, printing and publishing, water transportation, mining and fishing; in 1932 most of the important disputes occurred in coal mining, fishing, manufacturing (clothing and furs), and in logging and sawmilling.

16.—Strikes and Lockouts, by Industries, 1931 and 1932.

			19	31.					1	932.		
Industry.	Disp	utes.		kers lved.	Time !	Loss.	Disp	utes.		kers lved.	Time	Loss.
mustry.	Num- ber.	Per cent of Total.	Num- ber.	Per cent of Total.	Mga Work- ing Days.	Per cent of Total.	Num- ber.	Per cent of Total.	Num- ber.	Per cent of Total.	Man Work- ing Days.	Per cent of Total
Logging	3	3-4	236	2.2	2,250	1.0	11	9.5	1,435	6-1	9,890	3.9
Fishing and trapping	3	3-4	1,000	9-4	11,400	5-6	. 2	1.7	3,200	13.7	29,500	11-6
Mining, etct	9	10-2	2.129	19.8	11,523	5.7	33	28-5	8,540	36-5	132,766	52 - 1
Manufacturing	43	48-8	5,406	50-3	149,214	73 - 0	54	46-5	8,811	37.7	75,175	29.5
Rubber products	1	1.1	71	0-6	71	0.1	1	0.9	273	1.2	4,500	1-8
Boots and shoes (leather)	_	_	-	- :	-	_	1	0.9	80	0.3	500	0.2
Fur, leather and other animal products	3	3⋅4	220	2-1	5, 100	2·4	5	4.3	924	3.9	13,460	5∙3
Tertiles, clothing, etc	23	26 · 1	3,105	29-0	68,538	33 - 5	29	25.0	6,740	28.8	48,995	19-2
Printing and pub- lishing	3	3.4	169	1.3	21,191	10-4	2	1.7	48	0-2	3,095	1.2
Other wood pro- ducts	8	9.1	1,641	15.5	51,657	25 - 3	12	10-3	668	2.9	4,089	1.6
Metal products	3	3-4	127	1.2	1,115	0-6	2	1.7	18	0.1	36	0 -0
Non-metallic min- erals, chemicals, etc	2	2.3	73	0-6	1.542	0.7	2.	1-7	60	0.3	500	0-2
Construction	13	14-8	549	5-1	3.346	1.7	10	8.6	1,307	5.6	7,257	2-8
Buildings and structures Bridge ² Highway Other	6 1 3 3	6·8 1·2 3·4 3·4	292 30 94 135	2·7 0·3 0·8 1·3	2, 159 340 712 135	1+0 0+2 0+4 0+1	- - -	6.9 - -	357 - -	1 · 5 - - -	4, 132	1.6
Transportation and Public Utilities. Water transporta-	3	3 · 4	451	4.2	20,900	10-2	-	-	-	-	-	-
tionElectricity and	2	2.3	28J	2.6	18,900	9.3	-	-	-	-	~	-
gas ¹ ,	1	1.1	170	1.6	2,000	0.9	-	-]	-		- [
Service Public adminis- tration tration	14 7	8-6 16-0	967 837	9·0 7·8	5.605 4.562	2 8 2 2 0 4	-	5.2	97 - 35	0.4	412	0.1
Recreational Business and personal	5 2	5·7 2·3	110 20	1·0 0·2	683 360	0.4	2	3·5 1·7	35 62	0.1	315 97	0-0 0-1
Tetals			10,738	100-0	204,238	100 0	116		23,390	100.0	255,000	100.0

Includes non-lerrous metal smelting.
*Covers the erection of all large bridges.
*Does not include undertakings mainly public utilities.
*Includes water services.

Causes and Results of Industrial Disputes.—During 1931 and 1932, as in previous years, most of the disputes were in regard to wages, or wages and working conditions, but a large proportion of disputes (and these included some of the most important) were in regard to trade unionism, usually concerned with union wages and working conditions, including recognition of unions, closed shop, etc. As in previous years many of the disputes during 1931 and 1932 were settled by negotiation; in 1932, out of a total of 113 disputes terminated during the year 53 settlements resulted from negotiation. An appreciable number of disputes terminated in the return of strikers or by their replacement, 44 being thus terminated in 1932.

Section 9.—Employment and Unemployment.

Subsection 1.—Operations of the Employment Service of Canada.

Employment Service of Canada.—Under sec. 3 of The Employment Offices Co-ordination Act (c. 57, R.S.C., 1927), an Act passed by the Dominion Parliament in May, 1918, the Minister of Labour is empowered:—

- "(a) to aid and encourage the organization and co-ordination of employment offices and to promote uniformity of methods among them;
- "(b) to establish one or more clearing houses for the interchange of information between employment offices concerning the transfer of labour and other matters;
- "(c) to compile and distribute information received from employment offices and from other sources regarding prevailing conditions of employment"

The Act further provides that certain sums of money are to be appropriated annually and paid to the provinces on a basis proportionate to the amount that each expends on the maintenance of employment offices.

The desired uniformity and co-ordination of employment office activities throughout the various provinces are obtained by having the Dominion's payments contingent upon an agreement ensuring that the provinces, in the conduct of their employment offices, shall endeavour to fill situations in all trades and occupations for both men and women, and that no charge shall be made to employers or employees for this service. Each province agrees to maintain a provincial clearance system in co-operation with the interprovincial clearance system established by the Dominion Government, in order to secure the necessary mobility of labour as between localities in the same province or in different provinces. For the fiscal year 1932-33, agreements were concluded with all of the provinces except Prince Edward Island. Thus is formed the Employment Service of Canada—a chain of employment offices reaching from Halifax to Vancouver. At the time the Act came into force only This number was 12 provincial employment offices were operated in Canada. steadily increased until, at the close of 1919, due to the impetus given by the Employment Offices Co-ordination Act together with the requirements of the demobilization period, offices were functioning at 84 different centres. Subsequent contractions have reduced the Service to offices permanently located at 66 centres (on Dec. 31, 1932), distributed by provinces as follows: Nova Scotia, 3; New Brunswick, 3; Quebec, 7; Ontario, 27; Manitoba, 4; Saskatchewan, 9; Alberta, 5; and British Columbia, 8.

Employment Service Council of Canada.—An Order in Council, issued in 1918 in pursuance of the Act, provided for the formation of a body to be advisory to the Minister of Labour in the administration thereof. This body, known as the Employment Service Council of Canada, is composed of representatives of the Dominion Departments of Labour and Pensions and National Health, the Provincial Governments, the Canadian Manufacturers' Association, the Canadian Construction Association, the Trades and Labour Congress of Canada, the Railway Association of Canada, the Railway Brotherhoods, the Canadian Lumbermen's Association, the Canadian Council of Agriculture and the returned soldiers. At the eleven meetings of the Council, the most recent of which was held on Aug. 21-22, 1930, various recommendations and suggestions relative to employment office administration were brought forward and presented to the Minister.

Operations of Employment Offices.—Statistics covering the work of the local offices are collected and tabulated by the Employment Service Branch of the Department of Labour. Table 17 shows the positions available, applications for work and placements effected by the Service in each year since 1920 for the Dominion. and for the years 1931 and 1932 by provinces. During 1932 there were 652,428 applications for employment, 366,028 vacancies and 352,214 placements recorded, as compared with 826,153 applications, 486,384 vacancies and 471,508 placements in 1931. In 1932, 25 p.c. fewer placements were effected than in 1931. Slightly more than one-half the total placements were of a casual nature, many of these being the result of work given on a rotation basis by municipalities and provincial governments on various relief schemes throughout the year to persons who, otherwise, would have been unemployed. All provinces, except Nova Scotia, New Brunswick, Quebec and Saskatchewan, showed declines in placements, the largest decline being in Ontario and the greatest gain in Saskatchewan. Construction and maintenance showed the greatest loss of any industrial division and farming the largest gain, this increase being due to the placement of men on farms under the Farm Relief Act.

Reduced Railway Fares.—In order to facilitate the movement of labour in cases where there were not enough workers in any one locality to fill the available vacancies, the Employment Service, by special arrangement with nearly all the members of the Canadian Passenger Association, has been granted the privilege of issuing certificates which entitle the bearers to purchase railway tickets at the reduced rate of 2·7 cents per mile. This rate is for a second class ticket and is applicable only to fares of not less than \$4. During 1931, 5,541 certificates were issued, 4,949 to persons proceeding to points within the same province as the despatching office and 592 to workers going to points in other provinces. During 1932, 3,669 certificates for special rates were granted, 2,945 to persons travelling to employment within the same province as the despatching office and 724 to persons for whom employment had been secured in other provinces.

17.—Applications for Employment, Positions Offered and Placements Effected by the Employment Service of Canada, by Provinces, 1931-32,1 and for Canada, 1920-32.

Du	V		ations tered.		ncies fied.	Placer Effe	
Province.	Year.	Men.	Women.	Men.	Women.	Men.	Women.
Nova Scotia	1931	6,516	5,150	5,964	4.439	5,948	3,97
New Brunswick	1932	9,054 6,735	4.795 4.700	8.406 5.975	3,814 4,725	8,400 5,923	8,530 4,630
HEM TOTALISM ICK	1932	7,770	4, 151	7.042	4.143	7,041	4.11
Quebec	1931	44,092	17,442	8,581	10,783	8,299	8.58
Q. 40 000 011 111 111 111 111 111 111 111	1932	43,444	27,019	7,478	13,649	7,030	10.75
Ontario	[1931	333,605	66,000	221,773	41,022	220,750	32,49
	1932	235, 137	62.593	131,445	31,944	130,335	26,55
Manitoba	1931	67,268	17,446	34,298	14,206	34,399	13,84
1	1932	50,795	14,014	32,597	11,167 7,296	33,140	10,95
Saskatchewan	1932	32,017 31,186	9,777 9,129	25,657 28,755	7,290 8,316	24,911 26,651	6,89 7,23
Alberta	1037	81,207	9,336	48,347	5,896	48,154	5,74
LEDGE GETTI TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO	1932	65.382	7.995	34.277	5.325	33.848	5.08
British Columbia	1931	1[4,020	10,842	41,262	6,160	40,847	6,10
	1932	69,927	10,037	32,643	5,027	32,530	5,01
Canada	Totals, 1920	480,735	96,454	450,526	166,142	365,293	80,52
	Totals, 1921	438,836	105,563	325,498	106,097	277,792	77,56
	Totals, 1922	443,875	104,407	365,529	104,359	316,386	77,13
	Totals, 1923	473,483	115,632	431.576	109,404	376,801	85,75 80,77
	Totals, 1924	402,593	116,782 118,023	314,258 345,570	97,810 161,473	285,359 328,334	84.45
	Totals, 1925 Totals, 1926	439,022 417,965	124,504	345, 163	111.769	319.558	20.55
	Totals, 1926	422.022	131,849	339, 478	114,095	320.396	94.44
	Totals, 1928	454.525	142,968	376.791	129,635	361.942	108,38
	Totals, 1929	397,527	153, 199	296,592	131,435	287,128	111,23
	Totals, 1930	463,103	149,887	278,835	107,199	274,227	94,45
	Totals, 1931	685,460	140,693	391,857	91,527	389,231	82,27
	Totals, 1932	512,695	139,733	282,643	83,385	278,975	73,23

Figures by provinces and years for 1920-25 will be found at p. 703 of the 1926 Year Book, for 1926-28 at p. 731 of the 1930 Year Book, and for 1929-30 at p. 773 of the 1931 Year Book.

Subsection 2.—Unemployment as Reported by Trade Unions.

Monthly statistics on unemployment are compiled and published by the Employment Service Branch of the Dominion Department of Labour, based on returns received from 1,800 local trade unions having an aggregate membership of nearly 175,000 workers. "Unemployment" as here used means involuntary idleness, due to economic causes. Persons engaged in work other than their own trades, or idle because of illness, are not considered as unemployed, while unions involved in industrial disputes are excluded from the tabulations. As the number of unions making returns varies from month to month, with consequent variation in the membership upon which the percentages of unemployment are based, it should be understood that the figures for each month have reference only to the reporting organizations. Table 18 is a record of unemployment in trade unions, for the past 18 years, by provinces. The maximum of unemployment in 1932 was in December, when the percentage stood at 25.5; in 1931 the December figure of 21.1 p.c. constituted the maximum. In 1931 the minimum, reached in April, was 14.9 p.c., while the 1932 low was 20.4 p.c. recorded in both March and September. Employment among organized workers, as indicated by these statistics, was less active on the average in 1932 than 1931, the average of the monthly figures of unemployment for 1932 being 22.0 p.c., while for 1931 the corresponding figure was 16.8 p.c.

Percentages of Unemployment in Trade Unions, by Provinces, half-yearly, 1915-31, and by months, 1932.

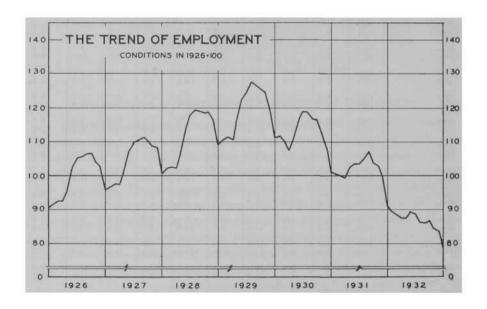
Norg.—For the percentages of unemployment for 12 months in 1921 and 1922, see p. 732 of the 1922-23 Year Book; for 12 months in 1923, p. 688 of the 1924 Year Book; for 12 months in 1924, p. 700 of the 1925 Year Book; for 12 months in 1926, p. 757 of the 1927-28 Year Book; for 12 months in 1926, p. 757 of the 1927-28 Year Book; for 12 months in 1928 and 1929, p. 733 of the 1930 Year Book; for 12 months in 1930, p. 774 of the 1931 Year Book, and for 12 months in 1931, p. 651 of the 1932 Year Book.

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Month.	Year.	Nova Scotia and P.E.I.	New Bruns- wick.	Quebec	Ontario.	Mani- toba.	Saskat- chewan.	Alberta.	British Colum- bia.	Canada.
Dec	1915	0.4	0.7	9.3	8-1	3.2	7.0	4.8	14-8	7.9
June	1916	0-5	0·9	1.8	1·7	1·2	2·6	3·1	5·4	2·1
Dec	1916	0-4	0·2	3.7	1·6	1·0	1·6	1·7	2·4	2·0
Juhe	1917	0·2	0-2	2·5	0.9	0.6	0-3	0·8	1.8	1·2
Dec	1917	2·6	4-1	3·2	2.4	1.1	2-4	1·6	3.2	2·5
June	1918	0·2	0.3	0-4	0·4	0·3	0·2	0·4	0·9	0·4
	1918	2·0	0.4	2-2	2·9	1·3	2·2	2·1	4·0	2·5
June	1919	2·7	2·4	4-0	1.8	1-2	2-5	1-7	3·4	2-6
Dec	1919	1·5	2·0	3-2	1.9	5-0	6-0	2-8	18·6	4-3
June	1920 1920	0.6	0·4 11·0	3·1 19·6	1.6 12.3	1.4	2·2 10·1	1·2 9·2	5·8 11·6	2-1 13-0
June	1921	14·3	11.7	20·7	6.7	8·0	6·8	9+4	24·4	13-2
Dec	1921	5·9	6.9	26·8		15·5	10·4	6-8	24·7	15-1
June	1922 1922	7.2	3·5 6·1	5.4 7.8	3.9 4.7	6·7 7·8	5-0 4-1	7-1 5-1	7·1 13·3	5·3 6·4
June Dec	1923 1923	2·2 7·3	1-0 3-6	5-7	1.6	5-6 6-5	1.3	4·5 6·0	4·0 7·1	3·4 7·2
June Dec	1924 1924	6-4	5·2 6·9	9-4 22-4	4.9	4.9 8.9	2·3 4·2	3·7 5·0	2·2 10·2	5.8 11.6
June	1925 1925	3-4 4-3	3.4	10·2 14·2	3·8 6·4	4·3 3·8	2·4 3·5	10-8 4-4	4·1 6·9	6·1 7·9
June	1926 1926	3·8 3·2	1.6 2.2	8.9	1·9 5·6	2·5 4·3	0.8 2.1	4·9 6·7	2·6 7·5	4·1 5·9
June	1927	1.8	2·3	4·0	3·1	2·6	1·1	4·6	2·7	3·2
	1927	4.3	1·5	9·3	5·1	5·4	5·6	3·7	10·5	6·6
June	1928	0-5	0-8	5-6	2·4	2·1	1·1	3·3	3-6	3·2
Dec	1928	3-9	0-9	10-7	4·0	8·1	4·4	6·9	6-9	6·6
June	1929	3·3	1 0	2·9	2·5	3-1	2·8	4·3	2·6	2·9
Dec	1929	5·2	2 4	14·5	9·7	12-8	13·0	13·9	11·5	11·4
June	1930	3-3	2-8	17-5	7.4	9·2	8⋅9	14·3	8·4	10·6
Dec	1930	7-5	8-7	22-8	17.3	14·2	15⋅9	13·8	16·8	17·0
June	1931	7.2	6.5	20·0	16-2	14·1	13·5	21·7	15-6	16·3
Dec	1931	13.8	9.6	29·0	20-3	16·5	19·5	16·9	21-2	21·1
Jan Feb. Mar April May June July Aug Cot Nov	1932 1932 1932 1932 1932 1932 1932 1932	15-1 8-3 8-9 8-9 8-9 11-7 11-5 8-4	15 9 14 9 13 3 16 0 14 2 12 0 13 2 13 7 16 7 13 6	28 4 23 1 23 5 28 3 27 1 26 2 25 0 23 6 27 6 27 6	21 · 5 23 · 0 21 · 6 24 · 0 23 · 4 24 · 4 23 · 9 23 · 1 22 · 7 25 · 2	19.0 19.6 20.7 21.9 21.0 18.1 19.7 18.2 18.7 21.4 20.9	18 0 19 5 17 6 16 9 14 0 14 4 13 7 13 0 11 0	19 3 20 2 23 2 26 5 28 4 25 5 24 0 19 7 19 8	21.8 21.1 20.5 21.5 20.4 22.3 20.9 19.7 21.1	22.0 20.6 20.4 23.0 22.9 21.8 21.4 20.4 22.0 25.5

Subsection 3.- Employment as Reported by Employers.

The Dominion Bureau of Statistics tabulates monthly reports of the numbers employed by firms having 15 or more persons on their staffs; the returns are representative of practically every industry except agriculture and the more specialized business and professional callings. During 1932 about 7,900 of these employers reported an average working force of 801,356 persons, varying from 835,960 on Jan. 1 to 765,441 at the beginning of December. In Canada, as in other parts of the world, industrial employment continued slack during 1932, activity generally being at a lower level than in any other year since 1922. An important factor in this connection was the substitution of a policy of direct relief for the unemployed for the former one of large public works, the extent to which this has effected the index number being indicated by the fact that the number of man-days worked on state-aided projects was 11,135,334 in 1931 and 7,630,109 in 1932. These figures apply to those projects where the work was carried out on a wage basis; in addition, there were a large number of man-days worked where the work was on a subsistence basis.

The trend was generally downward from the opening of 1932 to the close of the year, the slight gains recorded on June 1 and Oct. 1 being immediately followed by sharp recessions. The following chart illustrates the trend of employment generally over the latest seven years.



Employment by Economic Areas.—The five economic areas reported curtailment in employment during 1932. The index, based upon the 1926 average as 100, was maintained at a higher level in the Maritime and Prairie Provinces than elsewhere, but even in those areas the falling-off from 1931 and earlier years of the record was considerable. Firms in Ontario, on the other hand, reported a

smaller proportional reduction as compared with the preceding year than was the case in any other of the economic areas. Table 19 is a record of employment in the five economic areas, by months, in 1931 and 1932, with averages for preceding years since 1921.

19.—Index Numbers of Employment as Reported by Employers in Economic Areas, as at the First of each Month, January, 1931, to December, 1932, with Yearly Averages since 1921.

Nors.—These indexes are calculated upon the average for the calendar year 1926 as 100. The relative weight shows the proportion of employees reported in the indicated economic area to the total reported by all employers making returns in Canada on Dec. 1, 1932.

Year and Month.	Maritime Provinces.	Quebec.	Outario.	Prairie Provinces.	British Columbia.	Canada.
Averages, 1931 Averages, 1922 Averages, 1923 Averages, 1924 Averages, 1925 Averages, 1925 Averages, 1927 Averages, 1929 Averages, 1929 Averages, 1929	102-4 97-3 105-7 96-6 97-0 99-4 103-7 106-6 114-8 118-3	82-2 61-4 99-7 91-3 91-7 99-4 104-9 113-4 110-3	90-6 92-8 95-5 95-5 95-8 195-6 113-8 123-1	94-0 92-6 92-6 92-1 92-0 99-5 105-3 117-9 126-3 117-1	81-1 87-8 87-4 89-4 93-7 101-1 106-4 111-5 107-9	88-8 89-8 95-8 93-6 99-6 104-6 111-8 113-4
1931.						
Jan. 1	119-3 110-6 104-5 102-3 104-0 105-2 109-4 106-8 102-7 102-6 116-6 112-7	99-3 98-8 99-7 98-5 102-3 104-3 103-2 102-4 109-8 101-6 96-2 94-7	100-1 101-7 101-7 101-8 102-4 103-8 104-2 102-7 100-7 100-7 99-3	106-4 101-0 98-6 97-7 100-0 103-3 108-3 129-1 130-0 129-1 128-2	94 · 1 93 · 8 93 · 8 92 · 4 96 · 1 97 · 9 98 · 0 96 · 6 95 · 9 98 · 9 90 · 5	101.7 100.7 100.2 99.7 102.2 103.4 103.8 105.2 107-1 103.9 103.9
Aterages	106-1	190-5	101.2	111 - 5	95-5	102 - 5
1932.				1		
Jan 1	87-8 96-4 96-4 90-1 87-8 84-9 86-8 83-8	86-3 85-9 86-5 86-0 86-0 87-6 84-4 85-3 85-8 83-6	93.8 92.7 91.8 91.1 89.5 89.2 86.9 85.1 84.2 84.2	92-8 91-3 88-2 86-1 87-6 89-3 90-1 91-6 94-6 86-7	80·6 77·5 78·9 82·7 83·7 83·4 82·8 77·8	91.6 89.7 88.7 87.5 87.5 99.1 86.3 86.0 84.7 83.2
Averages	93-2	85-5	88.7	50.4	80-5	87 - 5
Relative weight of employment in economic areas as at Dec. 1, 1932*	3	29.3	41-2	14-1	7.8	100-0

Since the average for the calendar year 1926, including figures up to Dec. 31, 1926, is the base used in computing these indexes, the average index here given for the 12 months Jan. 1-Dec. 1, 1926, generally shows a slight variation from 100. Percentages of Dominion total,

Employment in Cities.—Separate tabulations are made for the eight leading industrial centres: Montreal, Quebec, Toronto, Ottawa, Hamilton, Windsor and the adjoining "Border Cities", Winnipeg and Vancouver. These cities recorded on the whole a lower level of activity than in 1931. The reports show that employment was generally brisker in Ottawa and Quebec than in the other centres enumerated, while the lowest indexes were reported in Hamilton and Windsor and the adjoining Border Cities. Table 20 gives monthly indexes in the cities in 1931 and 1932, with yearly averages since 1922.

20.—Index Numbers of Employment as Reported by Employers in Leading Cities, as at the First of each Month, January, 1931, to December, 1932, with Yearly Averages since 1922.

Note.—These indexes are calculated upon the average for the calendar year 1926 as 100. The relative weight shows the proportion of employees reported in the indicated city to the total reported by all employers making returns in Canada on Dec. 1, 1932.

Year and Month.	Montreal.	Quebec.	Toronto.	Ottawa.	Hamilton.	Windsor.2	Winnipeg.	Van- couver.
Averages, 1922 Averages, 1923 Averages, 1924 Averages, 1925 Averages, 1927 Averages, 1927 Averages, 1928 Averages, 1928 Averages, 1939	86.0 92.7 93.8 94.2 99.7 103.0 108.2 115.3 111.8	99.6 97.9 99.1 111.3 119.9 124.2 125.3	26-1 98-0 94-3 95-7 99-6 105-7 112-1 121-3 116-3	107-2 102-3 100-3 100-0 107-7 115-8 120-7 123-1	94 - 6 86 - 0 88 - 0 90 - 3 103 - 1 108 - 2 128 - 4 113 - 9	85.1 99.9 84.2 187.3 153.2 128.6	93-9 96-6 86-5 88-5 39-2 104-1 110-1 112-3 107-6	81 · 5 82 · 5 86 · 3 92 · 6 99 · 9 100 · 7 104 · 3 109 · 2 109 · 8
1981.								
Jan. 1 Feb. 1 Mar. 1 April 1 May 1 June i July 1 Aug. 1 Sept. 1 Oct. 1 Nov. 1 Dec. 1	102·5 102·3 97·3 95·4 96·7	127-0 120-7 123-3 122-2 125-7 126-7 122-2 122-2 123-2 123-2 120-0 108-7	107 5 107 1 107 5 109 5 111 4 110 3 109 0 106 8 107 3 105 6	112-6 113-4 117-5 121-8 123-4 123-4 121-0 122-8 121-7 124-5 118-6 112-7	103-5 106-1 105-6 109-8 108-0 103-9 98-4 97-6 95-8 96-1 96-3 94-0	89 4 96 9 95 9 95 5 104 2 105 5 99 5 94 2 75 8 80 9 67 7 72 3	98-2 96-8 98-0 97-3 97-1 98-8 99-9 98-1 98-2 96-4 93-5	107·0 108·4 108·2 101·9 104·6 106·9 106·0 106·0 104·5 99·7 101·9 98·3
Averages	102.5	122-2	107 · 7	119.5	101.3	88-3	97.1	164-5
Jan. I. Feb. 1. Mar. I. May. I. May. I. June I. July I. Aug. I. Sept. I. Oct. 1. Nov. I. Dec. I. Mayerages.	87.4 89.8 91.2 91.1 91.7 88.6 85.5 86.3 88.0 84.8	100-8 100-9 101-9 102-0 104-0 105-6 104-8 101-0 105-8 100-2 98-5 95-9	99·6 97·8 97·8 97·8 97·5 96·9 94·6 92·3 91·6 93·5 91·2 91·2	108-9 104-5 96-6 101-7 102-5 100-9 99-3 97-6 98-0 94-1 92-6	91·3 90·2 90·4 87·4 86·9 84·4 80·6 77·1 77·6 77·6 76·6	83-5 81-4 80-4 89-8 38-3 91-0 89-6 80-0 71-8 58-7 62-7 62-7	92-5 89-6 88-5 86-8 86-2 87-0 86-0 85-1 85-6 84-3 82-2	9(-1 90-1 87-8 87-8 87-6 89-4 88-7 87-9 89-9 85-8 85-8
Relative weight, by cities, as at Dec. 1, 1932 ³		1.6	14.3	1-5	1	Ί	4-5	3.4

Since the average for the calendar year 1926, including figures up to Dec. 31, 1926, is the base used in computing these indexes, the average index here shown for the 12 months Jan. 1-Dec. 1, 1926, generally shows a slight variation from 100. Includes adjacent "Border Cities". Percentages of Dominion total.

Employment by Industries.—Employment in all industries was in smaller volume than in 1931. Within the manufacturing industries, only the tobacco, leather, hosiery and knitting, woollen and silk groups showed improvement in this comparison. The declines in the animal food, lumber, pulp and paper, rubber, textile, iron and steel, non-ferrous metal and mineral product industries, however, were on a smaller scale than those reported in 1931, as compared with 1930. Table 21 gives index numbers of employment by main industrial groups.

21.—Index Numbers of Employment as Reported by Employers, by Industrial Groups, as at the First of each Month, January, 1931, to December, 1932, with Yearly Averages since 1921.

Nors.—These indexes are calculated upon the average for the calendar year 1926 as 100. The relative weight shows the proportion of employees reported in the indicated industry to the total reported by all employers making returns in Canada on Dec. 1, 1932.

Year and Month.	Manu- factur- ing.	Log- ging.	Mining.	Com- muni- cations.	Trans- porta- tion.	Con- struc- tion and Main- tenance.	Ser- vices.	Trade.	All Indus- tries.
Averages, 1921 Averages, 1922 Averages, 1923 Averages, 1924 Averages, 1925 Averages, 1929 Averages, 1927 Averages, 1928 Averages, 1928 Averages, 1928 Averages, 1928 Averages, 1928	98-7 96-6 92-4 93-0 99-6 163-4 110-1	103.0 85.1 114.2 116.7 105.4 90.5 100.3 114.5 124.8	98-0 99-5 106-2 105-3 99-8 90-7 107-0 114-4 120-1 117-8	\$6.2 86.4 87.6 93.7 95.5 99.6 183.8 198.2 126.6	94-1 97-8 199-3 99-1 96-6 99-7 102-5 105-9 101-6	71-1 76-7 86-9 86-9 84-9 99-2 109-6 118-8 129-7 129-8	83-6 81-9 87-9 93-8 95-4 99-5 196-2 118-1 130-3 131-6	92-7 59-8 92-1 55-5 95-1 99-2 107-4 116-1 126-2 127-7	88 · 8 89 · 6 95 · 8 93 · 4 93 · 6 104 · 6 111 · 6 113 · 4
1931.									
Jan 1. Feb. 1. Mar 1. April 1. May 1. June 1. July 1. Aug. 1. Sept. 1. Oct. 1. Nov. 1. Dec. 1. Averages.	99-7 100-7 99-4 97-2 94-7 94-7 91-8 88-8	107·6 102·2 82·7 42·9 55·9 53·3 38·5 28·8 30·5 42·2 63·7 73·1	114-4 111-6 109-5 108-1 106-0 105-3 104-1 104-5 105-6 108-2 107-9 107-5	110-6 106-6 103-9 103-3 104-0 104-7 104-8 105-9 105-8 104-2 102-4 100-5	95·5 94·0 93·2 94·3 96·6 97·7 97·8 97·8 95·4 93·5	110-7 104-5 101-1 96-8 106-6 121-8 137-1 162-8 176-8 164-5 165-4 128-8	123 · 2 122 · 2 121 · 8 122 · 0 123 · 1 125 · 9 130 · 8 133 · 0 134 · 8 125 · 5 117 · 5 116 · 1	132-9 123-1 122-0 123-1 123-3 124-0 120-9 120-5 120-8 122-8 125-6	101 · 7 100 · 2 99 · 2 102 · 3 103 · 8 105 · 2 107 · 1 103 · 9 103 · 0 99 · 1
1932.					i	İ			
Jan 1 Feb 1 Mar 1 April 1 May 1 June 1 July 1 Aug. 1 Sept. 1 Oot. 1 Nov. 1 Dec. 1 Averages	85-9 87-0 87-3 85-8 86-0 85-4 82-6 83-1 84-1 81-7 80-3	68-7 68-5 60-6 31-1 32-5 37-9 34-2 29-1 26-4 37-9 56-2	105-1 102-4 101-1 101-0 97-9 96-8 95-0 94-8 96-5 98-2 101-2 99-9	98·1 97·3 95·2 93·9 94·1 93·1 93·5 92·9 91·2 89·6 89·3	85 6 83 4 81 9 81 9 84 3 85 5 85 9 86 3 86 3 86 7 2 84 5 83 9	104 · 8 90 · 4 83 · 3 79 · 9 83 · 2 92 · 9 93 · 3 90 · 0 84 · 4 84 · 3 77 · 9 67 · 6	114-4 112-7 114-7 113-9 114-7 116-8 119-9 117-0 119-4 109-8 106-8 103-7	125-7 117-2 113-6 114-3 116-2 116-1 115-4 113-8 113-1 114-5 115-4 117-8	91 -6 89 -7 88 -7 87 -5 89 -1 88 -7 86 -3 86 -0 84 -7 83 -2
Relative weight, by indus- tries, as at Dec. 1, 1932*.	52 · 1	2-0	5-9	3.1	12.9	10-2	2.6	11.2	100-0

Since the average for the calcudar year 1926, including figures up to Dec. 31, 1926, is the base used in computing these indexes, the average index here given for the 12 months Jan. 1-Dec. 1, 1926, generally shows a slight variation from 100. Percentages of Dominion total.

Subsection 4.—Unemployment Relief.

The Unemployment Relief Act of 1930, effective in September of that year, covered expenditures for carrying on public works and giving direct relief to relieve unemployment until August, 1931. Under the provisions of this Act, the Dominion Government contributed \$14,396,957 to public works, and \$3,556,811 to direct relief. The total cost of administration was \$43,062 and the total expenditure by the Dominion Government \$17,996,830. This expenditure resulted in public works, etc., being carried on to the value of approximately \$69,000,000, including contributions of provinces and municipalities. The direct relief expenditures by the Dominion, provinces and municipalities, totalled about \$11,000,000. The carrying on of the work under the provisions of the 1930 Act afforded work to 337,633 individuals for varying periods, the amount of work thus afforded being 7,481,449 man-days.

In August, 1931, the Unemployment and Farm Relief Act, 1931, became effective and contributions were made for the relief of unemployment under this Act until Mar. 1, 1932, and under the Continuance Act of 1932, operations under the 1931 Act were continued until May I, 1932. Under the 1931 Act, the Dominion Government agreed to contribute the sum of \$33,990,172 towards the carrying on of works by the provinces, municipalities, and the Dominion departments, for the relief of unemployment, the total cost of such works being approximately \$81,000,000. Some of this work was not finished at the expiration of the agreements on May I, 1932, but extensions of time were arranged to different dates extending to the end of 1932, the gross cost of the works thus extended being approximately \$14,778,000. For direct relief the expenditures of the Dominion Government, under the 1931 Act, amounted to \$11,643,306 at Dec. 31, 1932. This included \$5,288,085 apportioned to the Saskatchewan Relief Commission. Expenditures for public works gave employment to 582,641 individuals to the end of November, 1932, the total wages paid being \$39,311,188 and a total of 13,251,601 man-days work being afforded.

After a survey of employment conditions in the shops of the Canadian National Railways, it was decided to maintain operations so as to permit of intermittent employment being given to a large number of employees. In September, 1931, the Canadian Pacific Railway Company was compelled to shut down its shops and upon application being made to the Government for assistance, it was arranged with the Company that its shops should be opened on Nov. 17, 1931, and kept open until Dec. 31 of the same year, the Government paying the wages of workers employed in the said shops. The Railway Company, however, was to reimburse the Government for expenditures so made, without interest, when the earnings of the Company enabled it to resume payment of dividends at more than the rate of 5 p.c. per annum. The total number of railway shop employees thus given employment was 8,455, the wages involved totalling \$1,447,222. The cost of administration under 1931 legislation was \$84,488.

The Relief Act of 1932.—The Relief Act, 1932, received assent on May 13, 1932. Under this Act agreements have been completed with all the provinces, except Prince Edward Island, providing for a Dominion non-recoverable expenditure of one-third of an amount not to exceed \$600 per family for the purpose of

providing a measure of self-sustaining relief to families who would otherwise be in receipt of direct relief, by placing such families on the land. It is provided that the remaining two-thirds of the expenditure will be contributed by the province and the municipality concerned.

The settlement this year represents only the beginning of the movement, as the agreements with the provinces cover a period of two years and do not expire until Mar. 31, 1934, but a recent report of progress received from the provinces indicates that 1,650 families have been approved, these families having approximately 6,859 dependants.

The Dominion Government has continued to contribute on the same basis as under the 1931 Act to direct relief accounts received from the provinces, or from the municipalities through the provinces, and has also agreed to contribute 50 p.c. to the cost of operating board camps wherein the unemployed may be cared for and given useful work to do in return for subsistence and a small cash allowance. Under the 1932 Act, accounts have been received and paid for direct relief amounting to \$3,953,052.

Agreements have been entered into with the four western provinces whereby the Dominion pays 100 p.c. of the cost of providing food, fuel, clothing and shelter to single homeless unemployed persons at a cost not exceeding 40 cents per diem. The agreements also provide for the placement of single homeless persons on farms at \$5 per month payable by the Dominion. The agreements are effective from Nov. 1 and 15, 1932, but to date no statement of expenditures has been received. At Nov. 30 the Commissions administering relief to single homeless persons reported the following numbers being taken care of under the arrangements: Manitoba, 5,398; Saskatchewan, 2,901; Alberta, 5,993; British Columbia, 12,854.

The total advances made to the Saskatchewan Relief Commission as at Dec. 31, 1932, for relief purposes, and not including advances made for the purchase of seed grain or for seeding operations, amounted to \$10,250,000 (\$5,250,000 under the 1931 Act, and \$5,000,000 under the 1932 Act). Up to the same date the Relief Commission had furnished the Department of Labour with certificates approved by the provincial authorities covering expenditures chargeable to the Dominion to the extent of \$8,188,188. Up to Nov. 30, 1932, 60,000 families with 270,000 dependants had been given relief by the Relief Commission. In addition, aid was given to 827 individual cases, the total number given relief being 330,827. The cost of administration under the 1932 legislation to Dec. 31, 1932, was \$49,750.

Subsection 5.- Employment and Unemployment Statistics of the Census.

The group of "wage earners" is one of three into which the "gainfully occupied" population is divided at the census. The other two are described as "employers" and as workers "on own account", respectively, the workers "on own account" including such classes as farmers, country blacksmiths, small storekeepers, doctors, lawyers and others who give their own time and labour to their occupation, and do not

employ others therein. The "wage earners" are much the largest of the three groups, and, as defined by the census, include each and every person "who works for salary or wages, whether he be the general manager of a bank, railway or manufacturing establishment or a day labourer"

At the census of June 1, 1931, a comprehensive investigation was made of the problem of "unemployment" among the wage earners of Canada. In the first place, every wage earner in the country was asked whether or not he was at work on the date of the census, Monday, June 1, 1931, and those who answered in the negative were further asked the reason for not being at work on the above date, the reasons to be stated under such headings as "no job", "temporary lay-off", "strike or lock-out", "illness", "accident", etc. This investigation was made in order to get a clear and sharply defined conspectus of the employment situation at a particular point of time.

In the second place, every wage earner in the country was asked to state how many weeks he had been out of work during the twelve months preceding the date of the census—that is, how many weeks he had been out of work between June 1, 1930 and June 1, 1931, together with the number of weeks out of work for each of the specified causes, "no job", "temporary lay-off", "illness", "accident", "strike or lockout", "other causes". A comprehensive analysis of the information secured under this second heading, classified by occupation, birthplace, citizenship, etc., is in progress.

Wage Earners at Work and not at Work on June 1, 1931.—The grand total number of persons in the Dominion coming within the census definition of "wage earners" was 2,564,879 at the date of the census. Of this total, 2,093,211 or 81.39 p.c. were actually at work on that date, while 471,668 or 18.61 p.c. were not then at work. In other words, out of every 10,000 wage earners in the Dominion 8,139 were at work and 1,861 were not at work on June 1, 1931. Of those not at work, 392,809 stated the reason as "no job" In the consideration of this figure it has to be remembered that even in times of great industrial activity there are always many thousands of workers "between jobs", while many thousands more are casual labourers, who may have "no jobs" to-day but may be employed to-morrow. This figure of 392,809, being 15.32 p.c. of all the wage earners of the Dominion, or 1,532 out of every 10,000, may be regarded as giving the number of "the unemployed", in the ordinary meaning of the term, as at the date of the census. Approximately five out of every six who were not at work on June 1, 1931, gave the reason as "no job".

The other reasons advanced by wage earners for not having been at work on June 1, 1931, were of less importance. The considerable total of 42,443 reported that they were not at work owing to "temporary lay-off" This number, however, was only 1.66 p.c. of the wage earners of the Dominion or one out of every sixty. Further, these wage earners had a job to go back to, so that their position was quite different from that of those reporting "no job" "Strike or lockout" was

given as the reason for not being at work on June 1 in only 379 cases, so that only about one out of every 7,000 wage earners in the country was not at work as the result of an industrial dispute—an excellent record in the circumstances.

Personal reasons were assigned by those not at work on June 1, 1931, in 30,177 cases, including 25,718 cases of illness and 4,459 cases of accident. The 25,718 constitute about one per cent of the grand total number of wage earners in the country, and this might be taken to indicate that the average toll taken by illness among our wage-earning population is about one per cent of normal full time or about three days in the working year. "Accident" cases were responsible for about one-sixth of one per cent of the wage earners not being at work on the date of the census—one person out of every six hundred. Thus "accident" would appear to be a minor cause of loss of time, averaging half a day per wage earner per annum.

When the distinction of sex is made, it is at once observed that the females "not at work" on June 1, 1931, are a much smaller percentage of the total female wage earners than the males "not at work" are of the total male wage earners. Out of 2,017,606 male wage earners in Canada on the date of the census, 1,594,612 or 79.03 p.c. of the total were at work and 422,994 or 20.97 p.c. were not at work. On the other hand, out of a total of 547,273 female wage earners in Canada at the date of the census, 498,599 or 91.11 p.c. were at work and only 48,674 or 8.89 p.c. were not at work. Thus the percentage "not at work" among male wage earners was considerably more than twice as large as among female wage earners.

If the wage earners with "no job"—the really "unemployed"—at the date of the census are compared the same conclusion is reached. Out of 2,017,606 male wage earners resident in Canada at the date of the census, 356,549 or 17.68 p.c., or rather more than one-sixth, had "no job" i.e., were unemployed at the date of the census. Out of 547,273 female wage earners, however, only 36,260 or 6.63 p.c. of the total had "no job" In other words, one out of every six male wage earners and one out of every fifteen female wage earners was unemployed at the date of the census.

Reasons other than "no job" were given for not being at work on June 1, 1931, by 3.29 p.c. of all male wage earners and by 2.26 p.c. of all female wage earners. Among these reasons "temporary lay-off" accounted for 1.83 p.c. of all male wage earners and 1.00 p.c. of all female wage earners not being at work on the date of the census. Again, "strike or lockout" accounted for the absence from work of 353 males and of only 26 females.

Among the personal reasons for not being at work, "illness" bulked equally large among male and among female wage earners, 1.00 p.c. of each sex being not at work on June 1, 1931, for this reason. On the other hand, the greater hazards to which males are subjected in the course of their employment and outside of it are shown by the fact that 0.21 p.c. of all male wage earners and only 0.04 p.c. of all female wage earners were not at work on June 1, 1931, as a result of accidents.

22.—Wage Earners of Canada at Work and Not at Work on Monday, June 1, 1831, by Sex and Province, with Reasons Given by those Not at Work. (Preliminary figures.)

	Total	Number	Number Not at	Reasons Given by those Not at Work							
Province.	Number of Wage- earners.	at Work June 1., 1931.	Work June 1., 1981.	No Job.	Temporary Lay-off.	Strike or Lockout.	Illness.	Accident.	Other Reasons.	Reasons not Stated.	
)			No.	No.	No.	No.	No.	No.	No.	
rince Edward Island	12,291 9,117	11,456 8,407	835 710	620 540	47 41	-	127 93	11 10	30 26	-	
Female Total	3,174 117,444	3,049 94,408	125 23,036	80 14,123	5,972	2	34 1,826	378	328	40	
Male Female	94,854 22,590	73,281 21,127	21,573 1,463	13,212 911	5,802 170	. 2 -	1,560 266	372 6	283 45	34 6	
New Brunswick Total Male	83,761 65,892	67,007 50,507	16,754 15,385	14,061 18,206	910 750	5 5	959 745	199 188	163 120	34 6 45 37	
luebecTotal	17,869 693,351	16,500 576,394	1,369 116,967	855 100,442	160 6,108	- 81	214 8,128	11 1,108	48 500	- 84 594	
Male Female	532,401 160,950	429,054 147,340	103,347 13,610	90, 126 10, 316	4,836 1,272	73	6,489 1,639	1,043 65	315 185	464 124	
ntarioTotal Male	963,636 751,019	803,601 608,834	160,035 142,185	130, 268 117, 749	17,146 14,579	80 65	9,302 7,083	1,344 1,261	850 633	1,045 815	
female In total	212,617 170,792	194,767 134,263	17,850 36,529	12,519 32,176	2,567 2,264	15 16	2,219 1,378	83 244	217 114	23(337	
Male Female	132,901 37,891	100,783 33,480	32,118 4,411	28,566 3,610	1,895 369	13	1,067 311	227 17	77 37	277 64	
askatchewanTotal Male	145,445 116,058	116,568 90,055	28,877 26,003	26,326 23,877	1,267 1,136	5 5	903 677	137 133	69 43	170 132	
Female IlbertaTotal	29,387 142,090	26,513 111,391	2,874 30,699	2.449 24,212	131 4,735	21	226 964	234	26 124	38 409	
Male Female	116,089 26,001	87,891 23,500	28, 198 2, 501	22,119 2,093	4,570 165	21	760 204	225	94 30	409	
British ColumbiaTotal	234,321 197,659	176,477 144,283	57,844 53,376	50,490 47,065	3,992 3,360	169 169	2,122 1,783	804 781	99 76	168 142	
Yukon	36,662 1,295	32, 194 1, 193	4,468 102	3,425 91	632	=	339	23	23	26	
Maie	1,214	1,115 78	99	89		<u>-</u>	8	-	-	_	
Northwest Territories Total Male	453 402	453 402	-	_ <u>-</u>	! <u>-</u>	=	<u>-</u> -	-	<u> - </u>	-	
Female	51	51									
Canada Tetal Male	2,564,879 2,617,666	2,008,211 1,594,612	471,668 422,594	392,869 354,549	42,443 36,971	379 353	25,718 26,265	4,459 4,240	2,277	3,583 2,948 6 34	

Employment and Unemployment in the Twelve Months Preceding the Census.—The total number of wage earners in Canada, at the date of the census, was 2,566,001, of whom 2,018,334 or 78.66 p.c. were males and 547,667 or 21.34 p.c. were females. The number losing some time during the period June 1, 1930 to June 1, 1931, was 1,027,749 or 40.05 p.c. of all wage earners. Among male wage earners 889,731 or 44.08 p.c. of the total lost some time, while 138,018 or 25.20 p.c. of the female wage earners showed some unemployment. The aggregate time loss was 24,508,710 weeks, of which 21,601,757 weeks or 88.14 p.c. represented unemployment among males, and 2,906,953 weeks or 11.86 p.c. unemployment among females.

23.—Wage Earners 16 Years of Age and Over, by Ser, Showing Number Unemployed and Weeks Lost, by Ser, Province and Reason Given, census year ended June 1, 1931—continued on p. 780. (Preliminary figures).

			Persons U	nemployed	Some Pe	riod and T	otal of W	eeks Lost.
Province.	Total Wage	Persons Losing	All Re	ersons,	No	Job,	Tem La	porary y-Off.
	Earners.	no Time.	Total Persons.	Total Weeks.	Persons.	Weeks.	Persons.	Weeks.
	No.	No.	No.	No,	No.	No.	No.	No.
Prince Edward Island Males Females	12,346 9,157 3,189	9,813 7,011 2,802	2,533 2,146 387	54,213 45,157 9,056	2.027 1.760 267	44,817 37,791 7,026	194 162 32	2,477 2,067 410
Nova Scotia Males Females	117,772 95,236 22,536	66, 269 48, 048 18, 221	51,503 47,188 4,315	1,170,862 1,078,865 91,997	26,178	679,916 616,555 63,361	18,492 17,626 866	365,793 353,306 12,487
New Brunswick Males Females	84,238 66,313 17,925	47,982 34,209 13,773	36,256 32,104 4,152	804,343 719,325 85,018	26,224	674,596 616,638 57,958	4,792 3,767 1,025	64,662 50,317 14,345
Quebec	694,492 533,417 161,075	420, 129 300, 867 119, 262	274,363 232,550 41,813	6,142,317 5,313,090 829,227	219,812 189,437 29,875	5,201,896 4,561,112 640,784	33,649 26,386 7,268	482,315 340,337 91,978
Ontario	963, 637 750, 976 212, 661	586, 232 428, 510 157, 722	377, 405 322, 466 54, 939	7,702,719	244,331 215,351 28,980	6,647,391 5,913,798 733,593	102,040 84,069 17,971	1,529,398 1,283,086 246,312
Manitoba	170,713 132,852 37,861	108,545 75,711 27,834	67,168 87,141 10,027	1,769,317 1,533,200 236,117	51, 163 44, 268 6, 885	1,513,795 1,322,390 191,405	11, 457 9, 422 2, 035	156, 125 132, 331 23, 794
Saskatchewau	145,440 116,055 29,385	94,708 71,946 22,762	50,732 44,109 6,623	1,348,261 1,184,260 164,001	43,812 38,578 5,234	1,214,359 1,074,434 139,925	4,804 4,033 771	71,740 62,379 9,361
Alberta	142,461 116,086 26,375	86,205 66,105 20,100	56, 256 49, 981 6, 275	1,301,517	37, 226	1,027,550		223, 820 210, 585 13, 235
British Columbia Males Females	234,902 198,242 36,660	123,369 96,196 27,173	111,583 102,046 9,487	2,953,150 2,723,624 229,526	80.953	2,544,959 2,358,811 186,148	17,804 16,317 1,487	232, 443 211, 961 20, 482
Canada	2,500,001	1,538,252	1,027,745	34,506,710	747,584	19,670,327	201,841	3,078,773
Males	2,018,334	1,128,603	889,731	\$1,601,757	459,975	17,529,075	172,425	2,646,369
Females	547,667	403,643	128,418	2,965,953	87,600	2,141,248	32,416	432,401

23.—Wage Earners 19 Years of Age and Over, by Sex, Showing Number Unemployed and Weeks Lost, by Sex, Province and Reason Given, census year ended June 1, 1931—concluded. (Preliminary figures).

	I	ersons Un	employed S	ome Perio	d and Tota	of Weeks	Lost.	
Province.	Illae	ess.	Aocid	lent.	Strike or	Lockout.	Other (Causes.
Frovince,	Persons.	Weeks.	Persons.	Weeks.	Persons.	Weeks.	Persons.	Weeks.
	No.	No.	No,	No.	No.	No.	No.	No.
Prince Edward Island. Males Females	376 294 82	5,412 4,321 1, 09 1	34 31 3	372 350 22	1 1	9 9 -	53 29 24	1,126 619 507
Nova Scotia Males Females	8,322 7,366 956	97, 262 84, 077 13, 185	1,853 1,827 26	20,480 20,270 210	207 207 -	1,050 1,050 -	389 261 128	6,36; 3,60; 2,75
New Brunswick Males Females	4,268 3,426 842	50,800 40,087 10,713	941 903 38	9,896 9,664 232	777	34 34 -		4,358 2,588 1,770
Quebec	31,922 25,683 6,239	421,270 341,471 79,799	4,367 4,100 267	52,428 49,496 2,932	215 180 35	1,799 1,622 177	2,052 1,329 723	32,609 19,052 13,557
Ontario	44,390 33,993 10,397	519,842 404,519 115,323	6,290 5,810 480	69, 854 64, 801 5, 053	493 371 1 22	4,991 3,671 1,320	2,571 1,901 67 0	45,492 32,844 12,648
Manitoba	6,269 4,828 1,441	80,754 62,470 18,284	977 910 67	12,390 11,583 807	19 8 11	194 50 144	288	6,059 4,376 1,683
Saskatchewan Males Females	3,543 2,736 807	49,118 36,997 12,121	577 549 28	6,726 6,477 249	8 8 -	108 108 -		6,216 3,869 2,349
Alberta	4,299 3,431 868	56,734 45,468 11,266	1,188 1,140 48	14, 163 13, 635 528	40 39 1	300 272 28		5,66 4,00 1,65
British Columbia Males Females	9,258 7,717 1,541	124,998 105,179 19,819	3, 189 3, 083 106	41,568 40,348 1,220	232 232 —	1,808 1,808		7,374 5,517 1,857
Савада	112,647	1,406,190	19,416	227,877	1,222	10,233	6,911	115,250
Males	89, 474	1,124,589	18,853	216,624	1,053	8,624	4,854	76, 47
Females	23, 173	281,661	1,063	11,253	169	1,669	2,457	38,776

Section 10.—Old Age Pensions.

The Old Age Pensions Act, 1927.—Legislation respecting Old Age Pensions (R.S.C., 1927, c. 156) was adopted by the Dominion Parliament in 1927. Under the provisions of this statute the Dominion Government reimbursed each province participating in the Dominion scheme to the extent of one-half of the provincial expenditure for old age pensions. An amendment passed at the 1931 session of Parliament (c. 42, Statutes of 1931) provided that the Dominion contribution to the provinces be increased from 50 p.c. to 75 p.c. of the provincial disbursements for old age pensions pursuant to a provincial statute authorizing and providing for the payment of such pensions to the persons and under the conditions specified in the Act and the Regulations made thereunder. Following the enactment of the amendment to the Dominion Act, the Dominion Old Age Pensions Regulations were revised and agreements negotiated with the provinces whereby the Dominion contribution of 75 p.c. of provincial disbursements was made effective from Nov. 1, 1931; the provinces have since been reimbursed on this basis.

Sec. 5 of the Act provides that before any such agreement is made with the province, the scheme for the administration of pensions proposed to be adopted by the province shall be approved by the Governor in Council, and that no change in such scheme shall be made without the consent of the Governor in Council.

Sec. 8 reads as follows:—

(1) Provision shall be made for the payment of a pension to every person who, at the date of the proposed commencement of the pension:—

(a) is a British subject, or, being a widow, was such before her marriage;

(b) has attained the age of seventy years;

(c) has resided in Canada for the twenty years immediately preceding the date aforesaid;

(d) has resided in the province in which the application for pension is made for the five years immediately preceding the date aforesaid;

distely preceding the said date:

(s) is not an Indian as defined by the Indian Act;
(f) is not in receipt of an income of as much as three hundred and sixty-five dollars (\$365) a year, and
(g) has not made any voluntary assignment or transfer of property for the purpose of qualifying for a

pension. (2) The receipt of a pension shall not by itself constitute a disqualification from voting at any provincial or municipal election.

Sec. 9 provides that the maximum pension payable shall be \$240 yearly, subject to reduction by the amount of the income of the pensioner in excess of \$125 a year. The pension authority may accept a transfer of the pensioner's interest in a dwelling house in which he resides, in which case the value of the dwelling will not be computed in calculating the amount of pension payable. The pension authority is entitled to recover out of the estate of any deceased pensioner the amount of pension payments with interest at 5 p.c., subject to the limitation that no claim shall be made for such recovery out of any part of the estate which passes by will or intestacy to any other pensioner or to any other person who has contributed, since the grant of the pension or for the last three years during which the pension has been paid, to the pensioner's support.

Secs. 10, 12, 13 and 14 provide for the distribution of the pension burden among the provinces where the pensioner has resided during the 20 years immediately preceding the grant of the pension. Sec. 11 provides for a reduction of pension where a pensioner has resided for a portion of the 20 years in a province with which no agreement is in force. Sec. 15 provides for a suspension of the pension where a pensioner has transferred his residence to some place out of Canada. It is provided by Sec. 16 that a pension shall not be subject to alienation or transfer by the pensioner or to seizure in satisfaction of any claim against him.

The Governor in Council was empowered by Sec. 19 of the Act to make Regulations pursuant to this section. Existing Regulations were revised and approved by an Order in Council dated Feb. 1, 1932.

During 1932 no additional provinces availed themselves of the provisions of the Dominion Act, and old age pensions continued to be paid in the provinces of Alberta, British Columbia, Manitoba, Ontario and Saskatchewan, and in the Northwest Territories. The New Brunswick Legislature, at its 1930 session, passed an Old Age Pensions Act, while similar legislation was enacted in 1931 by the provinces of Nova Scotia and Prince Edward Island, each Act to come into force on a day to be fixed by proclamation. The Gold Commissioner of Yukon was given authority, by a Yukon Territorial Council Ordinance passed in 1927, to enter into an agreement with the Dominion Government for the purpose of obtaining the benefit of the Old Age Pensions Act for residents in the territory. proposed scheme of administration for adoption in Yukon has been submitted for the approval of the Governor in Council. An Act was assented to by the Quebec Legislature in 1930 providing for the creation of a commission to study a system of social insurance for the province. On Oct. 30, 1930, a commission of seven members was appointed to study, among other matters, the subject of old age insurance. The fifth report of the commission, published in November, 1932, contained its findings on the subject of old age insurance. The majority report of the commission declared in favour of "a contributory and obligatory system of old age insurance", but that, pending the establishment of such a system, recommendation is made that "the Province of Quebec should at the earliest possible opportunity accept, as a temporary and transitory measure, the establishment here of the system of old age pensions now sanctioned by the Dominion law". At present Quebec is the only province which has not enacted old age pensions legislation and, under the terms of the Dominion Act, is therefore ineligible to enter into agreement with the Dominion Government to obtain the benefit of the provisions of the Dominion Act.

The percentage of old age pensioners born in Canada to all such pensioners was 62 and that of pensioners born in the British Isles 24, so that 86 p.c. of those receiving old age pensions in Canada were born either in Canada or in the British Isles. Pensioners born in the United States represented 3 p.c. of the total number of pensioners. Statistics showing the countries of origin, conjugal condition and previous residence in provinces other than that in which the pension was being drawn, were given at pp. 662-663 of the 1932 edition of the Year Book for the calendar year 1931. Table 24 is a financial summary of old age pensions in Canada as at the end of the calendar year 1932.

24.—Financial Summary of Old Age Pensions in Canada, by Provinces, as at Dec. 31, 1932.

Item.	Alberta. Act Effective Aug. 1, 1929.	British Colum- bia. ————————————————————————————————————	Manitoba. Act Effective Sept. I, 1928.	Ontario. Act Effective Nov. 1, 1929.	Saskat- chewan. Act Effective May 1, 1928.	North- west Terri- tories. Order in Council Effective Jan. 25, 1929.	Total.
Numbers of pensioners as at Dec. 31, 1932	5,105 18-92	6,945 18·73					70,516
total population. Percentages of persons over 70 years of age to total population.	0.69	1·00 3·00				0·06 0·95	
Percentages of pensioners to population over 70 years of age!	36-11	33.37		!			
paid since inception of Old Age Pensions Act to Dec. 31, 1932	2,668,409 1,638,508	' '	5 ,898,572 3,454,573				45,720,990 27,249,115

These percentages are based on the figures of the decennial census, 1931,

Section 11.—The Co-operative Movement in Canada.

A general article on "The Co-operative Movement in Canada" appeared at nn. 704-720 of the 1925 edition of the Year Book under the three sub-headings of "Consumers' Co-operation", "Co-operative Credit", and "Producers' Co-operation". Because of the pressure upon space, this article is not reprinted here, but a digest of the latest available material on each of these three sub-divisions of co-operation follows.

Subsection 1.-Consumers' Co-operation.

The co-operative store was first introduced into Canada by miners who had had experience of co-operation in Great Britain. The first co-operative store was opened at Stellarton, N.S., in 1861, and continued to do business until 1916. Many similar ventures were afterwards commenced, but a considerable number failed through their neglect to build up adequate reserve funds. In 1909 the Co-operative Union of Canada was formed, with six affiliated societies and 1,595 members; since October, 1909, it has published a monthly, The Canadian Co-operator, from which the following statistics (Table 25) showing the growth of consumers' co-operation in the societies affiliated with the Co-operative Union have been taken.2

25.—Statistics of Co-operative Societies Affiliated with the Co-operative Union of Canada, 1909-31.

Notz.—No data for the year 1916.										
Year.	Societies.	Members.	Share and Loan Capital.	Reserve Funds.	Stock in Trade.	Other Assets.	Sales.	Net Profits.	Purchase Dividends Paid	
	No.	No.	-	<u> </u>	3	1	\$			
1909	6	1,595	38,460	11,090	53,820	40.882	347,064		22,828	
1910	9	2,605		19,994	123,946		569,311	36,596	28,235	
1911	12	3.788	143,781	25,070	168,895	102,903	789,292	44,535		
1912	17	5,000			191,122			88.782	67,256	
1913	17	5.822		42,498				78,399		
1914		5,810		36,219		129.022	1,133,081	73,490		
1915	8	3,239		21,118			657,006	53,270		
1917	13	4,673	248,253	27,941	205,899		1,264,247	91,079		
1918	12	4,746						123,363	115,969	
1919		6,306			370,676			156,870		
1920	20 14	7,427 5.919		40,419 39,001	368,090 280,968			165,904		
1921 1922		6,552							144,512 138,762	
1923		4,846	381,656					172.972	140,991	
1924	14	7,047		94,856			2,675,852	212,493		
1925		7,308			351.732					
1926		7,804		208.449				230,535		
1927	24	8,914					4,481,574	283,777		
1928		74,836		2,523,646	1.103.323	13.305.918	8.147.967	1.057.581		
1929	41	10,648			663,476	1,006,628	5,030,560	238,302		
1930	38	10,462		362.127					195, 178	
1931	37	8,404	595,617	460,798	461,022	1,069,167	3,667,240	193,348	151,435	
	i	<u> </u>	<u>. </u>	l	ι	l		1	l '	

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The progress shown by the returns from the societies affiliated with the Cooperative Union does not represent the whole growth of the consumers' co-operative Although the societies affiliated with the Co-operative movement in Canada. Union are among the oldest and best established, there is a larger number of con-

pp. 708-709.

The decrease in membership is accounted for by the withdrawal of the United Farmers of Canada. Saskatchewan Section, Ltd., and the United Grain Growers, Ltd., the non-inclusion of the latter society being also mainly responsible for the decreases in the figures shown in the remaining columns.

¹ The article referred to above was prepared for the Year Book by Miss Margaret Mackintosh, M.A., of the Department of Labour, Ottawa.

* For details regarding the Co-operative Union of Canada and its activities, see the 1925 Year Book,

sumers' co-operative societies outside the Union than within it, the great majority of these being in the western provinces. In 1926, the Manitoba Co-operative League was organized to link up the co-operative societies in that province, and a similar organization was formed in Alberta in 1923. In Saskatchewan a conference of representatives of co-operative societies has been held annually since 1923.

The following table shows the number of co-operative societies in the Dominion, provincially arranged by groups, together with their respective memberships:—

26.—Number and Membership of Co-operative Associations in Canada, by Provinces and Types, 1932.

Note.—The figures for the Co-operative Union of Canada, which has 37 affiliated societies and a total membership of 8,404, have been included in the respective groups to which they belong.

Province.	Pro- ductive.	Market- ing.	Pro- ductive and Market- ing.	Distri- butive.	Marketing and Distri- butive.	Credit and Savings.	Com- munity Hall Societies.	Miscel- laneous.	Total.
		1 1	Nомв	er of As	SOCIATIONS	,	,	· · · ·	
Interprovincial Prince Edward Is-		21	-	-	1	-	-		2:
land Nova Scotia New Brunswick Quebec	1 6] 1 19	10 14 1	- 5 - 6	- - - 6	-	- ! 1 5 18	4 4 16
Öntario Manitoba Saskatchewan	26 3 2 4 7	4€ €0 δ	13 1 2	39 67 179	24 - 2 5	3 - -	- 4 63	8 9 68	13 14 32
Alberta British Columbia.	30	40	2 14		9	4	2	12 29	10 15
Totals	79	333	54	382	52	13	69	150	1,13
			Repor	тер Мер	(ВЕЖЫНІР,				
Interprovincial Prince Edward Is-		238,458		-	30,000		-	-	268,45
land Nova Scotia New Brunswick Quebec	12 659 18,754	229	3,590 94 43 974	5,798 7,311 101	404 - 321	- 41,000		28 1, 80 2 872	8,00 7,26 10,04 63,43
Ontario Manitoba Saskatchewan Alberta	123 30 37,015 3,876	6.147 42.977 25,675	2,943 29 1,925 1,940	4,331 3,859 40,185 5,926	264	1,(93 - 143	268 3,891	945 265 153,242 441	39,30 47,42 262,19 24,94
British Columbia. Totals	3,414	9,391	2,860 14,388	2,711	5.719	42,836	4,195	1,210	25,34

Subsection 2.—Co-operative Credit in Quebec.

A form of co-operation which has achieved great success is that which provides short-term credit for small farmers and industrial workers in the province of Quebec. In 1900, what are known as "Les Caisses Populaires", or People's Banks, were begun with the establishment, by the late Alphonse Desjardins, of La Caisse Populaire at Lévis. M. Desjardins adopted the principles of lending money only for approved purposes to carefully selected members in a restricted area, of limited liability, of withdrawable shares of small amount payable by instalments, and of distribution of profits. These banks are for the most part established in agricultural districts. Loans are made to purchase agricultural implements at cash prices, to increase farm

live stock, to improve farm buildings, to tide over a period of depression, to pay off a merchant and for various similar purposes. The loans, though comprised within the term "short credit", are for longer periods than are usual in ordinary commercial transactions because agricultural operations necessarily extend over longer periods than those of trade. They may be for 12, 15, or even 24 months, because they must give time for the farmer to realize on his products.

At present these banks are organized under the Quebec Syndicates Act, 1906. The value of the shares is generally \$5, which may be paid in instalments. The liability of the shareholders is limited to the value of their shares, which generally does not exceed \$2,000 per shareholder. Shareholders and borrowers must reside within the area of the bank's field of operations, except that under the by-laws shareholders who remove from the locality may continue their holdings in the bank but without participation in the management by holding office. Larger loans are made upon mortgage and the smaller ones upon notes, but interest and a portion of the loan capital must be repaid at fixed periods in such a way as to extinguish the debt within a determinate time. Each bank is administered by a board of from five to nine members. A credit committee of at least three members passes on the loans requested by shareholders, and a board of supervision of three members checks loans and value of securities, and audits the accounts. The members of these boards give their services gratuitously.

The following table (Table 27) exhibits the progress of the banks during the seventeen years 1915 to 1931. The table is compiled from statistics included in successive volumes of the Quebec Year Book.

Year.	Banks Reporting.	Members.	Depositors	Borrowers.	Loans Granted.	Value of Loans Granted.	Profits Realized.	
	No.	No.	No.	No.	No.	\$		
915	91	23,614		6,728	8,983	1,483,160	89,89	
916	94	25.028		6.696	11.201	1,641,258	100,94	
917	93	25,669			12,741	2,306,172	148.59	
918	98	27.593	20,672	8.056	14.293	2,673,096	180,03	
919	100	29.795		9,148	14,386	3,667,004	238,37	
920	113	31.752	26,238	9,213	15,390	4,841,544	311,32	
921,	100	31,029		9.219	14,983	1,248,725	352.94	
922	108	33,166			13,367	2,891,092	334,39	
923	111	32, 173		8.373	12,273	3,429,444	354,80	
924	119	31.250		8,414	11.017	3.763,852	398.97	
925	122	33,279		9,384	13,682	3,909,790	449,53	
926	154	36.298			15,843	4,496,956	468,0	
927	159	41,365			16.832	4,778,761	537,29	
928	168	41.374		11.885	17,403	5,047,769	571,60	
929	178	44,835			17,991	4,249,650	645.6	
930	179	45,767			18.857	3,724.537	645,09	
931	174	43,641	43.207	13,240	16,203	2,998,046	594,2	

27.—Progress of Co-operative People's Banks in Quebec, 1915-31.

Subsection 3.—Producers' Co-operation.1

The chief co-operative organizations of producers in Canada, as was clearly shown in the article on co-operation published in the 1925 edition of the Year Book, are still engaged in agricultural operations, including the grain growers of the prairies, the dairy farmers of Ontario and Quebec, and the fruit and vegetable growers of Nova Scotia, Ontario and British Columbia. The largest co-operative organizations in Canada are found among the grain growers of the Prairie Provinces.

¹ See also pp. 712-720 of the 1925 Year Book, and pp. 711-713 of the 1926 Year Book, pp. 786-737 of the 1931 Year Book, and pp. 686-667 of the 1932 Year Book.

Agricultural Co-operation in Canada.—Co-operative organization forms an integral part of the economic fabric of Canadian agriculture and is practised extensively in every province in the Dominion. In size, the co-operatives range from local associations with a limited sphere of operation to large organizations of national importance. The smaller co-operatives generally function in connection with community affairs or in the purchasing of supplies, while the larger co-operatives are generally interested in the distributive trades, processing or purchasing or combining these functions.

The largest co-operatives are found in Western Canada and function in the distribution of farm products. In the Prairie Provinces are large co-operative elevator companies with a total membership of about 150,000, handling a large share of the western wheat crop. These organizations, Manitoba Pool Elevators Ltd., Saskatchewan Pool Elevators Ltd., and Alberta Pool Elevators Ltd., were formerly part of the wheat pool organization but during the past two years have operated independently as co-operative grain handling concerns. These organizations operate on the patronage dividend basis. In addition, the United Grain Growers Ltd., is a joint stock company, operating in the Prairie Provinces and largely owned by farmers.

In the live-stock industry the largest farmer-owned organization is the Canadian Live Stock Co-operative Ltd., with a membership of about 10,000. This company is in affiliation with interests in Eastern Canada and comprises about 324 local associations. The United Farmers' Co-operative Co. Ltd., of Ontario and the Quebec Federated Co-operative are also affiliated for the purpose of marketing live stock.

In the wool trade, co-operative effort is represented by the Canadian Co-operative Wool Growers, with affiliated organizations in eight provinces. This co-operative engages in the storing, grading and marketing of wool and allied products.

There are 113 co-operatives engaged in processing, manufacturing and marketing dairy products in Canada. The largest of these co-operatives is the Saskatchewan Co-operative Creameries with a membership of 39,000. Manitoba Co-operative Dairies and the Alberta Milk Pool are large organizations in this field each with a membership of over 6,000.

The Canadian Poultry Pool operates largely in Western Canada but has affiliated organizations in Eastern Canada. The Pool has a combined membership of about 26,000.

In addition to the foregoing co-operative organizations many other co-operative organizations are engaged in handling farm products or in co-operative purchasing. Among these may be mentioned the Ontario Farmers' Co-operative Co. Ltd., which operates creameries, handles live stock, field crops and engages in purchasing for its members. In addition there are co-operative organizations throughout Canada engaged in the marketing of fruit, potatoes, honey and other farm products. Space will not permit a thorough canvass of co-operative effort throughout Canada, but this brief outline will serve to show the important place which co-operation occupies in the agricultural industry of Canada.

¹ Prepared under the direction of Dr. T. W. Grindley, Chief of the Agricultural Branch, Dominion Bureau of Statistics.

Section 12.—Labour Legislation in Canada.

A summary of Dominion and provincial labour laws in force at the end of 1928 was given in the Canada Year Book for 1929 at pp. 755-762, together with a note on the division of legislative jurisdiction as between the Dominion and the provinces. Summaries of legislation enacted in 1929, 1930 and 1931, were published in the Year Book for those years.

Labour laws enacted during 1932 by the Parliament of Canada and the Legislatures of the several provinces are contained in the Report on Labour Legislation in Canada, 1932, issued by the Department of Labour. The principal enactments of that year are summarized below.

Dominion Labour Legislation.—The Relief Act, 1932, authorizes the Governor in Council to enter into agreements with the provinces respecting relief measures and to pay out of the Consolidated Revenue Fund the sums necessary to meet obligations created by such agreements; to provide for special relief and works in the National Parks and in the drought-stricken areas of Saskatchewan; to assist in defraying the cost of the sale and distribution of natural products; to make loans to, and guarantee repayment of, money loaned to provinces or public corporations and undertakings; and generally to assist the provinces in the relief of distress.

The Unfair Competition Act, repealing those sections of the Trade Mark and Design Act which relate to trade marks, enacts provisions for the protection of trade marks, including trade union labels, in accordance with the Hague Convention of 1925.

Provincial Labour Legislation.—In Ontario and Quebec legislation was adopted making the Dominion Industrial Disputes Investigation Act applicable to disputes which are within the legislative jurisdiction of those provinces.

In Saskatchewan a number of amendments were made to the Mines Act, including a change of title to "The Coal Mines Safety and Welfare Act" A workman may not be employed above or below ground for more than eight hours per day except by mutual consent of employer and employee. Exception is made of employees in an office, boarding house or bunk house, in cases of emergency, at the weekly change of shift, and where continuous or technical work must be performed. The Minister may suspend the operation of those provisions in certain cases. Wages must be paid twice a month. An employee may authorize deductions for hospital dues, medical service or sickness fund by written order.

Certain sections of the Ontario Factory Shop and Office Building Act were made applicable to bake-shops and restaurants, including those regulating hours of labour, forbidding the employment of children under 14 years of age and of children under 16 years except on a school certificate, prescribing safety measures in connection with elevators and hoists, and forbidding the keeping of premises so as to endanger health or safety. Other changes in the Act were designed to bring such places as bowling alleys and shoe-shine parlours within its scope and to give better control of child labour in lumber yards, etc. The inspector may grant a permit for the operation of a factory by a double shift. In such cases hours of labour may not exceed eight for each shift nor sixteen for both shifts and the double shift must fall between the hours of 6 a.m. and 11 p.m. Women and young persons must be allowed at least one hour in each shift for a meal. The section permitting women and young persons to be employed in shops up to 10 p.m. on Saturday, the day

before a statutory holiday, and from Dec. 14 to 24, was amended to limit their hours of work to 10 per day and 60 per week. The section providing for inspection of houses where articles of clothing, etc., are being made under contract was extended to make similar provision for the manufacture of any household article. The Lieutenant-Governor in Council is authorized to make Regulations for the protection of workers in contact with benzol or other industrial poison.

In Prince Edward Island, the Electrical Inspection Act provides for the inspection and regulation of electrical installations.

By an amendment to the Shops Regulation Act of British Columbia, the working hours of children under 16 in shops were limited to 8 per day and 48 per week.

Sections added to the Highway Traffic Act of Manitoba empowered the Municipal and Public Utility Board to regulate the hours and rates of wages of employees of persons operating public service vehicles.

The Ontario Public Commercial Vehicle Act was amended to authorize the Lieutenant-Governor in Council to regulate hours of labour for drivers of such vehicles.

The scope of the Quebec Minimum Wage for Women Act was extended to include commercial establishments. Two members of the Minimum Wage Commission are to represent the female employees. The Commission was authorized to fix a special scale of wages for seasonal workers.

The Ontario Minimum Wage Act was amended to require employers to keep records of the names, addresses, rates of wages, hours of labour, actual earnings and actual time spent in work of all female employees, together with the ages of those under 18 years of age.

An amendment to the Alberta Child Welfare Act widened the term "neglected child" to include any girl, any boy under 12, or any boy between the ages of 12 and 14 who engages in any street trade unless he has the consent of his parent or guardian.

The Ontario Apprenticeship Act was amended to provide for an Apprenticeship Board of three members, in place of the tripartite committee established by the principal Act, and for the appointment of inspectors in addition to the Chief Inspector. The Board was authorized to make inquiries as to the opinions of employers and employees in the designated trades with regard to suggested changes in the Act and Regulations, and no changes may be made without written notice to the employers and employees concerned.

The New Brunswick Workmen's Compensation Act was revised and amended following the report of a commission appointed in 1931 to inquire into its operation. Clerical workers were brought within the scope of the Act. A clause was added which provides that where the accident arises out of employment, unless the contrary is shown, it shall be presumed to have occurred in the course of employment and vice versa. When a workman is engaged on work that is performed both within and without the province, the employer must include the workman on his pay roll submitted to the Board and notify the Board that he will be so engaged. Should the employer fail to do so, he is individually liable for compensation unless it can be claimed under the laws of the place where the accident happened. Application for compensation must now be made within six months, instead of one year, after the accident or within six months of death. "Medical aid" was extended to include artificial members and apparatus. The Board was authorized to expend up to \$15,000 per annum in order to rehabilitate injured workmen.

The Workmen's Compensation Acts of Alberta and Ontario were also amended following the reports of special bodies appointed to inquire into their operation-In Alberta the Workmen's Compensation Board was authorized to enter into agreements with the boards of other provinces to provide for compensation to workmen employed partly in Alberta and partly in another province. In the case of dependants or a workman suffering from permanent partial disability who wishes to reside outside Canada, the Board may, in lieu of commuting at the capitalized value of the payments, award such lesser sum as will in its opinion permit the same degree of comfort as full compensation in Alberta. Restaurants and retail shops were added to the establishments covered by the Act.

Changes in the Ontario Workmen's Compensation Act included the stipulation that in case of injuries to a minor unlawfully employed, the unlawful employment shall not affect the right of the claimant, and the employer may be made individually liable for the payment of compensation. Dental treatment was included in "medical aid". The following were added to the schedule of industrial diseases: infected blisters, bursitis, dermatitis and cancer arising from the manufacture of pitch and tar.

In all provinces except Prince Edward Island, legislation was enacted enabling those provinces to take advantage of the Unemployment and Farm Relief Act passed by the Parliament of Canada during the 1931 session. The Quebec Legislature enacted a law providing that the wages of workmen employed on unemployment relief works carried on under certain Dominion and Provincial Statutes should not be seizable for debt.

A Nova Scotia Act provided for the settlement of unemployed coal miners on In Quebec an Act was also passed to promote land settlement.

The Employment Bureau Act of Quebec was amended to provide for the abolition of private fee-charging employment bureaus.

In Nova Scotia an Act was passed to provide for a Department of Labour.

A section added to the Ontario Department of Labour Act empowers an inspector employed by the Department to order immediate cessation of any work to which any Act administered by the Department applies and which he considers dangerous to life or property.

In Ontario and Manitoba the laws providing for old age pensions were amended to enable those provinces to take advantage of the 1931 amendment to the Dominion Act, which increased the amount of the Dominion contribution from 50 to 75 p.c. of provincial disbursements.

Section 13.—Legislation Respecting Combinations in Restraint of Trade.

A general article on Canadian legislation concerning trade combinations and monopolies against the public interest will be found at pp. 765-770 of the 1927-28 Year Book under the heading "Legislation respecting Combinations in Restraint of Trade". The article outlines the provisions of the Combines Investigation Act and reviews the principal cases dealt with under the Act up to Mar. 31, 1927. brief statement of the provisions against combines as contained in the Criminal Code, the Customs Tariff, the Excise Act and the Patent Act is included.

¹ R.S.C., 1927, c. 146, ss. 496-498. 2 R.S.C., 1927, c. 44, s. 15. 3 R.S.C., 1927, c. 60, s. 27. 4 R.S.C., 1927, c. 150, s. 40.

further section of the article summarizes former Canadian legislation for the investigation of combines, including the Combines Investigation Act of 1910 and the Combines and Fair Prices Act of 1919.

The Combines Investigation Act.—The Combines Investigation Act (R.S.C., 1927, c. 26) is designed, as its full title indicates, "to provide for the investigation of combines, monopolies, trusts and mergers", and declares to be unlawful only such combines as "have operated or are likely to operate to the detriment or against the interest of the public, whether consumers, producers or others". The Statute provides that an inquiry shall be made by the Registrar on receipt of an application signed by any six British subjects resident in Canada; or if the Registrar has reason to believe that a combine exists, or if the Minister of Labour so directs. If after preliminary inquiry sufficient evidence is disclosed to justify further investigation, this may be conducted by the Registrar or by a special Commissioner appointed by the Governor in Council. Full authority is given the Registrar and the Commissioner to examine witnesses on oath and compel the production of records and documents.

The remedies provided by the Act are those of publicity and penalty. proceedings are conducted in private, unless otherwise ordered by the Minister, but the report of any Commissioner is required to be published within fifteen days of its receipt by the Minister. Whenever in the opinion of the Minister an offence has been committed, he may remit the report and the evidence to the Attorney-General of the province concerned. The penalty section of the Statute provides that any person who is a party or privy to, or knowingly assists in, the formation or operation of a combine is guilty of an indictable offence and liable to a penalty not exceeding \$10,000 or to two years' imprisonment, or, if a corporation, to a fine not exceeding \$25,000. Provision is also made in the Act for the reduction or removal of the customs duty on any article of commerce, among the manufacturers or dealers in which there exists a combine, the operation of which is facilitated by the tariff. Similarly, the Exchequer Court may revoke a patent if there is evidence to show that the holder of such patent has made use of his exclusive rights to limit production or competition unduly, to enhance prices unreasonably, or to restrain or injure trade.

The constitutional validity of the Combines Investigation Act was given final confirmation by the Judicial Committee of the Privy Council in a decision delivered in January, 1931. This judgment confirmed the unanimous decision of the Supreme Court of Canada, given in April, 1929, after a reference for determination of this question had been made to the Courts by the Dominion Government. Both courts upheld also the constitutional validity of Section 498 of the Criminal Code, relating to combinations in restraint of trade.

Combine Cases in 1932.—An investigation under the Combines Investigation Act into an alleged combine of manufacturers of fruit baskets and other containers for fresh fruits and vegetables was completed by the Registrar early in 1932,

following charges of price agreements among Ontario basket manufacturers. The report of the investigation was not published and was referred to the Attorney-General for Ontario, who issued instructions for prosecution, but the case had not reached the courts at the end of 1932. An alleged combine of manufacturers of radio tubes was investigated by the Registrar. The application alleged the fixing of common selling prices at unreasonably high levels and a detrimental lessening of competition. The report was not published and was remitted to the Attorney-General for Ontario. No court proceedings were taken. An inquiry into an alleged combine in the importation and distribution of Welsh and Scotch anthracite coal was instituted in November, 1932, and hearings were held in Montreal and Quebec in December and January. An investigation into an alleged combine of buyers of Ontario-grown tobacco was also in progress at the end of 1932. No Commissioners were appointed under the Act during the year.

Prosecution of fifteen companies and three individuals engaged in the motion picture industry in Canada, on charges laid under the Combines Investigation Act and Section 498 of the Criminal Code, resulted in the acquittal of all of the accused. The trial followed an investigation in 1931 by Mr. Peter White, K.C., as a Commissioner under the Combines Investigation Act. The prosecution was conducted under the Attorney-General for Ontario. The judgment of the Court, delivered by Mr. Justice Garrow in March, 1932, held that the prosecution had failed to prove the existence of agreement among the accused to lessen competition in, or substantially control the supply of, motion picture films in Ontario. An appeal by the members of the Electrical Estimators' Association, a combine of electrical contractors in the city of Toronto, against their conviction by Mr. Justice Raney in January, 1932, following an investigation under the Combines Investigation Act, was dismissed in the Appellate Division of the Supreme Court of Ontario in October, 1932. Members of fifteen firms paid fines totalling \$26,200.

The annual report of the Registrar of the Combines Investigation Act, dealing at greater length with the above subjects and referring also to other inquiries, is published as a section of the Annual Report of the Department of Labour.

PART II.—WAGES AND COST OF LIVING.

Section 1.—Wage Rates.¹

Statistics of rates of wages and hours of labour have been collected for recent years by the Dominion Department of Labour, and are published in a series of bulletins supplementary to the Labour Gazette. Report No. 1 of this series was issued in March, 1921. The records upon which the statistics are based begin in most cases with the year 1901. Index numbers have been calculated to show the general movement of wage rates; the series covers 21 classes of labour back to 1901, 4 classes of coal miners back to 1900, and common factory labour, miscellaneous factory trades and lumbering back to 1911. The index numbers are based upon wage rates in 1913 as 100.

¹See pp. 774-783 of the 1927-28 Year Book for an article on the "Wages Statistics of the Census of 1921",

The accompanying table of index numbers (Table 1) shows the relative changes from year to year. A downward movement appeared in most of the groups in 1921 and 1922, after the peak had been reached in 1920. The index numbers for 1923 and 1924 showed on the whole a slightly upward trend, but while there were slight increases during 1925 in some groups, a substantial decline in coal miners' wages reduced the average. In 1926 slight increases took place in the wages paid by the building, metal and printing trades, electric railways and steam railways. In 1927 general increases took place in all the six groups included in the average, as well as in the other three groups; wage increases in the building trades and on the steam railways were the outstanding features of the year. In 1928, except steam railways which was stationary and common factory labour which declined fractionally, all groups showed an upward movement, a substantial increase appearing in building trades. In 1929 all groups except coal mining were higher, the building trades showing the greatest increase. In 1930 building trades showed a substantial increase, lumbering a decrease and other groups fractional increases. In 1931 all groups were down except printing which showed a slight advance and coal mining which was unchanged. In 1932 all groups were down, the decreases being greatest in lumbering, building trades and steam railways.

Rates of wages and hours of labour in 1932 in various trades in the largest cities of the five economic areas of Canada, will be found in Table 2. The attention of those specially interested in the subject of wages and hours is directed to the valuable detailed study, "Wages and Hours of Labour in Canada, 1930, 1931 and 1932", published by the Department of Labour as a supplement to the Labour Gazette, January, 1933.

1.—Index Numbers of Rates of Wages for Various Classes of Labour in Canada, 1913-32.

(Rates of Wages in 1913 = 100. Index numbers for 1901-12 were given at p. 674 of the 1932 Year Book.)

Year.	Average.1	Build- ing Trades.	Metal Trades.	Print- ing Trades.	Electric Rail- ways.	Steam Rail- ways	Coal Mining.	Com- mon Factory Labour	Miscel- laneous Factory Trades	Logging and Saw- milling.
1913	100 0	180 0	100 0	100 0	100.0	100 0	100 0	100 0	100 · 0	100.0
	101 · 3	100 8	100 5	102-4	101.0	101 · 4	101 9	101 · 0	103 · 2	94.7
	101 · 4	101 5	101 5	103-6	97.8	101 · 7	102 3	101 · 0	106 · 2	8).1
	105 · 8	102 4	106 9	105-8	102.2	105 · 9	111 7	110 · 4	115 · 1	109.5
	119 · 9	109 9	128 0	111-3	114.6	124 · 6	130 8	129 · 2	128 · 0	130.2
1918	143 · 6	125.9	155·2	123 · 7	142 · 9	158 · 0	157·8	152 · 3	146 · 8	150 · 5
1919	165 · 3	148.2	180·1	145 · 9	163 · 3	183 · 9	170·5	180 · 2	180 · 2	169 · 8
1920	• 197 · 8	180.9	209·4	184 · 0	194 · 2	221 · 0	197·7	215 · 3	216 · 8	202 · 7
1921	191 · 2	170.5	186·8	193 · 3	192 · 1	195 · 9	208·3	190 · 6	202 · 0	152 · 6
1922	182 · 4	162.5	173·7	192 · 3	184 · 4	184 · 4	197·8	183 · 0	189 · 1	158 · 7
1923.	183 · 3	166·4	174-0	188 · 9	186 · 2	186 · 4	197 · 8	181-7	196 · 1	170 · 4
1924.	183 · 7	169·7	175-5	191 · 9	186 · 4	186 · 4	192 · 4	183-2	197 · 6	183 · 1
1925.	179 · 7	170·4	175-4	192 · 8	187 · 8	186 · 4	167 · 6	186-3	195 · 5	178 · 7
1926.	180 · 5	172·1	177-4	193 · 3	188 · 4	186 · 4	167 · 4	187-3	196 · 7	180 · 8
1927.	184 · 3	179·3	178-1	195 · 0	189 · 9	198 · 4	167 · 9	187-7	199 · 4	182 · 8
1928	187+6	185 · 6	180-1	198-3	194·1	198 · 4	168-9	187 · 1	200 · 9	184-3
	192+7	197 · 5	184-6	202-3	198·6	204 · 3	168-9	187 · 8	202 · 1	185-6
	194+4	203 · 2	186-6	203-3	199·4	204 · 3	169-4	188 · 2	202 · 3	183-9
	193+8	195 · 7	182-9	205-1	192·4	199 · 2	169-4	183 · 4	197 · 3	163-0
	179+3	178 · 2	174-7	194-2	180·7	183 · 9	164-0	173 · 6	184 · 3	141-3

 $^{^{\}circ}$ Revised figures: for 1931 and 1932 the percentage changes in daily wages instead of hourly wages have been used for electric railways.

2.—Rates of Wages and Hours of Labour in Various Trades,¹ and of Unskilled Factory Labour in Certain Cities of Canada, 1932.

Note.—Corresponding figures for 1920-26 will be found at pp. 720-721 of the 1926 Year Book and for later years in subsequent issues.

	Halif	az.	Montre	eal.	Toron	to.	Winnip	eg.	Vancou	ver.
Occupation.	Wages per hour.	Hours per week	Wages per hour.	Hours per week	Wages per hour.	Hours per week	Wages per hour.	Hours per week	Wages per hour.	Hours per week.
1. Building Trades—		[-	\$		\$		\$		\$	
Bricklayers Carpenters Electrical	-974 -671	44 44	-75 -60	44 44-55	1-00 -99	40 40	1.35 1.00	44 44	1 · 224 -874	40 40−44
workers Painters Plastorers Plumbers	-85 -674 -85 -85	44 41 44 44	· 75 · 65 · 85 · 75	44 14-49] 44-49] 44		40 44 40 40	1.00 .7080 1.35 1.15	44 44 44 44	1.00 .75 1.00-1.25 1.00	44 44 40 40
Sheet metal workers Stonecutters Labourers	·75 ·90	44 44	-65 -75-1-00	41 44	.90 1-00	40 40	-85 1 · 15	44 44	1·00 1·25 ·40-·50	40-44 40
2. Electric Railways— Conductors and motormen ²	·6L	60	.55	703	-50	40-48	-58	42	·63	48
Linemen Shoo and barn	-5577	44	-5155		-7278	36	-86	44	-6997	32
men Electricians Trackmen and	-5177 -7277	44-56 44	·3862 ·5565			33 32–33	•4070 •5770		-4875 -7075	
labourers 3. Printing Trades— Compositors, machine and	-4050 Wages per week.	44	-35 Wages per week.	48	·50-·59 Wages per week.	32	·404 Wages per week.	44	·50-·59 Wages per week.	44-48
hand, news. Compositors, machine and	35-00	48	38.00-44.00	48	47-50	46}	43 - 00	46	43,20	45
hand, job Pressmen, news Press nen, job.	35 00 34 00 31 00	48 44–48	32.40-48.00 35.00-40.00 32.00-36.00	48 44 48	35.00-40.00 46.50 33.00-40.00	48 44 48	42.00 39.60	44-48 48 44-48	43 - 20 40 50	44-48 48 44-48
Bindery girls.	30.00-40.00 11.00 Wages per hour.		30.00-33.75 12.50-15.06 Wages per hour.	48 48	33.00-38.00 15.00-18.00 Wages per hour.		35.00-39.00 10.00-18.00 Wages per hour.		38.56-40.50 16.00-20.25 Wages per hour.	
4. Unskilled Fac- tory Labour	-31}34	48-50	-2035	44-60	·3644	2 5}-54 .	·3042}	27-50	·22½47¾	44-48

¹ For statistics of the wages and hours of employees of ateam railways and wages of employees in and about coal mines in Canada, see pp. 751-752 of the 1830 Year Book where the rates, etc., for the past seven or eight years, to 1829, are given. Except for a ten p.c. reduction in Nova Scotia in coal mines in 1932, these rates were unchanged down to December, 1832. In previous editions of the Year Book a table showing the wages and hours of common labour in factories for certain cities has also been given in this section. This has been omitted this year to conserve space, but the information can be found at p. 35 of "Wages and Hours of Labour in Canada", published as a supplement to the Lubour Gizette for January, 1933. For the five cities of Table 2 it is included under sub-heading 4 of the stub.
² Final maximum rate after annual increase. ³ One day off if possible.

Control O Western and House of Falses Head and

Section 2.—Wages and Hours of Labour Under Minimum Wage Boards in Canada.

Seven provinces have in effect legislation providing for minimum rates of wages for female employees in certain industries, and also have certain restrictions of hours. In British Columbia similar legislation applies to males, both as to wages and hours. In Alberta the legislation applies to males in certain respects. Such legislation was first enacted in these provinces as follows: British Columbia and Manitoba in 1918; Saskatchewan and Quebec in 1919; Alberta, Nova Scotia and Ontario in 1920. The British Columbia legislation as to wages for adult males was enacted in 1925 but that as to hours in 1923. In each province these statutes became effective through orders issued and administered by Boards. A Board was established in Quebec in 1926. In Nova Scotia a Board was appointed in 1930. In New Brunswick an Act was passed in 1930 to come into force on proclamation but it has not yet been proclaimed.

3.—Minimum Wages and Maximum Hours of Labour for Female

		Alberta.			Britis	h Colum	bia (i	r).	M	lanitoba	(a).	
Industry or Occupation	Wages p	er week.	Но	urs.	Wages p	er week.	Hou	18.	Wages p	er week.	Hou	rs.
	Adults, experi- enced.	1	per day	per wk.	Adults, experi- enced.	Minors, learners, etc.	рет day	per wk,	Adults, experi- enced.	Minors, learners, etc.	per day	per wk.
Factories	† 12.50	6.00- 10.00	9	48	\$ 14.00	7.00- 13.00	8	48	\$ 11.00- 12.00	8.00- 11.00		48-50
Dressmaking	† 12.50	(g)6.00~ 10.00	9	48	14.00	7.00- 13.00	8	48		(g)6.00- 11.00	(m)	50
Millinery	† 12.50		9	48	14.00	7.00- 13.00	8	48	12.00	(u)5.00- 10.00	(m)	50
Tailoring	† 12.50	(g)6.00-	9	48	14.00		8	48	12.00	6.00- 11.00	9	50
Fur-sewing	† 12.50		9	48	14.00	7.00-	8	48	(h)12.00	8.00- 10.50	9	48
Fruit and vegetable canning, etc.	12.50	9.00- 10.00	9	48	‡14.40	13.00		48	11.00- 12.00	8.00-	9	48-50
Printing, etc	† 12.50	7.00-	9	48	14.00	7.00~ 13.00	8	48		8.00-	9	48
Laundries, etc	† 12.50	9.50-	9	48	13,50	8.00- 12.00	1	48	(h)12.0		9	50
Retail stores	12.50	7.50-	9-		12.75	7.50-	-	48	12.0	7.00-	(m)	48
Hotels, restaurants, etc	† 12.50- 14.50	11.00 9.00- 13.00	9	48- 56		12.00 12.00		48	12.5		10	48
Theatres, amusement	t (p)14.00	-	9	48	(p)14.25	s	_	48	(h)12.0	0 -	9	48
Personal service, hair- dressing, etc	il i "	1	9	48	(p) 14.2	10.00- 13.0	0	48	12.0	0 (g)8.00 11.0	(m.	
Offices and clerical work	. † 14.00	1	9	48	15,00	11.00-	-	48	(h)12.5	0 8.00- 11.5	8	44
Telephone and tele	- tz14.00		1	48	15.00	11.00-	8	48	-	. .	-	-
Elevator operators	1	12.00	9	48		13.0		48	-	-	-	

*Cities and towns only.

†Applicable to certain cities and towns only.

Ten per cent lower, June 15 to Nov. 15, 1933.

"Rates for most classes reduced by 10 p.c. for experienced adults and 5 p.c. for those with one year's

experience, June, 1932 to April 1, 1933.

(a) In Manitoba, in brickyards and in seasonal and casual employment in industries not otherwise

covered, a minimum wage of \$12 per week or 30 cents per hour is established.

(b) For Ontario the ranges of rates shown for experienced adults cover the various rates set for localities according to population. In 1932 a minimum wage rate of \$12.50 per week, 50 hours maximum, was set for Toronto.

(c) Seasonal cameries included under separate order: 18 to 60 years of age, 18 to 25 cents per hour, other

ages. 15 to 20 cents.

(d) The Factory Act provides for maximum hours for female employees, 10 per day and 60 per week.

(e) Textile and knitting factories: \$10.00-\$12.00 for emerienced adults, \$6.00-\$10.00 for minors and learners; boot and shoe and leather trades: \$8.00-\$12.50 for experienced adults, \$5.00-\$11.00 for minors and learners; various classes of clothing and tobacco factories: \$9.00-\$12.50 for experienced adults, \$6.00-\$11.00 for minors various classes of coording and conacco factories; \$4.00-\$12.50 for experienced adults, \$5.00-\$11.00 of minors and learners; these rates to be paid for 44-55 hours per week in clothing factories and for 50-55 hours in tobacco factories, prorata for additional hours.

(i) The Factory Act provides for maximum hours, for female employees, 10 per day and 55 per week.

(g) Probationary period without minimum rate.

(h) Winnipeg and vicinity only, and Brandon for fur-sewing and theatres, etc.

(i) In real order houses and in rates is cloves in cartain cities and towns.

(j) In mail order houses and in retail stores in certain cities and towns. (k) In the fishing industry a minimum rate of \$15.50 per week (48 hours) or 32% cts. per hour is set for experienced workers (12 months); \$12.75 to \$14.75 under one year.

Subsection 1.—Minimum Wages for Females.

The above table gives summary figures of minimum rates of wages in force under these Boards at the end of 1932. Orders and amendments issued from time to time have appeared in summary form in the Labour Gazette, as issued. In some provinces these orders include Regulations as to employment

Empioyees under	Orders of Minimum	Wage Boards in	Canada, 1932.
-----------------	-------------------	----------------	---------------

No	va Sco	tia."			Ontario (ъ).		1	Quebec.			8	skatcher	wan†	**
Wag per w		но	urs.	Wa per v	ges veek.	Ho	urs.		ges veek.	Но	urs.		Wages per week.		urs.
Adults, experi- enced.	Min- ors, learn- ers, etc.		Per wk.	Adults, experi- enced.	Min- ors, learn- ers, etc.	Per day		Adults, experi- enced.	Min- ors, learn- ers, etc.	Per day	Per wk.	Adults, experi- enced.	Min- ors, learn- ers, etc.		Per wk
10.00-	\$ 6.00- 10,00 6.00- 10.00	1	(t)	\$ (c)10,00- 12.50 (v)		- -	l ' '	(e) 8, 00- 12, 50 9, 00- 12, 50	11.00 6.00-	-	(f) 44- 55	14.00 (j) 15.00	\$ 7.50- 11.50 (g)3.00- 12.00	-	49- 51
10.00- 11.00 10.00- 11.00	6.00- 10.00 6.00- 10.00	_	(I)	(r)10.00- 12.50 (s)10.00- 12.50	11.00	! -	- -	9.00- 12,50	6.00- 11.00	-	- 44- 55	(j) 15.00	(g)3.00- 12.00	-	49- 51 49- 51
	6.00-	_	0	(v) (e)10.00-	6.00-	_	(d)	10.00- 12.50 -	6.00- 11.00 -	- -	44- 55 -		7.50-	- -	-
10.00- 11.00 10.00-	10.00 6.00- 10.00 6.00- 10.00	- -	l ' ' l	12,50 10,00- 12,50 11,00- 12,50	10.00 6.00- 10.00 7.00- 11.00	~ 	1 ' '	9.00- 12.50 9.00- 12.00	7.00-	-	(f) -		11.50 7.50- 11.50 9.50- 11.50	-	48
-	8.00-	_		8,00- 12,50 10,00- 12,50	6.00- 11.00 -	l –	(l) (n)	-	-	- -	- -	(j) 15.00 (o)13.00- 14.00	7.00- 13.50 11.00-	-	49~ 50- 50-
-	- -	-	-	11.00- 12.50 (s)12.00-	6.00-	-	(q) -	-] -	-	 -	 -	- 15.00	10.00-	10	54
-	- ;	-	-		(s)10.00 (w)6.00- 11.00	-	-	_	-	-	-	_	12.00	-	-
y9.00- 11.00	y6.00- 10.00	- -	l ' .	(t)7,00- 12,50 8.00- 12,50	11,00		-	- -	-	-	-	-	-	-	

(1) Rate applies to work between 44 and 50 hours per week, hours in excess of 50 to be paid at not less than a rate based on 50 hours per week; hours under 44 at a rate based on normal hours in establishment.

(m) Longer working time permitted on Saturdays, etc., and sometimes in certain months.

(n) Full minimum rate for 36 hours or longer up to 56 hours; for time under 36 hours and over 50 hours, 20 to 25 cents per hour, according to population; order applies only to localities of 4,000 and up.

(a) Kitchen help \$11 per week of six days or \$12 per week of seven days; 35 cents per hour.

(a) Nuchen help \$11 per week of six days of \$12 per week of seven days; so cents per dour.
(b) Including garages, gasolene service stations, shooting galleries, elevator service, etc.; in British Columbia, drivers of vehicles, ushers, cloak room attendants, etc., special provision for broken and part time
(c) Full minimum rate for 40 hours or more worked; 25 to 30 cents per hour for work less than 40 hours. (r) Custom millinery in localities of 4,000 population and up.

(s) Cities of 30,000 and up.

(a) Cities of 3,000 and up.
 (b) Telephone only in localities of 4,000 and up and those having 200 or more telephone subscribers.
 (u) Probationary period in departmental stores with minimum of \$6\$ thereafter.
 (v) In establishmenta classified as factories, covered by factory orders.

(w) Applies also to wholesale houses and warehouses.(y) Telephone only. (z) For telephone work and applies to private telephone exchanges in localities of 600 and over, and public exchanges having over 250 subscribers.

conditions, terms of employment, sanitary conditions, etc., and all provide for variations under licence from the Boards to permit lower rates of pay for handicapped employees, etc., and to meet special conditions,

In this table the figures for adult learners and for minors and apprentices are shown in a range covering both classes. There is considerable variation in the rates for such classes in the various industries and the time allowed for such periods varies considerably, from a few weeks to two years and upwards. number of learners and apprentices is usually restricted to 25 p.c. of the employees.

The hours of labour shown in Table 3 are those for which the minimum rates are payable, or the maximum hours of work established by the Minimum Wage Boards or provided for under other legislation, particulars in some instances being given in the footnotes.

The information here given is intended to afford a statistical summary of the minimum wages and restricted hours of labour in the provinces and industries affected and, while some of the more significant details have been given in footnotes, it has been found impossible to include the information in such form as to indicate any more than the general conditions under these provisions.

In Alberta and British Columbia certain rates were reduced temporarily in 1932 as shown in footnotes to the table. In Alberta the rates in hotels and restaurants were reduced.

Subsection 2.—Minimum Wages for Male Employees.

In Alberta, a revision of the Factories Act in 1926 provided that in establishments governed by the Act, which include shops, hotels, restaurants, and office buildings, no male may be employed at a lower wage than the minimum rate for female employees in the same class of work except apprentices under indenture approved by the Commissioner of Labour, who is the Secretary of the Minimum Wage Board.

In British Columbia the orders issued under the Male Minimum Wage Act, 1925, having been declared invalid in October, 1928, by the Supreme Court of Canada (Labour Gazette, November, 1928, p. 1310), a new Act was enacted in the session of 1929, applying like the original to all occupations other than those of farm labourers, fruit pickers, fruit packers, fruit and vegetable canners and domestic servants. On Jan. 22, 1930, an order effective from that date was issued providing for a minimum rate of 50 cents per hour for "stationary steam engineers" and 40 cents per hour for "special engineers" as defined under the "Boiler Inspection Act"

In Manitoba an amendment, in 1931, to the Minimum Wage Act, made all orders applicable to boys under 18 years of age. The order regarding employment in retail stores was then amended to permit boys to work 50 hours per week instead of 48 hours, the maximum for female employees. In 1932 a special Regulation regarding employment of boys under 18 years of age was made, providing for a minimum of \$8 per week for the first six months, \$9 for the next six months, and \$10 thereafter, with a maximum of nine hours work per day and 48 per week in manufacturing establishments, and garages and filling stations in Winnipeg and vicinity.

Section 3.—Cost of Living of Wage Earners.

An index number of the cost of living in working-men's families has been computed by the Department of Labour since 1913, and is published monthly in the Labour Gazette. This index is specifically designed for the purpose of measuring

the trends of the cost of living for certain wage-earning classes with a somewhat lower standard of living than that which is measured by the Bureau of Statistics index number of retail prices, shown on pp. 810 of the present volume. The former wage-earner's index is used extensively in negotiations as to wage rates and in the settlement of industrial disputes. An abridgment of this index is presented in Table 4.

4.—Changes in the Cost of Living in Canada from 1914 to 1932.¹
(Average prices in 1913 = 100.)

Month and Year.	Food.	Fuel and Light.	Rent.	Cloth- ing.	Sund- ries.	All Items.
Dec. 1914	108	98	97	103	100	103
ec. 1915	111	96	94	115	110	107
ec. 1916	138	109	95	136	122	124
Dec. 1917	167	125	102	158	134	143
Dec. 1918	186	146	111	185	151	162
Dec. 1919 Dec. 1920	201	148	122	210 232	164 173	176
	252 150	200 172	142 150	177	173	190
Dec. 1921	142	177	155	162	174	161 157
Dec. 1923	146	172	158	164	171	157
Dec. 1924	144	162	158	159	169	156
Dec. 1925	157	166	158	159	166	160
Dec. 1926.	152	162	156	157	166	157
Dec. 1927	152	158	156	155	166	157
Dec. 1928	154	157	157	157	166	158
Dec. 1929	161	157	158	156	166	160
Dec. 1930	138	156	160	148	165	151
[ar. 1931	124	156	160	141	164	148
ine 1931	1111	153	158	137	164	138
ept. 1931	109	151	158	127	163	136
Dec. 1981	107	152	158	127	163	135
an, 1932	105	152	158	123	162	133
eb. 1982	100	151	158	123	162	132
lar. 1932	99	151	158	123	162	131
pril 1932	98	150	158	123	162	131
[ay 1932	94	148	148	120	162	127
ine 1932	93	148	147	120	162	126
uly 1932	92	148	147	116	161	12
ug. 1932	96	148	147	116	161	126
ept. 1932	95	147	147	116	161	120
et. 1982	96	146	147	114	161	120
lov. 1932	97	145	143	114	161	125
Pec. 1932	96	145	141	114	161	12

^{&#}x27;The figures for "all items" were calculated by giving the following weights to each group: Food 35 p.c.; Fuel 8 p.c.; Rent 18½ p.c.; Clothing 18½ p.c. and Sundries 20 p.c.

Section 4.—Earnings in the Census Year, 1931.

The total number of wage earners in Canada reporting earnings for the census year ended June 1, 1931, was 2,477,038 or 96.53 p.c. of all wage earners and the total amount of their earnings was \$2,102,877,400. Of this number 1,948,500 were males and their earnings amounted to \$1,806,633,400 or 85.91 p.c. of the total earnings. Females reporting earnings numbered 528,538 and the total amount of their earnings was \$296,244,000 or 14.09 p.c. of total earnings. The total weeks worked by wage earners reporting earnings was 104,947,274. The number of weeks worked by the males was 80,322,382 or 76.54 p.c. of the total for both sexes, and the total for the females was 24,624,892 weeks or 23.46 p.c. of the grand total.

5.—Wage Earners Ten Years of Age and Over, by Sex and Industries, with Total and Average Earnings and Number of Weeks Worked, in the Twelve Months Preceding June 1, 1931.
MALES.

Total Number whose Earnings Average Yearly are Stated. Earnings and Average Num-per of Weeks of ber of Weeks of Employment Total for Census Year. Industrial Group. Wage Earners. Persons. Earnings. Weeks. Average Average Weeks. ings. No. No. No. No. 3 197.204 187.356 59,782,000 8, 161, 386 219 43.56 Agriculture..... 55,861 27, 172, 300 1,957,903 486 35.0557,462 Forestry, fisheries, trapping 67.22360.711.500 2.440.913 903 36.31 68,507 Mining, quarrying, oil and salt wells... 485,718 504,224,200 20,302,821 1.038 41.80 495,533 Manufacturing... 59,301,900 35,185,100 42,899,700 2,464,954 1,632,109 44.69 Vegetable products..... 56, 261 39, 583 55,161 38,658 1.075 910 42-22 Animal products..... 45.612 1.910.106 941 41.88 46,728 42:00 131,539 128,994 129,044,800 5,418,360 1,000 5,269,496 1,366,795 1,026 137,275 31,385 29,756 12,275 39.04 134,964 30,782 138,510,700 38,329,200 44 - 40 1,245 Non-ferrous metal products..... 42.7729,298 11,869 10,385 1,252,793 Non-metallic mineral products..... 33,009,800 1,127 16,310,200 11,632,800 543,491 444,717 1.374 45.79Chemical and allied products..... 1,120 42.82 10,731 Miscellaneous products..... 47.05 17,158 807,332 1,489 17,452 25.550,100 Electric light and power..... (including carrentry. 7,030,815 70923.41 215,089 149, 246, 100 210,413 plumbing, painting, etc.)..... Transportation and communications (not including postal service)...... 11,054,179 1,171 44.02 260,200 251,123 294,168,200 227,270,500 162,549,000 64,630,900 1,150 46-17 9,126,021 203,683 197,668 155,901 Trade.. 7,143,680 1,978,960 1,043 45.82 160,436 Retail 47-47 41,688 1,550 Wholesale..... 43, 160 3,381 1,147 42.80 90,600 Wholesale-retail dealing..... 87 70 1,730 $49 \cdot 02$ 2,641,117 57,627 53.882 93,241,600 Finance..... 45-93 12,259,348 1,176 280.593 266.895 313,921,100 Service..... 82,832,000 2.883.617 1.414 49.22 63.675 58,589 Professional Public administration, n.e.s., Do-minion and Provincial 50.16 2,565,433 1.585 52.882 51,144 81,069,900 Public administration, n.e.s., muni-43-46 46,993 1,204 47,936 56,581,700 2,042,327 cipal... 708,700 11,946,700 12,082 471,143 50.08 2,990 287 Public administration, n.e.s., other 309 1,070 42.3L 11,548 11,162 Recreational 1,276,925 157,299 809 41-40 32,659 3,564 68,020 30,846 24,965,200 Custom and repair..... 46.59 1.736 3,376 5,859,300 Business service..... 44.16 49,957,600 2,850,522 64.548 Personal service..... 326 29.17 50.285.500 4.498.245 154.234 163,946 Unspecified All other industries (less than 10 43.66 42,302 1.094 969 1,060,300 1.038 nersons)...... 80,322,382 927 41.22 1,806,633,400 1.948,500 2,018,334 All Industries.....

5.—Wage Earners Ten Years of Age and Over, by Sex and Industries, with Total and Average Earnings and Number of Weeks Worked, in the Twelve Months Preceding June 1, 1931—concluded. FEMALES.

Total Number whose Earnings Average Yearly are Stated. Earnings and Average Num-Employment Total for Census Year. Industrial Group. Wage Weeks. Earners. Persons. Earnings. Average Earn- Weeks. ings. \$ No. No. No. No. Agriculture..... 1,800 1,678 459,600 73.328 275 43.83 Forestry, fisheries, trapping...... 306 295 11.653 39.50 131, 100 355 345 261,500 15.249 44.20 Mining, quarrying, oil and salt wells... 753 107, 152 16, 091 10, 756 Manufacturing... 108,860 58, 112, 000 4,653,290 43-42 542 Vegetable products..... 16,364 10,926 7,977,400 4,872,900 689,164 458,256 42.83 496 Animal products..... 453 42.60 Textile products..... 47,973 22,985,700 2,027,037 479 42.25 48.720 Wood and paper products; printing, 13,948 9,335,700 638,455 669 publishing, engraving, etc..... 14,193 45.77 4,761.900 3,365,300 1,342,800 on and its products. 6,513 6,405 290,924 45.42 743 Non-metallic mineral products.

Non-metallic mineral products.

Chemical and allied products. 5,051 1,709 2,833 226,079 77,661 130,836 675 45 35 1,686 2,793 46.06 1,909,400 RR1 46.84 2.551 Miscellaneous products..... 2,515 1.560.900 113,878 621 45-28 Electric light and power..... 1,459 1.472 1.354.900 73.201929 50.17 (including plumbing, painting, etc.)..... 1.748 1.707 1.249.600 76,210 782 44.65 communications Transportation and (not including postal service)..... 22,681 23.218 18,145,100 1.109.531 800 48-91 75,906 74,446 46,893,800 630 46-34 Trade. 3,449,911 Retail 65,957 8,489 39,882,100 7,011,700 3,046,266 403,645 67.319 605 46-19 8.587 47.55 Wholesale.... 826 Wholesale-retail dealing..... 24,822 24,388 21,425,100 Finance..... 1,198,340 879 49-14 303,481 289,119 145,239,700 13,765.098 Service. 47.AF Professional ... 108, 197 98.527 76.456.800 4.877,659 49-31 Public administration, n.e.s., Dominion and provincial.

Public administration, n.e.s., muni-12,404 12.019 11.372.000 602,776 946 50.15 2.865 2.802 2,557,300 136,911 913 48-86 cinal 126,800 1,264,500 Public administration, n.e.s., other 111 2,279 110 5,626 96,903 1,153 51.15 2.192 Recreational..... 577 44.21 5,009,000 1,103,700 47,350,100 10,317 10,075 Custom and repair..... 454,532 497 45-11 Business service..... 1.403 63,841 46.53 201 170,905 Personal service..... 162,022 7,526,848 292 46.46 Unspecified..... 3,728 3,371 1.677,100 11f.363 40£ 33.04 All other industries (less than 10 1,971 1.899 1,294,500 persons),,,,,,, 88,720 682 46.72 547.667 528,538 All Industries..... 296,244,000 24,624,832 Zen 46.59

CHAPTER XX. PRICES.1

Commodity prices naturally fall into two main divisions—wholesale prices and retail prices. Because the number of wholesale traders is smaller than that of retail traders, buying and selling by carefully defined grades more prevalent. and prices ranges at any particular time and place much narrower, it would appear that wholesale prices and their fluctuations are more easily and accurately ascertainable than retail prices. But this advantage is largely offset by certain difficulties inherent in the nature of index numbers of wholesale prices. The making of an index number of wholesale prices for general purposes requires the inclusion of a much wider range of commodities than is necessary for a retail or cost of living index. Moreover, wholesale commodities are in all stages from raw material to finished product, while retail prices are concerned only with the latter. At each stage in the evolution of a commodity we are frequently confronted with several grades, and this situation is complicated by the fact that grades undergo changes in the course of time. Hence, to secure quotations which give accurate continuity from month to month and year to year is a task in which eternal vigilance is the price of success. The maker of wholesale index numbers must be assiduous in acquiring and keeping up to date a knowledge of grades and qualities and, in dealing with a very large list of commodities, this is a difficult task. With retail prices, the question of grades is not quite so involved and in some cases it is sufficient to obtain quotations on the basis of "the kind principally sold"

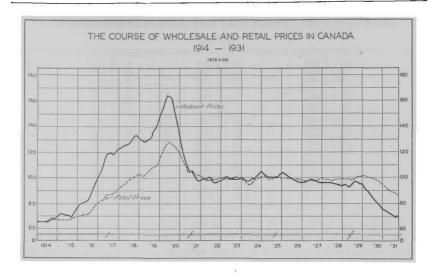
Wholesale transactions are generally between expert buyers and sellers, dealing on purely business principles. Accordingly, wholesale prices conform approximately to the operation of the principle of supply and demand, and are thus more valuable as an index to the current state of business. Retail prices, on the other hand, are governed to some extent by custom and do not respond easily to fluctuations in wholesale prices. Indeed, small fluctuations in wholesale prices are not fairly reflected in retail prices because of the limitations of the currency in representing small quantities of commodities. Retail prices vary considerably for the same commodity in different parts of the same city, owing to differences in the service rendered, in location of stores and in classes of customers.

Further, since wholesale prices are determined by the business situation of the moment while retail prices change more slowly, there exists what is technically called a "lag" between the two, retail prices not showing changes in fundamental business conditions until some time after wholesale prices. Thus, while wholesale prices in Canada reached a peak in May, 1920, and commenced to decline, in June, retail prices reached their corresponding peak in July, 1920, and began to decline in August. A similar "lag" has been noted in recent years, as is shown on the chart (p. 801) showing the course of wholesale and retail prices in Canada from 1914 to 1931.

Retail prices find one of their chief uses in the measurement of changes in the cost of living. This measurement is complicated by such changing factors as consumption, habits and standards of living, and qualitative changes in commodities included in the budget, particularly clothing. The difficulty of maintaining comparability between one period and another necessitates very thorough research and an elaborate collection of retail price data.

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Revised by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics. This Branch compiles and publishes statistics on: Prices (wholesale, retail, securities, services, exchange, interest rates, cost of living), Retail and Wholesale Trade, Foreign Capital Investments in Canada and Canadian Investments Abroad, Balance of International Payments, and other related subjects. For a complete list of the publications of this Branch, the reader is referred to Chapter XXIX, Section 1, under "Internal Trade"



Section 1.—Wholesale Prices of Commodities.

Subsection 1.—Historical Review of Canadian Prices.

Until recently the index number of wholesale prices in Canada did not go back beyond 1890. However, it has now been extended backward to 1867 on the 1913 base, the added quarter of a century including a very interesting period to students of price statistics. The average index numbers for every year since Confederation are given in Table 1. In that table will be noted the high prices of 1867, immediately following the close of the American Civil War and the Austro-Prussian War of 1866, and the tendency to declining prices in the years immediately following. Prices went up again after the Franco-German War of 1871 and reached a high point in 1872 and 1873, but the crisis of the latter year resulted in a decline. A downward trend persisted fairly steadily throughout the 25 years from 1872 to 1897 and was featured by an inadequate increase in the supply of gold. The gold supply of the world did not increase as rapidly as the supply of commodities, consequently more commodities could be secured for a given amount This gold shortage was accentuated by the demonetization of silver which ceased to be legal tender with gold and was reduced to the level of token money by the chief nations. Relief came through the discoveries of gold in the Rand mines and the application of the cyanide process to low-grade ores. The result was a rapidly increasing world production of gold from about 1890 down to the outbreak of the Great War, with consequent rising general prices as soon as the volume of the new gold became a large part of the total stock. Thus prices increased from the low point of 75.6 in 1897 to 100 in 1913 and 102.3 in 1914. Afterwards. the Great War, both through the scarcity of commodities which it occasioned and the inflation of the currency which it produced, drove prices rapidly upward to a maximum of 243.5 in 1920, followed by a rapid collapse to 152.0 in 1922. This was succeeded by a slight increase to 160.3 in 1925. The tendency from 1925-29 was downward, although the period was one of increasing prosperity-a condition normally associated with rising prices.

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1.--Annual Index Numbers of Wholesale Prices in Canada, 1867-1932.

(1913 = 100.)

1867 133 -0 1868 128 -7 18.9 128 -5 1870 123 -5 1871 124 -5 1872 135 -7 1873 133 -8 1874 129 -0 1875 120 -7 1876 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116 -6 116	1883 106-0 1884 100-6 1885 92-7 1885 90-7 1887 91-9 1888 93-5 1889 92-6 1890 93-0 1891 91-4	1899 81-4 1900 85-8 1901 84-5 1902 86-2 1903 86-9 1904 37-0 1905 87-8 1906 92-6 1917 95-2 1908 90-9	1920
1877 115-1 1878 104-3 1879 101-0 1880 112-9 1881 169-9 1882 112-1	1893 85-2 1894 80-6 1895 79-6 1896 76-0 1897 75-6 1898 77-8	1909 91-4 1910 94-3 1911 95-0 1912 99-5 1913 194-6 1915 102-3 1915 109-9	1926 156. 1927 152. 1928 150. 1929 149. 1930 135. 1931 112. 1932 104.

Commencing in the fall of 1929, a severe economic depression set in which was accompanied by a drastic decline in wholesale prices. From 153.7 for August of that year the index continued to recede with few interruptions until December, 1932, when it stood at 100.0.

Subsection 2.—The Index Number on a Post-War Base (1926).

The official Canadian index number of wholesale prices and other price indexes computed by the Dominion Bureau of Statistics were revised, when prices appeared to have arrived at a condition of post-war normalcy, and calculated with the year 1926 as base.

Details of the method of constructing the new index number—the price series included, the weighting and the classification of commodities—were given at pp. 803-805 of the 1931 Year Book. The Dominion Bureau of Statistics annual index number of wholesale prices (1926=100) averaged 66.7 in 1932 against 72.1 in 1931. Monthly numbers declined in 1932, with a minor mid-summer interruption, from 69.5 in January to 64.0 in December, when the index was on an exact par with the 1913 average. Vegetable products, animal products, wood and wood products, and non-ferrous metals were chiefly responsible for the further recession in prices, although minor decreases occurred for textiles, iron products, non-metallics and chemicals. January and December group indexes, listed respectively, were as follows: vegetable products 56.0 and 50.1; animals and their products 65.0 and 57.4; fibres, textiles, and textile products 71.0 and 68.5; wood, wood products and paper 73.6 and 63.8; iron and its products 86.8 and 86.2; non-ferrous metals and their products 66.6 and 57.5; non-metallic minerals and their products 87.3 and 86.1; and chemicals and allied products 85.6 and 83.6.

Declines in both raw and partly manufactured, and fully and chiefly manufactured goods were less marked than in 1931. The first group fell from 61.9 to 55.0, and the second from 74.8 to 69.8 between 1931 and 1932. Animal and marine products in both sections were decidedly weak. There was little change apparent in the gap between raw and finished product prices, which became so marked during 1930-31, when raw field products dropped so precipitously.

A further fall of $14\cdot0$ p.c. occurred in the Canadian farm products index, as compared with a $31\cdot6$ p.c. decrease in 1931. The 1931 and 1932 annual average indexes were $56\cdot3$ and $48\cdot4$ respectively. Animal products declined from $77\cdot6$ to $60\cdot7$ and field products from $43\cdot6$ to $41\cdot1$.

2.—Weighted General Wholesale Price Index Numbers, by Months, 1924-32.

(1926 = 100.)

Month.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
January. February. March April May. June July. August September October. November December	100 · 4 100 · 4 98 · 8 96 · 7 96 · 4 97 · 5 100 · 4 98 · 5 100 · 6 100 · 6	106 · 0 105 · 4 103 · 5 100 · 2 101 · 7 101 · 7 100 · 0 99 · 9 103 · 2 104 · 7	103 · 0 102 · 1 101 · 3 101 · 2 100 · 2 100 · 1 99 · 1 98 · 5 98 · 1 97 · 9	97-8 97-8 97-3 97-3 98-3 98-3 98-3 97-2 97-2 97-2	96.8 96.8 97.3 98.7 98.0 96.0 95.4 95.2 95.4 95.2 94.6	94 0 95 6 94 5 93 4 93 4 97 8 97 8 96 7 96 7	95-3 93-9 91-8 91-2 89-7 85-3 83-7 81-0 79-5	75-9 75-5 74-5 73-9 72-5 71-3 70-5 69-7 69-9 70-4	69 - 68 - 66 - 66 - 65 - 64 - 64 - 64 - 64 - 64
Yearly Averages	99-4	102-6	100 ⋅ 0	97.7	96-4	95.6	86.6	72.1	86.

3.—Annual Weighted Index Numbers of Wholesale Prices of Commodities, by Groups (Chief Component Material Classification), 1913-32, with Monthly Figures for 1938-32.

(1926=100.)

									
					Groups	L.			
Year and Month.	Vege- table Pro- ducts.	Animals and Their Pro- ducts.	Fibres, Textiles and Textile Products.	Wood, Wood Products and Paper.	Iron and Its Pro- ducts.	Non- Ferrous Metals and Their Products.	Non- Metallic Minerals and Their Products.	Chemicals and Allied Products.	All Com- mod- ities.
			Nu	nbers of C	ommodi	ties Selecte	d .		
1913-25 1926-31	67 124	50 74	28 60	21 44	26 39	15 15	16 73	13 73 ·	236 502
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1922 1923 1924 1925 1826 1927 1928 1929 1930	58 · 1 64 · 8 75 · 6 87 · 0 124 · 5 127 · 9 136 · 1 167 · 0 163 · 5 86 · 2 89 · 2 100 · 6 98 · 0 91 · 6 777 · 7 56 · 9	70.9 72.6 74.0 85.0 110.4 127.1 140.8 145.1 109.0 95.0 91.8 100.3 100.0 101.9 109.0 99.0	58-2 56-9 58-3 77-6 114-6 157-1 163-8 176-9 101-7 116-9 117-9 117-9 118-0 93-7 94-5 94-3 81-3 81-3	63-9 60-3 56-5 64-0 79-8 109-6 129-4 105-3 113-0 195-9 101-0 98-5 98-7 98-7 79-1	68.9 67.3 73.9 104.6 151.8 156.7 139.1 108.4 115.8 111.5 160.0 96.2 93.2 93.7 91.4	98 4 94 7 106 9 135 1 143 9 138 5 135 5 97 3 95 3 94 8 103 9 103 9 91 5 92 2 80 7 64 6	56.8 53.7 52.7 52.7 58.0 71.6 82.3 93.0 112.2 118.6 107.0 104.4 104.1 100.0 96.5 92.5 92.9 91.3 86.5	63-4 65-3 68-1 78-0 98-1 118-7 117-5 117-5 117-5 105-4 102-5 98-3 98-3 98-3 95-4 92-8 86-7	64-0 65-5 70-4 84-3 114-3 127-4 133-9 155-9 98-0 99-4 102-6 104-6 95-6 86-6 86-6 72-1
1932 January February March April May June July August September October November December	92.0 88.7 84.9 86.3 85.3 85.0 78.5 75.1 66.7 62.6 59.3	59-7 109-9 109-5 106-1 104-2 102-6 97-0 93-5 92-1 93-4 90-5	88 - 6 87 - 3 85 - 4 83 - 0 82 - 1 80 - 8 79 - 9 79 - 2 77 - 5 76 - 9	93 · 3 92 · 7 91 · 8 91 · 2 89 · 7 89 · 1 87 · 6 86 · 6 86 · 8 85 · 8 85 · 2	92·9 92·7 92·5 92·4 91·2 90·8 90·7 90·0 89·3	95.5 94.8 93.1 86.8 80.6 77.8 75.4 73.7 70.5 71.6	93 · 4 93 · 3 93 · 3 93 · 3 93 · 6 90 · 5 90 · 5 90 · 5 90 · 5 90 · 8 90 · 8 90 · 8 90 · 8	94 · 6 94 · 3 94 · 3 94 · 0 93 · 5 93 · 0 92 · 2 92 · 2 92 · 0 91 · 3 90 · 9	95.3 93.9 91.8 91.2 89.7 87.7 85.3 83.7 82.1 79.5 77.7

3.—Annual Weighted Index Numbers of Wholesale Prices of Commodities, by Groups (Chief Component Material Classification), 1913-32, with Monthly Figures for 1930-32—concluded.

(1926 = 100.)

					Groups			·· <u> </u>	
Year and Month.	Vege- table Pro- ducts.	Animals and Their Pro- ducts	Fibres, Textiles and Textile Products.	Wood, Wood Products and Paper.	Iron and Its Products.	Non- Ferrous Metals and Their Products.	Non- Metallic Minerals and Their Products.	Chemicals and Allied Products.	All Com- mod- ities.
			Nu	mbers of (Commod	ities Select	ed.		
1913-25	67 124	50 74	28 6)	21 44	26 39	15 15	16 73	13 73	236 502
1931. January February March April May June July August September October November December	57.8 59.0 58.7 59.1 58.6 57.9 56.7 55.3 54.0 58.1 56.4	88-2 85-2 80-6 77-8 72-4 70-5 71-2 70-9 69-0 68-2 67-4 66-4	75.0 74.1 74.3 74.2 74.2 74.2 74.6 73.7 73.7 73.2 72.4 71.9 71.7	81·7 81·3 81·3 80·8 80·3 79·7 78·9 77·9 76·8 77·3 76·3	88.7 87.9 87.8 87.6 87.5 87.4 87.1 86.8 85.8 87.3 87.0 87.3	69·1 67·9 68·6 66·7 63·6 62·1 62·5 60·9 60·7 63·8 68·3	89·3 86·9 86·0 84·7 84·8 85·0 86·5 86·5 86·5 86·5	88-3 88-2 87-8 86-9 86-8 86-8 86-8 86-8 86-8 86-8	75.9 75.5 74.5 73.9 71.8 71.3 70.5 69.9 70.7
January February March April May June July August September October November December	56-0 56-7 57-5 57-8 57-3 54-7 55-6 55-9 52-1 51-8 50-1	65-0 62-2 63-2 59-7 57-6 57-6 58-6 60-8 57-9 57-9	71-0 70-9 70-8 70-8 69-6 69-3 69-0 70-0 69-1 69-1 68-5	73 · 6 73 · 4 73 · 2 72 · 4 71 · 1 70 · 5 69 · 4 64 · 3 64 · 3 64 · 3 64 · 6 63 · 8	86-8 86-3 86-3 86-5 86-6 86-4 86-1 86-0 86-0 86-2	66 · 6 62 · 9 60 · 2 58 · 5 56 · 1 57 · 3 58 · 9 57 · 7 58 · 2 57 · 5	87-3 87-2 86-3 86-9 85-9 85-7 85-7 85-8 85-8	85-6 85-2 84-0 84-1 83-9 83-5 83-7 83-4 83-3 83-9	69 · 5 68 · 9 69 · 0 68 · 2 67 · 4 66 · 4 66 · 4 65 · 0 65 · 0 64 · 7 64 · 0

4.—Index Numbers of Wholesale Prices of Commodities, Classified According to Purpose, by Yearly Averages, 1914-32, and by Months, 1930-32.

(1926 = 100.)

	Consu	mers' Good	ds.		Produc	ers' Go	ods.		
		Foods,			Pro-	Prod	cers' Mate:	rials.	All Com-
Year.	AII.		Other.	All.	ducers' Equip- ment	All.	Building and Con- struction.	Manu- fact- arers'.	mod- ities.
ļ				Number	s of Price	Seri e s.			
1913-25	98 204	74 116	24 88	146 351	15 22	131 329	32 97	99 232	236 502
1914	62 · 7	65 - 2	59 - 7	69 - 7	52.0	72 - 1	62.9	74.3	65 - 5
1915	65-6	08-6	61.8	77-0	53 - 1	80-2	60-5	84 · 8	70 - 4
1916	74.7	81.7	65.8	88-1	55.7	92.5	69-6	97.9	84.3
1917	95-4	109-4	77·e	119-6	69-6	126.3	87 · 6	135 - 5	114.3
1918	107-0	119-4	91 - 4	131.5	80-4	138-3	100-9	147-2	127-4
1919	115.7	128-2	106.7	139-0	90.7	145.5	117-3	152 - 2	133 - 9

4.—Index Numbers of Wholesale Prices of Commodities, Classified According to Purpose, by Yearly Averages, 1914-1932, and by Months, 1936-32—concluded.

(1926=100.)

	Con	sumers' Go	oods.		Prod	ucers' G	oods.		
		Foods.	[Pro-	Prod	ucers' Mate	rials.	All Com-
Year and Month.	All.	Beverages and Tobacco.	Other.	All.	ducers' Equip- ment,	All.	Building and Con- struction.	Manu- fact- urers'.	mod- ities.
			ì	Vumbers	of Price Se	ries.			
1913-25 1926-31	98 204	74 116	24 88	146 351	15 22	131 329	97	232 232	236 502
1920	140-0	151-0	126.3	163 - 1	108-6	170-4	144.0	176-6	155-9
1921	108-0	105-4	111.4	112.8	113-8	112.6	122.8	110-2	110.0
1922	95-1	90-2	101-4	1.66	104-1	98-2	108⋅7	95.8	97.3
1923	93 - 7	91.2	97.0	97.8	102.5	97-1	J11·9	93 · 7	98-0
1924	93 · 2	90-4	96.8	99-5	102 · 7	99.0	106-6	97.5	99-4
1925	97.2	97-7	96-5	104-9	99-2	105 - 5	102.9	106-2	102-6
1926	100 €	100-0	100-0	100.0	100.0	100.0	100-0	100-0	100 - 0
1927	95 - 7	99-4	93.3	98-5	101-1	98-1	96-1	98-6	97.7
1928	95 6	99.6	92.9	96.7	93 - 7	97-0	97-4	96-9	96-5
1929	94 - 7	100 - 0	91.1	96.3	94.6	96.5	99.0	95+9	95-6
1930	89.3	1 · 89	86-8	82.8	92.9	81 - 7	90.8	79.7	86-6
1931	76.2	70-4	80-0	67.9	90-0	65 - 4	81.9	61.7	72-1
1932	71.3	61.5	77-9	63 - 1	88-7	60-2	77 - 2	56-5	66-7
1930.			.				1		
January	95.2		89.8	94 - 5	96.2	94.3	97-4	93 ⋅ 6	
February March	95-0 93-3		89·4 88·7	91+8 89-5	96 · 2 96 · 2	91·5 88·8	96·6 96·1	90·4 87·2	98.9 91.8
April	92.3	99 - 4	87·5 86·7	90.0	96-2	88.3	94.7	86-9	91.2
May	91-3 89-5		86·7 86·4	87·1 86·0	91·5 91·4	86·6 84·3		85 · 2 82 · 5	89·7 87·7
July	87.7	90.5	85+9 85-7	81.5	91-2	80.4	89.5	78.4	85-3
August	88·3 86·1		85·7 85·7	79-9	91.2	78-6	87 · 8 86 · 8	76.6	83.7
October	86.0		85-4	76·7 74·6	91·2 91·2	75·1 72·8		72∙5 70∙0	82 · 1 81 · 0
November,	84·5 83·2		84.9	73 - 4	90-9	71-4	85.7	68-2	79.5
December	83.2	91.0	84+6	71.3	91.5	69-0	85.0	65.5	77.7
1931.	81.5	79-6		40.4	01.5	27.0	ا ا	,, ,	,
January February	80.6	78-0	82·8 82·3	69·7	91·5 91·3	67-3 67-0	84·0 83·5	63 · 6 63 · 4	75-9 75-5
March	79·2 77·7		81.2	69-0	90.6	66.6		62·8 63·1	74 - 5
May	75.8	74 · 5 70 · 6	79·8 79·5	69·2 68·5	90+6 90+1	66-8 66-1	83 · 6 83 · 0	62 - 4	73-9 72-5
June	75-4	68.9	79-8	68.0	89-1	65.7	82-8	61.9	71 - 8
July August	75·3 75·0	69-0 68-6	79·5 79·2	67·3 65·9	89·1 88·8	64·9 63·4	82·4 81·2	61 · 0	71∙3 70∙5
September	74 - 4	66.9	79.4	65-1	89.8	62.4	79.9	59-5 58-5	69-7
October	73·8 73·9	65-6 66-2	79.3 79.0	66 · 3 68 · 1	89·3 89·2	63 · 7 65 · 7	80·0 79·2	60 · 1 62 · 7	69 · 9 70 · 7
December	73 - 6	65.4	79.0	67-4	91.1	64.8		62.6	70.4
1932.		;						l	
January	73 - 1	64.5	78-9	66-5	91 - 1	63.8	79 - 4	60-4	69-5
February	72·5 72·5	63·0 64·2	78⋅8 78⋅0	66·4 66·0	91 · 1 90 · 8	63·7 63·2	79·3 78·9	60 · 2 59 · 7	68-9 69-0
March April May June July	71.3	62 - 4	77.3	65-4	90.7	62.6	78·7 77·8	59⋅0	68.2
May	70-9 70-5	60·8 59·7	77-7 77-7	64·4 63·1	88-2 88-1	61 · 8 60 · 3	77.8 76.8	58⋅3 56⋅6	67-4 66-4
July	71.0	61.3	77 - 4 77 - 7	62-8	88-1	60-0	75-6	56-5	66-4
AugustSeptember	71·1 71·6	61.3 62.2	77 - 7 77 - 8	63·1 61·5	88-1	60-3	75-3	57.0	66.7
October	70.8	60-8	77-8	60.2	88-1 86-8	58·5 57·2	76·2 76·5	54 · £ 52 · 9	65·9 65·0
November	70·3 70·0	60-0 89-5	77 - 1	59.7	86-0	56.8	76.€	52-4	64.7
December	10.0	99.5	77•0	58.6	, 87-7	55.3	75-7	50-8	64 · 0

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5.—Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of Manufacture, by Yearly Averages, 1915-32.

(1926 - 100.)

		(1926	= 100.)							
Item.	Numl Comm	ers of edities.	1915.	1916,	1917.	1918.	1919.	1920.	1921.	1922,
	1913-25.	1926-31.		10,0.		1510.	1010.	1020.	1001.	
Aggregate combined indexes, Raw and Partly Manufactured	107	232	72.7	85-1	113.8	120.7	131 - 5	155.7	107.5	94 · 8
Aggregate combined indexes, Fully and Chiefly Manufactured Articles of Farm Origin (domestic	129	276	71-9	84.5	113.7	127-6	132.5	156-8	116-7	100-5
and foreign) Field (grains, etc.)— (a) Raw and partly manufac-									,	İ
(b) Fully and chiefly manufac-	l 46	98 69	78·2 73·5	90·3 85·6	180-8 119-8	138 · 0 136 · 6	145.3 140.5	l	l	86.3 95.3
(c) Combined indexes	87	167	73.1	85.3		131.3	139.3			89·1
(a) Raw and partly manufac- tured	25	41	75-5	87-5	114-7			i .	İ	95-4
tured	28 58	49 90	72·8 74·4	85·8 86·3		126-0 129-9	141·4 143·0			95 - 5
1. Field (grains, etc.) 2. Animal 3. Combined indexes	20 16 36	46 13 59	76·9 79·2 77·6	88-4 92-8 89-6		134 - 3	152.0	149-8	108-1	98-8
Articles of Marine Origin— (a) Raw and partly manufac-			72.7	80.6						ļ
(b) Fully and chiefly manufactured	6	5 11.	62 7	66.3	85-6	109-2	111-3	106-8	91-6	92-2
(c) Combined indexes Articles of Forest Origin— (c) Raw and partly manufac-	8	16	64.6							
tured(b) Fully and chiefly manufac-	16	31 21	57·1	66.3 56.4	''			'		i
tured	21	52	56.5			89-1			129-4	106-3
(a) Raw and partly manufac- tured	18	57	68-4	ļ		i i	1	1		
(c) Combined indexes	49 67	126 183	71 · 8 68 · 3			123 - 2	121 3 112 4	181.4		
Item.	192	3. 1924.	1925.	1926.	1927.	1928.	1929.	1930,	1931.	1932.
Aggregate combined indexes, Raw Partly Manufactured Aggregate combined indexes, Fully	91	.1 94-8	100-8	100-0	99.9	97-4	1		1	
Chiefly Manufactured Articles of Farm Origin (domestic	and 103	· I 101 · 9	103 - 8	100-0	96.5	95-0	93-(87-3	74.8	69-1
foreign) Field (grains, etc.)- (a) Raw and partly manufactur (b) Full and philader manufactur	ed 83	6 89 4 1 102 7					89 · 5			67-
(b) Fully and chiefly manufacture (c) Combined indexes	89	93.9	102-3	100-0	97.9	92.2	90-1	76-3	57-	55.
(a) Raw and partly manufactur (b) Fully and chiefly manufactur (c) Combined indexes	red. 99	91.5 90.4 92.0	100 0	100-0	95.8	97.7	98 3	89-4	71-0	61-
Canadian Farm Products— 1. Field (grains, etc.)	72	-3 82-6 -9 96-9	98-1	100-0						
3. Combined indexes	W	86-9	100-3	100-0	102-1	100-7	100-8	82.8	56-	48.4
(a) Raw and partly manufactur (b) Fully and chiefly manufactur (c) Combined indexes	red. 80	95 · 8 91 · 8 91 · 8 92 · 8	99-1	100 0	101-5	104-0	108-5	98-4	77.4	66-6
Articles of Forest Origin— (a) Raw and partly manufactur (b) Fully and chiefly manufactur	red. 113 red. 113	2-6 110-1	105-9	100-0	99.5	97.9	87-8	86	78-1	68-
(c) Combined indexes Articles of Mineral Origin— (a) Raw and partly manufactur (b) Fully and chiefly manufactur	red 100	5-5 101-7	10t-8	100 · 0	94.6	91·2 91·8	92-7 92-8	7 86+1 8 90-3	77-1 85-1	77 · (
(c) Combined indexes		8 104-6				91.5	92-8	88-4	81 1	81.3

3.—Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of Manufacture, by Months, 1926-32.

(1926 = 100.)

			<u></u>	(1920	- 100.)							
Origin and Year.	Jan.	Feb.	Mar.	April,	Мау.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Aggregate combined indexes, Raw and Partly Manufactured 1926. 1927. 1928. 1929. 1930. 1931. 1932.	106·0 98·8 100·3 94·2 97·6 66·4 59·4	103 · 6 98 · 5 99 · 4 93 · 2 94 · 6 65 · 8 58 · 7	101 · 7 98 · 4 101 · 4 96 · 6 89 · 8 64 · 4 58 · 0	102-2 99-0 102-4 94-7 90-3 64-1 56-8	99-7 101-4 100-9 93-0 88-5 62-7 55-4	99-2 102-2 98-3 92-9 94-(61-5 53-8	102 · C 95 · 2	97.€ 100.9 93.7 102.3 77.1 59.5 54.7	97-3 98-8 93-8 101-6 58-5 54-2	98-3 99-5 94-9 100-5 73-3 59-7 52-5	97 · 4 100 · 0 94 · 4 97 · 2 70 · 4 61 · 4 52 · 2	98-2 100-8 94-0 98-9 87-3 60-2 51-0
Aggregate combined in- dexes, Fully and Chiefly Manufac- tured————————————————————————————————————	103 · 0 · 97 · 5 · 95 · 6 92 · 6 92 · 6 92 · 6 79 · 0 71 · 3	102 · 1 97 · 3 95 · 4 93 · 1 92 · 3 78 · 6 70 · 7	101 · 5 97 · 0 95 · 7 93 · 2 - 91 · 3 78 · 0 71 · 5	100-5 96-9 95-7 92-4 90-0 76-5 70-9	99 · 8 96 · 5 95 · 8 91 · 1 88 · 9 74 · 5 70 · 3	100 · 1 96 · 3 95 · 3 91 · 1 87 · 2 74 · 0 69 · 4	99 7 96 2 94 8 93 1 85 8 74 1 69 5	99 · 3 96 · 3 96 · 0 94 · 5 85 · 4 78 · 2 70 · 2	98.6 96.4 95.1 94.1 84.8 72.4 69.3	98·1 96·4 94·6 93·7 83·9 72·2 68·8	97-4 95-9 94-2 93-5 82-8 72-7 68-3	97.5 96.0 93.8 93.2 81.5 72.6 67.8
I. Articles of Farm Origin (domestic and foreign)— A. Field (grains, fruits. cotton, etc.)— Raw and partty manufactured— 1926 1927 1928 1939 1930 1931		104 · € 93 · 7 94 · 1 87 · 7 81 · 3 45 · 3 43 · 8	100 · 7 95 · 4 97 · 7 86 · 4 75 · 4 44 · 7	105-3 97-1 101-1 83-7 78-3 48-9 43-5	102-4 104-5 101-4 80-4 77-2 45-4	100 { 107 } 94 · 7 81 · 2 74 45 · 7 40 · 5	101 · 9 106 · 7 89 · (99 · 9 68 · 2 44 · 2 42 · 5	98 · (104 · 0 83 · 1 100 · 7 63 · 3 42 · 7	81 · 0 98 · 4	96.7 96.8 83.4 94.2 532.9 37.8	89-0 49-1 46-f	93 · 7 95 · 5 80 · 9 90 · 1 44 · 7 34 · 4
Fully and chiefly manufactured— 1926 1927 1928 1929 1930 1931 1932 Combined indexes— 1926 1927 1928 1929 1930 1930 1931	105-3 96-0 96-0 89-6 92-0 71-8 68-1 107-2 95-7 86-6 58-7	86.5 59.0	100-9 95-9 96-2 89-6 89-3 71-8 68-8 100-8 95-7 95-9 88-1 83-1	100 (2 97 (68 - 7 102 - 8 68 - 2 96 (2 85 4 (68 - 7 1 85 85 8)	101-2 97-4 97-4 86-7 87-1 70-4 67-9 101-7 100-7 99-2 83-8 82-5	100-1 98-7 95-7 86-7 85-2 69-5 100-0 102-5 (5-2 80-8	66-5 100-2 102-1 91-9 94-8 76-4 57-4	73 · 9 56 · (97-2 96-7 91-2 94-2 94-2 96-7 66-7 96-5 96-5 96-5 96-5	96 - 7 96 - 7 90 - 7 93 - 8 78 - 1 66 - 6 96 - 7 96 - 7 96 - 7 97 - 3 96 - 7	96.5. 90.4 92.9 75.8 69.0 66.0 95.5. 91.1 63.7	96.5 96.5 90.3 92.7 74.4 68.6 65.3 95.2 96.0 91.5 50.5 57.1
1932 B. Animal— Raw and partly menufactured— 1926. 1927. 1928. 1939. 1930. 1931. 1932 Fully and chiefly manufactured— 1926.	104-3 108-3 117-2 113-3 121-1 92-1 68-9	103-0 106-3 115-8 117-8 86-9 65-3	105-8 117-4 114-9 113-1 83-4 64-3	106-8 115-2 113-4 111-9 81-1 60-7	77.0 57.6	111 · 3 112 · 1 90 · 7 72 · 7 57 · 1		113·0 93·2 73·3 57·2	115 · C 94 · 2 71 · 5 59 · 4	109-5 116-6 118-4 98-4 71-1 57-7	100 · 2 111 · 8 116 · 8 115 · 3 95 · 9 71 · 0 56 · 6	117-6 116-8 119-8 119-8 93-4 69-8 57-6
1926 1927 1928 1929 1930 1931	103 · 7 97 · 0 95 · 9 98 · 9 95 · 6 81 · 7 63 · 1	95·4 99·9 96·1 80·3	104 · 5 97 · 2 95 · 9 101 · 0 95 · 2 77 · 8 63 · 5	92·6 75·2	97-2 91-5 92-6 97-3 90-7 69-7 59-2	100-1 93-1 96-0 96-9 87-5 69-3 58-2	98-6 85-4 71-1	99·5 85·3 69·6	97·3 86·7 67·4	97·1 97·1 101·7 97·1 86·6 66·4 62·8	65.2	96·5 96·2 98·7 96·7 83·9 64·8 59·7

6.—Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of manufacture, by Months, 1926-32—continued.

(1926 = 100.)

				(1926	=100.)							
Origin and Year.	Jan.	Feb.	Mar.	April.	Мау.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
I. Articles of Farm Origin (domestic and foreign)—concluded. F. Animal — Combined indexes—1926. 1927. 1928. 1929. 1939. 1930. 1931.	105.1	105 5 83 2	I 107∙€	101·1 103·1 106·0 101·0	96-5 100-1 99-7 104-5 99-1 72-9 58-5	97.0 102.6 103.5 92.8	96-9 104-2 104-4 89-6 71-6	97-1 106-3 105-4 88-7 71-2	100-9 108-9 105-2 90-6 69-2	102-5 108-2 106-3 91-7 68-4	103 · 1 107 · 5 105 · 2 90 · 6 67 · 7	88·0 67·0
II. Articles of Marine Origin— Raw and partly manu- factured— 1926. 1927. 1928. 1929. 1930. 1931.	91 · 0 102 · 3 93 · 7 101 · 3 101 · 7 80 · 9 65 · \$	98.2 92.7 95.0 98.1 72.9	92.8 90.9 75.1 96.9 83.3 72.9 58.3	90·6 74·7 89·7 80·6	95.8 92.2 82.0 63.8	95.2 77.4 91.1 86.6 64.2	92-2 80-0 93-2 83-0 60-7	91.7 91.6 91.8 70.9 64.7	100 · 2 105 · 3 96 · 2 87 · 1 69 · 6	108-4 106-1 107-7 97-9 76-0	104 · 4 116 · 5 107 · 7 90 · 8 77 · 7	93·4 113·5 99·6 81·7 69·5
Fully and chiefly manufactured— 1926 1927 1928 1929 1930 1931 1932	101-C 101-4 100-0 107-2 108-C 86-2 71-1	101 · 4 103 · 0 107 · 9 105 · 0 84 · 6	100 · S 101 · 3 108 · 6	101-6 102-7 108-6 100-3	101 · 8 102 · 9 107 · \$ 98 · 5 74 · 2	102 · 3 103 · 9 107 · 1 98 · 1 75 · 8	101 · 7 103 · 8 107 · 0 97 · 1 76 · 0	101-9 103-6 107-1 94-7 75-3	102-3 105-2 109-4 92-9 74-9	103 - 3 107 - 7 111 - 4 95 - 0 74 - 8	101.2 107.1 110.5 93.5 72.5	99-9 105-6 109-7 89-0 72-4
Combined indexes— 1926. 1927. 1928. 1929. 1930. 1931. 1932.	98 · C 105 · 6	100 5 100 2 104 4 103 1 81 4	94-2	98-t 95-1 103-6 94-8 74-1	101 ⋅ 7 101 ⋅ 0 103 ⋅ 6	100 4 96 5 102 8 94 8 72 7	99 1 97 4 103 3 93 3 71 9	99·1 100·3 103·0 88·3 72·4	101-7 105-2 105-5 91-3 78-5	104 · 7 107 · 3 110 · 4 95 · 8 75 · 3	102-1 109-6 109-7 92-0 73-9	98·1 107·7 107·0 87·0
III. Articles of Fore t Origin— Raw and partly manu- factured— 1926- 1927- 1938- 1929- 1930- 1931- 1932-	101 · 3 97 · 9 96 · 7 100 3 99 · 3 83 · 8 74 · 4	96-9 96-9 100-7 98-1 83-4	97.0 97.6 102.7 96.3 83.8	97.8 102.0 95.0 83.4	96-0 98-0 101-1 93-5 81-7	95-9 98-2 100-8 92-4 80-6	97-9 100-4 100-7 89-1 79-0	101 · 2 100 · 8 86 · 9 77 · 1	97·6 102·1 100·1 86·2	97-4 101-1 98-8	97 · 2 101 · 3 98 · 9 85 · 2 74 · 5	97·2 100·7 99·2 84·1
Fully and chiefly manufactured— 1926. 1927. 1928. 1929. 1930. 1931.	100-2 99-8 99-7 87-8 87-6 79-7 72-9	99-5 99-7 87-8 87-5 79-6	99·7 87·8 87·5 79·4	99-5 99-7 87-8 87-5 79-2	99 5 99 7 87 8 86 0 79 0	99 5 99 6 87 8 88 0 78 8	96-1 87-7 85-8 78-6	99-5 96-1 87-7 85-8 78-4	99 5 96-1 87-7 85-8 78-2	99-5 96-2 87-7 85-8	99-5 96-2 87-7 85-8 77-8	99·6 96·2 87·7 85·9 77·7
Combined indexes— 1928 1927 1928 1929 1930 1931 1932	100-7 98-9 98-3 93-6 93-1 81-6	98 3 98 4 93 8 92 4 81 4	98.3 98.7 94.7 91.6 81.2	98·1 98·8 94·4 91·0 81·2	97.9 98.9 94.0 89.5 80.3	97-8 98-9 93-9 89-0	98·1 93·2 87·8 78·8	98.7 98.5 93.8 86.8	93 · 5 86 · 0 76 · 8	98-5 98-5 92-9 85-4 77-2	98-4 98-6 92-9 85-5 76-8	98.5 98.3 93.1 85.1 76.7

Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of Manufacture, by Months, 1926-32—concluded.

(1926 = 100.)

Origin and Year.	Jan.	Feb.	Mar.	April.	Мау.	June.	July.	Aug.	Sept.	Oet.	Nov.	Dec.
IV. Articles of Mineral Origin—												
Raw and partly manu- factured—												
1926 1927 1928 1929 1930 1931	102-8 101-3 92-6 92-7 92-2 80-6	103 · 2 101 · 6 92 · 6 92 · 7 91 · 9 80 · 2 79 · 8	97 · 3 91 · 9 94 · 4 90 · 4 79 · 0	94 · 8 91 · 5 93 · 3 89 · 5 77 · 4	90·4 92·1 85·6 76·4	98-8 98-3 90-6 92-7 84-8 75-6 75-8	99-3 92-9 90-1 92-7 84-3 75-4 75-6		91.6 90.8 92.7 84.3 76.4	98.6 93.3 91.0 92.4 83.2 78.1 75.8	93.0 91.2 92.0 81.9 78.8	93 92 92 81 81
Fully and chiefly manufactured—												
1926. 1927. 1928. 1929. 1930. 1931.	99-7 97-8 91-9 92-8 92-2 87-8 85-1	100 · 2 97 · 5 91 · 9 92 · 2 92 · 6 87 · 4 84 · 5	100-4 96-8 91-7 92-7 91-8 88-4 84-4		95.6 91.3 93.6 90.8 84.3	100-2 93-8 90-9 93-2 90-3 84-0 85-4	93 6 91 1	100 2 93 5 91 7 93 3 89 8 83 8 84 9	93·1 91·7 92·7 89·6 84·4	92.8 91.9 91.8 89.2 84.7	92 5 92 1 92 2 88 7 84 6	92 92 92 88 85
Combined indexes-												
1926 1927 1928 1929 1930 1931 1931	101 · 1 99 · 4 91 · 9 92 · 8 92 · 2 84 · 7 83 · 1	101-5 99-1 91-9 92-4 92-0 84-2 82-4	101 · 4 97 · 6 91 · 8 93 · 5 91 · 2 84 · 2 81 · 4	99-2 95-9 91-4 92-6 90-4 81-9 81-3		99.6 93.6 90.8 93.0 87.8 80.2 81.1	99·8 93·3 90·7 93·3 87·4 80·2 80·9	99.8 93.2 92.2 93.0 87.3 80.1 81.1	92·4 92·3 92·7 87·2	81.7	92·7 92·3	93 · 0 91 · 3 92 · 3 85 · 3

Section 2.—Retail Prices of Commodities.

Collection of data and calculation of index numbers of retail prices and the cost of living are carried out in co-operation by the Dominion Bureau of Statistics (Department of Trade and Commerce) and the Department of Labour. Resultant series of index numbers are computed from different points of view. The computations of the Labour Department are designed to show changes in the cost of living for workingmen in cities. They are constructed from family budgets, principally a weekly family budget of staple foods, fuel and rent published monthly in the Labour Gazette since 1915 and annually since 1911; in addition, figures are included for clothing and sundry items and further data for fuel, light and rent. The Labour Department aims by this method to have a basis for computation that can be readily applied to the data for any given locality or district at any time, or for any class of labour, for instance, coal miners, who usually do not live in cities. Index numbers of retail prices and costs of living issued by the Bureau are constructed from a more general point of view, having for their object the measurement of the general movement of such prices and costs in the Dominion as a whole, and being

so calculated as to make comparisons possible with other general index numbers constructed on similar principles, for example, the index of wholesale prices. Calculated as they are on the aggregative principle, *i.e.*, the total consumption of each commodity, the Bureau's index numbers afford an excellent measurement of changes in the average cost of living in the Dominion as distinguished from that of any particular class or section.

In the Bureau's index, 1926 is taken as the base year and is represented by 100 to bring it into conformity with other series of index numbers shown in this chapter. A description of the system of weighting of individual items, sub-groups and groups, and of the method of construction of this index number was given at pp. 812-818 of the 1931 Year Book. The Labour Department uses 1913 as 100 for both cost of living and wages index numbers. As will be seen from Table 7, the general cost of living again declined sharply during 1932, the annual index for that year being 82·0 as compared with 89·6 for 1931. The fall in the food index from 69·6 to 64·0 between January and December (inclusive), 1932, and the drop in the clothing index from 76·4 to 69·2, continued to be the factors chiefly responsible for the decline. Rentals reacted further from 99·3 to 90·0 during the year. Changes in the fuel and sundries indexes were of lesser proportions.

7.—Index Numbers of Canadian Retail Prices, on the New Base, 1914-32.

(1926-100)

				 _		
Year.	Food Index.	Fuel Index.	Rent Index.	Clothing Index.	Sundries Index.	Total Index,
1914	68-9	64-5	62-2	63-9	66.2	66-0
1915	69∙5	63 · 2	60.8	69-6	66.9	67.3
1916	77.5	64-5	60.9	79-7	70-2	72.5
1917	100-0	71-7	65-4	93.7	76-8	85 -6
1918	114-6	78-9	69-2	109-5	86 - 1	97-4
1919	122-5	86 · 2	75-6	125.9	95 - 4	107-2
1920	141-1	102-6	86.5	158 - 2	104-0	124 - 2
1921	107-9	109-2	94 - 2	124.7	106.0	109-2
1922	91.4	104 - წ	98-1	105-7	106-0	100-0
1923	92-1	104.6	100-6	104-4	105 - 3	0.001
1924	90.7	102.0	101-3	101-9	103 - 3	98-0
1925	94.7	100-0	101-3	101-9	10f ·3	99-3
1926	100.0	180-0	100-0	190-0	100-0	100-0
1927	98-1	97.9	98-8	97-5	99 · 1	98-4
1928	98-6	96.9	101-2	97-4	98.8	98-9
1929	101-0	96∙4	103 - 3	96-9	99-0	99-9
1930	98-6	95.7	105-9	93 - 9	99-4	99-2
1931	77.8	94.2	103-0	82 - 2	97-4	89-6
1932	64.3	91.7	94-7	72-8	96.8	82.0

8.—Index Numbers of Retail Prices, Rents and Costs of Services, by Months, 1930, 1931, 1932 and January-May, 1933.

(1926 = 100)

		,		· · · · · ·		
Year and Month.	Food Index.	Fuel Index.	Rent Index.	Clothing Index.	Sundries Index.	Total Index.
1930.						
January February March April May June July August September October November December	106-5 106-0 104-8 101-1 100-7 100-4 98-5 96-3 92-8 92-6 91-5	96-6 96-6 96-7 96-5 95-1 94-8 95-1 95-7 95-7	105-5 105-6 105-6 106-5 106-5 106-5 106-5 105-5 105-5	96-5 95-9 95-9 95-0 95-0 95-0 91-6 91-6 88-3	99-9-7-8-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9	102-1 101-9 101-5 100-4 100-2 100-2 99-5 98-9 97-0 96-9 95-9
1939 Averages	98 - 6	95-7	105 9	93.9	99-4	99·2
1931.				_		
January February March April May June July August September October November December	89·1 85·6 82·8 80·5 77·7 75·5 73·5 71·5 71·5	95-22-16-5-19-5-5-9-5-9-5-9-9-5-9-9-9-9-9-9-9-9-	105-5 105-5 105-5 105-5 103-3 103-3 103-3 103-3 99-3 99-3	88-3 88-3 84-7 84-7 81-1 81-1 81-1 78-6 78-6 78-6	98-0 98-0 97-4 97-4 97-3 97-3 97-3 97-3 97-2 97-2	94-9 93-9 92-2 91-5 90-7 88-6 88-9 87-3 86-4 85-9
1931 Averages	77.8	94-2	103.0	82.2	97-4	89.6
1932.						
January February March April May Juny July August September October November December	69 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 ·	93 - 9 93 - 8 93 - 6 91 - 0 90 - 7 90 - 7 90 - 4 89 - 3	99-3 99-3 99-3 99-3 93-9 93-9 93-9 90-0 90-0	76-4 76-4 74-5 74-5 71-9 71-9 70-7 70-7 70-7 70-7	97·1 96·8 97·0 96·8 96·8 96·7 96·6 96·4	85 · 4 83 · 9 83 · 7 81 · 8 81 · 0 80 · 8 81 · 4 80 · 4 80 · 4 80 · 4
AND DATE OF THE PROPERTY.				14.0	36.9	
1933.						
January February March April May	62·8 60·6 60·4 61·3 61·9	89.3 89.3 88.9 88.8 88.5	90-0 90-0 90-0 90-0 8 4-0	69-2 69-2 66-5 66-5 66-5	96·4 96·2 96·0 96·0 96·0	79 · 7 79 · 0 78 · 4 78 · 6 77 · 6

The Family Budget.—A family budget constructed by the Department of Labour appears regularly in the *Labour Gazette*. This budget material has been used by the Bureau to obtain the tables which follow.

Table 9 shows the average prices of items included in the family budget in 1920 and in each of the years from 1923-32. These numbers are weighted by the quantities used by the Department of Labour in computing their monthly family budget. Table 10 gives the group indexes by provinces. An examination of the tables reveals the course of the budget, consisting of food, fuel and lighting, and rent, over the period shown.

 Prices of a Family Budget of Staple Foods, Fuel and Lighting, and Rent, for Sixty Cities in Canada, 1920, 1923-32.

Commodity.	Unit.	1920.	1923.	1924.	1925.	1926	1927.	1928.	1929.	1930.	1931.	1932.
Staple Foods—		\$	\$	\$, \$		•	5	\$	\$	\$	\$
Beef, sirloin steak	t ib.	0-389	0·283	0-280	0-285	0.294	0.308	0.345	0.363	0.356	0.286	0-206
Beef, chuck roast		0.251							0.227			
Veal, roast	1 "	0 · 274 0 · 354	0·182 0·277	0-179 0-278	0 · 182 0 · 289	0·193 0·298		0.226	0·245 0·309		0·183 0·253	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
Pork, fresh, roast	1 "	0.397				0.302		0.273	0 300			0.129
Pork, salt mess	1 "	0.362		0.231	0.254	0.278		0.261	0.273			0.142
Bacon, breakfast Lard, pure leaf	1 "	0·559 0·380		0-337 0-220	0.385 0.242	0.431 0.24€	0.393 0.221	0.379 0.221	0-393 0-219			0·186
Eggs, fresh		0.709	0.442	0.439	0.486	0.466		0-478	0.475			0.454
Eggs, storage	I "	0.608	0.370			0.398			0.403		0.271	0.32
Milk Butter, dairy	1 at. 1 lb.	0-151 0-631	0·117 0·399	0·121 0·387	0.119 0.389	0·118 0·406	0.119 0.415	0·121 0·417	0·123 0·428			0+098 0+226
Butter, creamery	1 "	0.696		0.435	0.439	0.448			0.470			
Cheese, old ,	1 "	0.406				0.318			0.334			0.198
Cheese, new Bread, plain white		0.383	0-326 0-067	0.801 0.069		0.318 0.076		0.329 0.077	0.334 0.078			0·198
Flour, family	" 1	0.079				0.053			0.051			
Rolled oats	1 "	0.084	0.055			0.058		0.063	0.064		0.050	
Rice, good medium. Beans, hand-picked	1 "	0·164 0·117				0·110 0·079			0·104 0·115		0.092	0.082 0.040
Apples, evaporated.	i "	0.286			0.204	0.200			0.218			
	1 "	0.270				0.158			0.141			0.100
Sugar, granulated Sugar, yellow	1	0·197 0·185				0.079 0.075			0-073 0-069		0.062	
Tea, black	î "	0.644	0.656			0.719			0.704			0.440
Tea, black Tea, green	1 "	0.672	0.656			0.719			0.704		0.552	0-440
Coffee Potatoes	1 " 1 pk.	0.608	0 · 539 0 · 252			0.612 0.436		0.607 0.258	0 · 604 0 · 291		0·492 0·172	0-412 0-140
Vinegar, white wine	i pt.	0.080									0.080	
All Foods, Weekly Budget!	\$	15· 9 9	10.52	10-31	10-81	11 - 21	11-00	11-04	11-34	10-96	8-49	7·04
Starch, laundry	1 lb.	0· £44	0.122	0.122	0.194	0.194	0.123	0.123	A. 193	0-123	0.120	0.117
		V 133		<u> </u>	U 121							
Fuel and Lighting—	1 4	17-04	17 000	17 050	10 000	15 200	10 405	10.050	10 109	12 110	10 084	
Coal, anthracite Coal, bituminous	1 ton	12.88	11.555	10.707	10.249	10-311	10.400	10.212	10.080	110-064	16-064 9-840	9 408
Wood, hard, best	1 cord	13.09	12.764	12-485	12 280	$12 \cdot 195$	12-128	$12 \cdot 077$	12.208	12 - 176	11-696	10 256
Wood, soft	1 "	10-14	9.512	9.209	8-979	8.947	8.960	8-937	8.800	8-672	8-560	7 - 680
Coal oil	1 gal.	0.365	0.307	0.306	0.304	0.808	0.314	0·31i	0.311	0.309	0.291	0.273
Rent, 1 month	\$	24 - 80	27.86	27 · 79	27.54	27 · 43	27.43	27 · 67	27-92	28 - 16	27 · 80	23-96
Grand Totals, Weekly Budget		25 91	21 - 87	20-69	21.06	21 - 47	21-20	21 - 27	21 - 61	21 - 29	18-66	16-01

^{&#}x27;Totals for "all foods" and "grand totals" are based upon the estimated weekly family consumption of the commodities specified in the table.

10.—Index Numbers of a Family Budget of Staple Foods, Fuel and Lighting, and Bent in Canada, by Provinces, 1923-32.

(Dominion Average for 1918=100.)

STAPLE FOODS.

Province.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	142.7 136.4 141.1 138.2	128 · 9 144 · 1 144 · 7 132 · 2 139 · 5 133 · 1 137 · 7 139 · 4 154 · 1	134 · 8 149 · 5 147 · 7 139 · 3 145 · 0 141 · 7 148 · 2 149 · 9 164 · 6		136-8 148-6 150-1 189-4 150-8 141-6 150-7 148-4 163-2	145 · 6 152 · 3 151 · 1	139-1- 153-5 151-4 142-8 153-8 151-2 158-3 158-9 170-4	140-4 151-6 149-1 138-8 148-7 144-5 149-1 150-9 164-5	110-4 111-8	95 · 4 102 · 9 102 · 1 89 · 4 95 · 7 93 · 0 93 · 4 93 · 0 106 · 9
	FUE	AND	LIGI	ITINO	3.					
Prince Edward Island Nova Scotia New Bruaswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	196 6 163 8 174 8 183 8 194 1 203 9 201 7 134 8 156 1	179 · 1 160 · 9 169 · 5 175 · 4 183 · 0 195 · 3 195 · 2 122 · 5 152 · 4	174 · 3 157 · 1 164 · 9 172 · 8 179 · 6 188 · 5 186 · 4 128 · 3 147 · 1	167 · 0 155 · 5 168 · 1 177 · 5 182 · 2 184 · 8 181 · 2 126 · 2 147 · 6	179 · 1 183 · 2 182 · 7 122 · 0	177-0 184-8 183-3 108-4	154 · 5 151 · 8 160 · 2 174 · 9 177 · 0 189 · 5 181 · 2 100 · 5 147 · 6	153.9 150.3 160.7 173.3 175.9 190.1 174.9 100.5 147.6	152-9 149-2 156-0 167-0 173-3 181-7 160-7 97-4 146-1	
		RJ	ENT.							_
Prince Edward Island. Nova Scotia. New Brunswick Quebee Ontario Manitoba Saskatchewan Alberta. British Columbia.	151·7 181·2 184·5	123 · 8 118 · 5 142 · 1 121 · 1 154 · 4 184 · 2 187 · 6 150 · 8 134 · 3	122·5 117·5 142·1 120·8 152·8 184·2 184·2 148·0 135·4	142 · 1 120 · 8 151 · 8 184 · 2 184 · 2	117-9 142-1 121-7 151-2 184-2 184-2 152-4	117.9 142.1 122.7 153.1 184.2 184.2 151.8	122 · 3 117 · 9 142 · 1 123 · 2 154 · 3 184 · 2 157 · 9 139 · 8	121-1 139-4 125-9 155-8 184-2 185-7 161-7	123 · 8 126 · 9 135 · 6 124 · 4 153 · 3 176 · 6 176 · 8 160 · 4 140 · 2	126+9 132+4 118+1 139+6 153+5 156+0 143+6
	G	RAND	TOT	ALS.						
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	147.7	133-7 137-4 146-9 134-1 150-2 158-6 162-1 140-6 146-9	135 · 6 139 · 4 147 · 9 137 · 4 152 · 2 162 · 2 165 · 3 146 · 9 152 · 0	145-8	154 · 6 161 · 5 166 · 2 145 · 9	138 - 9 148 - 2 138 - 3 155 - 0 163 - 8 167 - 2 145 - 3		140-8 147-1	127.0 129.9 121.1 135.4 141.5	115-8 118-4 108-2 119-8 122-3 117-0 1110-1

Section 3.-Index Numbers of Security Prices.

Many important advances have recently been made in the direction of improving the technique of making index numbers of security prices. The chief of these are: first, the computation of index numbers to serve different purposes; secondly, weighting of the index numbers so that they will accurately represent the market—an accurate index of market trends cannot be made on the basis of a simple average of market quotations or on any system which does not consider weighting; thirdly,

using weighted average prices of individual securities rather than the average of high and low quotations or closing quotations. This last point is of considerable importance, because the average price at which a stock sells on a day's market frequently differs widely from the average of its high and low quotations or its closing price.

In the revised index numbers of security prices which have recently been issued by the Bureau full use of the improvements mentioned has been made, and these index numbers are now in line with the most advanced technique pertaining to the making of such indexes. In the revision, the base of the calculations was also changed. The basic period is now the year 1926, that is, prices prevailing in that year are taken as 100 and subsequent price movements are expressed as a percentage. The year 1926 was chosen as the base in conformity with the tendency which now prevails to substitute a post-war for a pre-war year. This year was also chosen in order to enable comparisons to be made with important indexes in the United States.

Two series of index numbers are now published by the Bureau on a weekly basis, viz., investors' and traders' indexes. (See Tables 11 and 12.) As will be apparent, these measure movements of an entirely different character. The traders' index is based upon the prices of the twenty-five best-selling industrial and public utility common stocks sold on the Montreal and Toronto Exchanges each week. This traders' index measures the trend of gains or losses for an "average" trader on the Montreal and Toronto Stock Exchanges, who buys and sells the leading common stocks in the same proportion as they are traded in the market as a whole, and who turns over his holdings every week. The investors' index, on the other hand, measures the trend of values for the investor who buys a list of stocks and holds them over a long period of time.

Investors' and Traders' Index Numbers of Common Stocks.—Monthly figures for the investors' index number of common stocks, computed by the Dominion Bureau of Statistics on the basis 1926 = 100, have been carried back to 1913. The index falls into two parts, viz., the period subsequent to 1926 and the earlier period. For the period 1913 to 1926 those stocks were used which were included in the index number previously issued on the 1913 base, viz., 31 industrials, 10 public utilities and 9 banks, or 50 stocks in all. In the subsequent period the list of stocks included in the monthly index numbers was enlarged and now contains 96 industrial, 18 domestic utilities, 8 companies located abroad and 8 bank stocks. Despite the difference in the number of stocks included, the trend of stock prices is adequately shown throughout the whole period. The larger number of stocks included in the revised index number, though adding little to the accuracy of the general index, gives more complete information regarding various groups of stocks traded on Canadian exchanges.

Banks are included in the monthly index numbers but not in the weekly, the trading in such securities not being, as a rule, sufficiently important to warrant their inclusion in a weekly index. In any case, their inclusion does not affect the general index by more than a point or two.

11.—Investors' Index Numbers of Common Stocks, by Months, 1932.

Nore.—For earlier figures, see p. 695 of the 1932 Year Book, p. 823 of the 1931 Year Book, p. 782 of the 1939 Year Book, p. 784 of the 1929 Year Book, and pp. 796-800 of the 1927-28 Year Book.

				Туре	s and N	umbers	of Secu	rities,			
]]	Industri	ale.			
Year and Month.	Grand Total	Banks Total	Indus- trials Total.	Iron and Steel, and Iron and Steel Products	Pulp and Paper.	Mill- ing.	Oils.	Tex- tiles and Cloth- ing.	Food and Allied Pro- ducts.	Bever- ages.	Mis- cella- neous.
	130	8	96	19	9	5	4	9	21	8	21
1932.						-			 -		
January February March April May June July August September October November December	64·8 63·5 64·1 54·0 45·8 43·2 49·6 59·0 63·0 54·8 53·4 51·3	90-3 86-0 85-8 65-7 60-5 67-1 73-9 76-1 74-4 69-6 67-5	73 · 7 71 · 1 71 · 5 58 · 2 51 · 4 48 · 8 56 · 6 69 · 9 73 · 8 63 · 1 62 · 5 58 · 4	77-2 76-5 79-2 62-5 44-9 40-5 51-1 63-5 69-1 55-9 51-3	10.5 9.9 10.1 9.2 8.6 8.4 7.9 8.8 4.4 3.5 3.1	66.5 64.9 65.5 63.7 63.1 62.6 38.3 47.4 53.0 49.8 48.3 43.3	107-8 106-3 106-8 87-7 90-1 84-8 97-0 110-0 113-0 97-4 95-9 90-8	44 9 39 6 38 3 29 1 28 9 38 5 42 3 38 6 38 7	94 · 7 89 · 6 87 · 8 83 · 2 76 · 5 73 · 0 81 · 2 98 · 7 90 · 8 86 · 5 85 · 9 83 · 0	42 · 5 40 · 6 40 · 3 36 · 1 26 · 3 30 · 2 35 · 6 44 · 1 40 · 7 43 · 3 37 · 1	86.9 81.7 82.4 47.1 43.3 55.2 78.7 89.2 73.9 74.2 70.1

			Types and N	lumbers of 8	ecurities.		
		Public 1	Utilities.		Com	panies Abro	oad.
Year and Month.	Public Utilities Total.	Trans- portation.	Telephone and Telegraph.	Power and Traction.	Companies Abroad Total.	In- dustrial.	Utility.
	18	2	2	14	8	1	7
1932.							
January February March April May June July August September October November December	59·1 59·8 48·9 34·9 41·8 51·9 46·6 45·1	40.9 43.3 46.2 34.4 26.0 24.7 31.5 42.7 47.6 39.0 38.2 37.4	83 · 3 82 · 0 81 · 1 68 · 8 63 · 8 59 · 9 71 · 6 76 · 3 73 · 4 70 · 8 68 · 3	76-8 75-3 73-6 63-7 45-0 42-7 51-6 65-9 57-7 53-1 50-8	54.5 55.8 47.4 49.5 49.5 49.7 56.5 47.3 48.9	67-1 65-2 67-0 59-1 65-6 72-8 77-8 64-9 69-1	42.9 44.8 45.7 37.1 34.9 35.1 36.4 35.7 38.7 38.7 31.8 32.0

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12.—Traders' Index Numbers of Prices and Volume of Sales, Monthly Averages, January, 1929-May, 1933.

(1926 = 100.)

Note.—The Traders' Index measures the trend of gains or losses for an "average" trader, on the Montreal and Toronto Stock Exchanges, who buys and sells in the same proportion as stocks are traded in the market as a whole and turns over his holdings every week.

Column 1.—Weighted index numbers of the prices of Industrial and Public Utility common stocks

on the Montreal and Toronto Exchanges

Column 2.—Index numbers of the total money values of the 25 best selling stocks traded on the Montreal and Toronto Exchanges.

Month.	19	29.	19	30.	190	31.	19.	82.	19	33.
	Price.	Value.	Price.	Value.	Price.	Value.	Price.	Value.	Price.	Value.
January February March April May June July August September October November December	1,125.8 1,057.3 962.4 955.1 968.0 1,032.1 1,170.1	634 · 5 301 · 8 269 · 5 150 · 2 157 · 1 96 · 1 115 · 3 273 · 6 264 · 2 406 · 1 173 · 6 96 · 7	828-9 864-3 898-6 1,010-9 921-2 821-3 768-6 731-3 778-4 618-1 612-7 593-5	93 · 6 80 · 1 112 · 0 172 · 0 101 · 1 102 · 9 24 · 3 61 · 6 77 · 9 26 · 2 31 · 1	609 - 8 660 - 2 714 - 3 621 - 5 495 - 2 464 - 8 492 - 4 470 - 7 394 - 5 360 - 6 448 - 5 390 - 7	20 · 6 49 · 7 44 · 5 31 · 1 46 · 5 28 · 6 14 · 7 9 · 8 19 · 8 19 · 8 19 · 8	261 · 2 251 · 0 306 · 6 408 · 0 470 · 6 393 · 6	5 4 2 9 2 9 1 1 7 2 0 8 2 2 8 7 4 8	366-2 340-9 352-9 388-9 568-4	7·1 9·4 9·3 23·9 49·8

The value indexes shown above have replaced a former series which was calculated by the use of chain relatives, because the contraction in both sales and prices during the past two years had developed a tendency to exaggerated movements which is inherent in this type of index. It was therefore dropped and the fixed base aggregative index given was adopted in its stead. This series measures accurately changes in the total value of the shares traded in the twenty-five best-selling issues on the Montreal and Toronto Stock Exchanges. These variations have been found to correspond closely with the movements in total values of shares traded on the two exchanges mentioned.

Weighted Index Numbers of Mining Stocks.-A weighted index number of mining stocks is computed by the Dominion Bureau of Statistics on the basis 1926 = 100. Mines of a semi-industrial nature, such as International Nickel and Consolidated Mining and Smelting Company, do not appear here but are included in the Bureau's Investors' index of common industrial and public utility stocks.

Index numbers are calculated for the total stocks and for three groups, viz., gold stocks, gold-copper stocks, and silver and miscellaneous stocks. stocks are Premier, Coniaurum, Dome, Hollinger, McIntyre, Vipond Consolidated, Kirkland Lake Mines, Lake Shore, Sylvanite, Teck-Hughes and Wright-Hargreaves. Gold-copper stocks include Amulet, Hudson Bay, Sherritt-Gordon, and Noranda. Silver and miscellaneous stocks are Nipissing, Coniagas, Keeley, Castle-Trethewey, and Mining Corporation. The term "silver and miscellaneous" is used because all five stocks have important interests other than silver and two of the five are not now producing silver.

The course of mining stocks during the first half of 1932 was generally downward and the index fell from 59.7 in January to 48.3 in June. From 55.6 in July, the index advanced almost steadily to close the year at 63.1. Of the three subgroups gold and gold-copper followed practically the same path as the general index. The gold series fell from $60 \cdot 1$ to $49 \cdot 9$ in June, but moved up to $62 \cdot 7$ in December. The gold-copper index receded from $62 \cdot 5$ in January to $47 \cdot 8$ in June and closed the year at $70 \cdot 9$. The silver and miscellaneous group opened the year at $26 \cdot 5$, moved down to $16 \cdot 8$ in June, but again reacted and closed at $21 \cdot 9$ in December.

13.—Weighted Index Numbers of Prices of Mining Stocks, by Months, January, 1931 to May, 1933.

(1926 - 100.)

		Турев с	i Stocks.	
Year and Month.	Gold.	Gold- Copper.	Silver and Mis cellaneous.	Total.
Numbers of Stocks	11	4	5	20
t931.				
anuary	68 · 1	74-4	34-1	68 - 8
February	72.0	82.7	36.8	73√
March	72.3	96.7	43.9	77-1
April	77-5	103.7	39-2	82.
May	72.9	90-1	35-1	75 -
une	68.6	75.1	31.5	69+
luly	66-8	79.1	32.0	68-
August	66.0	77.1	33-1	67.
September	62.6	67.8	32.1	63.
October	60.7	58-4	29.4	59.
November	64.4	68.6	32.3	64
December	59.0	62-4	27.6	59-1
1932.				
anuary	60-1	62 - 5	26.5	59 -
February	57 - 5	61.2	22.2	57 -
March	57.6	63-4	21.4	57 - 1
April	52.6	56.5	18.3	52 -
May	50 - 2	47-9	15-8	48.4
une,,.	49-9	47-8	16.8	48-
uly	57.2	55.6	21.0	55-1
August	58-1	69.7	26.3	59.
September	56.4	81.0	28.4	60.
October	55.0	71.0	24.4	57
November	58.1	76.5	23.6	60.9
December	62.7	70.9	21.9	63
1933.				
anuary	66-8	74.7	26-5	67 - 1
February	74.7	84.7	28.1	75-8
darch	66-6	81.5	26.5	68.
April	72.9	88-6	28.0	74.5
day	84.5	116-2	36.5	89-1

Section 4.—Prices of Services.

A study of the prices of services sheds considerable light on the cost of living as such services are a considerable item in the average family budget. Information with regard to the trend of street car fares, of rates for manufactured and natural fuel gas, of domestic electric light rates and of telephone charges was published on pp. 801-804 of the 1927-28 Year Book. Later information shows that the prices of manufactured fuel gas have shown a downward tendency, the Dominion index number for 1932 being 95·0, as compared with 100·0 in 1926. The index number of the price of natural fuel gas also declined from 100·0 in 1926 to 92·1 in 1930 but rose again to 94·8 in 1932.

On the other hand, telephone rates have shown a distinct increase, the Dominion index number of domestic telephone rates having risen from $100 \cdot 0$ in 1926 to $107 \cdot 2$ in 1931. Again, the business telephone rate has risen from $100 \cdot 0$ in 1926 to $118 \cdot 2$ in 1931. Additional information and details by provinces will be found on pp. 192-201 of the Bureau of Statistics' Annual Report on Prices and Price Indexes, 1913-30.

Hospital Charges.—In view of discussions of the increased cost entailed by illness and hospital treatment, special investigations on hospital charges are now made annually and the results are given as Dominion averages in the following table. In general, this shows that hospital charges have increased over 90 p.c. since 1913, except for operating room charges, which have increased only about 60 p.c. At the same time, the cost of maintaining patients in hospitals has increased by about 111 p.c. Since the general cost of living in Canada had increased only from 50 to 60 p.c. prior to recent declines, it may be inferred that patients in hospitals have an improved standard of living and of comfort as compared with the conditions before the War.

The detailed results of this investigation, including the statistics by provinces, are to be found on pp. 203-206 of the Bureau of Statistics' Annual Report on Prices and Price Indexes, 1913-29.

14.—Average Daily Hospital Charges in Canada and Index Numbers thereof, 1913 and 1917-31.

Item.	19	13.	1917.	1918.	1919.	192	xo	1921.	1922.
Public ward	<u>،</u> ا	0.99	1.19	1.32	1.4		54	1-67	1-71
Index number	10	10-0 h	119-4	134 - 8	149 - 7	7 354	3·0	170-6	176-6
Semi-private rooms	\$	1.57	1.79	2.03	2.2		2 44	2.63	2 · 69
Index number		0.0	114.7	130-9	145-8	3 154	3-3	168-6	173 - 1
Private rooms	\$	2.68	3.00	3.23	3.€	38	1+05 }	4.45	4 - 45
Index number		0.0	111.8	120 8	138-2	15	1.4	167-4	169-1
Operating room		5-16	5-53	5-94	6.7	71 '	7-00 l	7 - 15	7-24
Index number	Ĭ 10	0.0	107 4	115-4	130 - 8	13	7.0	140 1	141.8
Cost of maintenance per	17.	* *				.			
bend	1	1-68	2.14	2.47	2.7	72	3.08	3.22	3 - 12
Index number	10	Ď Ö	128 8	148.8	163 - 7	7 18	7.2	195.6	189 - 7
Item.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
Public ward\$	1.73	1.77	1.78	1.83	1.86	1.96	2.03	2.04	2.03
Index number	180 9	182 8	184 - 4	184 4	186-1	197.9	203.9	204 4	204 1
Semi-private rooms \$	2 73	2.74	2.84	2.82	2.83	2.85	2 87	2.89	2.89
Index number	175.6	176-1	182.2	185 2	186.3	187.8	189 1	190 4	190.2
Private rooms 3	4.52	4.58	4 92	5.07	5.14	5.25	5 28	5.24	5.23
Index number	170.8	172.3	185 9	188 - 5	191 1	195 3	194 . 5	194.9	194.5
Operating room \$	7.64	7.87	7.97	8.17	8.31	8.36	8.37	8-36	8.33
Index number.	148.9	153 -0	155 1	156-7	159.1	160-1	160.3	160.1	159.7
Cost of maintenance	140.8	109.0	100.1	103.1	100.1	100.1	******	1,00-1	1.00
per head\$	3 - 17	8.25	3 - 26	3.48	3-45	3-49	3.62	3.63	3-58
Index number	192.5	197 1	198.8	201.9	199.7	202 3	210.4	211.2	207.8
THUES MUHICUCK	100.0	101,1	100.0	201.2	T40.4	202 0	1	1 "	1

(1913 = 100 for Index Numbers.)

Section 5.—Index Numbers of Interest Rates.

Few economic statistics are of more significance than the net rates of interest paid on absolutely the safest securities, such as government bonds maturing on a fixed and definite date. Other interest rates naturally grade upward from the rates which the safest of possible borrowers has to pay, and from the fluctuations of that price an idea may be obtained as to the relation between the supply of, and the demand for, funds for investment.

Prior to the War the funded debt of the Dominion was entirely held outside the country, there being no home market for Canadian Government bonds. Since about the beginning of the century, however, the province of Ontario, the wealthiest and most populous of the provinces of the Dominion, has done its financing largely in Canada itself, and the fluctuation in the rate of yield of Province of Ontario bonds is thus the best long-term indicator of net interest rates in the Dominion. These yields, compiled originally by Wood, Gundy and Co., of Toronto, and furnished by that firm to the Bureau of Statistics, have been recalculated as index numbers on a 1926 base and are shown in Table 15, a particularly interesting feature being the decline in the interest rates index from the high point of 129.4 in October 1920 to 87.7 in February of 1928. Since the latter date, the scarcity of funds for this type of investment forced the index number up to 104.4 in May and September 1929, from which point it gradually declined to 92.9 in September 1930. In January and February 1931 it had risen to 95.0 but in March and April it declined to 92.9 and in May to 91.9. In the fall months considerable demand upon the available supply of long term funds again sent the index up sharply to a peak of 119.8 in January, 1932, which was the highest point reached since October 1921. From that time until May, 1933, when the index was 98.1 the general movement of yields has been downward.

15.—Index Numbers of Interest Rates in Canada, Calculated from Yields of Ontario Bonds, 1900-33.

(Base 1926=100.)

													
	Month				1900.	1901		1902.	1903.	1904	. 19	05,	1906.
January. April June October December	•••••				73·1 74·1 75·2 77·2 77·7	77 78 78 78 78 78	7	79·3 79·3 79·3 79·3 79·3	78·5 78·5 78·5 78·5 78·5	78 - 78 - 79 - 79 - 78 -	5 7 3 7 3 7	8·5 5·2 4·1 5·2 6·2	76-2 76-2 76-2 76-8 77-2
				Ì	1907.	1908	; [1909.	1910.	1911	. 19	12.	1913.
January					78·3 81·4 85·6 87·7 88·7	88 87 86 85 83	·7	82·5 81·4 80·4 80·4 81·4	81 · 4 82 · 5 82 · 5 82 · 5 83 · 5	83 - 81 - 81 - 83 -	0 8	33·5 35·6 36·6 37·7 38·7	88 · 7 89 · 8 90 · 8 91 · 9
					1914.	1918	5.	1916.	1917.	1918	. 19	19.	1920.
January	· · · · · · · · · · · · · · · · · · ·				91 · 9 90 · 8 88 · 7 88 · 7 88 · 7	88 91 93 104 109	.9 .9	109 · 6 110 · 6 109 · 6 104 · 4 102 · 3	100 · 2 109 · 6 114 · 8 123 · 2 125 · 3	125 125 126 125 125	3 1 3 1 3 1	21 · 1 16 · 9 12 · 7 16 · 9 20 · 0	120 · 0 121 · 1 125 · 3 129 · 4 128 · 4
Month.	1921.	1922.	1923.	1924.	1925.	1926.	192	7. 1928	1929.	1930.	1931.	t932	. 1933.
January February March April May June July August September October November December	125 · 3 125 · 3 125 · 3 125 · 3 126 · 3 126 · 3 128 · 4 127 · 3 126 · 3 119 · 4 119 · 4	116-9 114-8 113-7 112-7 112-7 112-7 111-7 111-7 113-7	110-6 109-6 107-5 107-5 107-5 107-5 107-5 107-5	106 · 1 106 · 1 106 · 1 105 · 8 103 · 5 99 · 2 100 · 2 99 · 2	100-2 100-2 100-2 99-2 99-2 99-2 99-2 100-2 100-2	100 · 2 100 · 2 100 · 2 100 · 2 100 · 2 100 · 2 100 · 2 100 · 2 100 · 2 99 · 2	9: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9	7·1 89·7·1 87·1 87·1 88·5·2 88·5·2 90·5·0 91·5·0 96·5·0 96·5·0 96·3·9 95·3·3 96·8 96·8	7 98 1 7 101 3 7 103 3 8 104 4 9 103 3 9 103 3 0 102 3 0 104 4 0 103 3 0 103 3	101 · 3 101 · 3 100 · 8 100 · 2	95.0 95.0 92.9 92.9 91.9 91.9 97.4 103.3 105.4	115- 110- 111- 113- 114- 110- 103- 101- 98- 102-	98.7 6, 100.0 3, 101.8 2, 98.1 4, – 6 3, 9 1, 3

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Section 6.-Index Numbers of Import and Export Valuations.

Index numbers of imports and export valuations have been computed by the Dominion Bureau of Statistics since 1920 and are shown in Table 16 for the years 1923-32. Fifty export and 60 import commodities are included in the calculations. The year 1913 has been taken as the base. Index numbers were calculated on the aggregative principle and both an individual and a group system of weighting has been used on the basis of quantities imported or exported.¹

16.-Index Numbers of Export and Import Valuations, calendar years 1923-32.

(1913=100.) EXPORTS.

												
Group,	Number of Items.	[923.	1924.	1925.	1926.	1927.	1928.	1929.	1 93 0.	1931.	1932	
Vegetables and their products. Animals and their products. Fibres, textiles and textile	14 11	122·2 142·0		155 · 2 155 · 1		143·5 160·3	132·1 155·7	130 · 1 155 · 7		73 · 6 118 · 3		
products	2	134 - 2	161-1	165-8	140-3	126.7	143 - 7	126-0	89-4	68-0	47	
paper ron and its products Non-ferrous metals and	8 4	178·0 90·8		167·9 83·8						125·7 79·3		
their products	6	121-2	128 · 3	132-9	129-4	120 0	121.1	126∙€	109 - 4	88.5	78	
their products.	2	190-1	181 - 1	169-9	172-8	173 - 3	172-8	177.0	164.0	155-9	140	
ducts		118-2	109.0	109 · 6	107 - 6	97.0	87.4	85.5		76.6	70	
Totals, Exports	50	136-8	139 ⋅ 6	151-7	147-0	144.0	137-6	136.9	116.8	95.2	85	
IMPORTS.												
Vegetables and their pro- ducts	15 3	174 · 4 87 · 3	167 · 2 78 · 9	154 · 8 93 · 6						180-9 58-0		
products	15	182 · 4	181.7	184 - 0	158-0	143 - 7	153 - 8	147-1	123 - 0	86-0	74	
paper products non-ferrous metals and	31	178 · 2 108 · 8	167·0 107·4	175 · 6 98 · 6		141·7 95·0				117·9 92·6		
their products Non-metallic minerals and	3	91.8	92.0	100-6	107-4	106-7	103 · 7					
their products	7	162.2	145-4	143.9			124-8					
ducts	3	143 - 7		140 -3							89	
Totals, Imports	60	147-6		139 · 6					115-1	95.3		
Combined Indexes	-	141-7	140.7	146.3	£40-1	136.3	133-0	130⋅6	116-0	95.2	87	

¹ For list of commodities included, see Appendix A of "Prices and Price Indexes, 1913-26".

CHAPTER XXI.—PUBLIC FINANCE.

The following treatment of public finance includes an outline of Dominion. provincial and municipal finance in Canada, supported by the necessary detailed statistics, and closes with a brief discussion of the national wealth and national income of the Dominion as the basis of all public finance.

The great increase in Dominion expenditure since 1913 has, of course, been mainly due to the Great War and the burden of interest, pension charges, soldiers' civil re-establishment, etc., resulting from the War. Similar increases have also taken place during the same period in provincial and municipal expenditures. Thus in their fiscal years ended 1931, the total ordinary expenditure of the nine Provincial Governments was \$190,754,202, as compared with \$53,826,219 in 1916, only 15 years before—an increase of almost 254 p.c. (The aggregate interest payments of Provincial Governments rose from \$7.817.844 in 1916 to \$36.748.3661 in 1931.) Again, between 1913 and 1931, the aggregate taxes imposed by the municipalities of Ontario increased from \$34,231,214 to \$128,657,684—an increase of 275.8 p.c. In Quebec the ordinary receipts of municipalities increased from \$20,771,300 in 1914 to \$63,637,511 in 1930—an increase of $206 \cdot 4$ p.c. In Manitoba the increase in municipal taxation has been from \$9,922,537 in 1912 to \$19,322,697 in 1930—an increase of 94.7 p.c. In Saskatchewan the grand total of municipal tax levies was \$13,358,627 in 1914 and \$29,609,893 in 1930. In Alberta the municipal taxes levied amounted to \$10,022,246 in 1914 and to \$14,887,676 in 1930. In British Columbia the taxes collected by the municipalities totalled \$8,698,820 in 1914 and \$18,260,430 in 1931. Finally, in the extreme east the aggregate tax receipts of the municipalities of Nova Scotia were \$6,605,580 in 1931, as compared with \$3,443,681 as recently as 1919—an increase of 92 p.c. in the last twelve years. The seven provinces covered by these statistics contained in 1931 approximately 95 p.c. of the population of the Dominion.

Section 1.—Dominion Public Finance.²

Historical Sketch.—Both under the French régime and in the earlier part of the British, the territorial or casual revenues of Canada, consisting of certain seigneurial dues and the proceeds of the sale of government timber and land, were reserved to the Crown, while the right of levying taxes and of regulating the trade and commerce of the colony was, after 1763, deemed to be vested in the British Parliament.

By the Quebec Act of 1774, certain duties on spirits and molasses were imposed. to be expended by the Crown in order to provide a revenue "towards defraying the expenses of the administration of justice and the support of the civil government of the province". A little later, in 1778, the British Government, by the Declaratory Act (18 Geo. III, c. 12), renounced forever the right of taxing the colonies to provide Imperial revenue, but maintained its claim to impose duties considered necessary for the regulation of trade, the proceeds to go towards defraying the expenditures of the colonial administration. After the Constitutional Act of 1791, the customs duties remained under the control of the Imperial Government, their revenue, as

tax in Canada, which were revised by the Department of National Revenue.

¹ Nova Scotia and Ontario interest charges on loans issued for Power and Hydro Commissions, etc., met from earnings, amounted to \$12,293,926.39 additional.

2 The statistics in this section have been made up from the Public Accounts, with the exception of those parts dealing with recent modifications in taxation, war tax revenue, and incomes assessed for income

well as the territorial revenue above mentioned, coming in to the executive administration independently of the Legislative Assembly and thus making the executive power largely independent of the Legislature. In case these revenues proved insufficient, recourse could generally be had to the grant made by the Imperial Government for the support of the army. As time went on, however, the Crown revenues became more and more inadequate to meet the increasing expenditure, while the wave of economy in Great Britain after 1815 made it impossible any longer to supplement these revenues from military sources. On the other hand, the purely provincial revenues collected under the authorization of the Provincial Legislature showed an increasing surplus. The power of the purse thus began to pass into the hands of the Legislatures; further, in 1831 the British Parliament passed an Act placing the customs duties at the disposal of the Legislatures.

Under the Act of Union, a consolidated revenue fund was established. All appropriation bills were required to originate in the Legislative Assembly, which was forbidden to pass any vote, resolution or bill involving the expenditure of public money unless the same had first been recommended by a written message of the Governor General. The British Government surrendered all control of the hereditary or casual revenues, which were thenceforth paid into the treasury of the province to be disposed of as its Legislature should direct.

At the interprovincial conferences which took place prior to Confederation, it was decided that the new Dominion Government, which was to take over permanently, as its chief source of revenue, the customs and excise duties that had yielded the greater part of the revenues of the separate provinces (direct taxation being as unpopular in British North America as in other new countries), was also to assume the provincial debts and to provide out of Dominion revenues definite cash subsidies for the support of the Provincial Governments. (See Tables 16 and 17.) Until the Great War, which made other taxes necessary, the customs and excise revenue constituted the chief resource of the Dominion Government for general purposes—the Post Office revenue and the Government railway receipts, which are not taxes at all, being mainly or entirely absorbed by the expenses of administering these services. Indeed, for many years preceding the War, customs and excise duties, together with the revenue from the head tax on Chinese immigrants, were the only items of receipts which were classified as taxes by the Department of Finance. In the last pre-war fiscal year these two items aggregated \$126,-143,275 out of total receipts on consolidated fund account amounting to \$163,174,395, the Post Office and Government railways furnishing between them \$26,348,847 of the remainder, offset, however, by expenditures on these two services amounting to \$27,757,196. Miscellaneous revenue, largely fees, amounted in that year to \$10,-682.273—a comparatively small fraction of the total. As both customs and excise taxes were indirect, the average Canadian felt but little the pressure of taxation for Dominion purposes.

The War enormously increased the expenditure, and this increase had in the main to be met by loans. It is, however, a cardinal maxim of public finance that, where loans are contracted, sufficient new taxation should be imposed to meet the interest charge upon the loans and to provide a sinking fund for their ultimate extinction. This war taxation was begun in Canada within the first weeks of the War, when in the short war session of August, 1914, increases were made in the customs and excise duties on various commodities, including coffee, sugar, spirituous liquors and tobacco. In 1915 special additional duties of 5 p.c. ad valorem were imposed on commodities imported under the British preferential tariff and 7½ p.c.

ad valorem on commodities imported under the intermediate and general tariffs, certain commodities being excepted. New internal taxes were also imposed on bank circulation, on the income of trust and loan companies, on insurance in other than life and marine companies, on telegrams and cablegrams, railway tickets, sleeping-car berths, etc., also on cheques, postal notes, money orders, letters and post cards. In the following year, the business profits war tax (dropped in 1921)1 was introduced, and in 1917 an income tax was imposed. In 1918 both of these taxes were increased and their application widened, and in 1919 the income tax was again increased, and still further augmented in 1920 by a surtax of 5 p.c. of the tax on incomes of \$5,000 and over; the sales tax was also introduced in that The cumulative result of these war taxes was that, in the fiscal year ended Mar. 31, 1921, customs duties were for the first time displaced from their position as the chief factor in Canadian revenue, the war taxes yielding \$168,385,327, as against the customs yield of \$163,266,804. In 1922 war taxes yielded \$177,484,161, while the yield of the customs fell to \$105,686,645. Again, in 1923 the war taxes yielded \$181,634,875 and customs duties \$118,056,469, in 1924 \$182,036,261 and \$121,500,798, in 1925 \$147,164,158 and \$108,146,871, in 1926 \$157,296,321 and \$127,355,144, in 1927 \$156,167,434 and \$141,968,678. In 1928, however, the customs duties yielded \$156,985,818 as against \$150,319,087 collected by the war taxes, in 1929 \$187,206,332 as against \$145,029,742, in 1930 \$179,429,920 as against \$134,086,005, in 1931 \$131,208,955 as against \$107,320,633, and in 1932 \$104,132,677 as against \$122,266,064 collected by war taxes.

A more detailed sketch of the changes made in taxation from 1914 to 1926 will be found at pp. 755-759 of the 1926 Year Book, while similar information re tax changes in 1927 was given at p. 808 of the 1927-28 Year Book.

Recent Modifications in the System of Taxation.2-In 1928 the general rate of the sales tax was reduced from 4 to 3 p.c. The rate of the graduated income war tax on individuals was reduced by a further 10 p.c. of the 1926 tax, so that an individual paid only 80 p.c. of what he would have paid on the same income two years before. Similarly, the rate of taxation on the income of corporations and joint stock companies, which had been 10 p.c. two years before and 9 p.c. in 1927, was reduced to 8 p.c. on incomes in excess of \$2,000. The \$500 exemption for children was further extended to include this exemption for sons and daughters over 21 dependent upon the taxpayer for support on account of mental or physical infirmity. The customs tariff was also amended in the direction of reducing the duties upon machinery and other commodities used in production in the mining and fishing industries, on onion plants for propagation, also on disinfecting and spraying preparations in the fruit and horticultural industries, and on press blankets used in the printing and publishing industry. In the textile industries reductions were very generally made on cotton, woollen and other yarns used by manufacturers as the material for further production, also on many finished cotton, woollen, linen, flax, jute, silk and artificial silk products. Also the duty on many types of machinery used in the textile industry was generally reduced or even taken off entirely under the British preferential tariff. For details of these very numerous changes, see c. 17 of the 1928 Statutes.

In 1929 the general rate of sales tax was reduced from 3 p.c. to 2 p.c. The taxes on certain insurance premiums, on cables and telegrams, and on railway and other tickets were also repealed. The tax on sales or transfers of stocks was so modified as to be levied on the actual value rather than the par value of shares

¹ Belated revenue from this tax has been collected in subsequent fiscal years down to 1932 (see Table 8, p. 835).

² For modifications in taxation in the years 1922 to 1927 inclusive, see the 1927-28 Year Book, pp. 807-809.

transferred; further, instead of a tax of 3 cents being levied for every \$100 par value of shares transferred, the tax was made to vary from one-tenth of a cent per share, where shares are sold at 50 cents each or less, to four cents, where they are sold at over \$100 each. A number of changes were made in the Customs Tariff by c. 39 of the 1929 Statutes.

In 1930, the general rate of the sales tax was reduced from 2 to 1 p.c. Bona fide co-operative organizations, government or like annuities (to the extent of \$5,000), and donations to churches, schools and hospitals (to a maximum of 10 p.c. of the net income of the taxpayer) were exempted from income tax, and the \$500 exemption for children was extended to cover certain dependent relatives suffering from mental or physical infirmity. In the customs tariff, the iron and steel schedules were completely revised, seasonal tariffs were adopted in respect of fruits and vegetables, duties were reduced on tea, porcelain and chinaware and meats and increased on beans and butter, and so-called countervailing duties were imposed in respect of 16 commodities. The year was unusual in that it saw a second tariff revision, namely, that of the special session of September, when the anti-dumping clauses of the tariff were re-written and very many changes were made in rates of duty in the schedules. Increases were made inter alia on most agricultural products, on printed matter and manufactures of paper, on numerous commodities in the iron and steel group, on a wide range of textile items and on boots and shoes. Power was granted to the Governor in Council to prohibit the importation into Canada of goods exported to the Dominion from any country not a contracting party to the Treaty of Versailles.

In 1931, the general rate of the sales tax was increased from 1 to 4 p.c. Taxfree limit for cheques, receipts for money paid by banks, money orders, travellers' cheques and Post Office money orders was reduced from \$10 to \$5 and postage stamps could be used on such documents in lieu of excise tax stamps. A special excise tax of 1 p.c. was imposed on importations. As regards the customs tariff. the 1931 session saw several further amendments of the administrative clauses of the tariff, the powers of the Governor in Council in the matter of the making of tariffs being widened to include the granting and withdrawing of rates more favourable than those of the British preferential tariff. Provision was made for penalty in the case of any person guilty of using the tariff to increase prices to consumers. Rates were altered on many items, the countervailing duties having been rescinded in entirety at the special session in September, 1930. Increases were made on fresh and canned meats, tea, field and garden seeds, prepared foods, containers, wallboards, spray mixtures, building stone and granite, steel plate, motor vehicles, wood veneers, various textiles, coal and coke, leather and leather goods, and numerous other commodities. The importation of second-hand motor vehicles, except under specified exceptional circumstances, was prohibited.

In April, 1932, the income tax was raised to 11 p.c. on corporations and joint stock companies. In the case of personal incomes, the deduction of 20 p.c. formerly allowed from the tax payable under the established schedule of rates was repealed; a surcharge of 5 p.c. was made on net incomes of over \$5,000 and the exemptions were reduced from \$3,000 to \$2,400 for married persons, and from \$1,500 to \$1,200 for single persons. These changes applied to 1931 incomes. The sales tax was increased by 2 p.c. to 6 p.c., and the special excise tax on goods imported into Canada was raised from 1 p.c. to 3 p.c. The stamp tax on cheques, promissory notes, money orders, etc., was increased from 2 cents for each instrument over \$5, to 3 cents on amounts between \$5 and \$100, and 6 cents over \$100. Sleeping car tickets were

taxed 10 p.c. (minimum 25 cents) and parlour car tickets 10 cents flat; there were also changes in the tax rates of cable and telegraphic messages and in the stock and bond transfer tax. No important tariff changes were made in view of arrangements for the Imperial Economic Conference in July, 1932. The tariff changes resulting from the Imperial Conference and enacted at the Fourth Session of the 17th Parliament, which opened on Oct. 6, 1932, are briefly dealt with on pp. 485-486.

Subsection 1.—The Current Balance Sheet of the Dominion.

A summary review of the current financial situation of the Dominion as at Mar. 31, 1932, is given in the balance sheet shown as Table 1. This shows the gross debt on the above date to have been \$2,831,743,563, partly offset by active assets aggregating \$455,897,391, leaving a net debt of \$2,375,846,172.\frac{1}{2} Non-active assets, including such public works as canals and railways, also loans to railways, amounted in the aggregate to \$1,708,720,179, leaving a debit balance on Consolidated Fund Account on Mar. 31, 1932, of \$667,125,993. The details of the various assets and liabilities are contained in the schedules accompanying the balance sheet and printed in the Public Accounts.

1.—Balance Sheet of the Dominion of Canada, as at Mar. 31, 1932.

(From the Public Accounts.)		
ACTIVE ASSETS— Cash on hand and in banks. Specie reserve. Advances to provinces, banks, etc. Advances to foreign Governments. Soldier and general lund settlement loans. Miscellaneous current accounts.		57, 352, 841 64, 660, 602 173, 183, 733 30, 494, 720 47, 804, 080 82, 401, 415
Total Active Assets Balance of Liabilities over Active Assets, being Net Debt, Mar. 31, 1932 (exclusive of interest accrued and outstanding carried forward)	. \$	455,897,891 2,375,846,172
NON-ACTIVE ASSETS—	\$	2,881,743,563
Public Works, canals Public Works, railways Public Works, miscellaneous Military property and stores Territorial accounts Railway accounts (old) Railway accounts (loans non-active) Canadian National Steamships (loans non-active) Miscellaneous investments and other accounts (non-active) Balance Consolidated Fund as at Mar. 31, 1931 Excess of expenditure over revenue year ended Mar. 31, 1932		237, 077, 740 441, 933, 589 248, 337, 218 12, 085, 421 9, 895, 948 88, 398, 829 614, 406, 239 16, 750, 034 44, 885, 161 572, 500, 770 94, 625, 223
T ** TVI VELICO		2,375,846,172
IMABILITIES— Dominion Notes in circulation Bank Note Circulation Redemption Fund Post Office account, money orders, postal notes, etc., outstanding. Post Office Savings Bank deposits. Insurance and superannuation funds Trust funds. Contingent and special funds. Province accounts. Temporary loan, New York Funded Debt. Interest due and outstanding.	•	157, 388, 180 6, 811, 793 3, 448, 855 23, 919, 677 90, 147, 427 18, 752, 801 1, 923, 062 9, 623, 817 15, 000, 600 2, 502, 859, 760 1, 868, 191
	\$	2,831,743,563

Note.—The Dominion of Canada is also responsible for principal and interest on loans negotiated by railways, under various Acts of Parliament, amounting to \$753,080,146. (See pp. 850.851 for details).

t The net debt on Mar. 31, 1925 was \$2,447,437.686; on Mar. 31, 1926, \$2,389.731,099; on Mar. 31, 1927, \$2,347,834,370; on Mar. 31, 1928, \$2,296,850,233; on Mar. 31, 1929, \$2,225,504,705; on Mar. 31, 1930, \$2,177,763,959 and on Mar. 31, 1931, \$2,261,611,936. See Table 18 p. 845.

Subsection 2.—Receipts and Disbursements.

The receipts of the Dominion Government on Consolidated Fund Account for the fiscal year ended Mar. 31, 1932, were \$329,709,056, a decrease of \$19,878,243 as compared with the preceding year; besides these, special receipts amounted to \$7,012,249—a total of \$336,721,305 (Table 2). The regular expenditure on Consolidated Fund Account was \$375,403,344, while special expenditure amounted to \$55,460,134. There were also a net expenditure on capital account of \$16,979,788 and other expenditures of \$3,132,275, including Government Merchant Marine \$1,199,286, and advances to Quebec Harbour Commissioners (non-active) \$1,379,000. Thus the total disbursements, inclusive of these and other advances, amounted to \$450,955,541. There was an increase of \$114,234,235 in the net debt (gross debt less active assets) during the year. (See Table 22.)

Detailed statistics of receipts and disbursements are contained in Tables 2 and 3. Tables 4 and 5 are historical tables giving the figures of the main items of Dominion receipts and expenditure since Confederation, while Table 6 shows the per capita receipts and expenditure for these years, calculated on census and estimated populations.

2.—Details of Revenue Receipts, fiscal years ended Mar. 31, 1928-32.

ı	· · · · · · ·				
Item.	1928.	1929.	1930.	1931.	1932.
Consolidated Fund Becelpts—		\$	s	<u> </u>	s
Taxation—	· ·	•	· ·	` 1	-
Customs	156, 985, 818	187, 206, 332	179,429,920	131, 208, 955	104, 132, 673
Excise	57,400,898	63,684,954	65,035,701	57,746,808	48,654,863
War Tax Revenue	01,700,000	00,002,000	00,000,.52	**,,	,,
War 18x revenue—	1, 224, 645	1,242,399	1,408,420	1,429,264	1,390,12
Banks	345,430	7.641	1,100,220	61	2,000,
Trust and loan companies	999,003		74,416	74,250	12.15
Insurance companies		465, 232			
Business profits	956,031	59,422,323	69.020.726	71.048.022	
Income tax	56,571,047			20, 152, 524	
Sales tax	70,661,089	62,639,789	44,114,249	20, 102, 024	41,104,10
Tax on cheques, transportation tax,				44 500 400	17,903,12
etc	19,561,842	20,367,494	19, 294, 894	14,582,137	17,903,12
fotals, Receipts from Taxation	394,785,803	395,921,028	378,551,626	286,276,896	275,085,03
Non-Tax Revenue— Canada Gazette Canals Casual Chinese revenue Dominion lands Electric light inspection Fines and forfeitures Fisheries Gas inspection Inspection of staples (Grain Act) Insurance inspection Interest on investments Law stamps Mariners fund Military college Military pension revenue Ordnance lands Patent fees Penitentiaries Post Office	2,677,877 123,768 10,937,822 12,170 222,048 20,232 128,917 14,206 495,792 177,933 31,562,580	1, 230, 332 4, 030, 326 18, 224 4, 070, 339 563, 964 655, 455 109, 300 92, 388 2, 992, 541 131, 636 12, 227, 562 10, 769 236, 808 20, 204 155, 830 24, 830 178, 449 30, 611, 964	1, 043, 647 4, 291, 162 14, 345 4, 139, 104 546, 93 110, 724 100, 763 2, 047, 207 138, 780 135, 188, 205 209, 322 10, 820 158, 881 30, 277 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024 181, 024	1,026,671 8,669,217 21,996 1,655,401 632,151 433,716 73,937 94,255 2,179,047 148,942 9,270 201,768 19,822 159,000 29,384 559,646 183,288 80,212,328	40,51 81,33 1,484,83 149,99 9,330,12 9,51 184,44 20,0 163,22 14,22 166,12 32,234,9

2.—Details of Revenue Receipts, fiscal years ended Mar. 21, 1928-32—concluded.

Item.	1928.	1929.	1930.	1931.	1932.
Non-Tax Revenue—concluded.			\$	\$	\$
Royal N.W.M.P. Officers' pensions Steamboat inspection Superannuation fund	6,144 127,852 172 361,690 5,909	6,373 136,932 81 399,247	6,471 131,356 5 407,248	6,357 144,332 419,750	14,787 113,232 406,529
Totals, Consolidated Fund Receipts	422,717,983	455,463,874	441,411,806	349,587,299	329,709,054
Special Receipts— Miscellaneous revenue	6,924,594	4,687,607	4,505,186	6,573,577	7,012,249
Totals, Receipts	429,642,577	460,151,481	445,916,992	356,160,876	335, 721, 305

3.—Details of Expenditures, fiscal years ended Mar. 31, 1928-32.

Note.—"Adulteration of food", \$147,770, "Marine hospitals", \$208,846, and "Quarantine", \$208,656, for 1932, have been classified in the Public Accounts of 1928-32 under the heading "Health", but are here deducted and shown separately so as not to break the comparability of the figures with those of earlier years. The Public Accounts item "Health" is therefore \$858,323 for 1932, compared with the \$303,050 shown here.

Item.	1928.	1929.	1930. 1931.		1932.
Consolidated Fund Espenditure—	\$	\$	8		\$
Charges on Debt— Charges of management Interest on debt Premium, discount and exchange	884,582 128,902,945 42,283	923,363 124,989,950 67,254	1,015,766 121,566,213 72,976	920, 136 121, 289, 844 19, 477	866,812 121,151,106 3,625,697
Totals, Charges on Deht	129,829,710	125,980,567	122,654,955	122, 229, 457	125,643,615
Adulteration of food Administration of justice. Air Board. Agriculture Bounties. Civil Government Customs and excise. Department of Mines. Dominion lands. Fisheries. Government of N.W. Territories. Health. Immigration. Indians. Labour Legislation Lighthouse and coast service. Mail subsidies and steamship subven-	120,800 2,190,810, 391,861, 6,487,766 82,807 11,576,140 11,801,331 624,184 4,082,752 1,751,147 392,378 260,804 2,704,608 4,199,541 1,411,027 2,041,192 2,771,031		156,567 2,198,909 5,920,670 40,030 12,258,046 41,030 13,130,611 80,479,835 2,274,294 401,155 2,767,331 2,366,399 2,366,399 2,874,623		4, 039, 795 9, 205, 724 12, 125, 790 13, 144, 210 634, 773 2, 626, 744 1, 868, 820 513, 234 308, 030 1, 873, 006 4, 880, 322 10, 657, 653 2, 916, 883
Mail substitute and steamship subvertions. Marine hospitals. Militia. Miccellaneous. Naval service. Ocean and river service. Penitentiaries. Pensions. Post Office. Public Works. Railways and Canals (collection). Public Works income.	844,591 189,970 10,151,975 6,501,410 1,702,225 3,749,100 1,755,763 39,778,130 31,782,988 2,535,361 14,037,366	33,483,059 939,965 2,405,272	1,083,436 253,649 11,032,749 5,281,928 3,013,396 5,136,332 2,561,115 40,406,565 35,036,629 2,460,990 18,134,359	5,469,723 3,597,591 3,638,981 3,236,816 45,965,723 36,292,604	208,846 9,700,464 4,785,128 3,043,201 4,109,895 2,736,876 48,686,389 34,448,986 768,146

3.—Details of Expenditures, fiscal years ended Mar. 31, 1928-32—concluded.

Item.	1928.	1929,	1930.	1981.	1932.
Quarantine Railways and Canals, income. Royal Canadian Mounted Police. Scientific institutions. Soldiers' Civil Re-Establishment. Soldiers' Land Settlement. Steamboat inspection.	199,861 5,838,145 2,300,439 1,004,195 6,958,811 1,334,008 131,665 12,516,740	200,000 8,297,914 2,600,525 1,081,502 7,901,951 1,441,951 141,485 12,553,725	210,000 8,680,901 2,901,817 1,138,221 8,494,277 1,362,122 149,253 12,496,958	208, 226 11,527,017 2,954,587 1,184,674 9,774,357 1,300,328 143,764 17,435,736	208,656 10,111,141 3,239,852 947,527 11,154,426 1,035,475 143,394 13,694,970
Subsidies to provinces Superannuation No. 1 Superannuation No. 3 Superannuation No. 4 Civil Service Widows' Annuities Act,	625,005 19,038	577,661 17,792 671,611 140,570	531,253 15,930 631,293	17,435,736 490,442 14,412 592,846 140,167	13,694,970 448,276 12,643 548,832 134,715
1927. Trade and Commerce. Weights and measures, etc Yukon	3,517,492 498,493 178,511	3,945,530 530,601 184,181	4,325,616 568,503 186,374	6,003,106 583,076 201,451	7,359,031 330,941 179,373
Totals, Ordinary Expenditure	336, 167, 961	350,952,924	357,779,784	389,558,289	375, 403, 244
Special Expenditure— War and demobilization	1,656,0114 13,057 1,692,254 ⁸ ,6	-669,399 ³ 11,330 2,055,823 ⁵ ,6	59,792 ¹ 17,071 9,726,949 ⁴ ,7	61,889 ¹ 193,338 6,485,621°,7,8	1,350,223
Totals, Special Expenditure	3,361,322	1,397,754	9,843,722	16,740,848	55, 460, 184
Capital Expenditure:	20, 63 5, 64 8	22,849,275	22,561,144	28,222,318	16,979,788
Loans and Advances, Non-Active— Advances to railways (non-active) Advances to Canadian Government	_	-	2,982,658		
Merchant Marine, Ltd., etc	999,837	758,000			
missioners (non-active)	1,458,000			' '	'
dry non-active assets accounts	16,035,6723	10,000,000	-213,364		533,989
Grand Totals, Expenditure	378,658,440	288,845,953	398,176,246	440,008,855	450,955,541

Expenditure on adjustment of war claims, \$1,880,985 less \$204,974 in 1928, less \$669,399 in 1929, \$94,996 less \$35,294 in 1930, \$110,371 less \$48,482 in 1931, and \$91,323 less \$15,852 in 1932.

²Net figure, includes large expenditures on Welland Ship Canal. See. p. 696.

*Includes \$13,935,673 to provide for revaluation and losses on account of Soldier Land Settlement loans; \$2,000,000 on account of seed grain relief, Department of Interior; and \$100,000 University Hospital, Edmonton, Alberta, transferred to non-active assets.

"To provide for revaluation and losses on account of Soldier Land Settlement loans.

*Includes \$205,033 on account of Home Bank Depositors' Relief in 1928 and \$17,109 in 1929.

*Includes \$1,402,210 Government contributions to the Civil Service Superamuation Fund under the Act of 1924 (14-15 Geo. 5, c. 69) in 1928, \$1,681,700 in 1929, \$1,892,591 in 1930, \$2,067,466 in 1931 and \$2,228,626 in 1932.

Includes \$6,700,000 Reparations claims for compensation in 1930 and \$500,000 in 1931.

*Includes \$8,553,535 to cover 30 p.c. reduction of Soldier Land Settlement loans, in accordance with the Act of 1930, also \$4,431,655 on account of Unemployment Relief Act, 1930.

*Includes \$38,295,515 on account of Unemployment and Farm Relief Act, 1931.

4.—Principal Items of Dominion Expenditure, 1868-1932—continued on pp. 830-831.
Note.—From 1868 to 1906, inclusive, the fiscal years ended on June 30; after 1906, on Mar. 31.

Consolidated Fund. Total Chargesof Expenditure Manage-Subsidies Chargeable ment. Railways Interest Public Post Office. Fiscal Premium. Pensions. and to to Con-Debt. Works. Canals.1 Provinces. Үезг. Discount solidated and Exchange Fund.2 13,486,093 14,038,084 126,270 616,802 787,886 2,753,966 2,604,050 4,501,568 4,907,014 581,503 641,814 1868 359, 190 56,422 1869... 465,657 339,999 50,564 53,586 65,013 1870. . 5,047,054 120,031 597,275 743,070 752,772 2,588,605 808,623 815,471 14,345,510 15,623,082 5,165,304 5,257,231 1871. 426,655 346,413 52,611 62,2512.624.940 849,786 913,236 2,930,113 929,609 17,589,469 1872. 19,174,648 23,316,317 23,713,071 5,209,206 2,921,400 3,752,757 1873 178,644 264,685 49,204 1,297,999 1,778,916 1,378,164 1,067,866 5,724,436 6,590,790 1,387,270 2,260,820 1874. 58,454 63,657 1,756,010 1,981,893 1,520,861 1875 227, 20t 3.750,9621,948,242 3,690,355 1,622,827 1876. 6,400,902 208, 149 110,201 1.897,283 24,488,372 207,875 1,262,823 2,239,346 3,655,851 1,705,312 23,519,302 23,503,158 1877... 6,797,227 112,531 1878 7,048,884 192,087 105,842 107,795 997,470 2,374,314 3,472,808 1,724,939 24, 455, 382 24, 850, 634 25, 502, 454 1,013,023 1,784,424 1,818,271 2,570,361 3,442,764 1879 . 7, 194, 734 277,923 1880 7,773,869 7,594,145 192,889 96,389 1,046,342 2,226,456 2,603,717 3,430,846 289,0851,876,658 3,455,518 1881... 225,444 1,108,815 3,580,999 1,980,567 27,067,104 195,044 101,197 98,446 1,342,000 2,755,833 1882 7,740,804 1883... 7,668,552 234, 170 1,765,256 3,117,465 3,606,673 2,176,089 28,730,157 2,312,965 2,488,315 2,763,186 2,818,907 2,889,729 95,543 89,879 88,319 3,603,714 3,959,327 4,182,526 1884 7,700,181 229,906 2,908.852 3,122,103 3,268,222 31,107,706 2,302,363 2,046,552 1885... 9,419,482 10,137,009 387,495 35,037,060 1886... 3,389,670 346,921 39,011,612 287,742 102,109 3,673,894 4,160,332 4, 169,341 4, 188,514 35,657,680 36,718,495 9,682,929 2,133,316 1887. 2,162,116 2,299,231 1,972,501 120,334 9,823,313 343,592 1888 2,982,321 10, 148, 982 095,301 1889 273,590 116,030 4.051,428 36,917,835 3,074,470 1890 ... 9,656,841 230, 409 107,391 4,362,200 3,904,922 35,994,031 36,343,568 36,765,894 1891... 9,584,137 262,068 103,850 1,937,546 4,505,516 3,903,757 3,161,676 3,935,914 3,935,765 9,763,978 9,806,888 1,627,851 1,927,832 1892. 183,938 92,457 4,337,877 3,316,120 8,421,203 213,794 180,975 90,309 86,927 3,848,404 3,760,550 3,704,126 1893. 36,814,053 4,206,655 1894 2,033,955 1,742,817 37,585,025 10,212,596 10,466,294 3,517,261 4,250,675 3,593,647 84,349 1895 278,950 38, 132, 005 10,502,430 10,645,663 10,516,758 10,855,112 248,575 4,235,664 4,238,059 1896 86,080 1,299,769 3,826,226 8,665,011 36,949,142 315,314 3,789,478 1897 90,882 1,463,719 3,725,690 38,349,760 4,237,372 3,575,412 3,603,799 3,758,015 199.887 96,187 1,701,313 4,049,275 38,832,526 4,250,636 1899 173,257 96,129 93,453 1,902,664 2,289,889 4,246,404 5,244,301 41,903,500 42,975,279 4.250,608 1900. . . 10,699,645 10,807,955 227, 194 201.861 93,551 83,305 3,386,632 6,377,961 6,508,477 4,250,607 3,931,446 46,866,368 **2901**. 4,221,294 1902... 10,975,935 263,250 4,402,098 4.023,637 50,759,392 4,402,503 4,402,292 4,516,038 4,105,178 4,347,541 51,691,903 55,612,833 64,319,683 87,925 4,065,553 7,221,705 8,397,434 1903... 11,068,139 294,968 1904... 11, 128, 637 288,984 113,495 4,607,330 9,803,912 8,779,678 7,011,858 1905... 10,630,115 276,072 140,424 6,765,446 4,634,528 10,814,697 6,712,771 10,973,597 11,604,584 67,240,641 51,542,161 7,484,716 5,520,571 6,726,373 4,921,577 3,979,557 1906. 346,902 179,023 125,832 187,557 191,533 6,745,134 244,548 1907* 383,820 356,707 8,721,327 12,300,184 9,032,775 10,586,114 10,780,126 6,005,930 6,592,386 76,641,452 1908. 1909... 9,117,143 84,064,232 358,973 79,411,747 87,774,198 98,161,441 13,098,160 12,535,851 1910... 216,697 7,261,218 10,215,038 9.361,388 7,215,338 7,954,223 376,777 240,586 8,621,431 11, 123, 251 9,092,472 191 t . 1912... 12,259,397 455,011 245,045 283,188 10,344 12,330,463 10,281,045 9,172,036 13,211,800 11,280,469 13,766,180 14,935,138 12,605,882 12,893,505 502,988 487,184 13,468,505 10,882,804 12,822,058 112,059,537 127,384,473 1913. . 1914... 811,900 19.007.513 19,343,532 12,039,252 15,736,743 21,421,585 358,558 13,876,060 20,777,830 11,451,673 1915... 554,729 15,961,191 135,523,207 130,350,727 731,836 671,133 11,451,673 16,009,139 1916... 11,469,148 11,369,148 11,327,236 35,802,567 496,387 488,712 2,814,546 8,633,096 7,432,901 27,124,004 148,599,343 178,284,313 1917... 16,300,579 8,155,691 18,046,558 1918... 47,845,585 34,849,608 77,481,432 107,527,089 139,551,520 1,305,676 18,282,440 45,494,584 8,418,024 8,886,458 6,295,060 19,273,758 232,731,283 1919... 1,462,658 26,004,461 1,102,088 37,420,751 9,016,246 10,846,875 20,774,312 22,696,561 1920 . 11,490,860 303,843,930 11,490,860 1921... 381,118,145 135,247,849 137,892,735 4,109,601 36,153,031 1,003,068 32,985,998 10,574,364 8,624,094 12,211,924 28,121,425 27,794,502 1922... 347,560,691 9,978,440 11,900,847 12,207,313 1923... 7,691,261 332,293,732 324,813,190 136,237,872 993,907 33,411,081 12,386,136 12,281,391 1924.. 2,126,803 28,305,941 849,694 34,888,665 1,996,152 2,120,223 2,152,015 1925... 134,789,604 12,029,578 29,873,802 318,891,901 884,388 37,203,700 987,265 37,902,939 926,765 39,778,130 12,375,128 12,516,740 12,516,740 12,553,724 320,660,479 319,548,173 336,167,961 1926.. 130,691,493 13,416,045 30,499,686 129,675,367 128,902,945 31,007,698 31,782,968 1927... 11, 178, 054 1928.. 14,037,366 2,535,361 124, 989, 950 990, 617 41, 487, 323 121, 566, 213 1, 088, 742 40, 406, 565 121, 289, 844 939, 613 45, 965, 723 121, 151, 106 4, 492, 509 48, 686, 389 17,003,254 18,134,359 23,763,284 2,405,272 33,483,058 1929. 350,952,924 357,779,794 12,496,958 1930... 2,459,990 35,036,629 2,911,080 2,708,898 17,435,736 1931... 36,292,604 389,558,289 1932... 16.099.739 13,694,970 34, 448, 986 375, 403, 344

Expenditure (Collection of Revenue). After 1919 railway receipts were applied directly to railway expenditure; this accounts for the great decline in the figures in 1920 and subsequent years. Includes various non-enumerated items.

4.—Principal Items of Dominion

				Canit	al Expenditu	res.			
Fiscal Year	Canals.	Canadian Pacific Railway,	Debts Allowed to Provinces.	Dominion Lands.	Inter- colonial and Connected Railways, Miscel- laneous.	Public Works.	Hudson Bay Railway.	National Transcon- tinental Railway, Including Quebec Bridge.	Prince Edward Island Railway.
1868 1869 1870 1871 1872 1873 1874 1875 1887 1881 1882 1883 1884 1885 1886 1887 1889 1890 1890 1891 1892 1893 1894 1893 1894 1895 1896 1901 1903 1904 1906 1901 1903 1904 1901 1914 1918 1918	1,723,151 1,873,861 1,650,701 2,349,471 2,259,641 2,259,641 2,829,661 5,490,791 4,304,581 1,781,951 2,211,964 4,550,766 4,482,611	\$ 30,148 489,4288 561,518 310,225 3,346,567 1,691,150 2,228,373 2,240,284 4,948,504 4,948,504 10,033,800 11,192,722 3,672,588 915,067 52,999 86,716 40,981 37,367 66,212 413,837 146,544 49,200 65,666 14,055 65,666 8,411 66,416 67,416 68,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416 69,416	1,666,200 13,859,880 4,927,061	\$	Miscellaneous. \$	\$ 41,690 8,548 41,690 8,548 99,517 135,963 139,464 258,833 170,123 187,377 70,944 119,866 491,377 182,300 599,200 491,377 192,457 192,457 102,458 102,398 114,829 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 124,399 125,385 134,395 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,385 1416,38	\$	Quebec Bridge. \$	\$ 46,087 42,646 200,000 6,551 40,129 16,540 57,186 130,663 76,957 4,668 5,800 17,542 22,000 53,546 280,174 475,998 829,414 698,878 829,414 698,878 829,414 698,878 591,413 91,210 380,962 561,207 206,397 94,321 128,042 129,875 1128,042 129,875 1128,042 129,875 11350,473 609,752
1923 1924 1925 1926 1927 1928 1929 1930	4,995,18 6,747,39 10,619,90 12,024,45 13,845,68 13,762,90 13,164,58 9,324,17	4			59,95 	0 3,411,51 3,804,42 6,030,32 4,806,94 2,920,6 3,281,0 0 16,818,0 6 6,573,53 5 12,009,2	27,80 207,87 207,87 30 -124,15 -2,48 70 2,823,90 77 3,554,503 19 6,159,56 30 6,472,21	3 - 4 4 - 5 5 - 7 3 - 41 0 8,87	7

¹ Including \$2,725,504, for the improvement of the St. Lawrence, spent during the previous years by Montreal Harbour Commission. ² Including \$17,956, cost of new car for the Governor General. ³ Including \$35,883, cost of new car for the Governor General. ⁴ Including \$15,000, cost of new car for the Governor General. ⁵ Includes New Brunswick Railway. ⁶ Nine months. ⁷ Includes capital expenditure on Hudson Bay Terminals \$830,278.

Expenditure, 1868-1932-concluded.

(Capital Exper	ditures—con	· 1	Oth	er Expenditu	res.		
North- west Terri- tories.	Militia.	Canadian Govern- ment Railways.	Total Capital Expendi- ture.	Railway Subsidies.	War and Demobil- ization.	Other Charges.	Total Expendi- ture.	Fiscal Year,
		*			*	\$	14,071,689	1000
	-	-	548,438		1	37,158 429,663	14,071,089	1868 1869
19,118 1,821,887	_] [440,418 3,515,116	i - I	_	155,988	14,908,166 18,016 614	1870
773.872	_	_	3,670,396 7,853,050	-	-		19,293,478	
241,889	-	_	7,853,050	111		223,456 5,719	25,665,975 39,039,808	1872 1873
63,239	-		19,859,441 10,177,740] []	1	4,019	33,498,076	1874
_	l -	-	10,177,740 6,922,743	-	- 1	2.253.097	82,888,911	1875
-		-	7, 154, 008	-		315,764 1,388,984	31,958,144	1876 1877
_	-	-	7,599,710 6,657,200	-		385,413	32,507,996 30,845,772	1878
_	_	-	5,648,332		-	676, 225	30.779.939	1879
-	-] =	8,241,174			949,948 117,772 201,885	34,041,756 33,796,643	1880
-			8,176,317	1 -		201.885	34,674,624	1882
_	-	l -	7,405,637 14,147,860 23,977,702	-	-	21,369	42,898,880	1883
-			23,977,702	208,000	-	2,567,453	57,860,862	1884
	i -	i -	13, 220, 185 9, 589, 784	403,245 2,701,249	[502,587 10,534,978	49,163,078 61,837,569	1885 1886
293,918		I	4,439,939	1,406,588	_	-	41,504,152	1887
539,930		-	4,437,460	1,027,042	-	155,623	45,064,124	1888
31,448	-	-	4,420,313	1 846.722		1,333,328	43,518,198 41,770,333 40,793,208 42,272,130	1889 1890
4,773 2,901		1 -	6,778,663 ¹ 3,115,860	1,678,196 1,265,706	[]	44,947 68,074 2,098,569	40.793.208	1891
-1,243	_	-	1 2.164.457	1,248,216	-	2,098,569	42, 272, 130	1892
8,911	-		3,088,318 3,862,970	1,265,706 1,248,216 811,394 1,229,885	~	139,963 330,354	40,853,725 48,008,23	1893 1894
-1,149 -833] _		3,862,970	1,329,889] -	399,294	42,872,33	1895
-543	1,000.000	ıl –	3.781.311	3,228,746	-!	137, 185	44,096,38	1896
3,284	1,000,000 745,965 173,740	-	3.523.160	416,955	-	682,881	42,972,75 45,334,28	1897 1 1898
-1,272 -1,853	173,740 387,810	1 -	4,142,231 6,201,516	1,414,935 3,201,220	-	944,589 236,399	51.542.63	1899
-1,473	230,851		7,467,370	725,720	_	1,549,098	51,542,63 52,717,46 57,982,86	1900
-1,632	135,885	i	17,693,857	2,512,329		900,312	57,982,86	1901
-1.543	299,697 428,228		10,077,095 7,049,684	2,093,989		1,040,874	63,970,80 61,746,57	0 1902 2 1903
-3.040 -2.616			7.879.102	1,463,222 2,046,878		1,541,763 6,716,235	72,255,04	8 1904
-2,478 $-1,767$	1,299,96	<u>-</u>	7,879,102 11,931,014	III 1,275,039	*	2,277,812	78,804,13	9 1905
-1.767	1,299,876	5 -	11,912,104 11,327,792	1,637,574 1,324,889	1 -	2,487,323 1,583,297	83,277,64 65,778,13	2 1906 8 1907
-1,352 -911	975,283 1,297,900	1 1	30,428,996	2,037,629]	3,470,608	112,578,68	0 1908
-1,048	5 1,243,072	2 -	42,592,122 29,655,703	1,785,887	' -	4.999.283	133.441.52	41 19DQ
-650) -	29,655,703	2,048,097 1,284,892] :	4,280,227 2,988,393	115,395,77	4 1910 0 1911
-33,68	s <u>-</u>	1 -	30,813,767 30,939,576	859.400	1 -	7,181,665	122,861,25 137,142,08	2 1912
	i -	ļ	27,205,046 37,180,176 41,447,326	4,935,507 19,036,237	il –	7,181,665 255,787	144.456.87	81 1913
-	-		37, 180, 176	19,036,237 5,191,507	60 750 176	2,640,162 5,186,016	186,241,04 248,098,52	8 1914
	1 -	1 [38,566,950	1,400,171	60,750,476 166,197,755	3,186,898	339,702,50	6 1915 2 1916
-] =		26,880,033	24 959.584	[] 306,488,815	15,275,345	498, 203, 11	8 1917
-	-	32,999,88	0 43, 111, 90	720,40	343,836,802	10,706,787	576,660,21	0 1918
-	1 -	14,827,75	8 25,031,266 $6 69,301,876$	6 43,808 8 334,848	446,519,440 346,612,955	-7,283,582 19,995,313	II 796 A2A 411	2 1000
_		6,221.77	4 40,012,80	7	16.997.544	492,048	528,302,513	1921
-	-	1,239,60	5 16,295,333	3	1,544,250 4,464,760	N 201 5 18	463,528,389	8 1922
-	-	1,313,02	2 9.807.12	-1,523	4,464,760 446,083	4,042,931	434,735,27	1923
-	1 -	24.44	5 10, 861, 27 2 16, 550, 51	1 -1,52	506,931	4,042,931 7,902,759 3,953,483 6,330,092	351,169,80	78 1924 38 1925
_	1	-29,37	2 16,550,51 2 16,798,54	9	191,392	6,330,092	∥ <i>ĕ</i> ≎≎.180.423	84 1926
-	1	-31,56	2 19,558,70	3 -	64,485	7,814,977	358,556,76	l* 1927
_	1 -	$\begin{bmatrix} -20,34 \\ -5,342,14 \end{bmatrix}$	7 20,635,644 9 22,809,27	8 - 5 -	1,656,011 -669,399	1,705,311 2,067,153	378,658,440 388,805,95	1928 1929
_	. -	217,49	4 22,561,14	4 -	59,702	9,744.021	398,176,240	3° 1930
-	· [-	1 2,500,00	0128, 222, 31	SU -	61,889	16,678,959	440,008,85	58 1931
-	_	1,007,34	8 16,979,78	<u> </u>	75,473	55.384,663	450,955,54	[8] 1932

^{*}Includes advances to railways (non-active), amounting to \$45,780,690 in 1920, \$109,662,55 in 1921, \$37,950,645 in 1922, \$77,863,938 in 1923, \$23,710,617 in 1924, \$9,934,453 in 1925, \$10,000,000 in 1926, \$10,000,000 in 1926, \$10,000,000 in 1926, \$10,000,000 in 1926, \$68,000 in 1926, \$10,000,100 in 1926, \$10,000,000 in 1926, \$68,000 in 1926, \$428,817 in 1927, \$999,837 in 1928, \$758,000 in 1929, \$2,491,297 in 1930, \$1,828,942 in 1931 and \$1,199,286 in 1932 to the Canadian Government Merchant Marine, etc; also other advances shown at the end of Table 3 on p. 828.

5.—Principal Items of Receipts of Canada on Consolidated Fund Account, 1868-1932.

							1 2000 200
Fiscal Year.	Customs Duties.	Excise Duties.	War Tax Revenue,1	Total Revenue from Taxation.	Interest on Invest- ments.	Post Office and Money Orders.	Total Revenue Receipts.2
1868 1869 1870 1871 1872	8,272,880 9,334,213 11,841,105 12,787,982	\$ 3,002,588 2,710,028 3,619,623 4,295,945 4,735,652	=	\$ 11,700,681, 11,112,573 13,087,882 16,320,369 17,715,552	\$ 174,073 824,424 383,956 554,384 488,042	\$ 525,692 536,315 573,566 612,631 692,375	13,687,928 14,379,175 15,512,226 19,335,561 20,714,814
1873 1874 1875 1876 1877	12,954,164 14,825,193 15,351,012 12,823,838 12,546,988	4,460,682 5,594,904 5,069,687 5,563,487 4,941,898		17,616,555 20,129,185 20,664,879 18,614,415 17,697,925	396,404 610,863 840,887 798,906 717,684	833,657 1,139,973 1,155,332 1,102,540 1,114,946	20,813,469 24,205,093 24,648,715 22,587,587 22,059,274
1878		4,858,672 5,390,763 4,232,428 5,343,022 5,884,860	-	17,841,938 18,476,813 18,479,577 23,942,139 27,549,047	791,758 592,500 834,793 751,513 914,009	1,207,790 1,172,418 1,252,498 1,352,110 1,587,888	22,357,011 22,517,382 23,307,407 29,635,298 33,383,456
1883 1884 1885 1886 1887	23,009,582 20,028,890 18,935,428 19,362,308 22,373,951	6,260,117 5,459,309 6,449,101 5,852,905 6,308,201	-	29,269,699 25,483,199 25,384,529 25,215,213 28,682,152	1,001,193 986,698 1,997,035 2,299,079 990,887	1,800,391 1,755,674 1,841,372 1,901,690 2,020,624	35,794,650 31,861,962 32,797,001 33,177,040 35,754,993
1888	22,091,682 23,699,413 23,913,546 23,805,218 20,361,382	6,071,487 6,886,739 7,618,118 6,914,850 7,945,098	· · · · ·	28, 163, 169 30, 586, 152 31, 531, 664 30, 220, 068 28, 306, 480	932,025 1,305,392 1,082,271 1,077,228 1,086,420		35,908,464 38,782,870 39,879,925 38,579,311 36,921,872
1893	20,910,662 19,119,030 17,585,741 19,766,741 19,386,278	8,367,364 8,381,089 7,805,733 7,926,006 9,170,379	-	29,278,026 27,500,119 25,391,474 27,692,747 28,556,657	1,150,167 1,217,809 1,336,047 1,370,001 1,443,004	2,773,508 2,809,341 2,792,790 2,964,014 3,202,938	88,168,609 36,374,693 33,978,129 36,618,591 37,829,778
1898	21,622,789 25,150,745 28,219,458 28,293,930 31,916,394	7,871,563 9,641,227 9,868,075 10,318,266 11,197,134	1111	29,494,352 34,791,972 38,087,533 38,612,196 43,113,528	1,513,455 1,590,448 1,683,051 1,784,834 1,892,224	3,527,810 3,193,778 3,205,535 8,441,505 3,918,416	40,555,238 46,741,249 51,029,994 52,514,701 58,050,790
1903	86,738,033 40,461,597 41,437,569 46,053,377 39,717,079	12,013,779 12,958,708 12,586,475 14,010,220 11,805,413	-	48,751,812 53,420,299 54,020,124 60,063,597 51,522,492	2,020,953 2,236,256 2,105,031 2,140,312 1,235,746	4,397,833 4,652,325 5,125,373 5,933,843 5,061,728	66,037,069 70,669,817 71,182,773 80,139,360 67,969,328
1908 1909 1910 1911 1912	57,200,276 47,088,444 59,767,681 71,838,089 85,051,872	15,782,152 14,937,768 15,253,353 16,869,837 19,261,662	-	72,982,428 62,026,212 75,021,034 88,707,926 104,313,534	1,925,569 2,256,643 2,807,465 1,668,773 1,281,317	7,107,887 7,401,624 7,958,548 9,146,952 10,492,394	96,054,506 85,093,404 101,503,711 117,780,409 136,108,217
1913 1914 1915 1916 1917	161,764,699 104,691,238 75,941,220 98,649,409 134,043,842	21,447,445 21,452,037 21,479,731 22,428,492 24,412,348	98, 057, 3, 620, 782 16, 302, 238	133,212,144 126,143,275 97,519,008 124,666,969 174,758,428	1,430,511 1,964,541 2,980,247 3,358,210 3,094,012	12,051,729 12,954,530 13,046,665 18,858,690 20,902,384	168,689,903 163,174,395 133,073,482 172,147,838 232,701,294
1918 1919 1920 1921 1922	144, 172, 630 147, 169, 188 168, 796, 823 163, 266, 804 105, 686, 645	27, 168, 445 30, 342, 034 42, 698, 083 37, 118, 367 36, 755, 207	25,379,901 56,177,508 82,079,801 168,385,327 177,484,161	196, 720, 976 233, 688, 730 293, 574, 707 368, 770, 498 319, 926, 013	4,466,724 7,421,002 17,086,981 24,815,246 21,961,513	21,345,394 21,603,542 24,471,709 26,706,198 26,402,299	260,778,953 312,946,747 349,746,335 436,292,1854 382,271,5714
1923 1924 1925 1926	118,056,469 121,500,799 108,146,871 127,355,144 141,968,678	35,761,997 38,181,747 38,603,489 42,923,549 48,513,160	181,634,875 182,036,261 147,164,158 157,296,320 156,167,434	335,453,341 341,718,807 293,914,518 327,575,013 346,649,272	16,465,303 11,916,479 11,332,328 8,535,086 8,559,401	29,016,771 28,865,374 28,782,535 30,334,575 29,069,169	403,094,210 ⁴ 406,582,840 ⁴ 351,515,392 ⁴ 382,893,009 ⁴ 400,452,480 ⁴
1928 1929 1930 1981 1932	156, 985, 818 187, 206, 332 179, 429, 920 131, 208, 955 104, 132, 677	57,400,898 63,684,954 65,035,701 57,746,808 48,654,862	150,319,087 145,029,742 134,086,005 107,320,633 122,297,494	364,705,803 395,921,028 378,551,626 296,276,396 275,085,088	10,937,822 12,227,562 13,518,205 10,421,224 9,830,125	31,562,580 30,611,964 33,845,385 30,212,326 32,234,946	429,642,577 ⁴ 460,151,481 ⁴ 445,916,992 ⁴ 356,160,876 ⁴ 336,721,305 ⁴

¹ For detailed statement see Table 8, p. 835. ² Includes various smaller items of revenue receipts.
³ Nine months. ⁴ Inclusive of special receipts of \$1,905,648 in 1921, \$319,184 in 1922, \$8,479,310 in 1923, \$4,5745,135 in 1924, \$4,680,913 in 1925, \$1,2745,503 in 1926, \$1,2756,704 in 1927, \$4,924,594 in 1928, \$4,687,607 in 1929, \$4,505,136 in 1930, \$6,573,577 in 1931 and \$7,012,249 in 1932. See Table 2, pp. 826-827.

6.—Per Capita Figures of Taxation, Total Revenue Receipts, Expenditure on Consolidated Fund Account and Total Expenditure, 1868-1832.

Now.—The years marked with an asterisk (*) are those of the censuses, April 2, 1871; April 4, 1881; April 6, 1891; April 1, 1901; June 1, 1911, 1921 and 1931. For the intercensal years the populations are estimated as at June 1 (see p. 145 for estimates of population). The fiscal period of 1907 is nine months ended Mar. 31. See the tables on pp. 829-832 for the figures of revenue and expenditure on which this table is based.

Fiscal Year.	Per Capita Rev- enue from Tax- ation.	Per Capita Total Rev- enue Re- ceipts,	Per Capita Ex- pend- iture on Con- soli- dated Fund Acct.	Per Capita Total Dis- burse- ments.	Fiscal Year.	Per Capita Rev- enue from Tax- ation.	Per Capita Total Rev- enue Re- ceipts.	Per Capita Ex- pend- iture on Con- soli- dated Fund Acct.	Per Capita Total Dis- burse- ments.
	*	\$	*	8		\$	\$	*	*
1868	3 · 33 3 · 12 3 · 61 4 · 42 4 · 72	3 · 90 4 · 03 4 · 28 5 · 24 5 · 52	3 · 84 3 · 94 3 · 96 4 · 24 4 · 69	4·18 4·97 5·23	1903 1904 1905 1906	8-63 9-17 9-00 9-69 8-31	11 · 69 12 · 13 11 · 86 12 · 93 10 · 97	9·15 9·54 10·72 10·85 8·32	10-93 12-40 13-13 13-44 10-61
1873 1874 1875 1876 1877	4 · 60 5 · 17 5 · 23 4 · 64 4 · 35	5 · 44 6 · 21 6 · 23 5 · 63 5 · 43	5·01 5·99 6·00 6·11 5·79	8·60 8·32 7·97	1908 1909 1910 1911* 1912	11-02 9-12 10-74 12-31 14-12	14.50 12.51 14.53 16.34 18.42	11.57 12.36 11.36 12.18 13.28	16-99 19-62 16-51 17-04 18-56
1878	4 · 33 4 · 41 4 · 34 5 · 54 6 · 30	5.43 5.38 5.48 6.85 7.63	5·70 5·84 5·84 5·90 6·19	7+35 8+00 7+82	1913 1914 1915 1916 1916	17 · 45 16 · 01 12 · 22 15 · 58 21 · 68	22 · 10 20 · 71 16 · 67 21 · 52 28 · 87	14 · 68 16 · 17 16 · 98 16 · 29 18 · 44	18 93 23 64 31 09 42 46 61 81
1883 1884 1885 1886 1887	6-61 5-68 5-60 5-56 6-20	8.08 7.10 7.23 7.31 7.73	6·49 6·93 7·72 8·60 7·71	19.00	1918 1919 1920 1921* 1922	24 · 14 28 · 12 34 · 31 41 · 96 35 · 87	32-00 87-65 40-88 49-64 42-86	21.88 28.00 35.51 41.09 38.97	70-77 83-87 91-87 60-11 51-97
1888	6.02 6.47 6.60 6.25 5.8 0	7·68 8·20 8·34 7·98 7·56	7-85 7-81 7-53 7-52 7-53	9·20 8·74 8·44	1923 1924 1925 1926 1927	37 · 24 37 · 38 31 · 63 34 · 66 35 · 98	44·74 44·47 87·83 40·52 41·56	36 · 88 35 · 53 34 · 32 33 · 98 33 · 17	48·26 40·53 37·78 37·59 37·21
1893 1894 1895 1896	5.52 5.55 5.46 5.58	7·74 7·31 6·76 7·22 7·39	7 · 47 7 · 58 7 · 59 7 · 52 7 · 49	8-64 8-53	1928 1929 1930 1931* 1932	37 · 09 39 · 49 37 · 09 28 · 55 26 · 18	43 · 69 45 · 89 43 · 69 34 · 32 32 · 05	34 · 19 35 · 00 35 · 06 37 · 55 35 · 78	38-51 38-78 39-01 42-41 42-92
1898	5-70 6-65 7-18 7-19 7-85	7·84 8·93 9·63 9·78 10·57	7·50 8·00 8·11 8·72 9·24	8-76 9-85 9-94 10-79 11-64					

7.—Per Capita Revenue Receipts and Expenditure, by Principal Items, 1926-32. REVENUE RECEIPTS.

Norz.—See Table 2 on pp. 826-827 for the figures on which this table is based.

Item of Receipts.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
Consolidated Fund Re- ceipts-	**************************************	3					
TAXATION—	•	•	8	\$	\$	*	•
Customs	13-48	14-74	15-96	18-67	17.59	12-65	9.92
Excise	4.54	5.04	5.84	6.35	6.87	5.56	4.63
War Tax Revenue -	• • •	0.07	0.01	4.35	0.01	3.50	
Banks	0.12	0.12	0.12	0.12	0.14	0.14	0.13
Trust and lean com-	٠ ا	* .5	• • • •	V	0.14	4.11	
	0.03	0.08	0.04	_ i	_	- 1	
panies Insurance companies	0.10	0.10	0.10	0.09	- 1	-	_
Business profits	0.12	0.07	0.10	0.05	0.01	-	-
Income tax	5.88	4.92	5.75	5.92	6.76	6.85	5-83
Sales tax, tax on cheq-						· · · · i	
ues, transportation		Į.	ļ	- 1	Į.	- 1	
tax, etc	10.39	10.96	9⋅18	8.29	6.22	8-35	5.67
Totals from Taxation	34-66	35.98	37-09	39 - 49	37-09	28 - 55	28-18
Non-Tax Revenue-		ĺ					
Interest on investments.	0.90	0.89	1.11	1.22	1-32	1-00	0.89
Post Office	3.21	3.02	3.21	3.05	3.27	2.91	3.07
Other revenue	1.52	1 · 49	1.58	1.66	1.57	1.23	1.24
Total Consolidated Fund re-							
ceipts	40-29	41.38	42.99	45-42	43 - 25	33 69	31.38
Special receipts	0.23	0-18	0.70	0-47	0.44	0-63	0.67
Grand Totals, Receipts.	40-52	41.56	43-69	45-89	43.69	34-32	32 - 05

EXPENDITURE.

Norz.—See Table 3 on pp. 827-828 for the figures on which this table is based.

Item of Expenditure.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
	\$	\$	<u>\$</u>	\$	\$	\$	\$
Agriculture	0.61	0.61	0.66	0.72	0.91	0-88	0.88
Charges on Debt	13.92	13.56	13 - 20	12.56	12.02	11-78	11.96
Civil Government	1.14	1.13	1.18	1.18	1.20	1.22	1.15
Customs and Excise	1.03	1.05	1.10	1.28	1.29	1·27 0·48	1·25 0·25
Dominion Lands	0.89	0.44	0.42	0.50	0.54		
Immigration	0.25	0.24	0.28	0.26	0.27	0.22	0.18
Indians	0.39	0.40	0.43	0.46	0.50	0-57	0.46
Legislation	0.45	0-47	0.21	0.23	0.23	0-45	0.28
National Defence (Militia,							4 40
Naval and Air Services)	1.33	1-35	1.60	1.79	1.96	2.09	1.60
Pensions	3.94	3.93	4.05	4.14	3-96	4.43	4.63
Post Office	3 · 23	3.22	3 23	3.34	3.48	3.50	3.28
Public Works, income	1.42	1 · 16	1.43	1.70	1.78	2.29	1.53
R.C.M. Police	0.22	0.22	0.23	0.26	0+28	0.28	0.31
Soldiers' Civil Re-establish-	1	1					
ment	0.82	0.72	0.71	0.79	0.83	0.94	1.06
Soldiers' Land Settlement	0 13	0.13	0.14	0.14	0.13	0.13	0.10
Subsidies to Provinces	1.31	1.30	1.27	1.25	1 22	1.68	1-30
Trade and Commerce	0.43	0.38	0.36	0-39	0.42	0-58	0.70
Other Ordinary expenditure.	2.92	2.86	3 - 69	4 - 01	4.09	4.76	4.81
Totals, Ordinary Expendi-							
ture	3 3· 9 3	33-17	34-19	35-00	35-06	37 55	35-73
Special expenditure	0.69	0.81	0.34	0.14	0.95	1.61	5.28
Capital expenditure	1.78	2.03	2.10	2.27	2.21	2.72	1.62
Other Disbursements—							
Advances to railways and	1		ا ۸۰۸	ا مما		81.0	
Merchant Marine	1.13	1.08	0.10	0.08	0.53		0.11
Miscellaneous	0.06	0 · 12	1.78	1.29	0.26	0.35	0.18
Grand Totals, Expenditure.	37-59	37-21	38-51	38.78	\$9.01	42-41	42.52

Subsection 3.—War Tax Revenue.

An account of the various war taxes imposed in 1915 and subsequently has already been given on pp. 822-825 in the introduction to this section. For convenience of reference the amounts received from these taxes since the beginning are

segregated and the totals paid in to the Receiver-General are given in Table 8. The taxes imposed on banks, trust and loan companies and insurance companies are collected by the Department of Finance. The excise war taxes, the business profits war tax and the income war tax are collected by the Department of National Revenue, formerly the Customs and Excise Department. The amounts of excise war taxes collected from different sources in the last six fiscal years are given in Table 9, while Table 10 contains the details by provinces for the latest year. The amounts collected in income war tax and business profits war tax are given by provinces for the two latest fiscal years in Table 11. (See also Tables 34 to 38 of this chapter.)

8.—War Tax Revenue Received by the Receiver-General, fiscal years ended Mar. 31, 1915-32.

Year.	Banks.	Trust and Loan Com- panies.	Insurance Com- panies,	Business Profits. ³	Income Tax.	Customs and Ervise.	Total War Tax Revenue.
1915		\$	\$	\$	\$	98,657	\$ 98,057
1916 1917 1918	1,300,447 1,114,023 1,115,758	202,415	419,699	12,506,517 21,271,084		1,536,838, 2,059,584, 2,227,390	16,302,238
1919	1,099,764 1,170,223	323,340 274,216	546,114 638,731	32,970,062 44,145,184	9,349,720 20,263,740	11,888,508 15,587,707	56,177,508 82,079,801
1921 1922 1923	1,257,534 1,293,697 1,244,437	283,994	749,959	40,841,401 22,815,667 13,031,462	46,381,824 78,684,355 59,711,538	73,656,489	168,385,327 177,484,161 181,634,875
1924 1925	1,236,957 1,217,754	308,632 315,315	857,587 867,902	4,752,681 2,704,427	54,204,028 56,248,043	120,676,376 85,810,717	182,036,261 147,164,158
1926 1927 1928	1,176,869 1,174,665 1,224,645	335,368	947,830	1,173,449 710,102 956,031		105,613,160	157,296,321 156,167,434 150,319,087
1929 1930	1,242,399 1,408,420	7,641 -6262	894,864 74,416	455,232 173,300	59,422,323 69,020,726	83,007,283 63,409,143	145,029,742 134,085,379
1931	1,429,264 1,390,121		74,250 12,152	34,430 3,000			107,320,633 122,266,964
Totals	21,096,977	3,922,018	10,648,510	198,544,029	745,118,937	1,033,518,158	2,012,847,729

Amounts paid in to Receiver-General.

 Summary of Excise War Taxes Collected by the Department of National Revenue, (formerly the Department of Customs and Excise), fiscal years ended Mar. 31, 1927-32.

(Accrued Revenue.) Item. 1927. 1928. 1929. 1930. 1931. 1932. 37,036 35,839 38,690 44,530 38,339 37,127 Licences... 8,880,517 2,874,728 4,411,086 3,867,810 5,559,844 3,609,180 1,838,232 Stamps... 2,852,913 Matches. 2,148,431 1,502,395 1,794,556 1,949,470 2,208,582 838, 286 1,025,661 268,752 742,471 291,184 398,444 332,668 $\begin{array}{c} 290,035 \\ 256,551 \end{array}$ 286,022224,860 276,528 320, 627 170, 987 6, 320, 590 328,764 211,717 217,938 Cigare..... 311,701 329,217 118,080 5,198,503 299,466 Wines.. 262,225 258,061 Ale, beer and porter..... Beverages and carbonic acid 7, 475, 125 7,953,133 6,541,366 6,297,859 27.550gas.... 2,452,780 368,238 2,534,982 2,647,801 Transportation..... 650, 172204 Embossed cheques .. 174,353 13,276 3.973 790 Embossed cheques (Departmental).. 76,521 174,957 146,783 $195,201 \\ 183,934$ 186,240 187,337 194,372 Penalties and interest.... 169,452 278,577 219,032 34,936,376 Sales, domestic..... 63,940,130 55,379,084 49, 151, 636 16,586,976 34,557,788 Domestic Totals..... 86.780,388 72,880,865 67,388,770 52, 482, 604 30,288,254 47,193,756 Importations-9,922,325 Sales ... 18,365,540 14.495.036 16,721,160 4,198,929 7,834,822 Excise 1,577,400 2,060,061 2,130,360 1,748,665 253,505 4,982,217 886,681 Special excise 1 p.c.....

There were refunds in excess of revenue of \$626 for 1930.

^{*}Although this tax was not charged upon profits accruing after Dec. 31, 1920 (see 14-15 Geo. V, c. 10), belated revenue therefrom continued to be received up till 1932.

10.—Excise War Taxes Collected by the Department of National Revenue, by Provinces, fiscal year ended Mar. 31, 1832.

(Accrued Revenue.)

						
Province.		Licences.	Stamps.	Matches.	Automo- biles.	Sales.
		\$	\$	\$	\$	\$
Prince Edward Island. Nova Scotia New Brunswick Quebec. Ontario Manitoba. Saskatchewan Alberta British Columbia. Yukon.		276 1,082 1,044 10,394 16,812 1,342 389 1,170 4,616	9,435 80,799 56,604 868,873 1,208,507 144,240 119,235 149,540 195,580 192,575		368 1,018 33,381 295,492 548 - 828 1,533	16,276 523,673 402,646 12,382,502 18,554,902 958,367 172,391 416,211 1,180,723
Departmental Sales		37,127	2,852,913		332,668	34,557,788
Province.		Playing Cards.	Cigare.	Wines.	Beer.	Embossed Cheques,
		\$		\$	\$	8
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon		- 93,528 183,000 - - - -	67 116, 993 98, 668 - 179 2, 031	248,044 161 —	355,706 163,068 359,869	36 384 47 5 34 77
Departmental Sales		276,528	217,938	258,061	6,297,859	193,789
Totals	*************	410,340	417,790	230,041	V,231,003	151,8/
D	Penalties	Domestic	Importations		i.	Grand Total.
Province.	Interest.	Total.	Sales.	Excise.	Special Excise, 1 p.c.	Total:
	\$	\$. 8	3	*	\$
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saekatchewan Alberta British Columbia Yukon Departmental Sales British Post Office Parcels	5 1,495 4,578 88,645 97,097 2,670 2,442 21,121	25, 992 739, 396 497, 952 17, 951, 083 23, 094, 161 1, 463, 080 456, 067 929, 773 1, 822, 264 213, 064	12,260 194,267 211,906 2,246,859 8,330,467 507,052 119,719 231,319 972,422 8,189	13.974 8,235 61,512 110,024 23,644 1,334 3,993 28,177 604	151,909 119,718 1,528,810 2,431,930 185,956 46,078 81,556 428,609	837,812 21,788,264 28,966,582 2,179,731
Totals	219,032	47, 193, 756	7,834,822	253,505	4,982,213	80,264,390

11.—Amounts Collected under the Income War Tax Act and the Business Profits War Tax Act, by Provinces, fiscal years ended Mar. 31, 1931 and 1932.

		1931.		1932.			
Province.	Income War Tax.	Busińess Profits War Tax.	Total.	Income War Tax.	Business Profits War Tax.	Total.	
	\$	\$	\$	\$	*	*	
Prince Edward Island	45,671	_	45,671	40,930	-	40,930	
Nova Scotia	666,009	-22	665,987	833,836	-	833,836	
New Brunswick	612,947		612,947	530,852		530,852	
Quebec. Ontario	23,087,571 34,713,871	5,497 26,655	23,093,068 34,740,526	20,671,026 30,268,306	3,000	20,674,026	
Manitoba	8,537,771	20,000	3.537,771	2,232,348		30,268,306 2,232,348	
Saskatchewan	932.954	- 1	932, 954	403,481		403.481	
Alberta	2,316,043	2,300	2,318,343	1,853,848	-	1,853,848	
British Columbia	5, 106, 454	-,027	5, 106, 454	4,403,853	- 1	4,403,853	
Yukon	19,034	-	19,034	10,360	-	10,360	
Head Office	9,697	-	9,697	5,560	-	5,560	
Totals	71,048,022	34,430	71,082,452	61,254,400	3,000	61,257,400	

Subsection 4.—Inland Revenue.

Under the Inland Revenue Act (R.S.C., 1906, c. 5), the Department of Inland Revenue had the control and management of standard weights and measures and of the collection of excise duties, of stamp duties, internal taxes, bridge and ferry tolls and rents until 1918. It administered the Statutes which dealt with the adulteration of food and other articles, electricity and gas inspection, patent medicines, petroleum, naphtha and the analysis of fertilizers and feeding stuffs. This Department also established the food standards, which were put into force by Orders in Council under the authority of section 26 of the Adulteration Act. By Order in Council dated May 18, 1918, the Department of Customs and the Department of Inland Revenue were amalgamated and combined under the name of the Department of Customs and Inland Revenue, under one Minister of the Crown. By Order in Council dated June 3, 1918, the administration of the Gas, Electric Light, and Weights and Measures Inspection Acts, the Adulteration of Food, Commercial Feeding Stuffs, Fertilizers, Proprietary and Patent Medicine, and Inspection of Water Meters Acts was transferred to the Department of Trade and Commerce, as from Sept. 1, 1918. On June 4, 1921, the Department of Customs and Inland Revenue was consolidated as the Department of Customs and Excise (11-12 George V, c. 26). As from April 1, 1927, the name of this Department, which collects the great bulk of the revenue of the Dominion, was changed to Department of National Revenue by authority of 17 Geo. V, c. 34. This Act provides for three chief departmental officers—the Commissioner of Customs, the Commissioner of Excise and the Commissioner of Income Tax, while an Assistant Commissioner of Customs may also be appointed.

In the fiscal year ended Mar. 31, 1932, the gross amount of customs duties collected by the Department was \$113,997,851, as compared with \$149,250,992 in 1931, \$199,011,628 in 1930, \$200,479,505 in 1929, \$171,872,768 in 1928 and \$158,966,367 in 1927. The total of excise duties and excise war taxes collected in the fiscal year ended Mar. 31, 1932, was \$109,586,366, as compared with \$93,986,975 in 1931, \$129,822,444 in 1930 and \$148,376,494 in 1929. The total of income tax collected in the fiscal year ended Mar. 31, 1931, was \$71,048,022, and of business profits war tax \$34,430, and in the fiscal year ended Mar. 31, 1932, the total of income tax

collected was \$61,254,400 and of business profits war tax \$3,000. While the income tax and the business profits war tax (see Table 11) are collected by the Commissioner of Income Tax, the other main branches of inland revenue—the excise duties and excise war taxes-are collected by the Commissioner of Excise.

Canadian Excise Tariff.—The following is a statement of the Canadian excise tariff, as existing at July 1, 1932:---

Tobacco, per lb

Following the Imperial Economic Conference, 1932, amendments to the Excise Act, assented to on Nov. 25, 1932, were made as follows:—

(1) The duty on domestic spirits entered for consumption was reduced from \$9, \$9.02, and \$9.03

(1) The duty on domestic spirits entered for consumption was reduced from \$9, \$9.02, and \$9.03 per proof gallon to \$7 per proof gallon.
(2) The duty on manufactured cigarettes entered for consumption was reduced from \$6 per thousand to \$4 per thousand.

When, however, any person is licensed by the Minister of National Revenue to manufacture patent and proprietary medicines, extracts, essences and pharmaceutical preparations by the use of spirits in bond, subject to the Excise Act and Regulations thereunder, the following duties of excise are collected: when made from raw grain, \$2.40 per proof gallon; when made from malted barley, \$2.42 per proof gallon; when made from imported molasses or other sweetened matter free of customs duty, \$2.43 per proof gallon. Druggists, licensed by the Minister of National Revenue to prepare prescriptions for medicines and pharmaceutical preparations, are also allowed to use limited quantities of spirits, testing not less than 50 p.c. over proof, on payment of the above lower manufacturers' rates of duty. A drawback of 99 p.c. of the duty may be granted when domestic spirits, testing not less than 50 p.c. over proof, are delivered in limited quantities to universities, scientific or research laboratories, or to hospitals for medicinal purposes only.

Revenue from Excise Duties.—The inland revenue collected from excise duties, other than war taxes, is shown by items for the last six fiscal years in Table 12. Tobacco, including cigarettes, is shown by the figures to be supplying about 71 p.c. of the revenue from excise duties.

12.—Details of Excise Duties Collected, fiscal years ended Mar. 31, 1927-32.

(Accrued revenues as shown in the Report of the Commissioner of Excise.)

Item.	1927.	1928.	1929.	1930.	1931,	1932.
		\$	\$	- *	\$	- s
Spirits	13, 904, 584 223, 833 3, 811, 557 30, 638, 418 536, 845 150 17, 350 7, 176	150	19,344,599 351,440 4,756,945 39,307,618 576,883 150 17,020 7,673	18,584,658 347,648 4,495,651 41,671,417 593,052 150 17,950 8,322	11,821,701 388,827 4,140,360 41,701,767 537,315 200 17,150 7,749	8,160,573 389,736 3,634,888 36,650,559 460,504 100 17,300 8,405
Totals	49,139,913	58,062,123	64,362,328	65,668,848	58,615,069	49,322,065

Statistics of Licences and Distillation.—As a by-product of the collection of excise duties, statistics are compiled of excise licences issued and of distillation; figures for recent years are given in Tables 13 and 14.

13.—Number of Excise Licences Issued, fiscal years ended Mar. 21, 1926-32.

Description.	1926.	1927.	1928.	1929.	1930.	1931.	1982.
	No.	No.	No.	No.	No.	No.	No.
Distillers	18 87 65 110 21	20 93 56 106 21	23 93 58 90 22	25 95 57 83 21	28 94 56 82 22	27 98 56 76 22	27 92 60 79 27
Manufacturers in Bond— Perfumes, pharmaceutical preparations, etc. Chemical stills. Wood alcohol manufacturers. Malt vinegar brewers Still manufacturers and importers. Acetic acid manufacturers Bonded warehousets. Rectifiers. Compounders. Canadian leaf stemmers.	343 156 8 3 18 2 41	345 151 6 3 24 3 42 - 3 8	346 152 6 3 26 3 62 3	330 144 6 4 24 3 51	338 135 8 4 29 3 49 6 10	337 133 6 5 26 3 48 6 9	337 141 6 5 23 - 62 62

14.—Statistics of Distillation, fiscal years ended March 31, 1927-32.

Schedule.	1927.	1928.	1929.	1930.	1931.	1 9 32.
Licences issuedNo.	5,000	23 6,125	25 6,625	7,750	6, 125	27 7,125
Grain, etc., for Distillation—Malt. lb. Indian corn " Rye. " Oats and other grain " Wheat " Rice. "	12,650,807 62,478,906 21,129,081 283,950 1,616,020	25,116,100 78,871,584 53,617,695 139,184 249,660	39,170,372 106,112,316 80,449,536 228,102 84,523	42,064,219 114,942,991 78,075,195 257,510 58,330	19,519,949 35,879,402 47,421,646 64,150	10,802,254 19,657,775 27,121,120 189,080
Totals, grain used " Molasses used " Wine and other materials lb. Proof spirits manufac-	98,158,764 68,847,431	157,994,223 49,801,495	226,044,849 78,099,601	235,398,245 61,036,607	102,885,147 70,804,701	57,770,229 71,988,200 15,917,061
tured	9,121,051 1.585	11,596,200 3,817	16,816,312	16,813,433	9,286,780	7,099,637 9,643
Value	14,272	34,422	1,178	2,813	8,677	87,061

Alcohol and Tobacco Taken out of Bond.—In Table 15 are shown the quantities of spirits, malt liquor, malt, cigars, cigarettes and tobacco taken out of bond for consumption in the fiscal years ended 1901 to 1932.

Between 1920 and 1932 the number of cigars taken out of bond fell from 270,089,761 to 152,159,301 and the quantity of tobacco, which was 23,049,012 lb. in 1920, had fallen to 20,870,651 lb. by 1925, since when there has been a steady

increase to 22,801,035 lb. in 1932. The consumption of cigarettes increased from 2,440,982,912 in 1920 to 5,082,314,590 in 1931 but declined to 4,401,628,765 in 1932.

Between 1923 and 1929 spirits taken out of bond (exclusive of imported spirits) rose from 729,678 gal. to 2,016,802 gal., but there has been a decided and steady drop since 1929 to 781,612 gal. for 1932. Malt liquor shows an increase from 36,789,195 gal. in 1923 to 65,719,129 gal. in 1929 and a corresponding decrease to 52,001,768 gal. in 1932.

15.—Quantities of Spirits, Malt Liquor, Malt and Tobacco Taken Out of Bond for Consumption, fiscal years ended June 30, 1991-6, and Mar. 31, 1907-32.

(For earlier years see 1916-17 Year	Book, n	. 528.)
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Fiscal Year.	Spirits.1	Malt Liquor.	Malt.	Cigars.	Cigarettes.	Tobacco.
	gal.	gal.	lb.	No.	No.	lb.
01	2,707,919	25,108,254	64,723,616	141,096,889	121,383,584	11,330,3
02	2,933,183	27,623,767	71,440,519	151,780,516	134,236,034	11,569,6
03	2,979,268	25, 755, 154	67,608,157	168, 290, 422	176,435,240	12,507,9
04	3,481,287	27, 335, 985	75,430,347	180,485,202	211,302,041	12,574.5
05	3,112,843	30,330,370	75,517,852	186, 110, 777	250,860,387	13,444,6
06	3,545,785	33,250,637	85,699,102	193,827,342	269,334,939	14,517,9
072	3,033,439	26,505,831	69, 176, 871	154,253,260	266,377,710	11,318,5
08	3,918,657	38,800,380	98,579,733	200,133,255	384,809,344	15,971,6
09	3,627,266	37,317,964	92,631,306	192,105,371	356,756,130	17,217.7
10	3,777,156	38,558,210	95, 166, 134	205,820,851	451,095,138	17,961,2
11	4,146,452	41,752,448	101,525,430	227,585,692	585,935,370	18,903,3
12	4,562,382	47,518,647	114,029,523	252,718,242	782,663,841	21,419,0
13	4,999,937	52,314,400	123,920,607	294,772,933	977,743,301	22,371,6
14	4,762,618	56,060,846	133,794,639	288,219,892	1,166,023,170	22,248,7
15	4,021,090	47,963,225	111,037,743	236,866,542	1,090,125,936	21, 180, 8
16	3,629,324	39,638,877	89,476,590		1,082,324,710	20,698,2
17	4,118,147	34,827,284	78,815,746		1,307,276,750	20,735,0
18	4,591,972	28,442,427	59,626,049	254,445,945	1,664,709,933	21,780,1
19	2,941,108	26,024,117	49,184,747		1,553,468,890	19,980,4
20	3,816,124	36,863,867	69,975,631		2,440,982,912	23,049,0
21	2,816,071	35,509,757	82,210,351		2,439,832,278	19,389,2
22	730,474	38,404,346	87,561,176		2,450,397,154	20,528,2
23	729,678	36,789,195	84,922,024		1.917,773,908	22,072.7
24	899,291	43,717,823	105,446,169	198,042,909	2,420,052,731	21,172,3
25	910,316	48, 106, 177	118,237,385		2,531,693,150	20,870,6
26	1,082,785	52,443,505	127,789,729		2,883,448,160	21,595.4
27.,	1,404,111	51,726,251	126,967,976		3,333,999,860	21,589,7
28	1,896,357	58,391,360	142,543,947		3,927,022,325	21,907,7
29	2,016,802	65,719,129	158,490,019		4,607,500,425	21,973,2
30	1,926,063	62,992,156	149,746,711		5,035,878,655	22, 195, 4
31	1,180,536	58,641,404	137,997,652		5,082,314,590	22,520,3
32	781,612	52,001,768	121,257,234	152,159,301	4,401,628,765	22,801,0

¹ Exclusive of imported spirits.

Subsection 5.—Provincial Subsidies.

Tables 16 and 17 show the subsidies and other payments made by the Dominion to each of the Provincial Governments for the individual fiscal years ended from 1927 to 1932 (Table 16), and the totals paid from Confederation to 1932 (Table 17). The provincial subsidies payable by the Dominion Government were originally settled by the British North America Act, 1867 (30 and 31 Vict., c. 3, s. 118), but were revised by the British North America Act, 1907 (7 Edw. VII, c. 11). Under the revised settlement each Provincial Government receives: (a) a fixed grant according to population and (b) a grant at the rate of 80 cents per head of the population as exceeds that number. The province of British Columbia received

² Nine months.

Including shuff.

an additional grant of \$100,000 per annum for a period of 10 years from 1907.1 An additional grant of \$100,000 per annum is payable to Prince Edward Island under an Act of 1912 (2 Geo. V, c. 42), and the payments to Manitoba were revised by the Extension of Boundaries (Manitoba) Act, 1912 (2 Geo. V, c. 32); in 1931 an amount of \$4,822,843 was paid as a readjustment in lieu of public lands from 1870 to 1908 as provided for in the Manitoba Natural Resources Act, 1930. Other payments to the Provincial Governments by the Dominion Government consist of special grants, such as compensation for lands, allowances for buildings, allowances in lieu of debt, etc.

Subsidies of Dominion to Provincial Governments, fiscal years ended 1927-32.

Province.	1927.	1928.	1929.	1930.	1931.	1932.
	\$	3			\$	\$
Prince Edward Island Nova Scotia New Brunswick Quebec. Ontario Manitoba Saskatchewan Alberta British Columbia	381, 932 661, 841 666, 766 2, 256, 420 2, 642, 61 1, 491, 836 2, 032, 575 1, 643, 942 738, 816	381, 9321 661, 841 686, 766 2, 256, 420 2, 642, 612 1, 491, 836 2, 032, 575 1, 643, 942 738, 816	381, 932 661, 841 666, 766 2, 256, 420 2, 642, 612 1, 500, 214 2, 047, 935 1, 657, 188 738, 817	881, 932 4 661, 841 4 666, 766 4 2, 256, 420 2, 642, 612 1, 508, 591 2, 063, 295 1, 576, 685 738, 817	381,9321 661,841 666,7661 2,256,420 2,642,612 6,478,619 1,938,295 1,670,435 738,817	381,9321 661,8411 693,0407 2,592,014 2,941,425 1,694,195 2,112,803 1,743,159 874,561
Totals	12,516,740	12,516,740	12,653,725	13,496,959	17,435,738	18,694,970

For the years 1928, 1929, 1930, 1931 and 1932, special grants, pending reconsideration of provincial subsidies, were granted to Nova Scotia, New Brunswick and Prince Edward Island as follows: Nova Scotia 4875,000, New Brunswick 4600,000, Prince Edward Island \$125,000.

24,822,843 of this amount was on account of readjustment of subsidy in lieu of Public Lands from 1870.

to 1908, as provided for in the Manitoba Natural Resources Act, 1930.

17.--Total of Subsidy Allowances from July 1, 1867 to Mar. 31, 1932.

Province.	Allowances for Govern- ment.	Allowances on basis of Population.	Special Grants.1	Interest on Debt Allowances.2	Total.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	7,150,000 6,510,000 8,800,000 9,200,000 6,355,000 5,056,667 4,776,667	5,050,917 22,500,248 17,124,926 77,982,427 96,960,968 15,617,218 13,812,672 10,760,917 11,066,546	4,352,545 826,980 9,480,000 	2,486,477 3,077,168 1,344,705 4,941,871 4,601,275 12,587,451 10,945,125 10,945,125 1,787,999	15, 409, 938 33, 554, 397 34, 459, 631 91, 724, 297 110, 762, 243 53, 328, 902 45, 345, 713 40, 451, 468 25, 704, 545
Totals	\$7,118,334	270,876,839	70,028,757	52,717,196	450,741,126

Compensation for lands and allowances for buildings. ²Allowances in lieu of debt.

Subsection 6.—National Debt.

The gross national debt of Canada on Mar. 31, 1914, was \$544,391,369, as against assets of \$208,394,519, leaving a net debt of \$335,996,850. Comparatively small as was this debt, it was a debt incurred almost altogether either for public works of general utility which, like the Intercolonial and transcontinental railways

See Canada Year Book, 1907, pp. xxxiii-iv.

and the canal system, remained assets, though perhaps not realizable assets of the nation, or was expended as subsidies to enterprises, which, like the Canadian Pacific Railway, though not government-owned, assisted greatly in extending the area of settlement as well as the productive and, therefore, the taxable capacity of the country. Broadly speaking, it was a debt incurred for productive purposes. Also, it was mainly held outside the country, the principal of the Dominion funded debt payable in London being \$302,842,485 on Mar. 31, 1914, as against only \$717,453 payable in Canada.

The great changes brought about in our national debt during the 18 years from 1914 to 1932 have been: (1) the enormous increase in net debt from \$335,996,-850 to \$2,375,846,172; (2) the gross debt, having been largely incurred for war purposes, is not represented by corresponding assets; (3) the debt is now mainly held in Canada, \$2,012,210,212 being payable in Canada at Mar. 31, 1932; (4) the average rate of interest paid on interest-bearing debt has been considerably increased.

A summary account of the loans effected between 1914 and Dec. 31, 1932, follows.

War and Renewal Loans.—The first Dominion domestic war loan was raised in November, 1915, under authority of c. 23 of the Statutes of that year (5 Geo. V, c. 23). It originally consisted of \$50,000,000 5 p.c. tax-exempt 10-year gold bonds, issued at 97½ and maturing Dec. 1, 1925. As the issue was heavily oversubscribed (public subscriptions by 24,862 subscribers \$78,729,500, bank subscriptions \$25,000,000) and the extra money was needed, the Government increased the amount of the loan to \$100,000,000. In July, 1915, \$25,000,000 of 1-year and \$20,000,000 of 2-year 5 p.c. notes had been floated in the United States, with the object of stabilizing exchange and relieving the pressure on London.

In September, 1916, the second Canadian domestic war loan of \$100,000,000 5 p.c. tax-exempt 15-year gold bonds was issued and again over-subscribed (public subscriptions by 34,526 subscribers \$151,444,800, bank subscriptions \$50,000,000). In March of that year, a loan of \$75,000,000 in 5-, 10-, and 15-year 5 p.c. bonds had been floated in New York.

The third Canadian domestic war loan, composed of \$150,000,000 5 p.c. tax-exempt 20-year gold bonds, was issued at 96 in March, 1917, and was again oversubscribed, 40,800 public subscribers applying for \$200,768,000, while the banks subscribed \$60,000,000. In August, 1917, \$100,000,000 of 5 p.c. 2-year notes were issued in New York at 98.

The fourth domestic war loan (First Victory Loan) was issued in November 1917. For the first time subscriptions as low as \$50 were received towards an issue of \$150,000,000 5½ p.c. 5-, 10-, and 20-year gold bonds, the Minister of Finance reserving the right to allot the whole or any part of the amount subscribed in excess of \$150,000,000. The subscribers numbered 820,035 and the subscriptions totalled \$398,000,000, or about \$50 per head of the then population of Canada.

The fifth domestic war loan (Second Victory Loan) of \$300,000,000 $5\frac{1}{2}$ p.c. 5- and 15-year tax-exempt gold bonds, was issued at 100 and interest as of date Nov. 1, 1918; the end of the War, then clearly in sight, stimulated subscriptions. The applications numbered 1,067,879 and subscriptions totalled \$660,000,000.

The sixth domestic war loan (Third Victory Loan) was raised at 100 and interest in November, 1919. It consisted of \$300,000,000 taxable 5-year and 15-year 5½ p.c. gold bonds. The subscriptions amounted to \$678,000,000.

A 5½ p.c. renewal loan, aggregating \$114,464,150 and due in 1927 and 1932, was floated in Canada in the autumn of 1922 to pay off the maturing 5-year Victory Loan bonds of 1917. Largely for the same purpose, a \$100,000,000 5 p.c. loan was issued in New York.

In the autumn of 1923, a refunding loan of \$20,000,000 at 5 p.c. was issued in Canada to pay off the maturing 5-year Victory Loan bonds of 1918.

Refunding operations in 1924, to retire \$107,955,650 5-year Victory bonds, issued in 1919, and to redeem treasury bills held by banks, took the form of a domestic issue of \$50,000,000 4½ p.c. 20-year bonds and \$35,000,000 4 p.c. 2-year notes, and a short term issue in the New York market of \$90,000,000 4 p.c. 1-year treasury notes. An issue of \$24,000,000 in 4 p.c. 1-, 2- and 3-year notes (\$8,000,000 of each) was also made in November, 1924.

A refunding loan of \$75,000,000 at $4\frac{1}{2}$ p.c. due 1940 was issued in Canada in September, 1925, also 4 p.c. 1-year notes amounting to \$70,000,000 in New York. Securities redeemed included £5,000,000 $4\frac{1}{2}$ p.c. bonds due in London, \$90,000,000 4 p.c. notes due in New York, also \$8,000,000 4 p.c. notes and \$42,014,500 5 p.c. bonds of the 1915 war loan due in Canada.

In 1926, refunding issues dated Feb. 1, were made as follows: In Canada, \$20,000,000 $4\frac{1}{2}$ p.c. 4-year bonds and \$45,000,000 $4\frac{1}{2}$ p.c. 20-year bonds; in New York, \$40,000,000 $4\frac{1}{2}$ p.c. 10-year bonds. Maturing securities included \$25,000,000 5 p.c. bonds due in New York April 1, and \$70,000,000 4 p.c. notes called for redemption April 1.

In 1927, \$45,000,000 of 4 p.c. treasury notes due Dec. 1, 1930, were issued in order to retire maturing 5½ p.c. obligations.

In 1930, \$45,000,000 3-year 4 p.c. treasury notes, issued on Dec. 1, 1927, matured, and were replaced by the issue of 2-year treasury notes for \$40,000,000 at 4 p.c. maturing Dec. 1, 1932, the balance of \$5,000,000 being paid from cash. These were sold at par to Canadian chartered banks. On Oct. 1, 1930, a 4 p.c. loan of \$100,000,000 maturing Oct. 1, 1960, was issued in New York. It was sold at a price of 93.646, or at a cost of 4.38 p.c. per annum. Principal and interest are payable in New York funds.

In 1931, extensive conversion and other operations in connection with the national debt were carried out as follows:

On April 1, 1931, the 5 p.c. Public Service Loan of \$25,000,000 fell due in New York and was redeemed out of the proceeds of the loan negotiated in New York in the previous October, effecting a net annual saving in interest of \$155,000.

In May, a conversion offer was made in connection with the \$1,084,823,350 of funded debt maturing between then and Nov. 1, 1934. The opening offer was to convert \$250,000,000, the Minister of Finance reserving the right to increase the amount at any time before May 23. The basis was an exchange of a bond of any of the following four maturities for new twenty-five-year $4\frac{1}{2}$ p.c. bonds, dating from

the maturity of the old bonds; the 5 p.c. bonds maturing Oct. 1, 1931, or the $5\frac{1}{4}$ p.c. bonds maturing Nov. 1, 1932, 1933 and 1934, respectively. One of the terms of the new bonds was that at any time after fifteen years the Dominion, on giving sixty days' notice, had the right to call any series for redemption. There was attached to each of the new bonds one or more talons representing the difference in interest to maturity of the former series. Tax exemption privileges limited to the maturity date of the old bonds were continued to holders of tax-exempt bonds offered for conversion. The amount was oversubscribed more than two and a half times, the conversions being: 5 p.c. War Loan maturing Oct. 1, 1931, \$38,625,700; $5\frac{1}{2}$ p.c. Renewal Loan maturing Nov. 1, 1932, \$37,523,200; $5\frac{1}{2}$ p.c. Victory Loan maturing Nov. 1, 1933, \$276,688,100; $5\frac{1}{2}$ p.c. Victory Loan maturing Nov. 1, 1934, \$285,772,300; total, \$638,609,300. The saving in interest in the fiscal year under review was \$193,128. When the full benefit of the conversion is secured, after Nov. 1, 1934, the annual saving will be \$6,192,964.

The non-converted part of the Oct. 1 maturity amounted to \$14,303,900, of which \$1,211,300 was held in sinking fund account, leaving approximately \$13,100,000 to re-finance. The necessary funds were provided through accepted tenders, at par, for \$4,500,000 from insurance companies and an arrangement with the Bank of Montreal, whereby that institution took, at par, the residue of the issue, the Government undertaking to redeem out of the proceeds of the public offering when made.

In November, a public offering of \$150,000,000 5 p.c. bonds was made. The loan was named "Dominion of Canada National Service Loan, 1931". The bonds were offered for public subscription in two maturities; one for five years, the price being 99.25; one for ten years at 99, or on a yield basis of 5.17 p.c. and 5.13 p.c. respectively. The loan was over-subscribed, the books being closed twelve days before the advertised closing date. Subscriptions totalled \$221,198,200, the division being \$79,535,200 maturing in 1936; \$141,663,000 maturing in 1941.

In 1932-33, one-year 4 p.c. treasury notes to the amount of \$60,000,000 dated Oct. 1 were sold in New York at $99\cdot28$. In Canada, \$85,000,000 of $4\frac{1}{2}$ p.c. one-year treasury notes dated Aug. 1, 1932, and \$35,000,000 of 4 p.c. 2-year treasury notes dated Nov. 1, 1932, were sold at par to the chartered banks. Further, \$25,000,000 of 3-year 4 p.c. bonds and \$56,191,000 of 20-year 4 p.c. bonds dated Oct. 15, were sold to the public, the 3-year bonds being sold at $99\cdot20$ to yield $4\cdot28$ p.c. and the 20-year bonds at $93\cdot45$ to yield $4\frac{1}{2}$ p.c.

Summary statistics of the national debt of Canada as at Confederation and at the end of each fiscal year thereafter down to 1932 are given in Table 18, while details of the active assets and of the gross liabilities as at the end of the last twelve fiscal years are given in Tables 19 and 20 respectively. Further, details of the funded debt, showing the various issues of bonds, the annual interest charge and the place at which principal and interest is payable, are given as at Mar. 31, 1932, in Table 21. From this it appears that the net total payable in London at that date was \$249,677,848 with interest charge of \$11,144,780, in New York \$240,971,700 with interest charge of \$10,843,700, and in Canada \$2,012,210,212 with interest charge of \$105,614,947. Thus more than 80 p.c. of the funded debt of the Dominion was due within the Dominion itself, and as a consequence the interest payable outside of Canada was a comparatively small item.

18.—Summary of the Public Debt of Canada and Interest Payments Thereon, July 1, 1867 to Mar. 31, 1932.

_		<u> </u>	July 1, 1847		. 61, 1062.			
Fis- cal Yr.	Gross Debt.	Total Assets.	Net Debt.	Net Debt per capita.	Increase or Decrease of Debt during the Year.	Interest Paid on Debt.	Interest Received from Active Assets.	Interest Paid per capita.
	\$	\$	\$	- \$		\$	\$	\$
1867. 1868.	93,046,052 96,896,666	17,817,410 21,139,531	75,728,642 75,757,135	21·87 21·58	28,493	4,501,568	126,420	1.28
1869.	112,361,998	36,502,679	75,859,319	21.28	102.184	4,907,014	313,021	1.38
1870.	115,993,706	37.783.964	78,209,742	21.58	2,350,423	5,047,054	383,956 554,384	1.39 1.40
1871. 1872.	115,492,683 122,400,179	37,786,165 40,213,107	77,706,518 82,187,072	21.06 21.89	-503,225 4,480,554	5,165,304 5,257,231	488.042	1.40
1873.	129,743,432	29.894.970	99.848,462	26.10	17,661,390	5,209,208	396,404	1.36
1874. 1875.	141,163,551 151,668,402	32,838,587 35,655,024	108,324,964 116,008,378	27·81 29·34	8,476,502 7,683,414	5,724,436 6,590,790	610,863 840,887	1·47 1·67
1876.	161,204,688	36,653,174	124.551.514	3t-07	8.543,136	6.400.902	798,905	1.60
1877. 1878.	174,675,835	41,440,526 34,595,199	138,285,309 140,362,070	32·78 34·07	8,683,795 7,126,761	6,797,227 7,048,884	717,684 605,774	1.67 1.71
1879.]	174,957,269 179,483,871	36 403 694	142,990,187	34 - 17	2,628,117	7.194.734	592,500	1.72
1880.	194,634,441	42.182.852	152,451,589 155,395,780	35.83	9,461,402	7,773,869	834,793	1.83
1881. 1882.	199,861,537 205,365,252	44,465,757 51,703,601	153,661,651	35·93 35·12	2,944,191 -1,734,129	7,594,145 7,740,804	751,513 914,609	1.76
1883.	202,159,104	43.692.390	158,466,714	35.77	4,805,063	7,668,552 7,700,181	1,001,193	1 · 77 1 · 73
1884. 1885.	242,482,416 264,703,607	60,320,566 68,295,915 50,005,234	182,161,850 196,407,692	40.60	23,695,136	9,419,482	986,698 1,997,936	1·72 2·08
1886.	273, 164, 341	50,005,234	223,159,107 227,314,775	43·29 48·72	14,245,842 26,751,415 ²	10,137,009 9,682,929	2,299,079	2-21
1887. 1888.	273, 187, 626 284, 513, 842	45,872,851 49,982,484	227,314,775 234,531,358	49·14 50·13	4,155,668 7,216,588	9,682,929 9,823,313	990,887 932,025	2 · 09 2 · 10
1889.	287,722,063	50, 192, 021	237,530,042	50.23	2,998,684	10, 148, 932	1,305,392	2-15
1890.	286,1(2,295	48,579,083	237,530,042 237,533,212	49.70	3,170	9,656,841	1,082,271	2.02
1891. 1892.	289,899,230 295,333,274	52,090,199 54,201,840	237,809,031 241,131,434	49·21 49·38	275,819 3,322,403	9,584,137 9,763,978	1,077,228 1,086,420	1.98 2.00
1893.	300,054,525	58,373,485	241,681,040	49-0L	549,606	9,806,888	1,150,167	1.99
1894. 1895.	308,348,023 318,048,755	62,164,994 64,973,828	246,183,029 253,074,927	49·44 50·35	4,501,989 6,891,898	10,212,596 10,466,294	1,217,809 1,336,047	2·05 2·08
1896.	325,717,537	67,220,104	258,497,433	50.95	5,422,506	10,502,430	1,370,001	2.07
1897. 1898.	332,530,131 338,375,984	70,991,535 74,419,585	261,538,596 263,956,399	51.06 51.01	3,041,163	10,645,663 10,516,758	1,443,004 1,513,455	2.08
1899.	845,160,903	78,887,456	266, 278, 447	50-86	2,417,803 2,317,048	10,855,112	1,590,448	2·03 2·07
1900.	346,206,980	80,713,173	265, 493, 807	50.08	-779,640	10,699,645	1,683,051	2.02
1901. 1902.	354,732,433 366,858,477	86,252,429 94,529,387	268,480,004 271,829,090	49.99 49.48	2,986,197 3,349,086	10,807,955 10,975,935	1,784,834 1,892,224	2·01 2·00
1903.	361,344,098	99,737,109	261,606,989	46-29	$-10.222.101^3$	11,068,139	2,020,953	1.96
1904. 1905.	364,962,512 377,678,580	104,094,793 111,454,413	260,867,719 266,224,167	44.77 44.36	-739,270+ 5 356 448	11,128,637 10,680,115	2,236,256 2,105,031	1·91 1·71
1906.	392,269,680	125,226,703 116,294,966 130,246,298	266,224,167 267,042,977	43.32	5,356,448 818,810	10,814,697	2.140.312	1.75
1907 ⁶ 1908.	879,966,826	116,294,966	263,671,860 277,960,860	41.13	-3,371,117 14,289,000 45,969,419	6,712,771 10,973,597	1,235,746 1,925,569	I-05 1-66
1909.	408, 207, 158 478, 535, 427	154,605,148	823,930,279	41.96 47.64	45,969,419	I II.604.584	1 2.256.643	1.71
1910. 1911.	470,663,046 474,941,487	134,394,500 134,899,435	336,268,546 340,042,052	48·12 47·18	12,338,267 3,773,506	13,098,161 12,535,851	2,807,465 1,668,773	1.87
1912	508.338.592	168,419,131	339,919,461	46.00	-122.591	12,259,397	1,281,317	1·74 1·66
1913.	483, 232, 555	168,930,930	314,301,625	41.18	-25,617,836	12,605,882	1,430,511	1.71
1914. 1915.	544,391,369 700,473,814	208,394,819 251,097,731	335,996,850 449,376,083	42.64 56.31	21,695,225 113,379,233	12,893,505 15,736,743	1,964,541 2,980,247	1.87 1.97
19t6.	936,987,802	321,831,631	615, 156, 171	76-88	165,780,088	21,421,585	3,358,210	2.68
	1,382,003,268 1,863,335,899	502,816,970 671,451,836	879, 186, 298 1, 191, 884, 063	99.08 146.28	264,030,127 312,697,765	35,802,567 47,845,585	3,094,012 4,466,724	4·44 5·87
1919.	2,676,635,725	1,102,104,692	1,574,531,033	189-45	382.646.970	77.431.432	7,421,002	9.32
1920. 1921.	3,041,529,587 2,902,482,117	792,660,963°	2,248,868,624 2,340,878,984	262 · 84 266 · 37	674,337,591 92,010,360	107,527,089 139,551,520	17,086,981	12.57
1921.	2,902,347,137	480,211,335	2,422,135,802	271.88	81.256.817	135, 247, 849	24,815,246 21,961,513	15.88 15.16
1923.	2,888,827,237	435,050,3685	2,422,135,802 2,453,776,869 2,417,783,275 2,417,437,686	272-31	31,641,067	137,892,735 136,237,872	16,465,363	15.30
1924. 1925.	2,818,066,523	400,629,837	2,417,437,686	264 · 41 260 · 08	-35,998,594 -345,589	136,237,872	11,916,479 11,332,328	14-90 14-50
1926.	2,768,779,184	379,048,085*	12.389.731.099	252-83	[-27,706,587	1130.691.493	8,535,086	13 83
1927. 1928.	2,726,298,717 2,677,137,243	378,464,347° 380,287,010°	2,347,834,370 2,296,850,233	243 · 68 233 · 54	-41,896,729 -50,984,137	129,675,367 128,902,945	8,559,401	13·46 13·11
1929.	2,647,033,973	421,529,268	2,225,504,705	221.91	-71,345,528 -47,740,746	1124,989,950	10,937,822 12,227,562 13,513,205	12.46
1930. 1931.	2,544,586,411 2,610,265,698	300,822,4525 348,653,7624	2,177,763,959 2,261,611,937	213·34 217·94	-47,740,746 83,847,978	121,566,213 121,289,844	13,513,205	11.91
1932.	2,831,743,568	455,897,390	2,375,846,172	226 14	114,234,236	121, 151, 106	10,421,224 9,330,125	11.69 11.53

¹ The minus sign (-) denotes a decrease.
2 This amount includes \$10,199,520, for which land was taken from the Canadian Pacific Ry. Co.
3 This amount includes \$3,305,450, caused by the settlement of accounts with Ontario and Quebec.
4 This amount takes into account \$5,397,503, allowed to Ontario and Quebec under 47 Vict., c. 6.
5 Active assets only.
5 Nine months.
7 The per capita figures are worked out on the basis of the estimates of population given on p. 145.

19.—Details of the Active Assets of the Public Debt of Canada, as at Mar. 31, 1921-32.

Item.	1921.	1922.	1923.	1924.
	•	8	\$	\$
Cash on hand and in banks. Specie reserve Advances to banks, provinces, etc. Advances to Imperial and Foreign Governments Advances to Soidier Settlement Board Miscellaneous current accounts.	83,959,873 138,705,097	85,710,325 103,591,694 162,766,689 78,293,234	4,256,042 130,150,335 75,433,038 106,540,470 83,325,152 35,345,331	43,612,756 103,427,038 92,418,747 40,071,243 86,728,789 35,568,622
Totals	561, 603, 133	490,211,336	435,650,368	491,827,195
Item.	1925.	1926.	1927.	1928.
	\$	\$	\$	\$
Cash on hand and in banks. Specie reserve. Advances to banks, provinces, etc. Advances to Imperial and Foreign Governments. Advances to Soldier Settlement Board. Miscellaneous current accounts.	123,976,668 88,922,335 36,633,691	93,678,049 36,495,929 87,536,094	100,935,933 97,452,299 85,985,138 84,149,967	
Totals	400,628,837	379,048,085	378, 464, 347	380,287,010
Item.	1929.	1930.	1931.	1932.
Cash on hand and in banks. Specie reserve. Advances to banks, provinces, etc. Advances to Imperial and Foreign Governments. Advances to Soldier Settlement Board. Miscellaneous current accounts.	60,791,334 166,080,660	65,927,474 140,578,126 30,884,720 57,086,174	81,457,889 111,454,050 30,609,720	64,660,602 173,183,733 30,494,720 47,804,080
Totals	421,529,268	366,822,452	348,653,762	455,897,391

20.—Details of the Gross Liabilities of Canada, as at Mar. 31, 1921-32.

Item.	1921.	1922.	1923.	1924.
Funded debt! payable in— London	135,874,900 277,882,885 39,160,808 90,835,000 6,311,493 17,642,642	2,002,215,601 110,934,000 241,461,426 34,666,834 144,535,000 6,533,999 18,647,974	1,937,031,954 210,933,000 242,657,765 31,791,106 95,432,000 6,454,150	1,895,088,856 210,932,000 216,625,004 34,211,540 91,520,000 6,225,878 19,327,244
Insurance and Superannuation Funds— Government Annuities. Civil Service Superannuation and Retirement Civil Service Insurance. Returned Soldiers' Insurance Miscellaneous. Totals.	4,366,993 8,767,793 1,125,400 87,979 11,973,618	10,074,917 1,442,329 384,982	12,038,063 1,816,073 969,710 9,799,684	13,994,246 2,251,592 2,061,174 8,811,339

In all cases, figures for funded debt less sinking funds are given.

20.—Details of the Gross Liabilities of Canada, as at Mar. 31, 1921-32—concluded.

= <u></u>				
Item.	1925.	1926.	1927.	1928.
	2	2	\$	1 1
Funded debt! payable in-	•	, ,	*	•
London	274,447,490	270,962,177	267.649.036	264,230,350
Canada	1.895.112.087		1.941.852.161	1,870,049,325
New York	300.874.000		225,894,000	225,879,000
Dominion notes	206,712,088	182,583,404	172,167,639	188,631,490
Savings banks	33,611,133	32,830,544	31,922,043	31,103,776
Temporary loans	28,196,769		201,000	201,000
Bank Note Circulation Redemption Fund	6,338,346		5,849,030	
Trust funds	19,307,853		18,460,169	
Province accounts	9,623,817	9,623,817	9,623,816	9,623,817
Insurance and Superannuation Funds—	i			
Government Annuities	8,469,666	10,021,706		
Civil Service Superannuation and Retirement	15,776,559	18,658,658	22,328,541	26,536,524
Civil Service Insurance	2,756,866	3,291,484		4,418,855
Returned Soldiers' Insurance	3,216,293	4,231,207		
Miscellaneous	13,623,556	10,812,743	9,975,093	10,094,539
Totals	2.818.966.523	2.768.779.185	2,726,238,717	2,677,137,243
			,,,	
*.	1929.	1930.	1931.	4000
Item.	1929.	1930.	1391.	1932.
	* *	2	2	\$
Funded debt1 payable in-	*	•	*	•
London	260,768,038	257, 185, 700	253,512,033	249.677.848
Canada	1.823.839.934	1.804.977.029		2,012,210,212
New York	220,457,800	165,965,900	265,896,300	240,971,700
Dominion notes	204,501,217	174,326,618	141,066,257	157,388,180
Savings banks	28,375,770	26,086,036	24,750,227	23,919,677
Temporary loans		-	_	15,000,000
Bank Note Circulation Redemption Fund	6,098,583	6,363,362	6,788,162	6,811,793
Trust funds	20,337,483	20,976,277	20,329,745	18,752,801
Province accounts	9,623,817	9,623,817	9,623,817	9,623,817
Insurance and Superannuation Funds—				
Government Annuities	18,369,100		23,306,955	26,582,544
Civil Service Superannuation and Retirement	31, 156, 345	36, 122, 214		46, 158, 779
Civil Service Insurance	5,058,479	5,719,709		7,053,128
Returned Soldiers' Insurance	6,866,911	7,968,686		
Miscellaneous	11,580,496	8,658,813	7,778,276	7,240,108
(Catala	0 047 493 440	0 544 500 410	9 414 00° A40	8 CO1 N40 FOR
Totals	2,41,435,778	*, 041 ,950,411	E, 518, 265, 498	A,061,743,563

In all cases, figures for funded debt less sinking funds are given.

21.—Funded Debt of the Dominion Payable in London, New York and Canada, as at Mar. 31, 1932.

Nore.-Temporary loans (see Table 20) are not now included in this table.

_	Description.		Amount,	Annual Interest Payable Thereon.	Date of Maturity,	
		PA Y	ABLE IN LONDON.	\$	\$	
4	per ce	nt loa	n of 1940-60	93,926,666	3,757,067	Oct. 1, 1960 (on or after Oct. 1,
31	"	44	of 1884,,,,	23,467,206	821,352	On giving 6 months' notice).
31 31	44 46	66 66	C.P. Ry, land grant of 1930-59	15,056,007 137,058,841	526,960 4,797,059	June f, 1934. July 1, 1938. July 1, 1950 (on or after July 1, 1930, on giving 6 months'
3 3 21 Un	" " paid	" " debeni	of 1888 of 1892 of 1894 of 1897 tures	8,071,230 18,250,000 10,950,000 4,888,186 17,236	547,500 328,500	notice). July 1, 1938. July 1, 1938. July 1, 1938. Oct. 1, 1947.
		Gro king fu	ss Totals	311,685,372 62,007,524		

21.—Funded Debt of the Dominion Payable in London, New York and Canada, as at Mar. 31, 1932—concluded.

Nove-Temporary loans (see Table 20) are not now included in this table.

Description.	Amount.	Annual Interest Payable Thereon.	Date of Maturity.
PAYABLE IN NEW YORK.	\$		
per cent bond loan, 1915–1935 " public service loan, 1916	874,000 1,000	43,700 -	Aug. 1, 1935. Overdue.
" bond loan, 1922-1952	85,000 100,000,000	5,600,000	Overdue. May 5, 1952. Subject to redemp- tion May 1, 1942 or at 60 days'
" " 1919-1929	11,700 40,000,000 100,000,000	1,800,000 4,000,000	notice thereafter. Overdue. Feb. 1, 1936. Oct. 1, 1960, or 60 days' notice after Oct. 1, 1950.
Tetals	240,971,700	10,843,700	
PAYABLE IN CANADA.	*	\$	
Provincial notes, Nova Scotia	39,180 550	-	
Unpaid warrants, Prince Edward Island Compensation to seigneurs	12,140	728	
Compensation to townships	153	8	1
Province of New Brunswick, 6 p.c. loan deben- tures	600		Overdue.
Province of Canada, 5 p.c. loan debentures	400 4,000	240	Overdue. Demand.
Dominion stock, issue A, 6 p.c. B, 34 p.c. C, 34 p.c.	16,000	560	Demand.
C, 3½ p.c	48.667 2,000	1,703	Demand. Overdue.
Debenture stock, 1919	33,298,471	1,664,674	July 1, 1934 or at 6 months'
	200		notice. Overdue.
War Savings Certificates	12 110	_	Overdue.
War Savings and Thrift Stamps	85,422	-	Overdue.
War Savings and Thrift Stamps. Dominion of Canada War Loan, 1915-25, 5 p.c. 1917-37, 5 p.c.	12,800 90,166,900	4.508.345	Overdue. Mar. 1, 1937.
Victory Loan, 1917, 51 p.c., due 1922	69,200 43,200	-	Overdue.
due 1927 due 1937	43,200 236,299,800	12.996 480	Overdue. Dec. 1, 1937.
Victory: Loan 1918 5km e due 1923	l 76, 200	-	Overdue.
* due 1933	169,971,850 39,950	9,348,452	Nov. 1, 1933. Overdue.
Victory Loan, 1919, 54 p.c., due 1934 due 1934		12,437,609	Nov. 1, 1934, or at six months'
Renewal Loan, 1922, 5½ p.c., due 1927	18,650 34,449,950	1 804 745	Overdue. Nov. 1, 1932.
Refunding Loan, 1923, 5 p.c., due 1928	12,800	_	Overdue.
Refunding Loan, 1923, 5 p.c., due 1923	147,000,100	7,350,000	Oct. 15, 1943.
Refunding Loan, 1924, 45 p.c., due 1944	50,000,000 75,000,000	3,375,000	Oct. 15, 1944. Sept. 1, 1940.
Refunding Loan, 1926, 41 p.c., due 1946	45,000,000	2,025,000	Sept. I, 1940. Feb. 1, 1946. Dec. I, 1932.
Two Year Treasury Notes, 4 p.c., due 1932	40,000,000 79,535,200	1,600,000	Dec. I, 1932. Nov. 15, 1936.
Refunding Loan, 1925, 42 p.c., due 1940. Refunding Loan, 1926, 42 p.c., due 1946. Refunding Loan, 1926, 42 p.c., due 1946. Two Year Treasury Notes, 4 p.c., due 1932. National Service Loan, 1931, 5 p.c., due 1936. National Service Loan, 1931, 5 p.c., due 1941.	141,663,000	il 7 083 150	IINov (5 1941
Conversion Loan, 1931, 43 p.c., due 1956	43, 125, 700	2,102,378	Nov. 1, 1956. Subject to redemp
Conversion Loan, 1931, 4½ p.c., due 1957	37,523,200	2,063,776	Nov. 1, 1956. Subject to redemt- tion Nov. 1, 1946, or sub- sequently at 60 days' notice. Nov. 1, 1957. Bears 5½ p.c. to
CONTOCORD AVOID 10003 12 Prof Gao 100 111111			Nov. 1, 1957. Bears 5½ p.c. to Nov. 1, 1957. Bears 5½ p.c. to demption Nov. 1, 1947, or at
C	276,688,100	I	I OD GRVA DOLICH LIJEFERIJEF.
Conversion Loan, 1931, 41 p.c., due 1958	270,000,100	10,211,61	Nov. 1, 1958. Bears 54 p.c. to Nov. 1, 1933, subject to redemption Nov. 1, 1948, or
	1	I	I at fill dave motica therealter
Conversion Loan, 1931, 44 p.c., due 1959	285,772,300	15,717,477	Nov. 1, 1959. Bears 5‡ p.c. to Nov. 1, 1954, subject to redemption Nov. 1, 1949, or at 60 days' notice thereafter.
		105 012 22	-1
Gross Totals	2,012,599,507	105,614,94	[]
Less sinking funds	389,295	<u> </u>	<u> </u>
Net Totals		44- 44- 44	.i

The Interest-Bearing Debt of Canada.—The main burden imposed upon the Canadian people by their debt is the payment of the annual interest thereupon, and this burden is increased or decreased by changes in the rate of interest paid as well as by the paying off of old debt and the contracting of new debt.

Before the Great War, interest rates were comparatively moderate, but the unprecedented expenditure of the world's capital in that gigantic struggle led, in all the participating countries, to the raising of enormous loans at comparatively high rates of interest, which in many cases still have to be paid until refunding becomes possible under the terms of the contracts made between the nations and their creditors. Thus, in Canada, the average rate of interest paid upon all the direct interest-bearing obligations of the nation, which was only 3.368 p.c. at Mar. 31, 1913, rose to 5.164 p.c. at Mar. 31, 1922, and fell gradually to 4.923 p.c. at Mar. 31, 1932. The effect of the refundings of 1931 in reducing the general rate will not be fully felt until 1935. Details of the interest-bearing debt of Canada, and the interest charges thereon, as at March 31 of the years from 1913 to 1932, are given in Table 22.

22.—The Interest-Bearing Debt, the Annual Interest Charge thereon and the Average Rate of Interest, as at Mar. 31, 1913-32.

Fis- cal 1r.	Bonds, Debentures and Treasury Bills.	Annual Interest Charges on Bonds, Debentures and Treasury Bills.	Average Interest Rate on Bonds, Deben- tures and Treasury Bills.	Savings Bank Deposits, Trust and other Funds	Annual Interest on Savings Bank Deposits and other Funds.	Total Interest- bearing Debt.!	Annual Interest Charge.	Average age Rate of Interest.
	\$	ধ	p.c.	ŝ	8	*	S	p.c.
1913, 1914, 1916, 1916, 1917, 1918, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1931, 1931, 1931,	260, 869, 037 311, 838, 272 358, 859, 935 508, 000, 366 893, 206, 877 1, 472, 208, 608 2, 035, 218, 097 2, 596, 816, 821 2, 564, 587, 671 2, 547, 105, 82 2, 503, 763, 169 2, 484, 410, 336 2, 325, 413, 986 2, 325, 413, 986 2, 325, 413, 986 2, 259, 837, 286 2, 259, 837, 286 2, 579, 238, 724	133, 482, 113 131, 476, 511 128, 571, 387 125, 928, 071 125, 108, 738 123, 399, 911 119, 479, 400 116, 848, 984 112, 942, 215 115, 491, 955	3-579 3-645 4-035 4-376 4-831 5-022 5-181 5-173	91, 735, 123 93, 031, 928 91, 910, 510 92, 240, 955 96, 885, 192 95, 796, 899 100, 038, 102 107, 038, 317 107, 345, 348 105, 379, 439 106, 783, 391 113, 943, 282 119, 205, 393 126, 310, 527 136, 485, 482 145, 780, 369 154, 997, 435 163, 994, 443 163, 356, 977	2, 904, 287; 2, 957, 544 2, 955, 981; 3, 960, 002; 3, 114, 315; 3, 996, 532; 4, 475, 480; 4, 429, 361; 4, 523, 156; 4, 758, 780; 4, 977, 889; 5, 774, 429; 5, 721, 330; 6, 572, 018; 6, 969, 151; 5, 522, 579;	494, 865, 290 450, 570, 442 690, 241, 321 990, 094, 069 1, 567, 895, 587 2, 135, 854, 199 2, 703, 855, 132 2, 668, 967, 110 2, 653, 869, 212 2, 614, 147, 586 2, 617, 706, 451 2, 618, 618, 729 2, 563, 661, 263 2, 471, 194, 355 2, 405, 834, 721 2, 484, 826, 729	11, 878, 033 14, 119, 591 16, 011, 328 23, 459, 698 42, 212, 894 47, 217, 900 105, 660, 292 138, 834, 782 136, 686, 831 130, 686, 831 130, 686, 831 130, 686, 831 122, 999, 970 119, 514, 233 122, 481, 106	3 · 487 3 · 554 4 · 263 4 · 263 4 · 734 5 · 130 5 · 164 5 · 125 4 · 992 4 · 993 4 · 996 5 · 94 4 · 967 4 · 967

¹ The total of interest-bearing debt, as here given, includes bonds purchased and held by the Treasury for sinking funds.

Guaranteed Debt of the Dominion.—Besides the direct debt of the Dominion, already dealt with, there are also large indirect obligations, arising mainly out of the taking over by the Dominion of the railway lines which now form the Canadian National Railways, and the subsequent extensions thereof. Together with these are other smaller indirect obligations, originating in the Government's guarantees of the bonds of the Canadian National Steamship services and of the bonds of its Harbour Commissions, issued in the main for harbour improvements. Statistics showing the growth of these indirect obligations in recent years are given in Table 23, while Table 24 shows the obligations as they existed on Mar. 31, 1932.

23.—Guaranteed Securities of the Dominion Government (Amount Held by the Public), as at Mar. 31, 1923-32.

Fiscal Year.	Railways, Guaranteed as to Principal and Interest.		Canadian National Steamships.	Harbour Commissions	Total.
. —	\$	3	\$	\$	\$
1923			-	_	454,085.904
1924	309,628,762		-	-1	525.835,904
1925			_	-	582, 122, 904
1926			-		580,622,904
1927	. 397,795,002		- -	4,000,000	618,002,144
1928					666,727,282
1929	472,709,509				714,208,255
1930. , ,	. 590,091,292		9,400,000	21,335,118	837,033,552
1981		216, 207, 142	9,400,000	21,835,118	954,917,112
1932	753,080,146	216, 207, 142	9,400,000	21,835,118	1,000,522,406

24.—Securities Guaranteed by the Dominion Government, as at Mar. 31, 1932.

Security.	Amount of Guarantee Authorized.	Amount Outstanding and Held by the Public as at Mar. 31, 1932.	
Railway Securities Guaranteed as to Principal and	\$	*	
Interest— 1. Canadian Northern Ry. Co., 3 p.c. deb. stock, due 1953, £1,923,287	9,359,997	9,359,997	London,
 Canadian Northern Ry. Co., 3\(\frac{1}{2}\) p.c. deb. stock, due 1958, £1,622,586-19-9 	7,896,590	7,898,563	London and Canada.
 Canadian Northern Ontario Ry. Co., 3½ p.c. deb. stock, due 1961, £7,350,000 	35,770,000	34,229,997	London and Canada.
 Canadian Northern Alberta Ry. Co., 32 p.c. deb. stock, due 1960, £647,260-5-6. 	3,150,000	3,149,998	London and Canada.
5. Grand Trunk Pacific Ry. Co., 3 p.e. bonds, due 1962, £14,000,000	68,040,000	34,992,000	London, New York and Canada.
 Canadian Northern Alberta Ry. Co., 3½ p.c. deb. stock, due 1962, £733,561-12-10. 	3,570,000	_	London and Canada.
7. Canadian Northern Ry. Co., 4 p.c. deb. stock and bonds, due 1934	45,000,000	17,060,383	London, New York and Canada.
8. Grand Trunk Pacific Ry. Co., 4 p.c. bonds due 1962, £3,280,000	15,940,800	8,440,848	London, New York and Canada.
9. Canadian Northern Ry. Co., 7 p.c. bonds, due 1940 10. Grand Trunk Ry. Co., 7 p.c. bonds, due 1940	25,000,000		New York. New York.
 Canadian Northern Ry. Co., 6½ p.c. bonds, due Grand Trunk Ry. Co., 6 p.c. bonds, due 1936. 	25,000,000 25,000,000		New York. New York.
13. Canadian National Ry. Co., 5 p.c. serial equipment bonds, 1923-38			
14. Canadian National Ry. Co., 5 p.c. bonds, due 1954 15. Canadian National Ry. Co., 44 p.c. bonds, due	50,000,000		
1954. 16. Canadian Northern Ry. Co., 41 p.c. bonds, due	26,000,000	26,000,000	New York and Canada.
1935. 17. Canadian National Ry. Co., 1927, 2 p.c. guar. deb.	1 17.000.000	17,000,000	New York and Canada.
stock, £7,176,801 18. Canadian National Ry. Co., 4½ p.c. gold bonds,	84,927,098	29,452,410	London and Canada.
due 1957 19. Canadian National Ry. Co., 4½ p.c. gold bonds,	65,000,000	65,000,000	New York and Canada.
due 1968	35,000,000	35,000,000	London, New York and Canada.
20. Canadian National Ry. Co., 5 p.c. gold bonds, due July 1, 1969	60,000,000	60,000,000	London, New York and Canada.
21. Canadian National Ry. Co., 5 p.c. gold bonds, due Oct. 1, 1969.	60,900,000	60,000,000	London, New York and Canada.

24.—Securities Guaranteed by the Dominion Government, as at Mar. 31, 1932—concluded.

Security.	Amount of Guarantee Authorized.	Amount Outstanding and Held by the Public as at Mar. 31, 1932.	
Railway Securities Guaranteed as to Principal and Interest—concluded.	\$	\$	
22. Canadian National Ry Co., 5 p.c. gold bonds, due 1970	18,000,000	18,000,000	London, New York and Canada.
23. Canadian National By. Co., 44 p.c. gold bonds, due 1955	50,000,000	50,000,000	London, New York and Canada.
24. Canadian National Ry. Co., 44 p.c. gold bonds, due 1956.	70,000,000	70,000,000	London, New York and Canada.
25. Canadian National Ry. Co., 44 p.e. gold bonds, due 1951	50,000,000	50,000,000	New York.
Totals	847, 154, 485	753,080,1461	
Railway Securities Guaranteed as to Interest only— 26. Grand Trunk Ry., Acquisition Guarantees— Grand Trunk 4 p.c. perp. guar. stock, £12,500,000 Grand Trunk 5 p.c. perp. deb. stock, £4,270,375. Great Western 5 p.c. perp. deb. stock, £2,723,080 Grand Trunk 4 p.c. perp. deb. stock, £24,224,455. Northern Ry. of Canada, 4 p.c. perp. deb. stock, £308,215.	20,782,492 13,252,323 119,839,014 1,499,980	20,782,492 13,252,323 119,839,014 1,499,980	London and Canada. London and Canada. London and Canada. London and Canada. London and Canada.
Totals	216,207,142	216, 207, 142	
Other Securities Guaranteed as to Principal and Interest— 27. Harbour Commissioners of Montreal, Montreal South Shore Bridge 5 p.c. bonds due 1969 28. Canadian National (West Indies) Steamships Ltd., 5 p.c. bonds, due 1955	19,500,000		London, New York and Canada. London, New York and
29. Saint John Harbour Commission— (a) Bonded indebtedness of the city of Saint John, assumed by the Commission	1,467,165		Canada. \$169,000 payable in Lon- don, balance in Can- ada.
(b) Debentures of the Commission issued to the city of Saint John, due 1952	667,958	1	Canada.
debentures due 1948	700,000		New York and Canada.
Totals	32,335,118	31,235,118	

Railway securities guaranteed as to principal and interest to the value of \$58,157,952 were held by the Minister of Finance as at Mar. 31, 1932, but these are not outstanding in the same sense as those in the hands of the public.

Section 2.—Provincial Public Finance.1

Provincial Governments in Canada are in the position, under Section 118 of the British North America Act, 1867 (30 and 31 Vict., c. 3), and the British North America Act, 1907 (7 Edw. VII, c. 11), of having a considerable assured income in subsidies from the Dominion Treasury. Details of these payments are given for recent years in Tables 16 and 17 of this chapter. In addition, through their

Revised by Col. J. R. Munro, Chief of the Finance Branch of the Dominion Bureau of Statistics. This Branch issues detailed statements on Provincial Finance which may be obtained from the Dominion Statistician. For a list of these publications see Chapter XXIX.

retention of ownership of their lands, minerals and other natural resources, the provinces which, by the voluntary action of their previously existing Governments entered Confederation, raise considerable revenues through land sales, sales of timber, mining royalties, leases of water powers, etc., while the Prairie Provinces formerly received from the Dominion special grants in lieu of land revenues. However, under legislation of 1930 whereby the Prairie Provinces were given control of their natural resources, all the provinces were placed on an equal footing in the administration of natural resources within their boundaries and as regards revenues accruing therefrom. Further, under Section 92 of the British North America Act, Provincial Legislatures are given authority to impose direct taxation within the province for provincial purposes and to borrow money on the sole credit of the province.

While the laisser faire school of political thought was predominant throughout the country, provincial receipts and expenditures were generally very moderate, as may be seen, both for individual provinces and for the provinces collectively, from Tables 26 and 27. From the commencement of the twentieth century, however, the Canadian public, more especially in Ontario and the West, began to demand increased services from their Governments, particularly in respect of education, sanitation, and public ownership and operation of public utilities. The performance of these functions necessitated increased revenues, which had in the main to be raised by taxation. Among the chief methods of taxation to be employed has been the taxation of corporations and estates, succession duties showing a considerably increased yield even within the comparatively short period of fifteen years from 1916 to 1931 covered by the statements compiled by the Finance Branch of the Bureau of Statistics.1 The fact that provincial government is cheaper per head in the eastern provinces is evident from Table 27, which gives the per capita ordinary revenue and expenditure for various fiscal years from 1881 to 1931. This, however, is not to be taken as evidence that the larger services rendered to the public in the provinces west of the Ottawa river, are not worth what is being paid for them.

For the half-century subsequent to Confederation, the provincial accounts, published by each Government according to its own system of accounting, were quite incomparable as among the provinces, a fact much regretted by students of provincial public finance. Upon the creation of the Dominion Bureau of Statistics in 1918, its Finance Branch undertook the work of placing the various provincial public accounts on a comparable basis, correlating, for example, the revenue derived from succession duties, taxation of corporations, sales of public lands, royalties on forest, mineral and fisheries products, as well as the expenditures on such services as agriculture, civil government, education and public works. the result of the Bureau's exhaustive analysis of the provincial public accounts, a summary statement of the ordinary receipts and expenditures of the Provincial Governments appeared for the first time in the 1919 Year Book. The various items of receipts and expenditures were classified under appropriate headings and a uniform terminology was adopted. From these statements it is possible to ascertain the amounts received and expended in each year under the respective headings for each province, as well as for the provinces collectively. The figures for the years 1916 to 1920 will be found on pp. 680-685 of the 1921 Year Book, those for 1921 on pp. 786-791 of the 1922-23 Year Book and those for 1922 to 1926 on pp. 836-841 of the 1927-28 Year Book.

¹ The succession duties collected by the provinces in 1931 amounted in the aggregate to \$18,650,659, as compared with \$1,020,972 as recently as 1904, or an increase of more than 18 fold in 27 years. The aggregate revenue raised by taxation of corporations, land, income and miscellaneous (exclusive of gasolene), increased from \$7,217.548 in 1916 to \$26,113,237 in 1931, an increase of 262 p.c. in 15 years.

The Bureau is at the present time engaged in making a more exhaustive analysis of the finances of the provinces, including extraordinary and capital as well as ordinary revenue and expenditure in the survey beginning with 1927.

Subsection 1.—Provincial Revenues and Expenditures.

Ordinary Revenues and Expenditures.—The total ordinary revenues of the nine provinces for their latest fiscal years for which final data are available ended 1931 were \$179,143,480 as compared with \$188,154,910 in 1930, \$183,598,024 in 1929, \$132,398,729 in 1925, \$92,653,023 in 1920 and \$50,015,795 in 1916. The total ordinary expenditures in 1931 were \$190,754,202 as compared with \$184,804,203 in 1930, \$177,542,192 in 1929, \$136,648,242 in 1925, \$88,250,675 in 1920 and \$53,826,219 in 1916. Thus the total ordinary revenues of the provinces show an increase of 258 p.c. in the short space of 15 years, while the total ordinary expenditures show an increase of 254 p.c. in the same period.

Considering individual provinces, the largest revenue for 1931 is that of Ontario, \$54,390,092, Quebec being next with \$41,630,620, and British Columbia third with \$23,988,199. As regards total expenditures for the same year, that of Ontario was highest, \$54,846,994, Quebec second with \$40,854,245, and British Columbia third with \$27,931,866. In 1931 British Columbia raised the largest revenue per head of population, viz., \$34.55, while Prince Edward Island had the lowest, \$13.06. (For statistics of revenue and expenditure in 1930 and 1931, see Tables 24 and 25, and for figures showing the absolute and per capita growth of ordinary revenue and expenditure see Tables 26 and 27.)

The Growth of Provincial Taxation.—Whereas in earlier years the Dominion subsidies, together with the revenues arising out of the natural resources of the provinces and from fees for specific services rendered to the citizens, nearly sufficed to cover the whole expenses of government and rendered a resort to taxation for provincial purposes practically unnecessary in most of the provinces, the great increase in the functions of government since the commencement of the present century has put an end to this state of affairs. The aggregate amount of taxation for provincial purposes in the fiscal years prior to 1916 is unfortunately not available. Since that time provincial taxation has increased, according to the analyses made in the Dominion Bureau of Statistics, from \$15,025,281 in 1916 to \$92,550,438 in 1931, exclusive of liquor traffic profits, licences, etc., an increase of over six fold in 15 years.

The increase in the use of automobiles, both for commercial purposes and pleasure, is clearly demonstrated by the growing revenues from licences and permits issued by the Provincial Governments. In 1921 the total revenue of all provinces from automobile licensing amounted to \$7,857,751. It increased to \$9,290,900 in 1922; to \$13,020,607 in 1925; to \$15,822,339 in 1927; to \$21,735,827 in 1929; decreasing to \$20,321,307 in 1930 and to \$19,952,575 in 1931.

The growth of revenue from the gasolene tax still further demonstrates the increasing use of motor vehicles. In 1923 Manitoba and Alberta were the only provinces showing a gasolene-tax revenue, the total being \$280,404. In 1924 the five provinces of Prince Edward Island, Quebec, Manitoba, Alberta and British Columbia collected gasolene-tax revenue to the amount of \$559,543, while in 1925 the same provinces with Ontario added, collected \$3,521,388. In 1926 all pro-

vinces, except Saskatchewan, collected gasolene taxes which amounted to \$6,104,716, in 1927 to \$7,615,907 and in 1928 to \$9,151,735; thereafter, gasolene taxes were collected in all provinces and amounted to \$17,237,017 in 1929, \$20,956,590 in 1930 and \$23,859,067 in 1931.

The provincial revenues from the liquor traffic have increased considerably of late years. The adoption of government control of the sale of liquor in one province after another, until now it exists in all but Prince Edward Island, where prohibition is still in force, has resulted in trading profits, licensing revenues, and permit fees, all of which have swelled the provincial revenues. Prior to the adoption of government control such revenues were not available to the provinces. In 1925 the total revenue collected by all provinces from the liquor traffic was \$8,964,824; in 1926 it was \$11,609,392, increasing to \$16,793,656 in 1927. In 1928, it amounted to \$22,755,212, in 1929 to \$27,599,687, in 1930 to \$33,248,056 and in 1931 to \$32,128,693. The method of control varies somewhat as among the provinces. In the majority of cases there are independent commissions or boards to administer the provincial Liquor Traffic Acts, but the accounting and trading profits are shown somewhat differently in the various provincial public accounts reports.

Fiscal Years of the Provinces.—The fiscal years of the provinces end as follows: P.E.I., Dec. 31; N.S., Sept. 30; N.B., Oct. 31; Que., June 30; Ont., Oct. 31; Man. and Sask., April 30; Alta. and B.C., Mar. 31.

24.—Ordinary Revenues of the Provincial Governments for their respective fiscal years ended 1930 and 1931.

A.-PRINCIPAL ITEMS OF TAXATION.

Province and Year.	Taxation of Corpor- ations, Land, etc.	Succession Sion Duties.	Motor Vehicles.	Gasolene Tax.	Amuse- ment and Race Track Meetings.
!		\$		8	\$
Prince Edward Island 1930	248, 201	25,946	145,996	141,059	7,684
1931	232,524	11,640.	136,075	J51,128	8,167
Nova Scotia	862,230	311,720:		810.508	183,12 5
1931	876,842	256,415	1,133,759	870.073	180,532
New Brunswick		198,982	874,998	650,808	110.247
1931	504,711	298,941	864,823	693,587	97,863
Quebec	4,402.551	5,294,274		3,972,039	!
1931	3,983,883	6,697.262	5,412,980	4,405,160	
Ontario	4.021.082	11,229,439	5,446,759		
1931	5,476,921	9,504,814			
Manitoba1980	2,606,009 2,098,351	1,033,564	1,1 52,45 1 1,121,049	763,834	486,933
Saskatchewan	3,048,475	452,023 468,893	2.017.630	1,184,753 981,907	352,879 44,357
1931	2,506,295	323,007	1,884,486	1,918,833	
Alberta1980	2,478,650	897.302	2,023,414	1,793,252	
1931	2,211,166	552.767	1,693,757	1,931,603	290.257
British Columbia	8.388,258	836.637	2,239,418	1,086,347	463,679
1931	8,222,544	558,790	2, 188, 975	1,753,285	418, 130
Totals, All Provinces	26,553,017	20,298,757	20,321,307	20,956,590	4,771,4681
1931	26,113,237	18, 650, 659	19,952,575	23,859,067	3,974,9001

¹ Revenues from amusement taxes and race track meetings, collected by municipalities under Public Charities Fund, not separable: Provincial Government's share is treated as extraordinary revenue in Quebec and Ontario.

¹ See the Bureau of Statistics' report "The Control and Sale of Liquor in Canada".

24.—Ordinary Revenues of Provincial Governments for their respective fiscal years ended 1934 and 1931—concluded.

B.—OTHER PRINCIPAL ORDINARY REVENUES.

Province and Year.	Subsidies and Allow- ances from Dominion Govern- ment.	Liquor Traffic Control.	Interest	Legal Fees and Court Fines.	Public Utilities and Enter- prises.	Forests, Timber and Woods.	Mines and Mining.	Total,
	\$	- \$	\$	- \$	\$	\$	\$	8
P.E.I1930				24,241			-	1,148,749
N.S1930	497,182 1,669,9581	261,558	172,499	43,342 269,810	10.436	26,379	672,057	1,149,570 7,682,066
1931			214,463		10,7246	28.046	578,977	
N.B 1930	1,266,7663			90,795	20,121	805,221	28,924	
1931				96,874	_	400,523	26,859	
Que1930		30,410,573	1.298,060	1,696,130	1,206,878	4,367,660	734,703	
. 1931			1,550,530			3,828,262	574,472	
Ont1930			1,464,125	1,703,321	1,138,5328	2.063,671	988,788	
1931		10,875,000		1,410,633	277,0482	2,779,534	766,227	
Man1930		1,511,928	1,305,940		980,730		00.400	13,922,135
1931 Sask,1930			1,684,128	450,197 1,066,545	1,028,588	90,096 4,159	38,493	13,842,511 16,561,527
1931		3,631,098 1,417,353		889.315	721,453 870,839	138.37910	26.909	
Alta 1930		2,586,435		1.044.856	5,83911	100,018	12,978	
1931		1,888,338		1.216.676	5,52911	121,639	383.240	15.710,96211
B.C1930		4.837.161	396,867	896,773	\$11,329	3,311,248	941,861	
1931		4,190,544		809,286	303,315	2,897,814	676, 262	
								
Totals, All 1930								188,154,91011
Provinces 1931	16.544.943	34,128,693	5.151.347	3,530,577	3.583.6021	10,234,295	3, 971, 433.	179,143,48411

¹ Including \$133,117 Department of National Defence Ottawa claim, subsidy previously withheld and special grant of \$175,000. ² Including special grant of \$175,000. ³ Including special grant of \$175,000. ° Including special grant of \$1,000,000 to Public Charities Fund was deducted. ⁵ No interest revenue was shown from Agricultural Development Board in 1931. ⁵ Beginning with 1930 the Nova Scotia Power Commission paid interest on its debt instead of reimbursing the Provincial Treasury. ¹ Only net revenues and expenditures for law stamps and registry offices are shown for 1931. ⁵ Beginning with 1930 the Hydro-Electric Commission paid interest on its debt instead of reimbursing the Provincial Treasury. ⁵ Interest from Temiskaming and Northern Ontario Railway not shown. ¹ Including fisheries. ¹¹ In addition the earnings of Government Telephones in Alberta were \$3,826,017 in 1930 and \$3,600,556 in 1931.

25.—Ordinary Expenditures of Provincial Governments for their respective fiscal years ended 1930 and 1931.

Province and Year.	Legis- lation.	Civil Govern- ment.	Interest.	Sinking Funds.	Public Buildings, Roads and Works.	Education	Agri- culture.	Forests, Timber and Woods.
	\$	-8	\$	\$	\$	\$	\$	\$
P.E.L1930	26,661	43,830	148,138	3	320,719	324.180	24,564	
1931	32,285	50,022	170,385	50,565	469,011	313,601	40.749	_
N.S 1930	144,742	262,485	1,957,3232	· -	2,348,241	1,088,0365	227,9175	197,793
1931	102,050	268,4813	2,083,9877		2,131.479	1,158,350 1		189,715
N. B 1930	125,821	173,6391	2,048.664	566,953	1,951,319	773,806	260,054	275,774
1931	106,657	173,407	2,310,825	650,205	1,181,902	790,7845	265 833	232, 181
Que., 1930	803.107	1,992,404	3,303,972	1,078,293	14,601,211		2,096,884	1,725,248
1931	837,087	2,242,342		1,104,277	[15,986,297		2,907,476	2,036,127
Ont . 1930	1,061,471	3.422,905	11,782,7347	60,285	8,124,358			2.024,991
1931	513,839	3,563,891	[11, 153, 838]	28, 175	8,426,785	13,323,985		1,748,957
Ман 1930	211,355	753,097	4,299,599	203,811	1,752,067	2,290,970	160,339	-
1931	222.616	861,688	4,442,508	228,276	1,944,818	2,350,387	144.338	125,175
Sask 1930	496,835	1.124.037	2,722,623	28, 151	2,832,450	3,901.258	473,056	-
1931	350,349	1.327.256	3,202,882	28,151	2,434,644	4 226 833	381,862	27,923
Alberta 1930	229.005	1.074,422	4,390,722	525,943	1,943,314	2,713,065	512,426	
1931	407,430	1,232,896	5,039,366	695,554	2,389,850	3,141,800	538,631	25,370
B. C.,1930	255,143	2,322,661		1.743,5414		4,249,418	350,400	490,246
1931	262,728	2,408,691	5,064,499	1,939,9284	3,762,917	4,318,113	357,492	1,170,740
Totals, All 1936	2 954 146	11 106 4941	95 100 9457	1 000 000	27 (61 201	39 045 544	5 FOR ASC	
Provinces 1931	0,072,110	11,100,404	99,100,449	1,470,777	37,561.724	33,245,544	5,526,928	1,714,052 5,556,188

^{&#}x27;Civil Government of certain departments is not separable. 'The Nova Scotia Power Commission paid \$603,163 intercet on funded debt in 1930 and \$649,178 in 1931. 'There was \$48,260 extraordinary sinking fund expenditures in 1930. 'Taken from 'Capital Account (Expenditure out of Income)'.
'Including Civil Government. 'Including lands, game and fish. 'In addition the Hydro-Electric Power and other Commissions in Ontario paid interest charges on their debt, which together with interest received on bond items amounted to \$8,985,784 in 1930 and \$11,644,748 in 1931.

25.—Ordinary Expenditures of Provincial Governments for their respective fiscal years ended 1930 and 1931—concluded.

Province and Year.	Legal Adminis- tration,	Mothers' Allow- ances.	Old Age Pensions	Coloni- zation.	Health and Sani- tation.	Hos- pitals.	Chari- ties.	Correctional Institutions.	Total.
	8	\$	\$	ş.	\$	8	ş	8	\$
P.E.I. 1930 1931 N. S. 1930 N.B. 1936 1931 Que. 1936 1931 Ont 1936 1931 Man 1936 1931 Sask. 1986	84,5741	333,471 - 1,368,818	2,120,638 2,248,979 610,489 708,780 532,559	25,159 19,892 16,111 11,731 531,844 538,886 213,255 135,393*	4,781 24,675 46,731 63,395 115,901 135,557 482,322 662,450 1,051,852 1,087,573 158,146 183,753 245,987	131,479 130,801 908,229 908,042 398,795 385,040 1,685,965 1,015,352 4,981,187 4,330,3374 1,125,941 1,121,229	10,990 17,612 96,475 124,554 ⁴ 4,379 5,463 27,290 ⁴ 41,999 445,496	22,643 30,288 27,197 497,825	57,989,353
1931 Alta1930 1931 B. C., 1930 1931	1,485,628 1,071,115 1,163,144 1,373,283 1,372,894	524,970 397,155 466,536 777,916 835,106	901,289 306,768 714,892 473,528 562,354	11,144° 20,066 22,440 12,524 26,468		1,545,471 1,250,830 1,292,531 2,037,588 2,047,683	205,945 187,334 191,605 291,260 305,355	48,215 117,208 125,279 115,645 105,926	18,202,677 15,402,8857 18,017,5447 25,066,980 27,931,866
Totals, 1930 All Pro- vinces 1931		3,555,422 1,129,863	1 ' '	823,241 765,954	3,332,983 2,654,737	14,039,626 12,783,486	i ' '	2,282,923 1,815,266	194,804,203 ⁷ ,8 190,754,202 ⁷ ,8

Including provincial police \$34,513. ² Only not revenues and expenditures for law stamps and registry offices are shown for 1931. ³ Net expenditure only, revenue having been deducted. ⁴ Including harvest labour. ⁵ Including Civil Government. ⁶ Quebee's charitable expenditure is, for the most part, treated as extraordinary. This is not included in the ordinary income account of the province. ⁷ In addition, the expenditures of Government Telephones in Alberta were \$3,670,827 in 1930 and \$3,744,726 in 1931. ⁸ See footnotes to other bold face totals when using these figures.

26.—Statement Showing the Ordinary Revenues and Expenditures of the Provincial Governments for their respective fiscal years ended in the census years 1871-1911 and in each year from 1916 to 1931.

Note.—For provincial ordinary receipts and expenditures in all other provincial fiscal years since Confederation, see 1932 Year Book, pp. 734-736.

Fiscal Year.	P.I	5.I.	N.	s.	N.	В.	Que	bec.	
riscai Tear.	Receipts.	Expendi- ture.	Receipts.	Expendi- ture.	Receipts.	Expendi- ture.	Receipts.	Expendi- ture.	
	\$	8	8	ŧ	\$	\$	\$	\$	
1871 1881 1891 1901 1911 1911 1918 1918 1919 1920 1922 1923 1922 1923 1924 1925 1926 1927 1928	274,047 309,445 374,798 508,455 496,053 514,475 501,915	261, 276 304, 486 315, 326 398, 490 453, 151; 487, 151; 484, 416 655, 409 660, 774 694, 042 687, 241 790, 046 715, 882 745, 338 756, 114 870, 427	476, 445 661, 541 1, 090, 230 1, 625, 653 2, 165, 338 2, 118, 620 2, 332, 634 3, 280, 313 3, 801, 016 4, 586, 840 4, 791, 208 5, 317, 335	494,582 692,538 1,088,927 1,790,778 2,152,773 2,344,009 2,573,797 3,280,283 4,678,146 4,791,998 4,791,998 5,579,525 5,969,544 6,327,043 6,566,143 6,566,143	607,445 612,762 1,031,267 1,347,077 1,580,419 1,572,814 2,357,909 2,182,420	598, 844 598, 813 910, 346 1, 403, 547 1, 568, 340 2, 166, 904 2, 399, 062 2, 595, 937 3, 432, 512 2, 985, 877 3, 835, 522 4, 112, 569 4, 078, 775 4, 636, 157 5, 393, 784 6, 521, 578	3,191,779 8,457,144 4,563,432 7,032,745	4,516,55-6,424,900 9,436,68° 9,907,67′ 11,67′ 1,83′ 12,37′ 1,13′ 13,520,74′ 14,624,08° 14,624,08° 12,567,29′ 22,6401,45′ 29,078,70′ 39,78′ 20,38′ 29,38′ 35′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 964,48′ 38′ 967,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 964,48′ 9	

Includes expenditure on capital account, except for 1901.

26.—Statement Showing the Ordinary Revenues and Expenditures of the Provincial Governments for their respective fiscal years ended in the census years 1871-1911 and in each year from 1916 to 1931.—continued.

Note.—For provincial ordinary receipts and expenditures in all other provincial fiscal years since Confederation, see 1932 Year Book, pp. 784-736.

	Ont	ario,	Man	toba.	Saskatchewan.		
Fiscal Year.	Receipts.	Receipts. Expenditure.		Expenditure.	Receipts.	Expenditure.	
	\$	\$	\$	*		\$	
1871 1881 1891 1901 1916 1916 1917 1918 1919 1920 1922 1922 1923 1924 1925 1926 1927	2, 333, 180 2, 788, 747 4, 138, 789 4, 466, 044 9, 370, 834 18, 269, 597 19, 270, 122 20, 692, 168 25, 981, 517 30, 411, 396 39, 725, 370 34, 818, 729 41, 721, 961 48, 013, 852 52, 039, 855 56, 366, 225	1,816,784 2,592,800 4,158,460 4,038,834 9,916,934 12,776,333 16,518,223 17,460,404 21,464,575 25,880,843 28,579,688 37,458,3953 49,305,438 49,305,438 49,305,438 51,452,178 55,783,689	121, 867 590, 484 1, 008, 653 4, 454, 190 5, 897, 807 6, 292, 986 6, 723, 013 8, 613, 364 9, 870, 710 9, 358, 956 7, 940, 457 10, 078, 730 10, 926, 634 7, 866, 519* 1, 582, 537 11, 592, 758	226, 808 664, 432 988, 251 4, 002, 826 6, 147, 780 6, 860, 355 7, 307, 727 8, 497, 942 10, 602, 955 10, 063, 139 8, 381, 667 10, 616, 567 10, 455, 187 6, 824, 1555 10, 431, 652 10, 446, 285	2,699,603 4,801,064 5,631,910 7,797,153 8,333,759 9,903,885 11,789,920 11,801,894 12,576,763 12,520,411 12,378,755 13,317,398 13,050,217	2, 575, 145 5, 258, 756 5, 553, 965 8, 23, 596 8, 125, 203 8, 707, 833 12, 151, 665 13, 322, 120 12, 886, 544 12, 449, 150 12, 498, 933 3, 212, 433 12, 126, 2217	
1928 1928 1929 1930	58,426,983 64,549,718 57,343,291 54,390,092	55,763,659 58,198,746 61,906,824 57,989,353 54,846,994	11.592,758 10,962,317 12,150,490 13.922,135 13,842,511	10,446,286 11,103,169 12,344,493 13,637,397 14,491,673	13,050,217 13,564,893 16,096,666 16,561,5274 14,346,010	12,962,21 13,449,63 15,971,23 17,079,46 18,202,67	

¹ Includes capital revenue for lands which cannot be separated. ² Includes capital expenditure which cannot be separated. ³ For eight months. ⁴Certain minor items, amounting to about \$600,000, shown in previous years as ordinary receipts and expenditures have been transferred to the extraordinary classification in the 1930 provincial accounts report.

26.—Statement Showing the Ordinary Revenues and Expenditures of the Provincial Governments for their respective fiscal years ended in the census years 1871-1911 and in each year from 1916 to 1931—concluded.

	Alb	erta.	British (Columbia.	Totals for all Provinces.		
Fiscal Year.	Receipts.	Expenditure.	Receipts.	Expenditure.	Receipts.	Expenditure.	
	\$	\$	\$	s	8	\$	
1871	3,309,156 ¹ 5,281,695 6,260,106 7,260,762 9,642,739 10,919,739 11,086,937 9,324,890 10,419,146 10,506,627 11,531,026 11,912,128 12,263,401 16,149,896* 15,285,084 15,829,865	3,437,083 6,918,894 6,752,504 8,808,808 9,525,749 10,423,356 13,109,304 11,235,192 10,990,830 11,174,690 11,249,323 12,479,381 15,870,133* 13,686,261 15,402,885 18,017,544	191, 820- 397, 035 959, 248 1, 605, 920 10, 492, 892 6, 291, 694 6, 906, 784 8, 882, 845 10, 931, 279 13, 861, 603 15, 219, 264 16, 987, 869 18, 758, 864 19, 124, 680 18, 823, 358 20, 608, 672 20, 257, 916 20, 939, 123 21, 094, 427 25, 498, 409	97, 692- 378, 779 1, 032, 104 2, 287, 821 8, 194, 903 10, 983, 505 9, 531, 740 9, 023, 269 9, 887, 745 11, 568, 903 15, 236, 931 17, 436, 487 19, 273, 942- 20, 515, 367- 20, 156, 702- 19, 829, 522- 19, 408, 8811 20, 215, 555- 22, 825, 520- 25, 966, 980- 27, 931, 866-	5,518,9463 7,858,6983 10,693,8153 14,074,9913 40,706,9483 50,015,7953 57,989,9843 69,344,3073 92,653,023 116,156,6993 116,156,6993 117,738,2443 127,896,0473 132,338,7293 146,450,9043 156,845,7896 188,199,5053 183,598,0247	4, 935, 008* 8, 119, 7013* 11, 628, 353* 14, 146, 059* 38, 144, 511* 60, 122, 485* 66, 052, 909* 76, 403, 973* 88, 250, 675* 112, 874, 954* 132, 671, 095* 133, 158, 183* 136, 648, 242* 144, 183, 127* 152, 211, 883* 165, 538, 910* 177, 542, 192* 184, 804, 203*	

¹ Includes small sums of capital revenue and expenditure which cannot be separated. ¹ Includes sinking funds taken from capital expenditure (expenditure out of income). ³ See footnotes to figures for individual provinces when using these figures. ⁴ Six months. ⁵ Fifteen months ended Mar. 31, 1928.

27.—Ordinary Receipts and Expenditures of Provincial Governments per head of Population for their respective fiscal years ended in the census years 1871-1911 and in each year from 1916 to 1931.

Note.—As this table is based upon Table 26, those using it should refer to that table for totals and for explanatory notes. Per capita figures are calculated on the basis of the population figures given on p. 145.

(A) ORDINARY RECEIPTS.

Fiscal Year.	Prince Edward Island.	Nova Scotia.	New Bruns- wick,	Quebec.	Ontario.	Mani- toba.	Saskat- chewan.	Alberta.	British Colum- bia.	Average for All Pro- vinces.				
	\$	ŧ	8	\$	\$	\$	\$	ŧ		8				
!871	4·10 2·53 2·51	1·36 1·10 1·49	1 · 58 1 · 90 1 · 91	1·37 2·35 2·32	1·44 1·45 1·96	1·97 3·86	- - -	- -	5-31 8-10 9-79	1·50 1·82 2·21				
1901 1911 1916	3·00 3·99 5·53	2·37 3·30 4·29	3 · 12 3 · 83 4 · 29	2·77 3·51 4·48	2·05 3·71 5·10	3·96 9·66 10·65	5·49 7·41	8·85 10·65	8·97 26·70 13·80	2 · 62 5 · 65 6 · 25				
1917	5.51	4 · 21	4+27	4 · 81	6·71	11·28	8·51	12·32	14 · 88	7 · 19				
1918	5.78	4 · 65	6+39	6 · 30	7·02	11·90	11·50	14·67	18 · 74	8 · 51				
1919	5.64	6 · 47	5-85	5 · 67	7·42	14·93	11·91	17·82	22 · 40	9 · 25				
1920	8-33	7·37	8·14	6·80	9·07	16·62	13·59	19·33	27·84	10·83				
1921	8-65	8·75	7·46	6·74	10·37	15·34	15·57	18·85	28·99	11·61				
1922	8-41	9·18	8·29	9·00	13·33	12·89	15·35	15·75	31·40	13·02				
1923	6-37	10-27	8·95	8-84	11 · 56	16·28	16·17	17.57	33·80	13 · 07				
1924	8-59	10-58	9·53	9-29	13 · 64	17·48	15·83	17.60	33·49	13 · 99				
1925	8-61	8-67	9·05	9-82	15 · 43	12·45	15·36	19.15	32·01	14 · 25				
1926	9-57	11 · 15	10-62	10 · 45	16·45	16·56	16·22	19·59	34·01	15.50				
	9-62	12 · 65	12-81	11 · 64	17·49	17·81	15·52	19·37	32·52	16.28				
	11-76	13 · 46	13-19	12 · 82	17·82	16·51	15·74	24·54	32·67	17.09				
1929	12-31	14-35	14 · 83	14·42	19·86	17.95	18 · 23	22·32	82·01	18-31				
1930	13-05	14-95	16 · 22	14·43	16·94	20.21	18 · 34	22·36	37·72	18-43				
1931	13-06	15-80	14 · 66	14·48	15·85	19.77	15 · 56	21·46	34·56	17-27				

(B) ORDINARY EXPENDITURES.

1871 1881 1891	4·32 2·40 2·79	I · 55 I · 12 I · 54	1·53 1·87 2·12	1-32 4-47 2-75	1·12 1·35 1·97	3·66 4·34	-	- -	2·69 7·7t 10· 5 3	1·34 1·89 2·41
1901 1911 1916	3·06 4·24 4·93	2·37 3·64 4·26	2 · 75 3 · 99 4 · 26	2·74 3·20 4·38	1·85 3·92 4·68	3.88 8.68 11.10	5·23 8·12	9·19 12·13	12·78 20·85 22·11	2·63 5·29 6·73
1917	5·41	4 · 66	5·89	4·57	6-06	12·29	8-39	13 · 29	20·54	7-46
1918	5·44	5 · 13	6·50	5·33	6-36	12·93	10-07	15 · 91	19·04	8-11
1919	7·36	6 · 47	6·96	5·54	7-70	14·73	11-61	17 · 61	20·26	9-19
1920	7·42	7.59	7·79	5+88	9·04	17-85	11-94	18-45	22 · 82	10·31
1921	7·80	8.93	8·85	6-19	9·74	16-50	16-05	22-29	29 · 02	11·67
1922	7·72	9.18	7·68	6-88	12·57	13-61	17-32	18-98	32 · 23	12·66
1923	9·08	10.09	9.38	8·15	16-36	17·15	16-56	18-53	34·73	14·72
1924	8·32	10.81	9.81	8·64	15-97	16·73	15-74	18-72	35·93	14·78
1925	8·67	11.59	10.46	9·27	16-54	10·80	15-51	18-69	34·29	14·70
1926	8·69	12·29	10-30	10·14	16·20	16.32	16·09	19.56	32·72	15 · 26
1927	10·00	12·75	11-65	10·94	17·32	16.05	15·41	19.71	31·15	15 · 80
1928	10·72	14·65	13-45	12·09	17·75	16.72	15·60	24.12	31·54	16 · 83
1929	11 · 74	14 · 15	16·14	13 · 00	18 · 57	18·23	18 · 09	20-01	34 · 64	17·70
1930	12 · 88	15 · 37	17·78	13 · 94	17 · 13	19·79	18 · 91	21-75	37 · 08	18·10
1931	16 · 51	15 · 97	16·57	14 · 22	15 · 98	20·70	19 · 74	24-61	40 · 25	18·38

Subsection 2.—Provincial Debts and Assets.

Total Liabilities of the Provinces.—The total direct liabilities of the provinces in 1931 amounted to \$1,276,629,288, showing a steady and rapid increase since 1896, when they were but \$51,315,130. In addition to the direct liabilities, there are also certain indirect liabilities which amounted in 1931 to \$210,668,231, so that the total liabilities of the provinces reached \$1,487,297,519 in that year. Figures are given by provinces for the fiscal years 1896, 1911 and 1916-32 in Table 28.

Bonded Indebtedness of the Provinces.—Of the total liabilities of the provinces the major part is represented by bonded debt owing to the public in Canada and abroad. The total bonded debt amounted to \$1,148,451,597 in 1932. In addition to this bonded debt there were treasury bills outstanding on provincial accounts amounting to \$103,707,602 for 1931. Figures of bonded debt for this and previous years to 1916 are given in Table 29. The rapid rise in the bonded debt of the provinces in the period under review is accounted for largely by the development of public ownership of utilities (such as the "Hydro" in Ontario), the extension of the highways and good roads systems in all provinces (highway debentures outstanding in 1931 accounting for almost \$375,000,000 of the provincial debt), the cultural training advances and requirements for the promotion of industrial activities and public and social welfare. These demanded heavy expenditures which could not easily be met out of current revenue, and the borrowings, while increasing the public debt, are in the main considered justifiable, as the public utilities are meeting from their revenues the interest on indebtedness incurred in their construction, and the provincial assets generally are sound enough to take care of capital investment for other services which are necessary to develop the country.

Interest Payments of the Provinces.—The interest payments of the Provincial Governments have naturally increased in proportion to their growing indebtedness described above. In 1916, the first year for which aggregate figures are available on a comparable basis, the total interest payments of the provinces were \$7,817,844, in 1921 they had risen to \$19,818,266, in 1926 they were \$37,366,925, in 1929 \$41,207,090, but in 1931 they were reduced to \$36,748,366 exclusive of interest paid by the N.S. Power Commission and the Ontario Hydro-Electric Power and other Commissions. The 1931 interest payments of the Provincial Governments were as follows: P.E.I., \$170,385; N.S. \$2,083,937; N.B., \$2,310,825; Que., \$3,280,626; Ont., \$11,153,338; Man., \$4,442,508; Sask., \$3,202,882; Alta., \$5,039,366; B.C., \$5,064,499.

The Nova Scotia Power Commission paid \$649,179 interest on funded debt.

^{*}In addition the Hydro-Electric Power and other Commissions paid interest charges on their debt which, together with interest received on bond issues, amounted to \$11,644,748.

28.—Direct Liabilities of the Provincial Governments, by Provinces, for their respective fiscal years, 1896, 1911, 1916-32.

New Brunswick. 2, 962, 892 6, 869, 104 9, 288, 231 19, 132, 607 20, 481, 800 23, 966, 816 26, 670, 764 30, 134, 573 31, 929, 157 34, 794, 329 36, 963, 264 41, 193, 074 43, 260, 146 46, 784, 509 54, 144, 053 53, 063, 683 56, 26, 534, 333 67, 942, 964 59, 901, 754	\$ 32, 207, 058 26, 170, 982 41, 090, 736 42, 259, 990 42, 891, 544 43, 965, 512 48, 756, 764 58, 336, 436 62, 115, 061 69, 861, 633 92, 822, 593 98, 856, 760 102, 333, 651 100, 310, 582 100, 761, 321 101, 144, 764 97, 856, 855 113, 006, 985 108, 188, 709	33,644 24,765,923 58,873,101 61,795,108 75,645,917 97,572,781 128,191,754 204,959,690 240,923,995 303,391,292 348,722,948 345,207,247 366,629,582 371,422,300 396,364,589 429,289,134 476,178,248 524,347,165
2, 962, 892 6, 869, 1041 9, 288, 231 19, 132, 607 20, 481, 800 23, 966, 816 26, 670, 764 30, 134, 573 31, 929, 157 34, 794, 329 36, 963, 264 41, 193, 074 43, 260, 144, 053 53, 063, 658 62, 534, 333 67, 942, 954	32, 207, 068 26, 170, 982 41, 090, 736 42, 259, 090 42, 891, 544 43, 965, 512 48, 766, 764 58, 336, 436 62, 115, 061 69, 661, 633 92, 822, 593 98, 856, 760 102, 333, 650 100, 336, 582 100, 761, 321	33,644 24,765,923 58,873,101 61,795,108 75,645,917 97,572,781 128,191,76 204,959,680 240,923,995 303,391,292 348,722,948 345,207,247 366,629,523,303
19,132,607 20,481,800 23,966,816 26,670,764 30,134,573 31,929,157 34,794,329 36,963,264 41,193,074 46,784,509 54,144,053 53,063,658 62,534,333 67,942,954	41,090,736 42,259,990 42,891,544 43,985,512 48,756,764 58,336,436 62,115,061 69,661,633 92,822,593 98,856,760 102,333,651 100,310,582 109,761,321 101,144,764 97,856,835 113,006,985	58, 873, 101 61, 795, 108 75, 645, 917 97, 572, 781 128, 191, 754 204, 959, 600 240, 923, 995 303, 391, 292 348, 722, 948 345, 207, 247 366, 629, 582 371, 422, 300 396, 364, 569
23, 966, 816 26, 670, 764 30, 134, 573 31, 929, 157 34, 794, 329 36, 963, 264 41, 193, 074 46, 754, 509 54, 144, 053 53, 063, 658 62, 534, 333 67, 942, 954	42, 891, 544 43, 965, 512 48, 756, 764 58, 336, 436 62, 115, 061 69, 661, 633 92, 822, 593 98, 856, 760 100, 331, 582 100, 761, 321 101, 144, 764 97, 856, 855 113, 006, 985	75, 645, 917 97, 572, 781 128, 191, 754 204, 959, 690 240, 923, 995 303, 391, 292 348, 722, 948 345, 207, 247 366, 629, 582 371, 422, 300 396, 364, 569
31, 929, 157 34, 794, 329 36, 963, 264 41, 193, 074 43, 260, 146 40, 754, 509 54, 144, 053 53, 063, 658 62, 534, 333 67, 942, 954	62,115,061 69,661,633 92,822,593 98,856,760 102,333,651 100,310,582 109,761,321 101,144,764 97,856,835 113,006,985	204, 959, 690 240, 923, 995 303, 391, 292 348, 722, 948 345, 207, 247 366, 629, 582 371, 422, 306 396, 364, 565
41,193,074 43,260,146 46,754,509 54,144,053 53,063,658 62,534,333 67,942,954	102,333,651 100,316,582 100,761,321 101,144,764 97,856,855 113,006,985	366,629,582 371,422,306 396,364,569
54,144,053 53,063,658 62,534,333 67,942,954	109, 761, 321 101, 144, 764 97, 856, 855 113, 006, 985	371,422,300 396,364,569
62,534,333 67,942,954	97,856,855 113,006,985	429, 289, 134 476, 178, 249 524, 347, 168 577, 705, 000
I		
Alberta.	British Columbia.	Total,
\$	\$	\$
9,293,533 29,011,903	6,469,768 12,053,227 29,011,991	51,315,130 138,662,442 240,162,026
31,382,873 33,094,583 35,674,160	32,903,017 32,922,713 37,460,872	
44,587,763 68,438,866 76,377,599	43,693,365 60,600,198 71,707,420	409,756,192 565,470,552 640,464,165
84,010,266 90,901,271 95,670,360	79,266,936 85,094,660 91,640,679	739,680,608 832,013,500 857,257,860
I	89,392,147 91,687,100 97,590,159	893,499,812 915,206,840 963,188,740
110,342,8694		1,034,071,264
)7 55 15	76,377,599 55 84,010,266 75 90,901,271 15 95,670,360 04 103,007,997 10,342,869 110,342,869	55 84,010,266 79,266,936 75 90,901,271 85,004,660 15 95,670,660 91,640,679 10 103,007,997 89,392,147 12 110,342,8694 91,687,100

¹ Including indirect liabilities. ² Province not organized. ³ Not available. ⁴ Liabilities as at Mar. 31, 1928. No balance sheet was shown in the interim report for the year ended Dec. 31, 1927. ⁵ Subject to revision.

23.—Bonded Debt (Exclusive of Treasury Bills) of Provincial Governments, by Provinces, fiscal years 1916 to 1932.

Fiscal Year.	Prince Edward Island.	Nova Scotia.	New Brunswick.	Quebec.	Ontario.
····	\$	\$	\$	\$. 8
1916 1917 1918 1919 1919 1920 1921 1922 1924 1925 1927 1926 1927 1928 1929 1930 1931 1931	733, 009 733, 000 733, 000 733, 000 733, 000 1, 033, 000 1, 1, 033, 000 1, 183, 000 1, 833, 000 1, 833, 000 1, 833, 000 2, 184, 000 2, 199, 000 2, 109, 000 2, 104, 000 3, 504, 000	13, 443, 087, 13, 362, 707, 14, 490, 813, 14, 614, 898, 17, 202, 647, 22, 134, 507, 24, 134, 507, 31, 458, 640, 36, 000, 928, 324, 40, 708, 457, 34, 824, 713, 46, 395, 847, 55, 453, 480, 60, 323, 613, 61, 740, 747	9, 100, 647 16, 809, 856 17, 163, 089 18, 585, 780 20, 623, 236 22, 573, 432 28, 583, 932 28, 583, 932 30, 737, 909 31, 345, 909 36, 554, 409 37, 945, 309 34, 780, 603 41, 211, 196 45, 838, 996 58, 739, 662	38, 346, 128 39, 462, 996 39, 527, 770 39, 706, 614 40, 708, 114 51, 662, 113 55, 604, 926 60, 605, 226 81, 944, 936 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 78, 004, 926 90, 731, 877	52, 411, 401 55, 301, 501 66, 556, 501 81, 026, 501 109, 186, 693, 420 222, 361, 338 255, 587, 757 292, 845, 257 277, 045, 257 280, 556, 004 293, 366, 844 350, 563, 844 350, 563, 844 495, 375, 344 499, 986, 000
Fiscal Year.	Manitoba.	Saskat- chewaл.	Alberta.	British Columbia.	Total,
	\$	\$	\$	\$	\$
1916 1917 1918 1919 1919 1920 1921 1922 1922 1924 1925 1926 1927 1928 1929 1930 1930 1930	30, 396, 274 31, 196, 870, 33, 880, 870, 36, 897, 870, 49, 700, 870, 66, 331, 121, 67, 914, 095, 69, 637, 095, 66, 658, 595, 64, 433, 595, 67, 293, 828, 69, 822, 828, 71, 465, 161, 76, 641, 161, 76, 641, 161, 81, 381, 906, 89, 630, 906	24, 292, 044 25, 439, 187 28, 019, 387 29, 963, 410 35, 237, 170 41, 785, 436 49, 855, 476 52, 807, 876 52, 492, 956 50, 493, 376 54, 114, 176 56, 394, 576 58, 275, 776 73, 667, 316 85, 141, 205 101, 831, 236	29,000,200 30,595,200 31,500,200 34,635,200 41,989,900 59,010,257 67,373,279 78,522,279 78,594,760 81,459,407 86,894,666 90,890,458 90,899,816 96,532,443 106,888,380 106,866,573 128,970,593	21, 153, 146 23, 153, 146 24, 071, 936 27, 571, 986 34, 071, 936 46, 511, 436 65, 861, 436 68, 851, 436 71, 435, 736 72, 275, 736 77, 482, 736 87, 385, 236 112, 060, 761	

¹ Liabilities statement is for April 30; this amount includes \$500,000 due May 1. 2 Subject to revision.

Assets of the Provincial Governments.—The liabilities of the Provincial Governments are to a considerable extent offset by corresponding assets, some of which are earning assets as in the case of the Nova Scotia Power Commission, the Ontario Hydro-Electric Power Commission and the Temiskaming and Northern Ontario Railway and the telephone systems of the Prairie Provinces. Further, a total of something like \$375,000,000 has been invested by the various Provincial Governments in highway systems, and while these systems cannot be considered as realizable assets, the interest charge on them may be considered as being met out of the large revenues derived from the gasolene tax and other taxation on motor vehicles. Back of all this is the value of the natural resources which, although not realizable in times like the present, may through their development assist in wiping off the obligations which mature in the years to come. A summary of provincial assets is presented in Table 30.

34.-Assets of the Provincial Governments at the close of

Norg.-Subject to revision. The items are stated

١.	Item.	Prince Edward Island.	Nova Scotia.	New Brunswick.
		1932.	1981.	1932.
	Accounts receivable and inventories	\$	\$ 2,568,645	\$ 1,730,45
	Arrears of taxes. Zash, balances or in banks. Deferred charges.		224,790 870,034	512,30
; '	Deposite — Trust accounts Dominion Government—			
	Annual subsidy Common school fund Grant for Government B.N.A. Act	ļ	-	
	Grant per capita. Provincial debt account. Land account	775, 792 117, 597	1,055,430	529,3
	Other School Land Trust Fund Orainage, irrigation and judicial districts.	-		
	nvestments— Debentures Parm Loss Board	i		, , , ,
	Railway Rural credit Joans Sinking funds Other investments	614,643	4,447,000 3,741,377	1,246,4 6,632,4
,	Secured accounts	-	254, 111	-
	Crown lands, amounts outstanding and interest Farm Settlement Board, land. Lands, former Indian reservations Other lands, including Soldiers' Land Act, Railway;		=	1,161,
,	subsidy, land repurchased and Fairview works. Loans and advances— Advances, educational purposes.			
	Advances, trust accounts, etc	j		
	Co-operative creameries. Co-operative elevator companies. Loans to banks. Other advances.	ļ	101.916	
	Other loans Power Commission temporary loan Railways		14,000 13,108,115	
	Seed grain advances Housing Act— Advances to municipalities.	34,000	960,352	811.
	Cash in banks and bonds Farm loans and Co-operative Wheat Producers Wheat Pool	-	16,648 -	113.
]1	Liquor Commission assets. Juent of the Commission of Covernment Commission Government.			
	Relief account, accounts receivable Municipal share direct relief To be paid from revenue, ten instalments	1		
]	Relief to municipalities Patriotic purposes, expenditure for Revenue earned but uncollected. Crust funds, cash for railway bond holders.			,
ין	Julities under provincial ownership—	ĺ		575,
: 1	Hydro-electric power Telephones Other principal assets.		57,585 703,832	6,258, 50,0
	Totals, Principal Assets	1,542,032	28, 123, 835	19,621,0
1	Miscellancous Assets ¹ ,		35,824,630	49,102,8

The main items of "miscellaneous assets" are "roads and bridges" and "Provincial Government buildings, sites and works" but included under this head are such minor assets as demonstration farms,

their respective fiscal years ended 1932, or their latest fiscal years.

as recorded in the Provincial Public Accounts.

	691,250,000	15,501,322 s		32,837,560	·	
74,237,413	247, 436, 596	47,535,950	54,282,405	85,443,817	\$4,006,613	
69,973,251	362,291,131	90,737,843	125,653,500	122,776,233	101,736,217	
6,762,080 2,318,567	189,635,191 146,816	705,439 5,320,564 22,979,473 1,695,655	6,061,000 12,772,417 1,880,079	29, 102, 671 4, 052, 884		56 51 62 53
2,150,044	3,139,750	370,483 491,717 1,131,254 18,200 1,338,798 5,385	13, 152, 710	1.144,972	1	42 44 44 42 43 48
4,621,626 - - 3,564,136	4,216,057	2,658,730 6,183,162	13,577,000	5,651,187	1,016.252	3 3 4 4
4 601 606	30, 207, 935	0.000.730	-	10,580,000 2,828,793	44,951,674	31
15,000,000 6,013,863 -		£21,504	25,094	3,882,480 145,116	14,631,001 -	3 70 05
_			514,200 1,225,215 597,590	671,146 1,156,114		222333333
				A	3, 145, 721	2
	392,902		-		_ 1.073,690	2 2 2
8,817,254	4,543,066 622,796	1,103,389 13,722,823 520,516 625,549	6,708,507 2,922,498		24,617,616	1 1 1 2 2 2
	48,630,341	6,476,048	14,908,712	5, 192, 746	58, 109	1111
1,075,604	3,263	5.927.486 8,226,697	32,853,612 64.542	11,765,680 18,136,734 144,718	618,079	1
42,579,184 1,189,973	2,848,290 1,454,481 4,800,000 51,180,196	7,631,684	8,107,500	3,800,000 - 9,415,264 8,107,500		1 1
5,424,845					686,858	3
2,220,729	4,760,399 15,709,648	2,462,628 1,020,659	1,820,231 50,600 1,846,933	2,704,633 2,407,157 1,828,960 117,478	1,751,446	1
\$ 6,758,967	\$ 700 200	\$ 460,600	6,565,060	\$ 704 622	\$ 9,185,771	-
1931.	1932.	1932.	1932.	1932.	1932.	ľ
Quebec,	Ontario.	Manitoba.	Saskatch- ewan.	Alberta.	British Columbia.	N

plant, livestock, equipment, unemployment relief works, etc. *Nearly 84 p.c of the "resources" assets shown for Ontario are in the form of pulpwood and timber resources. *This item is for unsold school lands only, other resources not being shown.

Section 3.—Municipal Public Finance.1

The existence of local self-governing units has always been characteristic of democratic societies, and nowhere more so than in Canada. The struggle for responsible government was naturally accompanied by an agitation for local selfgovernment in the cities and towns of Canada and, after responsible government had been conceded, a complete system of municipalities was established throughout the old Province of Canada by the Municipal Act of 1849. Under the division of powers made by the British North America Act between the Dominion and the Provincial Governments, legislation regarding municipal government, being a local matter, was naturally assigned to the provinces, which differ considerably with regard to their types of municipal organization. Thus in Prince Edward Island the only incorporated municipalities are the city of Charlottetown and seven incorporated towns. In British Columbia seven of the 33 cities have fewer than 1,000 people, while there are no towns at all and only sixteen villages; again, in the same province the rural districts are mainly administered from the provincial capital. there being only 28 rural municipalities. Finally, in Saskatchewan and Alberta there exist local improvement districts, areas which have not as yet been organized into rural municipalities, and where the taxes are levied, collected and expended by the Provincial Governments. Such districts, however, may be regarded as on the way to become self-governing rural municipalities and their statistics are therefore included in Table 31, which gives statistics of the numbers and types of municipalities in 1931.

31.—Number of Municipalities in Canada, by Provinces and Classes, 1931.

Province.	Cities.	Towns.	Villages.	Counties.	Other Rural Munici- palities.	Local Improve- ment Districts.	Subur- ban Munici- palities.	Total.
P.E. Island	1 2 3 3 25 28 4 8 7 33	7 43 20 98 146 30 80 54	2 300 156 22 385 145 16	- 3 15 74 381	24 1.012 5712 113 302 166 28	83 234 317	5 5	8 69 40 1,509 939 174 858 606 77

There are 44 counties in all, geographically, but a number are united for municipal purposes.

¹ Revised by Col. J. R. Munro, Chief of the Finance Branch of the Dominion Bureau of Statistics. This Branch issues statements on "Financial Statistics of Urban Municipalities of 10,000 Population and Over", on "Bonded Indebtedness of Municipalities" and on "Assessment Valuations of Municipalities". For a first of publications see Chapter XXIX, Section 1, under "Finance"

² For a brief outline of the ruse of the municipal system of Ontario, see 1922-23 Year Book, p. 108.

²Officially known as townships.

Nova Scotia has eighteen counties, some of which are "municipalities", while others are divided into "municipalities"

Municipal Assessments.—Throughout the Dominion, the chief basis of municipal tax revenue is the real estate within the limits of the municipalities; though in certain provinces personal property, income, and business carried on are also taxed. General taxes are normally assessed at the rate of so many mills on the dollar of the assessed valuations. In the Prairie Provinces, the values of improvements made to real property are often rated at a very low figure, e.g., in Saskatchewan, where the taxable valuations of buildings are about 12 p.c. of the taxable valuations of lands, and in Alberta, where they are about 27 p.c. of the taxable valuations of lands, as shown in Table 32.

There are various reasons for fluctuations in assessment valuations, due to differences in laws and varying practices with regard to assessment as among provinces, as among classes of municipalities and as among municipalities of the same class from year to year. Such matters are more fully dealt with in the special report of the Bureau on "Assessment Valuations by Provinces", obtainable on request.

Land valuations in the West, which in earlier years were somewhat inflated, have of late been assessed on a sounder basis, and in some provinces the Equalization Boards have placed a more equitable valuation on lands as among the various rural municipalities.

32.—Summary Statement Showing Total Assessment Valuations of Municipalities, by Provinces, for 1929, 1936 and 1931.

Province.	Tax	Taxable Real Property.				
r rovince.	Land.	Buildings.	Total.			
	\$	\$	\$			
Prince Edward Island1929	_		30,842,925			
1930	_	-	31.492.665			
1931	_		32,595,794			
Nova Scotia	-	-	136,915,454			
1930	-		138,202,162			
1931 New Brunswick	_	-	140,107,075			
New Brunswick	-	-	158,569,642			
1930	_		126, 468, 684 130, 053, 404			
Ouebec]	_	2.854.494.461			
1930	_		2,451,644,179			
1931	_	_	2,210,942,541			
Ontario	1.291.803.654	1,383,517,323	2.675.320.977			
1930	1,314,778,176	1.444.419.193				
1931	1,327,606,008	1,484,157,227				
Manitoba	- ,		540, 852, 995			
0892	-		541,847,002			
1931		-	539,012,367			
Saskatchewan1929	974,028,206		1.083,773,225			
1930	976, 232, 540	115,066,876	1,091,299,416			
1931 Alberta	972,490,470 454,224,5144	117,238,924	1,089,729,394			
1930	525, 513, 056	107, 405, 6264 119, 904, 827	561,630,1404,4			
1931	456.099,4594	123,860,6464	645.417,883 579,960,1054			
British Columbia1929	307.514.698	352.814.469	660, 329, 167			
1930	307,772,090	374.218.299	681,990,389			
1931	303,667,022	384.429,061	688.096,083			
	3,027,571,072 ¹ ,4 3,124,295,862 ³ 3,059,862,959 ¹ ,4	1,953,482,4371 2,653,609,1951 2,109,665,8581	8,202,728,986°,4 8,467,559,698°,6 8,222,259,998°,4			

32.—Summary Statement Showing Total Assessment Valuations of Municipalities, by Provinces, for 1929, 1939 and 1931—concluded.

Province.	Personal Property.	Income.	Other Taxable Valuations.	Total Taxable Valuations.	Exempted Property.
	\$	\$	\$	8	3
Prince Edward Island1929 1930	6,820,658 7,418,475	536,020 425,016	75,850 57,030	38, 275, 453 39, 388, 186	1,944,000 1,984,000
Nova Scotia	6,336,017 24,118,744 ² , ³ 23,986,731 ² , ³	287.134 1,698,572°,* 1,716,970°,3		39, 302, 440 162,688,650 ⁸ 163,831,573 ³	1,828,000 40,135,244 45,163,617
New Brunswick	24,383,4772,3 28,597,163 23,111,956	1,522,6002,8	11,267,770	177,245,514 ³ 187,166,805 149,580,590	48, 119, 429
Quebec	23,511,406		14.791,807 13.489,102	153,564,810 2,369,286,268	687,990,363 668,244,770
1931 Ontario	-	119,218,961 135,092,197	12,536,139 219,323,197 232,243,536	2,223,478,680 3,013,863,135 3,126,533,1025	706,128,166 488,724,668 510,504,102
1931 Manitoba	- 10,296,733 11,273,178	131,335,748	240,053,432 10,439,762 10,573,874		536,535,708 144,991,311 147,666,868
1931 Saskatchewan1929 1930	7,656,667	2,473,384 ⁶ 2,048,005 ⁷	10,434,095 45,599,072 46,067,839	557, 103, 129 1,131,845,681 1,139,415,260	156,793,923
1931 Alberta1929 1930	-	1,205,209*	43,526,172 8,981,6404 10,785,735	1,134,460,775 570,611,7804 656,203,618	
1931 British Columbia 1929 1930		- : - :	15,785,0124	595,745,1174 660,329,167 681,990,389	81,303,065 87,373,370
1931 Totais, All Provinces1929	69,833,298 ² , ³	123,526,5372,2		688,096,083 5, 49 5, 696,429 8,5	1,395,688,651
1930 1931	65,785,335°,3 61,887,567°,3	139,282,1882,3 134,350,6912,3		8,985,770,048°,6 8,752,118,963°,6	1,460,936,727 1,598,349,761

Less land and buildings for the Maritime Provinces, Quebec and Manitoba. ² In N.S. personal property and income assessments for cities are for Sydney only. ³ Includes exemptions for municipality of Cumberland, Nova Scotia. ⁴ Local Improvement Districts not included in 1929 or 1931 in Alta. ⁵ In addition, assessments for schools only in Ontario were: townships \$2,780,538, towns and villages \$23,719,597 and cities \$92,401,140 in 1929; townships \$3,125,660, towns and villages \$22,347,193 and cities \$86,780,452 in 1930; and townships \$4,486,690, towns and villages \$2,049,195 and cities \$93,816,472 in 1931. \$256,400 is by special franchise. ⁷ \$484,736 is by special franchise. ⁸ \$441,660 is by special franchise.

Bonded Indebtedness.—Like other Canadian governing bodies, the municipalities of the greater part of Canada borrowed rather freely during the boom period of 1900-12, and again during the nineteen-twenties. The bonded indebtedness of Ontario municipalities rose from \$153,568,409 in 1913 to \$499,002,074 in 1931, while that of Quebec municipalities increased from \$132,078,584 in 1914 to \$362,-132,334 in 1931, and a proportionate increase took place in other provinces. The recent growth in the bonded indebtedness of all classes of municipalities is shown by provinces in Table 33. The figures show that there was an increase in 1931 over 1930 in each of the provinces. In Saskatchewan, net debenture debt is shown for all municipalities in 1925 and 1926, while from 1927 to 1931 the statistics represent gross debenture debt. In Alberta, the statistics given represent principally net debenture debt in 1925 to 1928, while in 1929, 1930 and 1931 gross debenture debt is given. All other provinces give total debenture debt throughout.

33.—Total Bonded Indebtedness of All Classes of Municipalities, by Provinces, 1919-31.

Year.	Prince Edward Island.	Nova Scotia.	New Brunswick.	Quebec.	Ontario.
	8		. \$	\$	\$
1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1930	970, 160 1, 986, 500 1, 202, 200 1, 254, 900 1, 248, 5504 1, 163, 3504 1, 247, 5454 1, 452, 4251 1, 515, 1251 1, 863, 211 1, 959, 6721	17, 863, 881 19, 192, 462 22, 481, 743 23, 541, 759 24, 248, 782 25, 348, 664 25, 722, 635 26, 281, 152 28, 381, 616 29, 049, 412 29, 029, 119 30, 182, 264 31, 386, 025	11, 128, 467 10, 841, 466 7, 578, 567 10, 025, 633 7, 974, 362 17, 380, 225 10, 660, 863 17, 091, 550 15, 707, 699 19, 365, 582 21, 129, 540 20, 565, 998 21, 477, 5212	171, 168, 650 190, 204, 326 194, 877, 251 207, 863, 993 214, 260, 791 230, 424, 908 231, 358, 779 246, 541, 730 260, 435, 420 278, 864, 734 293, 557, 500 323, 395, 745 362, 132, 334	434,464,056 435,912,807 451,936,592 485,280,182
Year.	Manitoba.	Saskat- chewan.	Alberta.	British Columbia.	Total.
		\$	\$	3	\$
1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930.	55. 562, 788 57. 820, 588 65. 403, 239 68. 811, 040 73. 904, 963 73. 994, 105 79. 211, 867 80, 716, 272 83. 017, 302 85, 651, 906 85, 901, 404 84, 879, 707 91, 615, 195	39, 565, 388 34, 989, 751 35, 040, 336 52, 787, 655 51, 709, 772 49, 448, 911 46, 732, 040 44, 769, 529 54, 361, 158 53, 092, 330 54, 913, 100 59, 000, 183 59, 146, 704	66. 870, 464 57, 205, 275 53, 429, 556 60. 832, 650, 70. 999, 611 65, 414, 317 57, 908, 593 56, 950, 712 62, 414, 660 63, 428, 853 78, 473, 392 78, 645, 803 78, 679, 571	94,741,615 96,107,911 97,495,984 98,761,630 96,273,987 96,106,151 99,055,201 102,853,228 107,376,118 110,124,819 118,483,618 125,832,088 129,913,890	737, 175, 550 795, 152, 161 873, 175, 866 917, 179, 070 989, 191, 332 956, 991, 831 989, 926, 531 2, 047, 810, 454 2, 077, 005, 531 1, 185, 022, 889 1, 209, 645, 181 2, 209, 645, 181

34.—Principal Financial and Other Statistics of Canadian Cities and Towns with Populations of 10,000 and over, 1931.

Province and City.	Area.	Populations as Furnished by Municipalities	Total Assessed Value of Taxable Property,	Grand Total Receipte.	Grand Total Expendi- tures.	Total Assets.	Total Liabilities.
D: T1 171 1	acres,	No.	\$	\$	8	\$	8
Prince Edward Island— Charlottetown	830	12,387	8,734,478	297,2[1	320,318	2,684,798	2,011,674
Nova Scotia— Halifax Sydney Glace Bay	4,400 ¹ 3,730 ² 6,200 ²	23,089	12,925,8(5	4,727,516 1,903,382 1,046,383	4,727,517 1,993,383 1,137,189	18,523,812 6,208,243 2,584,206	6,208,243
New Brunswick— Saint John Moneton	13,449 2,093					14,878,558 6,304,203	

For footnotes see end of table, p. 868. 52230-554

¹Figures represent Charlottetown and Kensington 1924-31; Montague for 1925-31; Summerside, Souris Georgetown and Alberton 1926-31.

²New Brunswick figures are for 3 cities, 18 towns, 2 villages and 15 counties in 1924; 2 cities, 13 towns, 2 villages and 15 counties in 1925; 3 cities, 18 towns, 1 villages and 15 counties in 1926; 3 cities, 23 towns, 4 villages and 15 counties in 1927, 1928 and 1929; 3 cities, 19 towns, 2 villages and 15 counties for 1930 and 3 cities, 20 towns, 2 villages and 15 counties for 1930 and 3 cities, 20 towns, 2 villages and 15 counties for 1930 and 3 cities, 25 towns, 2 villages and 2 counties for 1931.

34.—Principal Financial and Other Statistics of Canadian Cities and Towns with Populations of 10,000 and over, 1931—concluded.

	r opum	MULIS UI .		Over, 1831—	Concincien.		
Province and City.	Area.	Popu- lations as Furnished by Muni- cipalities.	Total Assessed Value of Taxable Property.	Grand Total Receipts.	Grand Total Expendi- tures.	Total Assets.	Total Liabilities.
	acres.	No.		\$	\$	\$	\$
Quebec-				-	-		
Montreal	32, 155	1,127,949	979,629,413	127,243,889	126,892,447	219,637,022	298,060,110
Quebec Verdun	5,754 1,426	139,846	120, 282, 142	14,544,189	15,280,925	34,696,166	37,707,018 11,482,795
Three Rivers	2,560	60,745 40,000	40,734,010 25,662,300	4,026,445 5,851,486	4,074,317 5,865,547	8,217,394 12,139,828	19 316 389
Hull	4,000	29,482	21,088,419	1,552,684	1 561 651	4.860.803	12,316,382 4,992,672
Sherbrooke	3,104	28,777	26, 848, 471	4.6413.8140	4,544,264	13,204,065	1 10.451.276
Outremont	975.	27,850 26,008	42,195,480 72,387,706 27,081,943	2,393,134 3,084,895 1,561,379	4,544,264 2,467,404 3,098,768	13,204,065 6,290,956 11,106,662	8,806,155 13,693,735
Westmount	976	26,008	72,387,706	3,084,895	3,098,768	11,106,662	13,698,785
Lachine	2,996	19, 194	27,081,943	1,561,379	1,576,134	6,929,638	8,270,531
St. Hyacinthe	1,280 1,091	15,571 14,008	25,257,731 12,692,386 11,788,249	1,894,603 728,423	1,972,708 737,649	4,670,038 1,928,613	5,247,225 1,751,090
St. Jean	1,831	12,500	11 738 249	512,246	518,507	1,995,399	1.619.024
St. Jean Valleyfield	358	11.869	[-5.057.135]	512,246 490,726 1,658,720 493,733	506.326	1,016,617	984,503 2,653,356 1,532,633
Cnicoutimi,	1,700 $2,222$	11,684	7,601,878 5,921,385	1,658,720	1,669,606	1,016,617 2,518,733	2,653.356
Lévis	2,222	11,594	5,921,385	493,733	470,328	1,619.670	1,532,633
Joliette	1,288	11,419 10,700	5,665,964	462,676	445,150	2,168,639	1,539,499
Granby	960 2.000	10.700	5,575,008 3,812,475	241,644 369,913	413,407 372,925	1,309,136 1,309,742	1,096,335 1,580,733
Sorel	$\frac{2,000}{2,080}$	10, 312	6,353,500	364,785	369, 126	1,000,113	684,209
Ontario— I	2,000	· ·		· ·	_		i '
Toronto	17,176 9,272	621,596	1,050,204,850 $169,871,150$	43,771,204 9,208,795	44.079,756 9,311,409	213,444,897 62,111,063 38,848,735	205,479,613 42,255,972
Hamilton	9,272	150,065	169,871,150	9,208,795	9,811,409	62,111,063	42,255,972
Ottawa	4,120	127,332 71,310	161,535,392	7,032,697	7,051,480	38,848,730	28,016,891 17,858,045
London Windeor	7,231 3,209	68,079	86,434.396 89,926,950	4,046,574 4,160,821	4,032,647 5,057,296	20,039,074 19,749,080	17,302,704
Kitchener	2,933	31,114	26.580,907	1.643.726	1,640,173	7,264.144	5,004,187
Brantford	3,159	80,158	28.374.755	1,682,784	1,741,289	7 071 176	I 6 644 000
St. Catharines	1.900	25,645	24,732,130 32,857,156 16,672,940	1,643,726 1,682,784 1,455,248 1,565,513 1,148,730	1,741,289 1,432,829 1,580,399 1,155,703	6,462,665 12,511.336	6,229,178 12,287,661
Fort William	9,865 3,356	24,470	32,857,156	1,565,513	1,530,399	12,511,336	12,287,861
Oshawa Sault Ste. Marie	3,356 4,900	23,687 23,079	16,672,940; 19,341,922	1,148,730	1,155,703	5,612,124 7,287,698 8,797,710	5,591,241 6,620,336
Peterborough	2,848	22,798	94 828 024	1,098,550	1,117,608	8,797,710	7,253,806
Kingston	2,993	22,534	17, 274, 687	1.126.952	1.078.330	1 4.879.620	1 4.088.291
Guelphi	3.104	21,201	14,200,358	1,333,713 749,724	1 297 905	I 8 083.449	4.715.892
Suapury	2,560 8,700	20,100	12,386,147	749,724	1.014.309	4,646,886 14,282,734 4,418,185	4,021,650
Port Arthur	8,700	19,430	26,899,590 18,484,048	1,849,234	1,290,890	14,282,739	12,948,770 4,331,710
Niagara Falls Stratford	1,655 2,835	18,678 18,626	15, 276, 098	1,349,214 1,267,287 832,398	827 040	6.597,545	4, 102, 102
Sarnia	2,835 1,770	17,540	18, 368, 787	1.076.548	1,042,880	4,683,844	3,222,170
St. Thomas	1,800	16.582	17, 177, 209	877,770	1,010,143	4,561,530	2,332,691
Chatham North Bay East Windsor	1,650	16,434 16,353	14,345,812	877,770 775,368	796,812	2,250,810	1,311,020
North Bay	2,100	16,353	9,962,742	770,286 1,085,842	746,876	3,365,600	3,189,693
Colt	1,677 1,600	16,081 13,960	21,693.590	680,373	959,012 877 090	6,142,195 4,870,230	5,897,667 4,264,554
Galt Belleville	1,000	13.914	11,205,235 10,218,636 6,390,566	702.498	677,920 704, <i>5</i> 13	5,328,027	4,079,587
Timmins	852	13,914 13,367	6,390,566	702,498 627,774	579,941	5,328,027 3,478,788	1,310,286
Timmins Owen Sound	2,909	12,673	8,693,357	596,437	645, 255	1,431,390	2,135,042
Sandwich	2,035	11,408	15,986.461	741, 191	679,721	4,078,168	3,929,253
Walkerville	1,000	11,351	16,825,827	908,609	1,014,094	4,687,542	3,878,944 863,340
Cornwall	577 1,525	11,082 10,840	7 740 527	446, 123 572, 481	343,236 475,741	1,480,822 2,362,558	1,481,171
Welland	1,100	10,338	9,837,410 7,740,527 9,790,985	572,481 536,379	553,635	2,362,558 4,347,621	2,613,077
Manitoba-							
Winnipeg	15,961	218,785	246, 103, 836	-	-	30,047,537	65,741,7804
Brandon	5,428	17,082 16,305	13,598,989 13,488,941	<u>-</u>	_	2,896,091° 2,438,261°	3.397,3764 4,871,3964
St. Boniface Saskatchewan—	11,641	10,300	18,400,841	_	_	2,430,201	4,011,050
Regina	8,408	53,209	47,468,222	6,921,302	7,137,823	25,019,706	18,928,971
Regina Saskatoon MooseJaw	8,000 9,760	53,209 43,291	34,670,600	5.611.048	7,137,823 5,789,563	25,019,706 28,350,785	17,922,984 7,798,368
MooseJaw	9,760	21,299	20,663,110	1,650,228	1,998,882	12,338,578	7,798,368
Alberta i	95 900	29 701	70,530,989	\$ 460 9/m	5,659,417		30,385,317
Calgary Edmonton	25,920 28,200	83,761 79,197	66,496,485	5,463,300 6,955,533	6 718 547		42,396,880
Lethbridge	6,944	13,489	10,548,630	840,903	777,487	_	4,452,942
Medicine Hat	6,944 10,880	13,489 10,300	9,900,130	840,908 857,588	6,716,547 777,487 748,375		4,452,942 2,436,215
British Columbia—							f
Vancouver	27,965	246,593	374,524,630 50 254 890	14,867,761	15,745,006	_	84,608,726 17,935,832
Victoria New Westminster	4,637 3,481	39,082 17,524	59,354,820 22,209,681	2,731,208 1,237,108	3,114,267 1,331,604		17,935,832 7,018,552
Tien meanningel.	0,101	.,,,,,,,	##1 #U4 , VOI	1,201,100	. 1,001,007		

For the year 1925. *Census 1921. *Arrears of taxes and sinking fund. *Debentures outstanding.

Section 4.—National Wealth and Income.

Subsection 1.-National Wealth.

There are several methods of computing national wealth, i.e., the aggregate value of the public and private property within the nation apart from undeveloped natural resources. Perhaps the most familiar of these methods is that of working back to capital values through income tax returns, but this can be applied only in countries where all incomes are thoroughly appraised. A second method is that of estimation from probate returns, the value of the estates of deceased persons being regarded as representative. A third is that of a complete census, based upon a canvass of the individual. In the accompanying tables a fourth method, namely, the so-called "inventory" method, is employed; it consists in totalling the amounts known from various sources to be invested in agriculture, manufactures, dwellings, etc.

Whatever method is used, difficulty arises when we try to reduce all the things which go to make up wealth (things which once created are not themselves subject to violent change) to a common denominator. Estimates of national wealth must always be expressed in terms of the national currency and thus normally in terms of gold dollars. Yet the purchasing power of the currency unit is always fluctuating and since 1929 has increased by more than 50 p.c. in terms of wholesale prices. Even in 1930, the average index number of wholesale prices was down by nearly 10 p.c. from 1929, while in December of that year the average index number of wholesale prices was 19 p.c. lower than in the same month of 1929.

The effect of such drastic reductions in values is first felt by the commodities which are being currently produced and, through these commodities, the dollar value of production is diminished and consequently the national income of a country where most people are producers. Ultimately a persistent decline of this character affects the capital values of real estate, buildings, machinery, etc., and its influence is then felt in a reduction in the national wealth as stated in dollars. The 1929 estimate, which is considered to represent values in that year with approximate accuracy, is the latest which has been compiled by the Bureau of Statistics and the table below shows the national wealth on that basis.

The survey for 1929 placed the estimated aggregate of the tangible wealth of the Dominion, exclusive of undeveloped natural resources, at \$30,840,000,000 as compared with \$29,630,000,000 in 1928, \$27,668,000,000 in 1927, \$26,691,482,000 in 1926, \$25,673,174,000 in 1925 and \$22,195,302,000 in 1921. These figures, however, are not exactly comparable, in view of certain improvements and additions that have been made in the method of estimation and in the items included. An increase of \$1,210,000,000 was shown in the national wealth in the year 1929, and of over \$8,600,000,000 in the eight years 1921 to 1929.

Aggregate and Per Capita Wealth of the Provinces, 1929.—As regards the provincial distribution of wealth, Ontario ranked first with estimated aggregate wealth of \$10,628,000,000 or 34.46 p.c. of the total and Quebec second with estimated wealth of \$8,265,000,000 or 26.8 p.c. of the whole. Saskatchewan was third, with estimated wealth of \$3,047,000,000 or 9.88 p.c. of the total for the Dominion.

¹Revised figures.

While Ontario led in absolute wealth, the western provinces came first in per capita wealth; British Columbia held first rank with a per capita wealth of \$4,012; Alberta second with \$3,518; Saskatchewan third with \$3,451 and Manitoba sixth with \$2,910. These figures may be compared with \$3,188 and \$2,982, the per capita wealth of Ontario and Quebec respectively, and \$3,076, the per capita wealth for the whole Dominion. Further details are furnished in Table 35.

As the statistics of population and wealth for Yukon are uncertain, the per capita estimate of wealth is open to question and has not been shown.

35.—Provincial Distribution of the National Wealth of Canada, with Percentage and Per Capita Analyses, 1928 and 1929.

Note.—Figures for 1921 and 1925 are given on pp. 849-850 of the 1927-28 Year Book, for 1926 on p. 827 of the 1930 Year Book and for 1927 on p. 870 of the 1931 Year Book.

Province.	Estimated Wealth.	Percentage Distribu- tion of Wealth.	Estimated Population June 1,	Percentage Distribu- tion of Population.	Wealth per capita.4
1928,	\$	p.c.	No.	p.c.	\$
Prince Edward Island. Nova Scotia New Brunswick Quebee. Ontorio Manitoba Saskatchewan Alberta British Columbia Yukon Totals.	157,000,000* 899,000,000* 891,000,000* 7,506,000,000* 1,973,000,000* 3,100,000* 2,378,000,000* 2,622,000,000* 19,000,000*	3.03 2.77 25.34 34.27 6.66 10.46 8.03 8.85 0.06	88,000 515,000 401,000 2,715,000 3,278,000 664,000 658,000 641,000 4,000 9,833,666	0-89 5-24 4-08 27-61 33-34 6-75 8-77 6-69 6-52 0-04	1,784 1,746 2,047 2,765 3,698 2,971 3,596 3,614 4,090
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon	164, 000, 000 911, 000, 000 788, 000, 000 8, 265, 000, 000 10, 628, 600, 000 1, 970, 000, 600 3, 047, 000, 000 2, 406, 000, 000 17, 000, 000	0·53 2·95 2·56 26·80 34·46 6·39 9·83 7·80 8·57 0·06	88,000 515,000 404,000 2,772,000 3,334,000 677,000 883,000 684,000 659,000 4,000	0 · 83 5 · 14 4 · 03 27 · 64 33 · 25 6 · 75 8 · 81 6 · 82 6 · 57 0 · 04	1, 864 1, 769 1, 950 2, 982 3, 188 2, 910 3, 451 3, 518 4, 012
Totals	30,840,000,600	100.00	10,027,000	100.001	3, 076

Includes 7,000 population in the Northwest Territories or 0.07 p.c.

2As the statistics of population and wealth for Yukon are uncertain, the per capita estimate of wealth is open to question and has not been shown.

3Revised figures.

4Per capita figures are worked out on the basis of revised populations, see p. 145.

Wealth of Canada, by Items, 1929.—In the items included in Table 36, all duplications have been excluded. In any consideration of the individual items it should be remembered that each item covers only the portion of wealth which is mentioned in the description of the item. For example, the item of fisheries includes only capital invested in primary operations, while capital invested in fish-canning and curing establishments is included under manufactures, though it might also be considered as part of the wealth connected with fisheries. In the same way, the items for manufactures do not include lands and buildings in urban centres, which are shown under the heading of urban real property.

The total agricultural wealth in 1929 was \$7,939,477,000, being 25.74 p.c. of the whole. This amount included the value of agricultural production in 1929, or \$1,631,124,000, to cover the average stocks of agricultural goods in the possession of farmers and traders and the amount invested in preparation for the new crop.

The largest element in the national wealth was urban real property, which in 1929 attained first place although it was previously second to agriculture. This item included the assessed valuations of taxed and exempted property, to which was added one-third to provide for undervaluation by assessors and for roads, bridges and sewers. The estimated value, as based on returns for 1929 received in the Bureau, was \$8,251,011,000 or 26.75 p.c. of the total wealth of the Dominion.

The wealth invested in steam railways, computed from the cost of road and equipment, and distributed by provinces on the basis of mileage, constituted the third largest item, amounting to \$3,153,351,000 or 10.22 p.c. of the total.

Another important item is the tangible value of the forests, amounting to \$1,877,000,000 or $6\cdot09$ p.c., and including the estimated value of accessible raw materials, pulpwood, and capital invested in woods operations. In 1929, as in previous years from 1926, this item included an estimate of the value of young growth, accounting for an increase in the estimates for these years compared with 1925.

The value of machinery and tools in manufacturing establishments and of lands and buildings of manufacturing concerns in rural districts was estimated at \$1,418,040,000 in 1929 or 4.60 p.c. In addition the estimated value of materials on hand and stocks in process in manufacturing establishments was set at \$837,-805,000 in 1929 or 2.72 p.c. In 1925 this item included an estimate for stocks of manufactured goods in the hands of dealers, but in the present statement this is included in the item for trading establishments, which shows the estimated value of furniture and fixtures, delivery equipment, and materials and stocks on hand in 1929 as \$1,136,291,000 or 3.68 p.c. of the total. Three additional classes of wealth have been included in the estimate for 1929 which were not taken account of in earlier estimates. To this extent, and on account of the later revision of earlier figures, the totals of this and other years are not comparable. The three classes so included are harbours, highways and aircraft. The \$367,488,000 credited to harbours represents the approximate capital expenditures for harbour works such as wharves, piers, breakwaters, dredging or other harbour and river improvements. The investment in certain piers and wharves connected with the fishing industry is. however, included under the item "Fisheries" The amount credited to highways is estimated on a conservative basis, and is not intended to be all-inclusive, but is considered the best estimate that can be made from existing data. The value of aircraft is taken as the original cost of the aircraft registered in the different provinces less an allowance for depreciation worked out with the co-operation of the Air Service Branch of the Department of National Defence. The resulting estimate of \$2,398,000 is included with "shipping"

On the basis of the estimated population of 1929 of 10,027,000, the per capita investment in urban real estate was \$823, in agriculture \$792, in steam railways \$314, in the forests \$187 and in household furnishings and personal property \$137. The per capita wealth of all kinds was \$3,076. Further details of the items are presented in Table 36.

35.—Estimate of the National Wealth of Canada, with Percentage and Per Capita
Distribution of Component Items, 1929.

			
Classification of Wealth,	Aggregate Amount.	Percentage of Total.	Average Amount per head of Population. ¹
	8	p.c.	\$
Farm Values (land, buildings, implements, machinery and live stock)	6,308,353,000	20-45	629 - 14
Agricultural Products in the possession of farmers and traders.	1,631,124,000	5.29	162-67
Totals, Agricultural Wealth	7,939,477,000	25.74	791 - 81
Mines (capital employed)	867,021,000	2.81	86-47
Forests (estimated value of accessible raw materials, pulpwood and capital invested in woods operations)	1,877,000,000	6.09	187 - 19
Fisheries (capital invested in boats, gear, etc., in primary operations)	33,935,000	0.11	3.39
Centrel Electric Stations (capital invested in equipment, materials, etc.)	554,327,000	1.80	55.28
Manufactures (machinery and tools, and estimate for capital in rural lands and buildings, duplication excluded)	1,418,040,000	4-60	141-42
Manufactures (materials on hand and stocks in process, duplication excluded)	837,805,000	2.72	83-55
Construction, Custom and Repair (estimate of capital invested in machinery and tools and materials on hand)	137,685,000	0.45	13.73
Trading Establishments (estimate of the value of furniture and fixtures, delivery equipment and materials on hand)	1,136,291,000	3-68	113.32
Steam Railways (investment in road and equipment)	3,153,851,000	10.22	314-49
Electric Railways (investment in road and equipment)	240,111,000	0.78	23.95
Telephones (cost of property and equipment)	291,589,000	0.95	29.08
Urban Real Property (assessed valuations and exempted property and estimate for undervaluation by assessors and for roads, sewers, etc.)		26.75	822-88
Canals (amount expended on construction to Mar. 31, 1930)	241,946,000	0.79	24 - 13
Harbours (approximate amount expended to Mar. 31, 1930)	367,488,000	1-19	36-65
Shipping (including aircraft)2	149,306,000	0.48	14-89
Imported Merchandise in store (estimated at one-half imports during 1929).	649,477,000	2-11	64-77
Automobiles (estimate of the value of automobiles registered).	758,424,000	2.46	75-64
Highways, etc.	364,896,000	1.18	36-89
Household Furnishings, Clothing, etc. (value estimated from production and trade statistics)	1,370,000,000	4.44	136-63
Specie, Coin and other Currency held by the Government, chartered banks and the general public	201,030,000	0.65	20.06
Grand Totals	30,840,210,000	100.00	3,075.72

 $^{^{3}}$ This class of wealth was not included in estimates published for previous years in earlier editions of the Year Book.

[&]quot;The total for "shipping" includes, for the first time, an estimate for aircraft amounting to \$2,398,000 for 1929.

^{*}See Table 35 for the revised estimate of population upon which these per capita figures are based.

Analyses by Provinces and Classes of Wealth.—In Table 37 will be found detailed statistics of the wealth of each province by leading items. Again the suggestive character rather than the strict accuracy of such data must be emphasized. The specie holdings, for instance, are distributed among the provinces according to their populations, since they are an asset of Canada as a whole rather than of the particular locality in which they happen to be deposited.

37.—Estimate of National Wealth of Canada, 1929, by Provinces and Classes.

Nors.—For a fuller description of the various items, see the table immediately preceding.

						
Classification of Wealth.	Canada.	Prince Edward Island.	Nova Scotia.	New Brunswick.	Quebec.	Ontario.
	*	\$	\$	\$	8	\$
Farm values	6,308.353.000	67,015,000	184,725,000	141,130,000	1,133,343,000	1,778,476,000
ducts	1.631,124.000	25,976,000	43,412,000	39,919,000	313,698,000	509,208,000
Totals, Agricultural Wealth	7,939,477,000	92,991,000	178,137,000	181,049,000	1,447,041,000	2.287,684,000
Mines	867,021,000 1,877,000,000 33,935,000	t 1,600,000 725,000	67,357,000 58,000,000 7,447,000	78,700,000	146,332,000 706,000,000 2,334,000	422,500,000
Central electric sta- tions	554,327,600		8,397,000		' '	.,,
chinery and tools, and estimate for capital in rural lands and build-						
inge; duplication excluded) Manufactures (ma- terials on hand	1,418,040,000	1,301,000	36,778,000	40,221,000	439,539,600	661,790,000
and stocks in pro- cess)	837,805,000	496,000	21,582,000	21,208,000	246,601,000	442,238,000
tom and repair Trading establish- ments (fixtures and delivery	137,685,000	171,000	3.176,000	1,678,000	40,711,000	53,495,006
equipmentand materialsonhand)	1,136,291,000	5, 168, 000	42,119,000	36,926,000		
Steem railways Electric railways	3,153,351,000 240,111,000	21,190,000	109,020,000 10,077,000	3,063,000	67,846,000	109,673,000
Canals Telephones	241,946,000 291,589,000	766,000	1,494,000 8,457,000	45,000 5,369,000	35,804,000 60,227,000	204,603,000 117,340,000
Urban real property Harbours Shipping	8,251,011,000 367,488,000 149,306,000	13,954,000 4,383,000 882,000	181.262,000 20,866,000 13,417,000	98,894,000 31,869,000 3,615,000	3,190,295,000 165,173,000 54,167,000	3,032,338,000 91,428,000 39,284,000
Imported merchan- dise in store	649,477,000	786,000	17,846,000	13,225,000	169, 125, 000	384,034,000
Automobiles Highways, etc Household furnish-	758, 424, 000 364, 896, 000	3,949,000 1,300,000	25,354,000 11,992,000	20,360,000 13,188,000	105,785,000 52,816,000	347,267,000 186,000,000
ings, clothing, etc. Specie, coin and other currency held by the Gov-	1,370,000,000	12,052,000	77,043,000	58,692,600	376,591,000	457,903,000
eroment, chart- ered banks and the general public	201,030,000	1,768,000	11,305,000	8,612,000	55,260,000	67, 191, 000
Totals	30,840,210,000 100-00	163, 929, 000 0.53	911, 126, 000 2 · 95	788,072,000 2·56	8,264,513,000 26.80	10,627,854,000 34-46

¹ Included in Nova Scotia.

37.—Estimate of National Wealth of Canada, 1929, by Provinces and Classes—concluded.

Classification of Wealth.	Manitoba.	Saskat- chewan.	Alberta.	British Columbia.	Yukon.
Farm values	\$ 589,841,000 119,472,000			\$ 195,593,000 56,889,000	\$
Totals, Agricultural Wealth Mines. Forests. Fisheries Central electric stations.	689,313,000 18,020,000 24,500,000 1,317,000 25,734,000	6.098,000 67,700,000 122,000	142,943,000 97,500,000 547,000	170,575,000 418,500,000 13,795,000	7,813,000 2,000,000 12,000 807,000
Manufactures (machinery and tools, and estimate for capital in rural lands and buildings; duplication excluded)	31,460,000 24,847,000 9,652,000	13,258,000 8,772,000	18,318,000 7,640,000	49,257,000 12,390,000	2
Trading establishments Steam railways Electric railways Canals	95, 053, 000 329, 669, 000 16, 364, 000	595,845,000	425,560,000	87, 217, 000 308, 940, 000 22, 501, 000	4,453,000
Telephones Urban real property Harbours	20,347,000 479,822,000 4,703,000 1,636,000	246,594.000 938	256, 795, 000 ,000	48, 108, 000	65,000 20,000 506,000
Shipping Imported merchandise in store Automobiles Highways, etc	28,475,000 49,774,000 13,600,000	17,188,000 82,322,000	19,564,090 63,810,000	48,981,000 60,183,000	253,000 120,000
Household furnishings, clothing, etc. Specie, coin and other currency held by the Government chartered banks and the	92,832,000	121,317,000	90,424,000	82,726,000	420,000
general public	13,622,000	17,802,000	13,269,000	12,139,000	62,000
Totals	1,970,240,000	3,047,242,000	2,406,268,000	2,644,435,006	15,531,000
Percentages	6.39	9.88	7.80	8-57	0.06

² Included with British Columbia.

Subsection 2.—National Income and Income Tax Statistics.

The national income of Canada is necessarily less than its national production, a total for which is suggested in the general survey of production on pp. 203-214 of this volume. If, as there pointed out, there is no reason to suppose that those whose activities are not connected with the production of "form utilities" are less "productive" in the broad sense of the term than others, the total value of the production of 1930 must have been about \$5,150,000,000.

In order to arrive at the figure of national income, however, certain heavy deductions from the above amount must be made—deductions especially connected with the maintenance of the industrial equipment of the country—providing not only for depreciation but for obsolescence and replacement by new and improved apparatus of production. Altogether, the charges under this head may have been about \$400,000,000. This would leave the 1930 income of the Canadian people at somewhere in the neighbourhood of \$4,750,000,000.

Incomes Assessed for Income Tax in Canada. —In those countries of the world where an income tax has been established for a considerable time the figures of the assessed income have been generally accepted as furnishing a guide both to the amount and to the distribution of the total national income by classes. Estimates of the national income, based upon income tax statistics, have been published, for example, in Great Britain and in the United States.

This material has been revised by the Income Tax Branch of the Department of National Revenue,

The war income tax was introduced into Canada in 1917. Under the Income War Tax Act, the returns of the incomes of individuals and corporations are filed in the year following the earning of the incomes. Further, since the fiscal year ends on Mar. 31, the bulk of the receipts from the income tax usually comes in during the first two or three months of the next following fiscal year. Thus the income tax received in the fiscal year ended Mar. 31, 1932, represents, in the main, income tax collected on 1930 income and the income tax collected in the fiscal year ended 1931 represents in the main 1929 income. It is important that these facts should be kept in mind when considering income assessed in different years. Further, the particular provisions of the income tax existing at any particular time and the amendments extending or contracting the scope of the income tax by raising or lowering the limit of taxable income or increasing or lowering the allowances for children, etc., should also be borne in mind in the consideration of the following tables. Among these, Table 38 gives the grand total income of individuals and corporations assessed for the numose of income war tax for the last twelve years. while Table 39 gives this income by provinces for the last five years and Table 40 shows the amount of income tax collected by provinces in the last five years. Tables 41 and 42 analyse the payments of income tax in the last four years by size of income class and by occupation of the taxpayer, respectively.

38.—Amounts of Income Assessed for the Purposes of the Income War Tax, by Individuals and Corporations, fiscal years ended Mar. 31, 1921-32.

Fiscal Year.	Indi	viduals.	Corporations.		Total	
r)scat lear.	No.	Amount	No.	Amount.	Amount.	
···		3	i	\$	8	
921	190,561	- 1	3,696	-	912,410,42	
922	290.584	1.058.577.6171	8.286	403.951,553	1,462,529,17	
923.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	281, 182	823, 100, 878	6.010	269.307.047	1.092,407.93	
024	289.086	802.617.497	5.569	805,410,374	1, 108, 027, 83	
925	225.514	701,892,820	6.236	297, 267, 428		
926	209,539	697,016,973	5.738	306,093,673		
027		465,689,900	5.777	278, 494, 991		
928	122.026	604.736.116	6,121	435,496,832	1.040,232,9	
29		668, 687, 536	7,438	526,714,737	1.195.402.20	
30	142,154	781,174,030	7.957	544,019,414	1.825, 193, 44	
	143,601	815.714.684	7,603	555, 763, 956	1,371,478,6	
31 32	133,621	660, 107, 257	6,010	332,498,963	992,606.2	

In 1927 the exemption limit was raised from \$2,000 to \$3,000 for married, and from \$1,000 to \$1,500 for single persons.

39.—Amounts of Income Assessed for the Purposes of the Income War Tax, by Provinces, fiscal years ended Mar. 31, 1928-32.

Province.	Amounts of Income Assessed.								
Frovince.	1928.	1929.	1930.	1931.	1932.				
Prince Edward Island Nova Scotia Nowa Scotia Now Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	\$ 1,906,145 19,187,670 15,855,847 247,108,323 501,698,431 73,008,012 39,130,763 37,164,202 103,587,321	\$ 2,201,506 20,418,952 16,638,582 342,206,962 554,038,353 69,131,365 45,770,128 37,692,873 106,218,237	\$ 2,293,916 20.183,735 16,743,421 402.108,906 599,709,588 83,659,145 42,729,044 47,251,766 109,367,418	79,999,021 115,849,332	\$ 1,981,321 22,748,690 15,941,318 234,313,011 508,414,692 56,619,647 24,279,759 45,115,980 82,033,481				
Yukon	1,586,234	1,085,310	1,146,505	1,115,781	992,606,22				

46.—Amounts of Income Tax Collected, by Provinces, fiscal years ended Mar. 31, 1928-32.

Province.	Amounts of Income Tax Collected.								
	1928.	1929.	1930.	1931.	1932.				
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Head Office	\$ 37,933 549,413 655,234 19,061,843 25,614,930 3,141,123 775,075 1,273,786 5,440,359 21,851	\$ 38,654 593,349 553,686 19,822,209 28,660,232 3,272,606 894,494 1,405,606 4,123,203 28,233	\$ 45,178 647,213 611,978 23,308,394 33,128,633 3,707,769 1,087,406 2,000,979 4,495,649 19,857 17,670	\$ 45.671 666.009 612,947 23,087,571 34,713,871 8,537,771 932,954 2,316,048 5,106,454 19,034 9,697	\$ 40,930 833,836 530,852 20,671,026 30,268,306 2,232,348 403,481 1,853,848 4,403,853 10,360 5,560				
Totals	56,571,047	59,422,272	69,020,726	71,048,022	61,254,400				

41.—Numbers of Individual and Corporate Tax Payers, by Size of Income and Amount of Taxes Paid under the Income War Tax Act, fiscal years ended Mar. 31, 1929-32.

1.-INDIVIDUALS.

Income Class.	19:	29.	193	30.	19	31.	19	32.
Income Ciasa.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
		\$		*		\$		\$
Under \$2,000	36,857	341.777	38,709	284,797	38,788	171,237	37,002	162,618
\$ 2,000 to \$ 3,000	22,374	719,631	20,090	290,052	20,885	316,458	19,595	291,274
3,000 to \$ 4,000	19,408	280,990	24.429	399,316	22,869	327,728	21,160	294,739
4,000 to \$ 5,000	15,049	386,046	17,468	402,594	17.909	437,407	16,555	375,629
5,000 to \$ 6,000	9,529	394,702	10,980		11,348	448.935	10,410	410.920
6,000 to 8 7,000	6.833		7,349	596,835	7.483	478,985	6.889	434,007
7,000 to \$ 8,000 .	3,950	412,301	4.620	453.082	4,814	472,641	4,573	475.300
8,000 to \$ 9,000	2,785	416.031	3,313	470.636	3,449	484.866	3,238	466,442
9,000 to \$10,000	2,185			534,755	2,609	518.664	2,462	470,920
10,000 to \$15,000	5,520		6,575	2,650,707	6,825	2,528,683	5,901	
15,000 to \$20,000	2, 197		2,540	2, 226, 401	2,878	2.386.232	2,405	
20,000 to \$25,000	1.027	1,806,366	1,181	1,937,343	1.314	2,071,218	1.123	1,727,020
25,000 to \$30,000	579		674	1.737.813	784	1,860,843	646	
30,000 to \$50,000	847	3.925.527	1,016		1.045	4,277,731	-	-
30,000 to \$35,000		, -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-		-,,	491	1.507.718
35,000 to \$40,000	' <u>-</u> i	_	-		_	-	267	
49,000 to \$45,000.	- 1	-	_		-	-	197	
45,000 to \$50,000	_	_	-	-		-	148	746,336
50,000 and over	523	9,328,921	603	10,571,399	601	10,131,844		10,269,892
Totals	129,663	25, 105, 359	142,154	27,484,118	143, 601	26,913,472	133,621	25, 135, 319
Unclassified							İ	
amounts	-	285,270		275,882	-	291,615	-	148,595
		25,390,620		27,760,000	143.601	27, 205, 087	133.621	25,283,914
Refunds	-	597, 222		522,497	- 10,00	530,908	- 1	511,068
Net Totals	129,663	24,793,398	142,154	27.237.503	143, 601	26,624,181	133.621	24,772,846

2,-CORPORATIONS.

\$ 2,000 to \$ 3,000	1,491	122,492	1,528	76,349	1,400	66.338	1,123	54,297
\$ 3,000 to \$ 4,000	695	100,149	781	119,366	723	98,914	555	91,214
\$ 4,000 to \$ 5,000 .	495	115.460	551	132.597	468	111,442	431	122,421
\$ 5,000 to \$ 6,000 .	370	115,179	440	142,324	426	146,851	843	145, 178
\$ 6,000 to \$ 7,000	392	217,825	345	140,715	334	142,237	294	147,203
\$ 7,000 to \$ 8,000	244	129,723	274	142,926	249	123,619	222	135,742
\$ 8,000 to \$ 9,000	223	125,741	232	150,951	203	137,066	197	143, 269
\$ 9,000 to \$10,000	193	122,736	222	160,785	168	125,480	140	112,685
\$10,000 to \$15,000 .	692	659, 128	702	621,296	654	587,729	495	550,720
\$15,000 to \$20,000.	390	515.068	441	590, 491	438	567.087	354	531,830
\$20,000 to \$25,000	313	605,628	289	494,263	326	597,828	229	496,928
\$25,000 to \$30,000	232	478,418	238	633,373	254	550,948	176	437,202
\$30,000 to \$50,000.	530	1,672,228	511	1,551,375	563	1,802,322	-	-
\$30,000 to \$35,000.	- 1		- 1				175	555,401
\$35,000 to \$40,000	-	-]	- 1	- i		-	119	457,740

41.—Numbers of Individual and Corporate Tax Payers, by Size of Income and Amount of Taxes Paid under the Income War Tax Act, fiscal years ended Mar. 31, 1928-52—concluded.

2.—CORPORATIONS—concluded.

Income Class.	19	1929.		1930.		31.	19	32.
income Class.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.
\$40,000 to \$45,000 \$45,000 to \$50,000	-	\$	-	\$ -		\$.	100 80	405,241
£50,000 and over Totals Unclassified		30,410,897 35,408,679		37,244,203 42,117,562 ²		39,370,016 14,440,244		31.868,113 36,704,293
Amounts	7 4991	263,665 35,672,3441		332,519 42,450,081 ²	7 8073	471,429 44,911,6733		266.75 36,971,048
Refunds		1,043,469 34,628,875		666,857		487,832 44,423,841°		489,494 3 6. 481,554

¹Totals include 7 corporations paying \$18,007 in taxation, grouped to conceal net income and identity of tax payers. ²Totals include 5 corporations paying \$16,548 in taxation, grouped to conceal net income and identity of tax payers. ²Totals include 4 corporations paying \$12,367 in taxation, grouped to conceal net income and identity of tax payers. ²Totals include 6 corporations paying \$3,053 in taxation, grouped to conceal net income and identity of tax payers.

42.—Income Tax Paid, by Occupations of the Tax Payers, fiscal years ended Mar. 31, 1929-32.

1.--INDIVIDUALS.

Income Class.	19	29.	193	30.	19	31.	19	32.
Income Class.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount,
Agrarians	3,111 6,771 87,469 9,229	1,621,398 7,838,590	7,439 95,828	1,716,675 8,836,416	7,448 99,658	1,913,761	6.512 96,272	1,893,161 8,355,336
sale	1,411 1,001 171 8,645	245,454 47,949	1,140 243	263.525 79.677	1,563 947 174 9,278	225,135 57,942	823 147	162,354 21,331
tions. Family corporations. All others. Unclassified	644 2,247 8,964	1,269,858	3,129 9,186	1,881,138	ĺ	1,953,544	2,626 8,001	1,993,797
Totals Refunds	129,663	25, 350,62 0 597,222	142,154	27,759,999 522,497	143,601	27,205,087 580,906	133, 621	25, 283, 914 511, 068
Net Totals	129,663	24,793,398	142,154	27,237,502	143,601	26,624,181	133,621	24,772,846
		5	2.—CORP	RATION	s.			
Agrarians	83 1,478	2,546,367						
sale	1,019 2,427 244 886	17.121,952 2,656,326	1.071 2.502 309 1,021		2,475	2,975,641 21,988,645 4,211,330 4,261,232		
public utilities All others Unclassified	386 915		358 1,034		345 959 -		312 979	
Totals Refunds	7,438	35,672,344 1,043,469	7,957	42,450,081 666,857	7,583	44,911,673 487,832	6,010	36,971,048 489,494
Net Totals	7,438	34,628,875	7,957	11,783,224	7,603	44, 423, 841	6,010	36, 481, 554
Grand Totals, Individuals and								

- 69,020,726

- 71,048,022

- 61,254,400

- 59,422,273

Corporations...

Subsection 3.—Outside Capital Invested in Canada and Canadian Capital Invested Elsewhere.¹

An estimate of the outside capital invested in Canada and the Canadian capital invested outside of the Dominion is now prepared annually by the Internal Trade Branch of the Dominion Bureau of Statistics. Any estimate of this character is liable to a margin of error, but the utmost care has been taken in the computation and it is believed that the figures approximate fairly to actual conditions. More complete information is being obtained from year to year, enabling corrections to be made in previous estimates such as were published at p. 836 of the 1929 Year Book. Details of the investment of outside capital in Canada according to the latest revision (February, 1932) are given for the last five available years in Table 43.

It is estimated that the total investment of British and foreign capital in Canada on Jan. 1, 1931, was \$6,477,879,000. Of this sum, \$2,204,857,000 was British capital, \$4,107,803,000 was from the United States and \$165,217,000 from other countries. Though these totals are large, it should be remembered that the national wealth of the Dominion in 1929 is estimated at \$30,840,210,000 exclusive of the value of those undeveloped natural resources in which some of the outside capital is invested, and that it is inevitable that at the present stage Canada should seek the assistance of outside capital to develop the unexploited natural resources of the Dominion.

It must also be borne in mind that Canadians have invested large amounts of capital abroad. The Bureau estimates that Canadian investments in other countries amounted to \$1,831,310,000 at the beginning of 1931, or nearly 30 p.c. of the amount of outside investments in Canada. Of this \$1,047,285,000 was placed in the United States, \$84,826,000 in Great Britain and \$699,198,000 in other countries. (Table 44.)

It is estimated that the amount of business capital employed in Canada is \$17,500,000,000. This sum includes the bonded indebtedness of Dominion, Provincial and municipal governments, investments in railways, all manufacturing concerns, mines and metal industries, public utilities, trading establishments, finance, insurance, land and mortgages. It does not include private capital in domestic enterprises such as farms, homes, etc. Of this sum it is estimated that 65 p.c. or \$11,500,000,000 is owned in Canada; 21 p.c. or \$3,725,000,000 in United States; 13 p.c. or \$2,228,000,000 in Great Britain; 1 p.c. or \$171,000,000 in other countries.

If the basis of comparison is total national wealth, British and foreign investments decrease in significance. Canada's national wealth in 1930 was probably \$30,000,000,000; net British and foreign investments in Canada were about \$4,647,000,000 or 15½ p.c. of the total.

¹Revised by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics. For a list of the publications of this Branch see Chapter XXIX, under "Internal Trade".

43.—Estimated British and Foreign Investments in Canada, Jan. 1, 1927-31. (000's omitted.)

Public Utilities						
Reservement Securities Chominion Provincial and Municipal 1,190,772 1,190,492 1,179,027 1,184,670 1,302,941 Public Utilities Traction 1,439,642 1,504,825 1,537,924 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,738,694 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,674,885 1,67	Type of Investment.	Jan. 1, 1927.	Jan. 1, 1928.	Jan. 1, 1929.	Jan. 1, 1930.	Jan. 1, 1931.
Provincial and Municipal 1,190,772 1,199,492 1,178,077 1,194,876 1,392,941 Pable Utilities Raiways 1,439,642 1,504,825 1,537,924 1,674,865 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064 1,738,064						
Railways	Provincial and Municipal)	1,190,772	1,199,492	1,179,027	1,184,670	1,302,941
Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation		1,439,642	1,504,825	1,537,924	1,674,865	1,738,064
Pulp, Paper and Lumber. 395, 966 475, 343 510, 531 520, 248 560, 248 Mining. 214, 666 226, 150 273, 912 231, 600 285, 100 Metal Industries 426, 236, 246, 348 469, 448 460, 448 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 458 460, 45	Other Public Utilities (Traction, Light, Heat, Power, Telephone, etc.)	559,839	593,944	573,464	628,230	708,658
Metal Industries	Puls Paper and Lumber	395,956	475,343	510,531	520, 248	560,248
Finance and Insurance	Mining. Metal Industries	214,606 542,580	543, 203	561,966	546,915	558,366
Finance and Insurance	All other industries	452,833	469,348	490,469	492,376	
Totals	Finance and Insurance		189,480	192,304	209,022	255,000
Provincial and Municipal April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April April A	Land and Mortgage	325,000	334,346	338.029	338,033	339,635
Provincial and Municipal	Totals	5,491,859	5,758,664	5,897,379	6, 125, 959	6,477,879
Provincial and Municipal	Investments by Great Britain-					
Rajiwaya	Provincial and Municipal)	495,577	478,825	475,595	477,296	466,291
Color Public Utilities Clraction Light, Heat, Power, Telephone, etc. 151,514 152,852 106,665 116,889 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880 130,880	Public Utilities— Railways	862,315	867,080	870,523	898,523	898,523
Pulp, Paper and Lumber 131,017 132,232 100,000 110,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000	Other Public Utilities (Traction, Light, Heat, Power, Telephone,					100.000
All other Industries	etc.)	191,814	1		· ·	
All other Industries	Pulp, Paper and Lumber	68,496 31,794	75,902		75,299 52,800	75,299 52,800
All other Industries	Metal Industries	42,366	42,496	42,976	45,576	45,576
Finance and Insurance	All other Industries	167,084	171,691	177,706		172,819 75,000
Totals	Finance and Insurance	97,800	112,930	108, 459	118,446	96.911
Investments by United States	Land and Mortgage	187,000	189.998	189, 156	189, 158	190,758
Government Securities Chominion Provincial and Municipal S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula S49,866 Formula	Totals	2,155,163	2,187,045	2,157,938	2,328,034	2,204,857
Provincial and Municipal) 683,995 709,257 692,022 695,973 825,149 Public Utilities— Railways 549,866 608,817 638,383 743,074 806,274 Other Public Utilities (Traction, Light, Heat, Power, Telephone, etc.) 394,934 428,148 453,482 496,740 556,594 Industries— Pulp, Paper and Lumber 319,979 392,763 427,646 438,104 478, 104 Mining 177,747 184,753 218,637 220,000 233,500 Metal Industries 489,930 490,363 588,659 489,945 501,396 All other Industries 276,223 284,141 298,124 298,410 287,715 Trading Eatablishments 153,687 157,524 188,535 170,000 170,000 Finance and Insurance 50,431 61,771 70,383 76,641 151,113 Land and Mortgage 88,000 93,352 97,956 97,958 97,958 Totals 3,184,792 3,410,889 3,571,827 3,728,745 4,107,803 Investments by Other Countries— Government Securities (Dominion, Provincial and Municipal) 11,201 11,409 11,409 11,500 11,500 Public Utilities— Railways 27,459 28,924 29,017 33,267 33,267 Other Public Utilities (Traction, Light, Heat, Power, Telephone, etc.) 13,391 12,944 13,317 14,610 16,184 Industries— Pulp, Paper and Lumber 7,482 6,679 6,874 6,845 6,845 Mining 5,136 6,840 7,799 8,800 8,800 Metal Industries 9,526 13,516 14,639 14,920 14,243 Trading Establishments 4,536 4,496 4,999 5,000 5,000 Finance and Insurance 12,390 14,779 13,462 13,835 7,067 Land and Mortgage 50,000 51,000 50,917 50,917	Investments by United States—		•		İ	
Railways	Provincial and Municipal)	683,995	709,257	692,022	695,873	825,149
Other Public Utilities (Traction, Light, Heat, Power, Telephone, etc.) 394,934 428,148 453,482 496,740 556,594 Industries—Pulp, Paper and Lumber 319,979 392,763 427,646 438,104 478,104 Mining 177,747 184,753 216,637 220,000 233,500 Metal Industries 289,300 490,363 556,594 489,945 501,396 All other Industries 276,223 284,141 298,124 298,410 287,715 Trading Establishments 153,887 157,524 188,535 170,000 170,000 Finance and Insurance 50,431 61,771 70,383 76,641 151,113 Land and Mortgage 88,000 93,352 97,956 97,958 97,958 Totaks 3,184,782 3,410,889 3,571,827 3,728,745 4,107,803 Investments by Other Countries—Government Securities (Dominion, Provincual and Municipal) 11,201 11,409 11,409 11,500 11,500 Pulse, Heat, Power, Telephone, Other Public Utilities 13,391	Dailmann	549,866	608,817	638,383	743,074	806,274
Pulp Paper and Lumber 319.979 392.763 427.646 438.104 478.104 Mining 177.747 184.753 216.637 220.000 233.500 Metal Industries 489.930 490.363 508.659 489.945 501.396 All other Industries 276.223 284.141 298.124 298.410 287.715 274.724 288.124 298.410 287.715 287.715 288.535 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000 170.000	Other Public Utilities (Traction, Light, Heat, Power, Telephone.	201.001		450 450	*** ***	
Pulp, Paper and Lumber 319, 979 392, 763 427, 646 438, 104 478, 104 Mining 17,747 184, 753 218, 637 229, 000 223, 500 Metal Industries 489, 930 490, 363 508, 659 489, 945 501, 396 All other Industries 276, 223 284, 141 298, 124 298, 410 287, 715 Trading Establishments 153, 687 157, 524 186, 535 170, 000 170, 000 Finance and Insurance 50, 431 61, 771 70, 383 76, 641 151, 113 Land and Mortgage 88, 000 93, 352 97, 956 97, 958 97, 958 77, 654 152, 113 154, 113 154, 113 154, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 155, 113 1	Industries -	394,934	•	453,482	i) 236,394
All other Industries. 276,223 284,141 298,140 287,715 Trading Establishments 153,887 157,524 168,535 170,000 170,000 Finance and Insurance. 50,431 61,771 70,383 76,641 151,113 Section 13,400 93,352 97,856 97,958 97,958 Totals. 3,184,792 3,410,889 3,571,827 3,728,745 4,107,803 Investments by Other Countries— Government Securities (Dominion, Provincial and Municipal) 11,201 11,409 11,409 11,500 11,500 Public Utilities— Railways. 27,459 28,924 29,017 33,267 33,267 Other Public Utilities (Traction, Light, Heat, Power, Telephone, etc.) 13,391 12,944 13,317 14,610 16,184 Industries— Pulp, Paper and Lumber 7,482 6,679 6,874 6,845 6,845 Mining. 5,136 6,840 7,799 8,800 8,800 Metal Industries. 10,223 10,343 10,330 11,394 11,394 All other Industries. 9,526 13,516 14,639 14,920 14,243 Trading Establishments 4,536 4,496 4,999 5,000 5,000 Finance and Insurance. 12,390 14,779 13,462 13,335 7,067 Land and Mortgage 50,000 51,000 50,917 50,917	Puln Penerand Lumber	319,979	392,763		438,104	478,104
All other Industries. 276,223 284,141 298,140 287,715 Trading Establishments 153,887 157,524 168,535 170,000 170,000 Finance and Insurance. 50,431 61,771 70,383 76,641 151,113 Section 13,400 93,352 97,856 97,958 97,958 Totals. 3,184,792 3,410,889 3,571,827 3,728,745 4,107,803 Investments by Other Countries— Government Securities (Dominion, Provincial and Municipal) 11,201 11,409 11,409 11,500 11,500 Public Utilities— Railways. 27,459 28,924 29,017 33,267 33,267 Other Public Utilities (Traction, Light, Heat, Power, Telephone, etc.) 13,391 12,944 13,317 14,610 16,184 Industries— Pulp, Paper and Lumber 7,482 6,679 6,874 6,845 6,845 Mining. 5,136 6,840 7,799 8,800 8,800 Metal Industries. 10,223 10,343 10,330 11,394 11,394 All other Industries. 9,526 13,516 14,639 14,920 14,243 Trading Establishments 4,536 4,496 4,999 5,000 5,000 Finance and Insurance. 12,390 14,779 13,462 13,335 7,067 Land and Mortgage 50,000 51,000 50,917 50,917	Metal Industries	489,930	490,363	508,659	489,945	205,300 501,396
Totals		276,223	1 284 [4]		298,410	287,715
Totals	Finance and Insurance	50,431	61.771	70.383	76,641	170,000
Investments by Other Countries	Land and Mortgage	88,000	93,352	97,956	97,958	97,958
Public Utilities			3,410,889	3,571,827	3,726,745	4,107,803
Public Utilities	Investments by Other Countries—		1	1	}	
Railways	Provincial and Municipal)	11,201	11,409	11,409	11,500	11,500
Industries		27,459	28,924	29,017	33,267	33,267
Industries	Light, Heat, Power, Telephone,				l	
All other Industries. 9,526 13,516 14,639 14,920 14,243 Trading Establishments 4,536 4,496 4,999 5,000 5,000 Finance and Insurance. 12,890 14,779 13,462 13,935 7,067 Land and Mortgage. 50,000 51,000 50,917 50,917 50,917	Industries—	10,091	1			16, 184
All other Industries. 9,526 13,516 14,639 14,920 14,243 Trading Establishments 4,536 4,496 4,999 5,000 5,000 Finance and Insurance. 12,890 14,779 13,462 13,935 7,067 Land and Mortgage. 50,000 51,000 50,917 50,917 50,917	Pulp, Paper and Lumber	7,482	6,679	6,874	6,845	6,845 8 800
All other Industries. 9,526 13,516 14,639 14,920 14,243 Trading Establishments 4,536 4,496 4,999 5,000 5,000 Finance and Insurance. 12,890 14,779 13,462 13,935 7,067 Land and Mortgage. 50,000 51,000 50,917 50,917 50,917	Matal Industrian	1 10 999	10,343	10,330	11,394	11,394
	All other Industries	9,526	13.516	14,639] 14,920	14.243
	Finance and Insurance	12,890	14,779	13,462	13,935	7,067
Totals	Land and Mortgage	50,000	51,000	50,917	50,917	50,917
	Totals	151,904	160,730	162,613	171,188	165,217

44.—Estimated Total Investments of Canadian Capital in British and Foreign Countries, as at Jan. 1, 1928-3t.

(000's omitted.)

			(0078	outroed.)				
Item.		Jan. 1	, 1928.		·	Jan. 1	, 1929.	
Item.	Great Britain.	United States.	Other Countries.	Total.	Great Britain.	United States.	Other Countries.	Total.
Canadian Govern- ment credits and	\$	\$	8	\$	\$	\$	\$	\$
Balances of chart- tered banks abroad	7,779 47,689	7,032	32,433 47,689	47,244 ! 238,447	2,869 37,519	23,842 112,558	31,099 37,520	57,810 187,597
Foreign securities held by banks	46,881	33,356	15,455	95,682	24,662	13,775	28,926	67,363
Investments of in- surance compan- ies abroad	18,016	175,871	92,082	285,969	18,483	180,436	94,472	293,391
Direct industrial investments	1,700	168,213	127,905	297,818	1,000	144,490	183,642	329, 132
Miscellaneous	9,850	347,085	256,979	613,914	9,850	512,085	281,979	803,914
Totals	131,915	874,626	572,543	1,579,074	94,383	987,165	657,638	1,735,207
Item.		Jan. 1	, 1930.			Jan. 1	, 1931.	
	Great Britain.	United States.	Other Countries.	Total.	Great Britain.	United States.	Other Countries.	Total.
Canadian Govern- ment credits and balances abroad	3	\$ 15,478	\$ 30,834	\$ 46,731	\$ 670	\$ 27,576	\$ 30,725	\$ 58,971
Balances of chart- ered banks abroad	19,599	58,799	19,599	97,997	13,840	41,520	13,840	69,200
Foreign securities held by banks	25,927	15,466	26,711	68,104	29,566	36,254	28,411	94,231
Investments of in- surance compan- ies abroad	22,079	215,537	112,851	350,467	27,900	272,36 0	142,601	442,862
Direct industrial investments	1,000	154,490	198,642	354,132	1,000	152,490	198,642	352,132
Miscellaneous	11,850	562,085	289,979	863,914	11,850	517,085	284,979	813,914
Briscenaucous,,,,	11,000	002,000	200,713	800,814	11,000	011,000	201,515	010,011

CHAPTER XXII—CURRENCY AND BANKING; LOAN AND TRUST COMPANIES.

Section 1.—Canada's Monetary System.

Historical.—Early trade in Canada was carried on by barter, which at times resulted (e.g., in transactions between Indians and fur traders) in the adoption of beads, blankets, etc., as recognized media of exchange. Later, during the French period in Canada, while barter still formed perhaps the most important means of exchange between individuals and merchants, a more or less satisfactory currency system developed. Beaver and other furs, tobacco and wheat were at times used as substitutes for currency, the last named being at one time a legal tender. A makeshift currency system was also developed during the French régime when playing cards, stamped with a value and redeemable yearly on the receipt of bills of exchange on Paris, came into circulation. Other paper money was also issued, and the total amount outstanding at the time of the cession was estimated at 80,000,000 livres, which was nearly all lost to its holders.

The British Government next sought to establish a uniform standard of colonial currency, but since at this time French coinage again began to come into circulation and the Spanish dollar also rivalled the English shilling as the most common medium of exchange, this was not universally possible. English sovereigns were overrated in terms of dollars in an endeavour to encourage their circulation. A rate of 5s. to the dollar was set in Halifax and was in use in government accounting systems, while in Montreal, York currency (the rates prevalent in New York), giving the dollar an exchange value of 7s. 6d. or 8s., was in common use.

Canadians again became more or less familiar with the characteristics of paper money as a result of the experiences of the various neighbouring Northern States during the first half of the nineteenth century. During the war of 1812 this familiarity was increased by the establishment of an army bill office, issuing bills of various denominations, redeemable on presentation. The growing volume of trade between Canada and the United States also resulted in a tendency toward a decimal coinage, and in 1853 a measure was passed providing for the adoption of a decimal currency, with a dollar equivalent to the United States dollar; the British sovereign was made legal tender at \$4.86\frac{2}{3}. An Act of 1857 requiring all government accounts to be kept in dollars and cents came into force on Jan. 1, 1858; the formal adoption of decimal currency in the Province of Canada dates from that time.

By the Uniform Currency Act of 1871 (34 Vict., c. 4), the decimal currency was extended throughout the Dominion, the British sovereign was made legal tender for \$4.86\frac{2}{3}\$ and the United States eagle, legal tender for \$10, while authority was given to coin a Canadian \$5 gold piece. No Canadian gold coinage was issued, however, prior to the establishment of the Canadian branch of the Royal Mint in 1908, the first coins then struck being sovereigns similar to those of Great Britain, but with a small "C" identifying them as having been coined in Canada. In May, 1912, the first Canadian \$10 and \$5 gold pieces were struck, but the Canadian gold coinage has so far been limited in amount, since Canadians have generally preferred Dominion notes to gold for use within the country and, when gold is needed for export, bullion or British and United States gold coin serve the purpose equally well.

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The Royal Canadian Mint.-The Ottawa Mint, established as a branch of the Royal Mint under the (Imperial) Coinage Act. 1870, and opened on Jan. 2, 1908, was by 21-22 Geo. V. c. 48, constituted a branch of the Department of Finance, and by the Proclamation of Nov. 14, 1931, issued under Section 3 of that Act, it has since Dec. 1, 1931, operated as the Royal Canadian Mint. At first the British North American provinces, and later the Dominion of Canada, obtained their coins from the Royal Mint in London or from The Mint, Birmingham, Ltd., and in its earlier years the operations of the Mint in Canada were confined to the production of gold, silver and bronze coins for domestic circulation, of British sovereigns, and of small coinages struck under contract for Newfoundland and Jamaica. Previous to 1914 small quantities of gold bullion were refined, but during the War the Mint came to the assistance of the British Government by establishing a refinery in which nearly twenty million ounces of South African gold were treated on account of the Bank of England, and the subsequent great development of the gold-mining industry in Canada has resulted in gold-refining becoming one of the principal activities of the Mint. Gold coins have never been a popular medium of exchange in Canada and have not been struck since 1919, most of the fine gold produced from the rough shipments from the mines being delivered to the Department of Finance in the form of bars worth approximately \$8,300 each, the rest being sold in a convenient form to manufacturers. The fine silver extracted from the rough gold, when not required for coinage, is sold on the New York market or disposed of to local manufacturing firms.

The domestic currency of Canada, as at present authorized by the Currency Act, consists of: \$20, \$10, \$5 and \$2½ gold pieces, 900 millesimal fineness (only \$10 and \$5 pieces have been issued); of \$1, 50-cent, 25-cent and 10-cent silver pieces, 800 millesimal fineness; of 5-cent pieces of pure nickel (from metal produced in Canada); and of 1-cent pieces in bronze. The silver 5-cent piece is still legal tender but its coinage was discontinued in 1921; the silver dollar has never been coined.

Gold.—Gold is used only to an insignificant extent as a circulating medium in Canada, its monetary use being practically confined to reserves, but \$5 and \$10 gold pieces weighing respectively 129 and 258 grains, 9-10ths pure gold by weight, have been coined, the Canadian gold dollar thus containing 23·22 grains of pure gold. These coins were first issued in 1912, authority to issue them having been conferred in 1910. By the Currency Act, 1910 (9-10 Edw. VII, c. 14), British sovereigns, which are legal tender for \$4.86\frac{2}{3}, and other gold coins, and the \$5, \$10 and \$20 gold coins of the United States, which contain exactly the same weight of gold as Canadian gold coins of these denominations, are also legal tender. These, however, are almost entirely divided between the Dominion Government and the banks as reserves, and the chief circulating medium of the country is provided by paper and token currency.

Table 1, compiled by the Master of the Royal Canadian Mint, shows the value of the gold bullion received for treatment at the Ottawa Mint since its foundation, together with the gold coin and bullion issued. A statement of the gold, silver, nickel and bronze coinages issued to the separate provinces and to the Dominion of Canada since 1858 is published as Table 2. Table 3, compiled by the Dominion Comptroller of Currency, gives the form in which the gold has been held by the Government in recent years.

1 .- Value of Gold Builion Received for Treatment and Value of Gold Coin and Bullion Issued from the Ottawa Mint, 1908-32.

Colon des Wess	Gold Received.	Gold Coir	Issued.	Bullion Issued.	Total Issued.	
Calendar Year.	Gold Received.	Sovereigns.	Canadian.	Diffion issued.	Total Issued.	
	t	\$	ş	\$	\$	
908 to 1916		1,585,058-69	4,868,420	2,916,552-87	9,370,031-5	
917		910 07	-	1,836,741.72	1,837,651.79	
918	4,942,051-11	636,404-24	-	3,461,337.80	4,097,742.0	
919,	10,757,173-72	832,404-40	-	10,162,325+22	10,994,729-6	
920		19-47	-	11,729,633-29	11,729,652-7	
921 <i></i>	16,915,038-45	661-86	-	16,598,784.71	16,599,446-5	
922	22,474,548-41	- }	-	22.452,310-79	22,452,310.7	
923	12,687,098-94	- 1	-	13,219,784-95	13,219,784.9	
924	2,298,565-78	-	-	2,224,224-68	2,224,224.6	
925	2,492,403-07		-	2,529,713-69	2,529,713-6	
926	28.434,159-27	-	-	27,858,765-72	27.858,765.7	
927	29,936,535-82	-	-	30,013,576-98	30,013,576.9	
928,	27,392,510-27	-	-	26,980,873.75	26,980,873.7	
929	9,061,523-51	-	-	9,682,363-42	9,682,368-4	
930:	17,820,668-21	-	-	14.934.758-75	14,934,758-7	
931	35.581.117-00	-	_	35.867.937-27	35,867,937-2	
932	58,491,549.39	-	-	59,391,754-05	59,394,754.0	
Totals	655,011,731-491	3,055,458-73	4,368,420	645,640,023-42	¢52,963,902-33	

^{&#}x27;Includes \$352.898,246.78 of Bank of England gold received between 1915 and 1919. 'Includes \$353.175,583.76 of Bank of England bullion issued between 1915 and 1919.

2.—Statement of Coinage (in Dollars' and Cents' Denominations) Issued to the Dominion of Canada, 1858-1932.

					
Calendar Year.	Gold.	Silver.	Nickel.	Bronze.	Total.
Struck at Mints in England1—	\$	\$	\$	*	
New Brunswick, 1861-2-4	_	95,000	_	20,000	115,000
to Prince E iward Island, 1871	-		-	30,000	30,000
1907 Prince E Iward Island, 1871	-	.	-	10,000	10,000
Canada, 1858-1907	-	12,459,996	-	804.429	13,264,42
Totals	-	12.554,996	-	864,429	13,419,425
Struck at The Royal Mint, Ottawa-					
1908 to 1916	4,868,420	8,595,327	_	459,204	13,922,951
1917	-	1,862,200	-	116,900	1,979,100
1918	-	2,402,000	-	131,817	2,533,813
1919	\	3,258,044	-	115,100	3,373,144
1920	-	1.356,000		209.085	1,565,08
1921	-	128,000	_	60.700	188.700
1922		24,000	69,000	12,400	105,40
1923		28,000	127.000	19,300	174,30
1924	-	-	74,500	11,900	86,400
1925	-	14,000	126,000	22,100	162, 10
1926		50,000	168,500	28,200	246,700
1927		574.000	249,000	37,500	860,50
1928	-	867,000	250,000	92,100	1,209,100
1929	-	1,081,000	267.000	123,300	1,471,300
1930		326,000	164.500	13,400	503.900
1934	-	475,400	281,000	51,490	807,800
Struck at The Royal Canadian Mint, Ottawa—					
1932	-	287,000	165,000	213,200	665,206
Totals	4,868,420	33,882,967	1,941,500	2,576,921	43, 274, 925

Struck at The Royal Mint in London, or at The Mint, Birmingham, Ltd. 52230-564

3.—	Composition.	of Canadian	Gold Reserves on	Thec. 31, 1985-32.
0.	· Commontant	ui tanamian	CIUIU DESCUTES UII	17CU. 01. 1393-02.

Dec. 31,—	British Coin.	U.S. Coin.	Canadian Coin.	Bullion.	Total.
	\$		\$	3	\$
1905	3.990.717	29,494,298		· -1	33,485,015
1906	7,375,857	31.040.149	-	- 1	38,416,006
1907	5,366,478	33.529.889	- 1	-	38,896,367
1908	6,261,715	54,909,076	- 1	- !	61, 170, 791
1909	6,537,227	62,988,474	- 1	-	69,525,701
1910	6,304,524	68, 261, 279	l <i>-</i> l	222,934	74,788,737
1911,	6,900,095	93,507,764		222,934	100,630,79
1912,	4,554,691	98,648,736	650, 185	222,934	104,076,540
1913	6,391,375	106,642,969	2,118,210	222,934	115,375,48
1914	4,482,524	86.382,620	3,440,150	820,345	94,625,639
1915	29,606,990	86,516,595	3,436,095	775,201	120,334.88
1916	29,333,111	86,034,920	3,426,760	803,002	119,597,69
1917	27,476,790	77,899,494	3,413,465	11,352,856	120, 142, 60
1918	27,362,255	75,785,665	3,411,465	14.701,439	121,260,82
	27,661,192	60,988,110	3,408,310	27, 154, 222	119,211,83
1920	26.728,016	35.896.485	3,387,125	35.090,344	101, 101, 97
1921	26.729,501	35,896,305	3,385,690	18.558,557	84,570,05
1922	26,730,576	67,941,550	3.340,650	34.572,504	132,585,28
1923	27,212,790	41,090,395	3.336,490	46,026,852	117,666,52
1924	26,342,019	77, 173, 105	3,327,125	34,905,387	141,747,63
1925		67, 135, 310	3,315,730	37,512,195	137,858,17
1926	32,133,941	72,423,610	3,221,930	23,415,643	131, 195, 12
1927	28,948,085	51,179,390	3,089,010	47,516,079	130,732,56
1928	34,163,297	31,018,97 0	2.931,835	25.202,771	93,316,87
1929	32,164,284	10,995,220	2.801.520	17.034,256	62,995,28
1930	30,634,058	28.748.085	2,733,150	34,096,809	96, 212, 10
1931	17,736,296	4.270.780	2,732,880	42,220,192	66,960.14
1932	17,638,240	4,271,355	2,704,930	48,429,889 1	73,044,41

Token Currency.—Canadian silver dollars weighing 360 grains, 37-40ths fine, are provided for by the Currency Act of 1910, but no silver dollars have ever been struck by the Mint. Fifty-, 25-, 10-, and 5-cent pieces of weight proportionate to their respective fractions of the dollar, and of the same fineness, are in circulation, but, by c. 9 of the Statutes of 1920, the standard of fineness was reduced to 8-10ths. In 1921 the coinage of a nickel 5-cent piece weighing 70 grains was authorized. Silver coins are legal tender only up to ten dollars, nickel coins to five dollars, and bronze coins to twenty-five cents. Table 4 shows the net issue of silver and bronze coins (that is, the value issued less the value withdrawn), by years from 1901.

4.—Circulation in Canada of Silver and Bronze Coin, Dec. 31, 1991-32.

Note.—Figures supplied by the Royal Canadian Mint.

Net Amounts of Bronze Not Amounts of Silver Amounts 4 mounts Coin Issued.1 per bead. Coin Issued.1 per head. Dec. 31.-R. C. Col. Col. Col. Col. During the Since During Since A. в. D. 1858. 1858. the Year. Year. cts. cte. 0.8 cts. 12·6 12·8 13·2 420,000 8,279,924 9,053,924 7.8 1.54 41,000 676,429 1901 1902..... 774,000 14·Ĭ 1.65 30,000 706, 429 Ď.Ď 746,429 0.7 1903..... 633.850 9,687,774 10,037,774 11.2 1.71 40,000 13 - 2 6.0 25,000 20,000 350.000 1.72771,429 0.4791,429 Ď-8 13.2 450,000 10,487,774 13-0 41,000 832,429 0.7 807.461 11,295,235 1.82 13.4 0-5 0-8 13 · 5 13 · 4 12,489,235 12,527,776 32,000 21,604 864,429 886,033 1,194,000 38,541 18-6 1.95 0.6 1.8913, 176, 476 648,700 39,300 925.333 0.6 13 6 14,327,662 16.5 2.05 42.020 967.353 0.6 13.8 1,151,186 2.18 54,275 1,021,628 0.8 14-2 18.6 1,343,001 15, 670, 663 Ŏ∙7 O∙7 14·5 14·8 49,977 1,071.605 1,303,237 16,973,900 17,901,031 17.7 2.30 1,127,177 1,162,234 12·2 7·9 2.35 927, 131 55.572626, 1982.35 35,057 14.8 18,527,229 1.212.588 50.354 15.2 18,588,573 0.8 61.344

'These figures of net amounts of coin issued show the values issued less the values withdrawn and to this extent do not correspond with the figures shown in Table 2.

4.—Circulation in Canada	of.	Silver	and	Bronze	Coin.	Dec.	31.	1901-32-	-concluded.
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Dec. 31,		Net Amounts of Silver Coin Issued.		Amounts per head.		Net Amounts of Bronze Coin Issued.		Amounts per head.	
200.01,	A. During the Year.	B. Since 1858.	Col.	Col. B.	C. During the year.	D, Since 1858.	C₀l. C.	Col. D.	
1916	1,790,941 2,329,091 3,196,027	\$ 19,768,089 21,659,030 23,888,121 27,084,148 28,384,850	cts. 14·7 22·2 28·6 38·5 15·2	\$ 2.47 2.68 2.93 3.26 3.32	\$ 110,646 116,800 131,777 115,011 208,961	\$ 1,323,234 1,440,034 1,571,811 1,686,822 1,895,783	cts. 1·4 1·4 1·6 1·4 2·4	cts. 16·5 17·9 19·3 20·3 22·2	
1921 1922 1923 1924 1925	40, 191 - -	28,344,659 28,151,444 ² 28,052,347 ² 27,863,502 ² 27,713,019 ²	0+5	3·22 3·16 3·11 3·05 2·98	60,543 11,742 19,118 11,430 21,854	1,956,326 1,968,068 1,987,186 1,998,616 2,020,470	0·7 0·1 0·2 0·1 0·2	22·2 22·1 22·1 21·9 21·7	
1926. 1927. 1928 1929 1930.	633, 429 900, 282	27,433,4632 27,104,5347 27,737,963 28,638,195 28,562,3302	6·4 9·0	2·90 2·81 2·82 2·86 2·80	23,363 86,363 91,461 119,132 6,616	2,043,833 2,080,196 2,171,657 2,290,789 2,297,405	0·2 0·4 0·9 1·2 0·1	21 · 6 21 · 6 22 · 1 22 · 8 22 · 5	
1931 1932	144,018 147,392	28,706,348 28,853,740	1·4 1·4	2·77 2·75	48,649 212,908	2,346,054 2,558,962	0·5 2·0	22·6 24·4	

The figures for net amounts of coin issued show the values issued less the values withdrawn and to this extent do not correspond with the figures shown in Table 2.
The decreases shown in recent years are due to the withdrawal of worn and mutilated silver coins

from circulation.

Dominion Notes.—At the present time Dominion notes may be issued under any one of three statutory authorities: (1) the Dominion Notes Act (R.S.C. 1927, c. 41), which requires a gold reserve of 25 p.c. to be held against the first \$50,000,000 of notes issued and full gold coverage against any issue in excess of \$50,000,000; (2) the Finance Act (R.S.C. 1927, c. 70), Part II of which authorizes the Minister of Finance to advance to any chartered bank or to the savings banks of Quebec, Dominion notes to any amount on the pledge of approved securities deposited with the Minister. These advances bear interest and no gold coverage is required to be held on Dominion notes so advanced; (3) Chap. 4 of the Statutes of 1915, authorizing the Government to issue Dominion notes to the amount of \$26,000,000 without gold coverage, but partly covered by the deposit of \$16,000,000 of railway securities guaranteed by the Dominion Government.

Dominion notes are of two types, those in general circulation and those used only in inter-bank transactions, the latter being described as "special" notes. Notes in general circulation are of the denominations 25 cents, \$1, \$2, \$4, \$5, \$50,

The following is an outline of Canadian legislation respecting the issue of notes. After Confederation, by an Act of 1858 (31 Vict., c. 46), authority was given for the issue of notes to the extent of eight million dollars. The reserve was fixed at 20 p.c. up to a circulation of five millions; beyond that, 25 p.c. to be held as reserve. The law of 1870 (33 Vict., c. 10) authorized a limit of nine million dollars. The reserve was fixed at 20 p.c., but the nine millions were only to be issued when the specie amounted to two millions. Dollar for dollar was to be held beyond nine millions. In 1872 (35 Vict., c. 7) the reserve for the excess over nine millions was fixed at 35 p.c. in specie. This was amended in 1875 (38 Vict., c. 5) by requiring dollar for dollar beyond twelve millions; for the reserve between nine and twelve millions of p.c. in specie was to be held. In 1876 the law respecting Dominion notes was extended to the provinces of Prince Edward Island, British Columbia and Manitoba. In 1880 (43 Vict., c. 13) the basis of the present standard was established. A reserve of 25 p.c. in gold and guaranteed debentures was required, of which 15 p.c. at least was to be in gold. The limit was raised to twenty millions dollars. In 1894 (37-53 Vict., c. 21) the limit was raised to twenty-five millions, but this was found unworkable and was repealed in 1895 (38-59 Vict., c. 16), and authority was given to issue notes to any amount over twenty millions, on holding dollar for dollar beyond that sum. In 1903 (3 Edw. VII, c. 43) the Minister of Finance was required to hold gold and guaranteed debentures of not less than 25 p.c. on Dominion notes issued and outstanding up to thirty millions be was required to hold gold equal to the excess. The Dominion Notes Act of 1914 (5 Geo. V, c. 4), passed in the short was session of August, 1914, provided that a gold reserve of not less than 25 p.c. should be held against issues of Dominion notes up to \$50,000,000 and dollars beyond thirty millions he was required to hold gold equal

\$500, \$1,000, but for a considerable time no notes of \$4, \$50 or \$100 denomination have been issued. "Special" notes are mainly of \$5,000 or \$50,000 denominations, \$1,000 "specials" being no longer issued. The amounts of each denomination of both types of notes in circulation are given, as at Mar. 31 of each recent year, in Table 7, while Tables 5 and 6 are concerned with gold reserves.

5.- Dominion Notes Outstanding and Reserves as at June 30, 1890-1832.

	 	Notes	Outstanding,	Reserves	Notes Outstanding	Percentage of Specie		
As at	Small	l 7 I	Т	otals.		Oi VOS	Uncovered	Reserves
June 30→	Notes,	Large Notes,				Specie.	bу	to Notes Out-
	\$1,2,4 and 5, and	\$50, 100, 500,	1	Per	Index	*	Specie. ⁵	standing.
	Fractionals.2	1,000, 5,000	Amount.	capita.	No.4		ļ	
	<u> </u>	!i						
	*		\$	\$		*	} *	p.c.
1890		8,691,950	15,857,892	3.21	65	3,285,515		21 24
1891	6,768,666	9,407,650 10,384,850	16, 176, 316 17, 282, 698	3.34 3.54	68	3,887,027	10,452,623	24 29
1892 1893		11,311,750	18,448,493	3.74	72 78	5,061,577 6,449,348	10,414,455 10,052,479	
1894	6,967,818	[13,093,900]	20,061,718	4.03	. 82	8,292,405	9,822,647	41
1895	7,059,331		19,520,231	3.88	79	7,761,084	9,812,481	40
1896	7,377,096	12,995,100	20,372,196	4.01	81	8,758,252		43
1897 1898	7,519,345 8,157,243	14,798,750 14,020,950	22,318,095 22,178,198	4.36 4.28	89 87	10,723,649 10,813,739	9,650,780 9,417,788	48 49
1899	8,770,165	15,466,300	24, 286, 465	4.63	94	13,061,775	9,228,024	54
1900			26,094,923		100			
1901	10,161,809	17,736,700	27,898,509	5-19	105		11,394,769	52
1902	11,029,985		32,780,385		121	18,901,639		
1903 1904		26,832,950 28,992,950	39,006,198 41,574,788	6 · 91 7 · 13	140 145	25,930,594 23,422,625		66 56
1905	13,045,820		47,334,220	7.88	160	28,890,837		
1906	14,633,576	35,807,850	49.941,426	8-06	164	29,013,931	18,980,829	58
1907	15,939,131	42,377,400	58,316,531	9.09	185	34,989,270	21,380,595	60
1908	15,279,675	47,778,450	63,058,125		194			62
1909 1910		63,145,150 71,414,250	79,005,299 89,285,727		236 250	55,363,266 66,409,121		
1911			99,308,945		280	' '		
1912		88,949,650	111,932,238	15.14	308	92,442,098		82
1913	28,845,737	87,517,800	116,363,537	15.24	310	94,943,499	21,420,038	81
1914	24.586,448	89,595,650	114, 182, 098		294	92,663,575	21,518,523	81
1915	· ·	· ·	152, 120, 735		385	89,573,041	62,547,693	1
1916	27,283,425	148,213,750	175,497,175	21-93	446			
1917	29,498,469 32,623,514	149,069,600 248,716,000	178,568,009 281,339,514	22 · 15 34 · 52	450 701	119,110,113 114,951,618		
1919	35,084,194		300,749,844	36.19	736			39
1920	37,203,890		292,016,290		694	95,538,190	196,478,100	39 33
1921			268,769,184	30-58		83,854,487	184,914,697	31
1922			232,748,411		5 30	85,495,068	147, 253, 843 113, 120, 708	37 52
1923 1924			234,146,433 210,308,592		528 467	121,025,725 96,732,954	113,120,706	PZ 46
1925			208,391,477		456			
1926	32,512,285	143,200,630	175,712,915	18.58	378	94,999,481	80,713,434	54
1927	33,845,891	143, 160, 024	177,005,915	18-37	373	105.700.181	1 71.805.734	60
1928	35.051,708		200,755,358	20.42	415	80,756,302	119,999,056	
1929 1930,	37,159,177 37,029,484		209,962,827 174,218,634	20-939 17-07	425 347	58,931,581 65,719,661	151,031,246 108,498,973	
1981	35,288,858	110,028,650	145,317,003		285	70,534,481	74,782,522	49
1932		129, 686, 650	168, 273, 521		325	64, 849, 441		39
	 	i				<u> </u>	!	<u>' </u>

¹Includes Dominion notes in the Central Gold Reserves as security for bank note circulation. ²Includes provincial notes amounting to \$32,857 in 1890 and reduced to \$27,594 on June 30, 1932.

Includes issue of \$50,000 notes, 1919-32.

Per capita circulation in 1900 is taken as 100.

The circulation uncovered by specie reserve was to a considerable extent covered, between 1890 and 1910, by the holdings of guaranteed debentures amounting to \$1,946,666. Since 1914 a part of the issue of Dominion notes outstanding has been covered by the holding of securities approved under the Finance Act,

6.-Gold Held by the Minister of Finance, calendar years, 1919-32.1

Calendar Year.	Gold Reserve Held on Postal Savings Bank Deposits.3	Gold Held for Redemption of Dominion Notes.	Total Gold Held by Minister of Finance.
	*	\$	\$
1919 1920 1921 1922 1922 1923 1924 1925 1926 1927 1928 1927 1938 1929 1930	4,067,897 3,666,009 3,293,287 3,154,358 3,308,575 3,241,490 3,162,930 3,083,440 2,994,001 2,709,169 2,483,959 2,485,630	118, 489, 693 98, 751, 773 84, 568, 064 89, 939, 108 120, 651, 627 107, 257, 428 119, 744, 819 109, 369, 550 107, 417, 631 89, 218, 454 59, 345, 223 79, 000, 227 74, 209, 510 66, 854, 214	123, 399, 367 102, 819, 670 88, 234, 073 93, 232, 395 123, 806, 985 110, 566, 003 122, 986, 309 112, 532, 480 110, 501, 071 92, 212, 455 63, 054, 402 81, 484, 256 76, 614, 540 69, 178, 460

¹Yearly averages. ²In the Savings Bank Act (c. 15, R.S.C., 1927) it is provided that the Minister of Finance shall hold 10 p.c. gold reserve against postal savings bank deposits.

7.—Denominations of Dominion Notes in Circulation, Mar. 31, 1927-32.

Denomination.	1927.	1928.	1929.	1930.	1931.	1932.
	*	\$	\$	\$	\$	\$
\$ 1	17,428,021	18,100,000				
\$ 2	12,609,981	13,039,460				
<u> </u>	33,071				31,455	
\$5	700, 147				1,125,298	5,109,547
\$50	650		650	650 ₁	650	650
\$500	1,736,000	1,791,500	1,832,000	1,907,500	2,018,000	2,491,000
\$1,000	4, 103, 000	4.244.000	4.289.000	4,569,000	4,496,000	6,143,000
\$1,000 special	433.000	281.000	427,000	479.000	609,000	6.000
\$5,000 special	9,950,000				8,255,000	7,990,000
\$50,000 special	123,800,000		155,550,000			
Fractional currency	1,346,145		1,392,463		1.326.251	1,299,856
Provincial notes	27,624		27,624	27,619	27,603	27,594
Totals	172, 167, 639	188,631,490	204,590,633	174,326,618	141,066,257	157,388,189

Bank Notes.—Bank notes form the chief circulating medium used in Canada. Under the Bank Act, the banks are authorized to issue notes of the denominations of \$5 and multiples thereof to the amount of their paid-up capital. These notes are not in normal times legal tender.

In addition, during the period of the movement of the crops (Sept. 1 to Feb. 28-29), the banks may issue "excess" circulation to the amount of 15 p.c. of their combined capital and "rest" or reserve funds. In the event of war or panic the Government may permit the "excess" to run all the year. The banks pay interest on this excess at 5 p.c. If a bank desires to extend its circulation, it may also do so by depositing dollar for dollar in gold or Dominion notes in the Central Gold Reserves.

In case of insolvency the notes of a bank are a first lien upon its assets. Notes are further secured, in case of insolvency, by the Bank Note Circulation Redemption Fund, to which all banks contribute 5 p.c. of their average circulation not covered by gold or Dominion notes deposited in the Central Gold Reserves established in 1913. The sum thus secured is available for the redemption of the notes of failed banks.

The figures of bank note circulation are given in Table 8. Table 9 brings together the statistics of the amount of circulating media in the hands of the general public, yearly averages being used where possible. "In the hands of the general public" here includes coin and small Dominion notes in the tills of the banks used for making change as well as that outstanding among the general public, but does not include Dominion notes of denominations larger than five dollars which are used almost entirely for inter-bank transactions and reserves. In both Tables 8 and 9 "bank notes in circulation" include notes of other banks held by the banks, averaging about \$11,000,000 in 1932. As for the silver, nickel and bronze coinage in Table 9, the figures are the total amounts issued by the Mint since 1858 less amounts withdrawn from circulation and therefore include amounts held by the banks as well as coins lost by the public, which over such a period would probably amount to a considerable sum.

8.—Statistics of Bank Note Circulation, calendar years, 1946-32.

Note.—The statistics in this table are averages computed from the twelve monthly returns in each year.

Figures for 1892-99 will be found at p. 861 of the 1927-28 Year Book.

Calendar Year,	Paid up	"Rest" Fund.	Bank Note Circulation Redemption Fund.	Bank Notes in Circulation.			
Calendar Tear.	Capital.	less Fund.	(Held by Minister of Finance.)	Amount.	Per capita.	Index No. per capita.	
	\$	\$	\$	\$:		
1900 1901 1902 1903 1904 1905 1906 1906 1907 1908 1919 1910 1911 1912 1913 1914 1915 1916 1916 1917	65, 154, 594 67, 035, 615 69, 809, 670 76, 453, 125 79, 234, 191 82, 655, 828 91, 035, 604 95, 953, 732 96, 147, 526 97, 329, 333 98, 787, 929 103, 009, 256 112, 730, 943 116, 297, 72 113, 982, 744 113, 175, 353 111, 637, 755 110, 618, 554	32, 372, 394 36, 249, 145 40, 212, 943 47, 761, 536 52, 082, 335 56, 474, 124 64, 002, 266 69, 806, 892 72, 041, 265 75, 837, 695 79, 970, 346 88, 892, 256 102, 090, 476 109, 129, 393 113, 130, 626 113, 020, 310 112, 989, 541 113, 560, 991 114, 041, 500	2, 221, 128 2, 487, 541 2, 832, 401 2, 971, 260 3, 237, 891 3, 448, 463 3, 923, 531 4, 304, 524 4, 249, 367 4, 317, 006 4, 844, 475 5, 853, 838 6, 211, 881 6, 693, 684 6, 756, 648 6, 811, 213 6, 324, 442 5, 817, 646	46, 574, 780 50, 601, 205 55, 412, 598 60, 244, 072 61, 769, 888 64, 025, 643 70, 638, 870 75, 784, 482 71, 401, 697 73, 943, 119 82, 120, 303 89, 982, 223 100, 146, 541 105, 265, 383 104, 690, 135 105, 137, 092 126, 691, 913 161, 029, 600 198, 645, 254	8 · 79 9 · 43 10 · 68 10 · 66 10 · 60 11 · 40 11 · 83 10 · 88 11 · 65 12 · 49 13 · 55 13 · 78 13 · 23 13 · 17 15 · 84 18 · 98 24 · 38	100 107 115 121 121 130 135 123 124 133 142 154 157 151 150 227 277	
1918 1919 1920	115,004,960 123,617,120	121, 160, 774 128, 756, 690 134, 104, 030	6,054.419 6,122,715 6,417,287	218,919,261 228,800,379	26.35 26.75 22.15	300 304 252	
1921 1922 1923 1924 1924	129,096,339 125,456,485 124,373,293 122,409,504 118,831,827	134,104,030 129,627,270 126,441,667 123,841,666 123,295,866	6,417,287 6,493.593 6,662,665 6,347,378 6,026,617	194,621,710 166,466,109 170,420,792 166,136,765 165,235,168	18.66 18.92 18.17 17.78	252 212 215 207 202	
1926. 1927. 1928. 1929.	116,638,254 121,666,724 122,839,879 137,269,085 144,560,874	125,441,700 130,320,897 134,087,485 150,636,682 160,639,246	5,790,572 5,861,646 6,027,466 6,246,861 6,590,934	168,885,995 172,100,763 176,716,979 178,291,030 159,841,085	17·87 17·86 17·97 17·78 15·61	203 203 205 205 202 178	
1931	144,674,853 144,500,000	162,075,000 162,000,000	6,825,601 6,721,355	141,969,350 132,165,942	13 · 68 12 · 58	156 143	

Circulating Media in the Hands of the General Public, calendar years, 1901—32. Norg.-Includes till money in the hands of the banks. See p. 888.

=					· · ·			
		:			Dominion	7	otals.	
Cal- endar Year,	Silver,¹	Nicket.	Brooze.1	Bank Notes. ²	Notes, ² \$1, \$2, \$4, \$5, and Fractionals. ³	Amount.	Per capita.	Index Number per capita.4
	\$	*	\$	\$	\$	\$	\$	\$
1900 1901 1902 1903 1904	7,911,998 8,279,924 9,053,924 9,687,774 10,037,774 10,487,774	111111	635,429 676,429 706,429 746,429 771,429 791,429	55,412,598 60,244,072 61,769,888	10,595,169 11,442,188 12,321,172 12,813,913	65, 119, 251 70, 152, 727 75, 615, 089 82, 999, 447 85, 393, 003 88, 804, 740	14.65	100 1 06 112 120 119 121
1906 1907 1908 1909 1910	11,295,235 12,489,235 12,527,776 13,176,476 14,372,662	-	832,429 864,429 886,033 925,883 967,353	70,638,870 75,784,482 71,401,697 73,943,119 82,120,303	15,973,227 15,615,082 16,235,774	97,564,017 105,111,373 100,430,588 104,280,702 115,513,429	15 • 74 16 • 39 15 • 16 16 • 33 16 • 52	128 134 123 125 135
1911 1912 1913 1914 1915	15,670,663 16,973,900 17,901,031 18,527,229 18,588,573		1,021,628 1,041,605 1,127,177 1,162,234 1,212,588	89, 982, 223 100, 146, 541 105, 265, 336 104, 600, 185 105, 137, 092	27,277,311 29,067,278 26,984,063	128, 171, 943 145, 469, 387 153, 360, 822 151, 253, 711 150, 819, 823	17·78 19·68 20·09 19·19 18·89	145 152 164 156 154
1916 1917 1918 1919 1920	19,768,089 21,559,030 23,888,121 27,084,148 28,384,850	•	1,323,234 1,440,034 1,571,811 1,686,822 1,895,783	126, 691, 913 161, 029, 606 198, 645, 254 218, 919, 261 228, 800, 379	31,221,311 34,146,836 35,492,643	175,640,779 215,249,981 258,252,022 283,182,874 296,353,737	21 · 94 26 · 71 31 · 68 34 · 08 34 · 63	179 218 258 278 282
1921 1922 1923 1924 1925	28,344,569 28,151,444 28,052,347 27,863,502 27,713,019	69,000 196,000 270,488 396,471	1,956,326 1,968,968 1,987,186 1,998,616 2,020,470		31,888,024 33,387,155 34,332,178	258,748,277 228,542,645 234,043,480 230,601,549 227,540,412	29 · 44 25 · 62 25 · 98 25 · 22 24 · 49	240 209 212 205 200
1926 1927 1928 1929 1930	27,433,463 27,104,534 27,737,963 28,638,195 28,562,330	564,865 813,784 1,063,627 1,330,498 1,494,525	2,043,833 2,080,196 2,171,657 2,290,789 2,297,405	168,885,995 172,100,763 176,716,979 178,291,030 159,341,085	33,689,474 35,093,625 36,811,966	231,603,330 235,788,751 242,793,302 247,362,478 228,126,713	24 · 51 24 · 47 24 · 69 24 · 66 22 · 35	200 199 201 201 182
1931 1932	28,706,348 28,853,740		2,346,054 2,558,962	141,969,350 132,165,942		211,262,353 204,306,594	20·36 19·45	166 158

¹Figures supplied by the Mint as at Dec. 31 of each year, are the net issues of coinage since 1858 (see Table 4, pp. 884 and 885).

²Yearly averages.

Per capita circulation in 1900 = 100.

Section 2.—Banking in Canada.

Historical.—In the early days of banking, one of the chief functions of banks was to issue promissory notes payable to the bearer on demand; where the bank's credit was good these notes passed freely from hand to hand, and were the chief circulating medium in the Canadas. In some cases in the Maritime Provinces bank notes were preferred to those issued by the Provincial Governments.

The need of a uniform circulating medium in Canada was felt by the merchants of Montreal toward the end of the eighteenth century, and the prospectus of a proposed bank of issue to be known as the Canada Banking Company was issued in 1792. This scheme, however, depended chiefly on the co-operation of British capital and was frustrated by the outbreak of war with France. project in 1808 for the incorporation of a Bank of Canada failed to secure the assent of the Legislature of Lower Canada.

Dominion notes of larger denominations in hands of banks are not included, but provincial notes, amounting to \$27,594 in 1932, are included.

At the close of the war of 1812 the army bill currency was withdrawn, and public attention once more turned to the expediency of securing a currency through the establishment of banks. The Bank of Montreal began business toward the end of 1817 as a private institution, under articles of association based on the first charter of the Bank of the United States. In the following year, under similar articles of association, the Quebec Bank was established, as well as the Bank of Canada at Montreal and the Bank of Upper Canada at Kingston. The three Lower Canadian institutions obtained their provincial charters in 1822, while the Bank of Upper Canada was superseded by a second Bank of Upper Canada established at York (Toronto) as a chartered bank in 1821. Meanwhile the Bank of New Brunswick had been incorporated in 1820, while in Nova Scotia the Halifax Banking Co. (private) commenced business in 1825, and the Bank of Nova Scotia received a regular charter in 1832. With all of these earlier banks note issue was an important part of their business.

The Bank of British North America, previously incorporated in Great Britain, commenced business in Canada in 1836, while Molson's Bank was established in 1853, the Bank of Toronto in 1855, the Banque Nationale in 1860 and the Banque Jacques-Cartier (later the Banque Provinciale du Canada) in 1862. The Union Bank was established in 1866, the Canadian Bank of Commerce in 1867. There were no fewer than 28 banks in existence at Confederation. These were as follows:—

Ontario and Quebec,

Bank of Montreal,
Quebec Bank,
Commercial Bank of Canada,
City Bank,
Gore Bank,
Bank of British North America,
Banque du Peuple,
Niagara District Bank,
Molson's Bank,
Bank of Toronto,
Ontario Bank,
Eastern Townships Bank,
Banque Nationale,
Banque Nationale,
Banque Jacques-Cartier,
Merchants' Bank of Canada,
Royal Canadian Bank,

Union Bank of Lower Canada, Mechanics' Bank. Canadian Bank of Commerce.

Nova Scotia.

Bank of Yarmouth, Merchants' Bank of Halifax, People's Bank of Halifax, Union Bank of Halifax, Bank of Nova Scotia.

New Brunswick,

Bank of New Brunswick, Commercial Bank of New Brunswick, St. Stephen's Bank, People's Bank of New Brunswick.

Subsection 1.—The Canadian Banking System in General.1

A brief résumé of the Canadian banking system must emphasize: (1) its growth, from the beginning closely related to the Montreal produce and export trade and to the commerce of Halifax and Saint John; (2) its development of the branch bank system in order to meet the demands of a rapidly moving frontier of settlement; (3) its adaptation to the requirements of the grain and cattle trade of the west; and (4) the consolidation during later years of the features which tended towards its early success. The development of a stable system has been accompanied by failures,² particularly marked about the middle of the 19th century, but progress has nevertheless been steady, based on sound principles, and adapted as closely as could be to the particular needs of the country.

The branch bank is perhaps the most distinctive feature of the Canadian system as it exists to-day, and for a country such as Canada, vast in area and with a small population, the plan has proved a good one. A result of the growth of

For details regarding Canadian bank note issue, see pp. 887 and 888. 2 See Table 23, pp. 908 and 909.

branch banks has been the partially centralized system that now obtains—centralized as to banks, of which there are now 10, rather than as to districts as in the partially centralized system of the United States.

A second peculiarity of the system is the existence and operation of the Canadian Bankers' Association. Through this body, which was incorporated in 1900 and acts under the authority of the Dominion Treasury Board, co-operation of individual banks is facilitated and encouraged. The association supervises clearing-house transactions, appoints curators to supervise the affairs of banks which have suspended business, and oversees the printing and issue of notes to its members. Adherence to similar principles and a linking together of the credit of the system result from the co-operation secured through the association.

The elimination of weaker banks or their amalgamation with more stable institutions has been a progressive move towards greater efficiency. Co-operation between the banks and the Dominion Government has been made permanent through the medium of periodic returns and the regulation of note issues and reserves.

Apart from the many detailed services rendered to its clients, the Canadian banking system may be said to perform three main functions as follows:—

- 1. To put into circulation the paper currency which forms the circulating medium for small exchanges.
 - 2. To provide a mechanism of exchange by the issue of bills of exchange, etc.
- 3. To form a means by which the credit of the banks and their unused deposits may be put to immediate productive use.

Banking Legislation.—The history of Canadian banking legislation began over a century ago with the granting, between 1817 and 1822, of the Royal Assent to charters incorporating the Bank of New Brunswick, the Bank of Upper Canada, the Bank of Montreal, the Quebec Bank and the Bank of Canada. The right to issue bank notes existed and was exercised by private banks without legislative sanction for a considerable period after the early charters were granted, and before banks became the subject of general legislation. In Lower Canada the practical monoply of issue was conferred upon the chartered banks by an Act of 1830, whereby the total amount of notes of less than £1 (\$4)² in circulation might not at any time exceed one-fifth of the paid-up capital, and no notes under 5 shillings (\$1) might be issued, it being further provided that all issues of less than £1 might be limited or suppressed by the Legislature.

In 1841, in the first session of the Canadian Legislature after the Union, a tax of 1 p.c. was imposed upon bank note circulation, which was timited to the amount of paid-up capital, notes of less than £1 not to exceed one-fifth of such capital. Various charters granted or renewed after the Union included provisions prohibiting banks from holding shares of their own stock or granting advances there-against. They were also prohibited from lending on the security of lands, houses, ships or pledge of merchandise (though such could be taken as additional security for debts previously contracted) or holding lands or houses except for the transaction of their business, neither could they own ships or be engaged in trade except as dealers in bullion or bills of exchange, the object being to confine transactions to legitimate banking business. Statements of assets and liabilities were to be submitted periodically—half-yearly or yearly—and such further information as the Government might call for was to be supplied confidentially. A further and

Revised from information furnished by the Office of the Inspector-General of Banks, Department of Finance.
 In the "Old Currency" £1 was equivalent to \$4 and 1 shilling to 20c.

important enactment was the imposition of the double liability upon shareholders, which had not previously existed with respect to the banks of Lower Canada, although it had been for several years a requirement of the younger banks of Upper Canada and first appeared in British North America in the Act incorporating the Bank of Nova Scotia, enacted in 1832. Suspension of specie payments on demand for a period of 60 days, either consecutively or at intervals during one year, was to cause forfeiture of charter. Total liabilities were not to exceed thrice "the aggregate amount of capital stock paid in, and the deposit made in the bank in specie and Government securities for money", but this provision proved of doubtful utility.

In 1850 what was known as the "Free Banking Act" prohibited any but the chartered banks or other corporations or persons authorized under the new Act from issuing notes. A period of one year was allowed for banks or companies, whose right of issue was thus withdrawn, to retire their notes outstanding. It was provided that individuals or partners might establish banks, or joint stock companies with a minimum capital of £25,000 (\$100,000) might be formed to carry on the business, but in such cases operations were to be confined to an office in only one place and total liabilities were not to exceed thrice the amount of paid-up capital. In order to issue notes the banks thus formed were obliged to deposit with the Receiver-General provincial or provincially guaranteed securities for not less than £25,000 (\$100,000) par value, receiving therefor registered notes. The chartered banks already existing could surrender their right of circulation against assets and secure from the Receiver-General registered notes in return for the deposit of securities, which special issue was not subject to the 1 p.c. tax imposed by the Act of 1841. The legislation included provisions giving effect for the first time to the principle of making bank notes a preferred claim, it being stipulated with respect to any oneoffice banks established under the Act that, if securities against outstanding notes did not realize sufficient, the general assets of a bank, if wound up, were first to be applied towards the payment of its notes.

Legislation of 1851 increased the period allowed for the retirement of note issues not in conformity with previous legislation from one to five years, provided at least one-fourth of the average circulation during the year 1850-and not secured by the pledge of bonds-was retired annually. Provision was made for partial remission and entire exemption within a specified period from the tax on banknote circulation, subject to certain restriction of such circulation. At the same time permission was granted to issue in excess of the restricted formula against gold or silver coin or bullion, or debentures of any kind issued by the Receiver-General, without requiring the banks actually to deposit such debentures and secure registered notes. The debentures, however, were to be applicable exclusively to the redemption of notes in case of failure. Monthly rather than half-yearly returns now became necessary. In 1853, to encourage the issue of "secured" notes, the issue was permitted in excess of paid-up capital to the extent of specie holdings or debentures receivable, although actual deposit of securities with the Receiver-General was not required. The tax of 1 p.c. was to be calculated only on the average circulation outstanding in excess of such specie and security holdings. Until 1858 banks charging or receiving interest at a rate higher than 6 p.c. were liable to onerous penalties. In that year it was enacted generally that any rate of interest might be exacted, but banks were prohibited from taking or stipulating for a higher rate than 7 p.c. In 1859, at the urgent request of the banks, a measure was passed authorizing them to make advances on the security of bills of lading and warehouse receipts covering certain commodities.

By 1861-2 free banking had practically run its course. In all, six banks had taken advantage of the legislation, one of which—the Bank of British North America—doubtless found it valuable. The others did not thrive. The Act was finally repealed by the Provincial Notes Act of 1866, which aimed at a gradual reduction in the volume of bank note circulation.

By Section 91 of the British North America Act, the right to legislate respecting banking, the incorporation of banks and the issue of paper money was assigned exclusively to the Dominion Parliament. A temporary measure was passed in 1867, largely by way of re-enactment until 1870 of previous legislation, but extending the powers of banks formerly incorporated by any of the provinces to the territory of the whole Dominion, and subjecting banks in New Brunswick and Nova Scotia to a tax of 1 p.c. upon the excess of their average notes in circulation above their average holdings of coin and bullion. (In these provinces there had been no general banking Act, special provisions being embodied in the respective charters which differed in only a few essential respects from those granted in Upper and Lower Canada.) It was re-enacted that banks were entitled to hold and dispose of mortgages on realty as additional security for debts already contracted and to acquire title to mortgaged property if necessary.

The Bank Act of 1870 provided that new banks must have a minimum paid-up capital of \$200,000 and that at least 20 p.c. of the subscribed capital must be paid up in each year after the commencement of business A proposal to limit the liabilities of banks in relation to capital and specie and Government debenture holdings was not translated into legislation. Bank notes in circulation were not to exceed the amount of paid-up capital. The right to issue notes under \$4 was withdrawn, largely in consideration of the abolition of the tax of 1 p.c. on note circulation. If possible up to 50 p.c., but in no case less than one-third of a bank's cash reserves were to be held in Dominion notes. Dividends were limited to 8 p.c. until or unless the bank's reserve fund was the equivalent of 20 p.c. of its paid-up capital. In case of the failure of a bank, double liability of shareholders became enforcible without waiting for the realization of the bank's general assets. Banks were required to transmit certified lists of shareholders annually, to be laid before Parliament. Any existing bank was permitted, on the authority of the shareholders, to apply for an extension of its charter, and the Governor in Council, upon the recommendation of the Minister of Justice and the Treasury Board, was empowered to extend such charter to 1881. Any suspension by a bank of payment of its liabilities for a period of 90 days would constitute insolvency, and operate as a forfeiture of its charter.

In 1871 the first comprehensive Banking Act of the Dominion was passed. A large part of the Statute was devoted to the re-enactment and consolidation of legislation already in force, although the measure of 1870 contained the main features of the Government's policy. The procedure relative to extension of charters laid down in the preceding year was superseded by this Act, which became the charter of the banks until July 1, 1881, that date being set in contemplation of regular decennial revisions. No new bank was permitted to commence business with less than \$500,000 capital bona fide subscribed and \$100,000 similarly paid up, with the further provise that at least \$200,000 must be paid up within two years after commencement of business. The sections respecting leans against warehouse receipts, etc., were thoroughly revised and difficulties of procedure removed. Banks

were permitted to take security on commodities in store pending marketing, and also while undergoing conversion from the raw to the finished state. Advances were allowed upon security of shares of other banks. It was provided that a bank might charge any rate of interest or discount not exceeding 7 p.c., but that no higher rate should be recoverable. Monthly returns of assets and liabilities were required. Certain technical amendments were made to the Bank Act in 1872, 1873 and 1875. In 1879 the power to lend upon the security of shares of other banks was repealed.

At the first general revision of the Bank Act in 1880 (effective 1881), a note holder was definitely recognized as a preferred creditor, claims of the Dominion and Provincial Governments, respectively, ranking next in order of preference. Banks were prohibited from issuing notes under \$5, higher denominations to be multiples of this sum. Dominion notes were now to constitute not less than 40 p.c. of the bank's cash reserves. Monthly returns of a more detailed character were to be made. The Act was amended in 1883 so as more effectively to enforce the prohibitions, restrictions and duties already imposed upon the banks. The use of certain titles by private bankers not operating under the provisions of the Act was prohibited.

At the revision of 1890 (effective 1891), it was stipulated that not less than \$250,000 capital must be paid up before a certificate permitting a bank to commence business could be issued by the Treasury Board. A period of one year from the date of the charter was allowed for the payment of the capital and the carrying out of other preliminaries. Dividends were not to exceed 8 p.c. until or unless the reserve fund was the equivalent of 30 p.c. of the paid-up capital. A fund known as the "Bank Note Circulation Redemption Fund" was established, consisting of deposits made by the banks with the Minister of Finance of amounts equal to 5 p.c. of their average note circulation, such deposits to be subject to adjustment annually. and to constitute a guarantee of the payment of all notes of a suspended bank with interest at 6 p.c. from the date of suspension until the date when their redemption was undertaken by the liquidator. Failing action by the liquidator within two months, the Minister of Finance was authorized to redeem the notes out of the fund, and such outlay, if not made good out of the assets of the failed bank, was to be reimbursed by the contributing banks pro rata to their contributions. Another major change gave the banks, in certain classes of loans, the same legal power to take security over the borrowers' goods as had previously been granted by warehouse receipts. This enactment served to make general and more clear principles already recognized by previous legislation and practice. Directors' qualifications were set out more clearly and it was now provided that a majority only of directors, instead of all, need be British subjects. Penalties for the excessive issue of circulation were made more severe.

The revision of 1900 (effective 1901) recognized the Canadian Bankers' Association as an agency in the supervision and control of certain activities of the banks. It was charged, under the Treasury Board, with the responsibility of supervising the printing and distribution of notes to the banks and their issue and destruction; also with control over clearing houses and the appointment of curators to supervise the affairs of suspended banks. The amended Act also included provisions permitting one bank to sell its assets to another. More detailed monthly returns were required and the interest on notes of failed banks was reduced from 6 p.c. to 5 p.c. In 1908, after the financial crisis of 1907, provision was made for emergency cir-

culation during the crop moving season from October to January, when banks were allowed to issue excess circulation up to 15 p.c. of their combined paid-up capital and rest or reserve funds, this emergency circulation to be taxed at a rate not exceeding 5 p.c. per annum. In 1912, the period was extended to the six months from September to February inclusive.

At the fourth revision of the Bank Act in 1913 provision was made for an audit of each bank's affairs by auditors appointed by the shareholders. There was also provision for the establishment of Central Gold Reserves in which banks might deposit gold or Dominion notes for the purpose of issuing additional notes of their own there-against. Annual reports to the Minister of the fair market value of real and immovable property held by the banks for their own use were required. Banks were empowered to lend to farmers upon security of their threshed grain. As a war measure the provision for emergency circulation was extended in 1914 to cover the whole year and banks were further authorized to make payments in their own notes instead of in gold or Dominion notes.

The fifth revision of 1923 (13-14 Geo. V, c. 32) resulted in numerous important changes. The qualifications of provisional directors were re-defined, while provision was made for keeping records of attendance at directors' meetings and bringing them to the notice of shareholders. Annual and monthly statements were given further attention and more complete returns required, including statements of controlled companies in the names of which any part of a bank's operations were carried on. Other or special returns were to be made if called for by the Minister. Two auditors were now to be appointed by the shareholders instead of one, and the qualifications, duties and responsibilities of auditors were more clearly defined. The personal liability of directors in case of distribution of profits in excess of legal limits was also more definitely expressed. Regulations regarding loans were amended and advances to any officer or clerk of a bank could not, in any circumstances, be granted in excess of \$10,000. Registration of security for loans under Sec. 88 was provided for. It became necessary for guarantee and pension funds to be invested in trustee securities. The punishment of directors and other bank officials for making false statements of a bank's position was provided for in Sec. 153. In 1924, as a result of the failure of the Home Bank of Canada, provision was made for periodical examination of the chartered banks by an Inspector-General of Banks, who was to be an officer of the Department of Finance.

Banking Statistics.—In Table 10 is given an historical summary of Canadian banking business since Confederation. In order to afford a clear view of the nature of banking transactions in Canada, bank liabilities have been classified in two main groups, liabilities to shareholders and liabilities to the public, only the latter group being ordinarily considered when determining the financial position of any such institution. Assets are divided into four groups, other assets being included in the total. As of interest to students of banking practice, the relative rates of increase of capital and reserve funds may be noted on the accompanying graphs, also the great increase in the proportion of liabilities to the public to total liabilities, and the gradually increasing percentage of liabilities to the public to total assets. The declining proportion of notes in circulation to total liabilities to the public is also characteristic of the evolution of banking in recent times. Holdings of Dominion and Provincial Government and municipal securities were relatively insignificant prior to the Great War.

Historical Summary showing Development of the Canadian Banking Business, calendar years, 1867-1932.

Norg.—The statistics in this table are yearly averages computed from the twelve monthly returns.

	LIABILITIES.						
	Liabi to Share	lities eholders.		I	iabilities to th	e Public.	
Cal- endar Year.	Capital.	Rest or Reserve Fund,	Notes in Circulation.	Deposits payable on Demand in Canada.	Deposits payable after Notice or on a Fixed Day in Canada.	Total on Deposit. ¹	Total Liabilities to the Public. ²
40000	\$0,926,470	\$	\$		\$	8	
1867 ³ ,	30,926,470 30.507,447	-	9,346,081 9,350,646		- '	31,375,316 33,653,594	43,273,969 45,144,854
1869	30,782,637 33,031,249	-	9,539,511	_	_	40,028,090 48,763,205 56,287,391	50,940,226
1870 1871	33,031,249 37,095,340	_	15,149,031 20,914,637		-	48,763,205 56,287,391	65,685,870
1872	45, 190, 085	-	25,296,454	-	_	61,481,452	80,250,974 90,864,688
1873 1874	54,690,561 60,388,340	-	27,165,878 27,904,963	1111		65,426,042 77,113,754	98,982,668 116,412,392
1875	64,619,513	- - -	23.035.039	-	-	74.642.446	104,609,356
1876 1877	66,804,398 65,206,009	- 1	21,245,985 20,704,338	-	-	72,852,686 74,166,287	99,614,014 99,810,731
1878	63,682,863 62,737,276	- !	20.475.586	_	_	70,856,253	95,538,831
1879 1880	62,737,276 60,052,117	_	19,486,103 22,529,623	_	-	73,151,425 85,303,814	96,760,113
1881	59,534,977	Ξ.	28,516,692	1111	_	94.346,481	111,838,941 127,176,249
1882 1883	59,799,644 61,390,118	*	33,582,080 33,283,302		<u>-</u>	110, 183, 124	127,176,249 149,777,214
1884	61,579,021	18, 149, 193	30,449,410	Į Į		107,648,383 102,398,228	145,938,095 137,493,917
1885	61,711,566 61,662,093	18,149,193 17,879,716 17,817,693 17,873,582	30,720,762	- :	_	104,014,660	138,762,695
1886 1887	6 0, 860 ,561	17,873,582	31,030,499 32,478,118		_	111,449,365 112,656,985	146,954,260 149,704,402
1888	60,345,035 60,229,752	18,529,911 19,766,426	32,205,259 32,207,144		-	125, 136, 473 134, 650, 732 135, 548, 704	163,990,797
9881 0681	59,974,902	21,127,838	32,834,511		-	135,548,704	173,029,602 173,207,587
1891	60,700,697	22,821,501	33.061.042		-	148,396,968	173,207,587 187,332,325
1892	61.626,311 62.009,346	24,511,709 25,837,758	33,788,679 33,811,925		_	160.668,471 174.776,722	208,062,169 217,195,975
1894	62,063,371	27.041,235	31,166,003		-	181,743,890	221,066,724
1895 1896	61,800,700 62,043,173	27, 273, 500 26, 526, 632	30,807,041 31,456,297		-	190,916,939 193,616,049	229,794,322 282,338,086
1897 1898	62,043,173 62,027,703	26,526,632 27,087,782	31,456,297 34,350,118 37,873,934		-	193,616,049 211,788,096	252,660,708
1899	62.571,920 63,726,399	27,627,520 28,958,989	87,873,984 41,518,139			236, 161, 062 266, 504, 528	281,076,656 318,624,033
1900	65,154,594	32,372,394	46,574,780	05 140 601	-	305, 140, 242	318,624,033 356,394,095
1901	67,035,615 69,869,670	36,249,145 40,212,943	50,601,205 55,412,598	95.169.631 (04.424,208)	221,624,664 244,062,545	349.573.327 390,370,493	420,003,743 466,963,829
1903	76,453,125	47.761.536	60,244,072	112,461,757 117,962,023	269.911.501	424, 167, 140	507,527,550
1904 1905	79,234,191 82,655,828	52,082,335 56,474,124	61,769,888 64,025,643	138,116,550	307,007,192 388,411,275	470,265,744 531,243,476	554,014,076 618,678,633
1906	91,035,604	56,474,124 64,002,266	70,638,870 75,784,482	[165, 144, 569]	388,411,275 381,778,705	531,243,476 605,968,513	713,790,553 769,026,924
1907 1908	95,953,732 96,147,526	69,806,892 72,041,265	75.784,482 71,401,697	166.342,144 169.721,755	413,014,657 406,103,063	654,839,711 658,367,015	769,026,924 762,077,184
1909	97.329.333	75,887,695	73,943,119	225.414.828	464.635.263	783,298,880	882,598,547
1910	98,787,929 103,009,256	79,970,346 88,892,256	82,120,303 89,982,223	280, 232, 399 304, 801, 755	532,087,627 568,976,209	909.964.839 980.438,788	1,019,177,601 1,097,661,393
1911 1912	112,730,943	102,090,476	100.146.541	359,431,895	625,705,765	1,102,910,383	1,240,124,354
1913 1914	116,297,729 114,759,807	109, 120, 393 113, 130, 626	105,265,336 104,600,185	367,214,143 346,069,908	626,199.470 656,760.687	1.126.871,523 1.144,211,363	1,287,372,534 1,309,944,006
1915	114,759,807 113,982,741	113,130,626 113,020,310	104,600,185 105,187,092	358.444.252 428.717.781	690,904,274	1,198,340,315 1,418,035,429	[1,353,629,123
1916 1917	113,175,353 111,637,755	112,989,541 113,560,997	126,691,913 161,029,606	428,717,781 468,049,790	780,842,383	1,418,035,429 1,643,203,020	1,596,905,337 1,866,228,236
1918	110,618,504	114,041,500	198.645,254	587, 842, 994	968,341,499	1,912.395,780	2,184,359,820
1919 1920	115,004,960 123,617,120	121,160,774 128,756,690	218,919,261 228,800,379	621,676,065 653,862,869	1,125,202,403 1,239,308,078	2.189.428,885	2,495,582,568 2,784,068,698
1921	129,096,339	134,104,030	194,621,710	551,914,643	1,289,347,063	2,264,586,736	2,556,454,190
1922 1923	125,456,485 124,373,293	129,627,270 126,441,667	166,466,109 170,420,792	502,781,234 523,170,930	1 101 627 604	9 190 007 020	2,364,822,657
1924	122, 409, 504 118, 831, 327	123,841,666	166,136,765	511.218.736	1,197,277,065 1,198,246,414 1,269,542,584	2.130,621,760	2,374,308,376 2,438,771,001
1925 1926	118,831,327 116,638,254	123,841,666 123,108,366 125,441,700	165,235,168	511,218,736 531,180,578 553,822,935	1,269,542,584 1,340,559,021	2,221,160,611	2,532,832,064 2,604,601,786
1927	121,666,774	130,320,897	172,100,763	596,069.007	1,399,062,201 1,496,608,451	2,415,132,260	2,758,324,713
1938	122,839,879	134.087.485	176,716,979	677,467,295	- 1 470 870 058i	2 696 747 857 J	3 215 502 008
1929 1930	137,269,085 144,560,874	150,636,682 160,639,246	178,291,030 159,341,085	696,387,381 622,895,347	1,427,569,716	2,516,611,587	2,909,530,263
1931	144.674.853	162,075,000	141,969,850	578,604,394	1,487,976,749	2,516,611,587 2,422,834,828 2,256,639,530	2,741,554,219 2,546,149,789
1932	144,500,000	162,000,000	182.165,942	100,270,704	1,010,020,120	_,,_,	2.020.128,789

Uncludes the deposits of Dominion and Provincial Governments and also since 1901 deposits else where than in Canada. Uncludes other liabilities to the public. Six months' average.

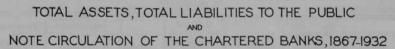
Historical Summary Showing Development of the Canadian Banking Business, calendar years, 1867-1932—concluded.

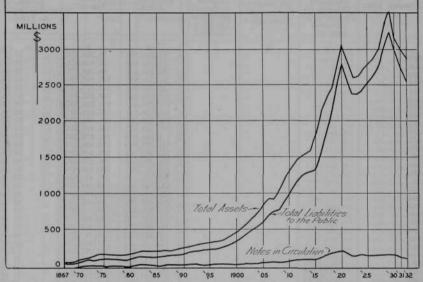
Norg.—The statistics in this table are yearly averages computed from the twelve monthly returns.

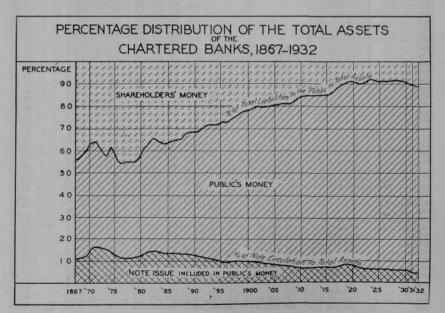
			ASSETS.			
Calendar Year.	Specie and Dominion Notes (including Deposits in Central Gold Reserves 1913-32).	Dominion and Provincial Government Securities.	Municipal Securities in Canada and Public Securities elsewhere than in Canada.	Total Loans.	Total Assets.	Percentage of Liabilities to the Public to Total Assets.
	\$	\$	\$	\$	\$	p.c.
1867 ²	l <u>-</u>	[53,889,708 52,299,050	78,294,670 79,860,976	55 · 27 56 · 53
1869	_	_	_	1 00.433.903	79,860,976 86,283,693	59.04
1870	-			66,276,961 84,799,841	J03.197.103	63-66
1871	1 :	-		106,744,665	125,273,631 148,862,445	64 · 00 61 · 0•
1873	- - - - - -	-	[:	119,274,317	166,056,595	56-60
1874	i <u> </u>	_		131,680,111 136,029,307	187.921,031 186,255,330	61·95 56·17
1876	-	_	-	127,621,577	183,499,801	54 - 21
1877	-	-	-	125,681,658	181,019,194	55-1
1878 1879	-		! :	119,682,659 113,485,108	175,450,274 173,548,490 184,276,190	54·44 55·7
1880			:	113,485,108 102,166,115	184,276,190	! 60⋅69
1881	_			116.953.497 140.077,194	200.613,879 227,426,835	63 · 39 65 · 86
1883] =	-	=	143,944,957	228,084,650	63.98
1884		-		130,490.053	219.998.642	62-50
1885 1886	_	-		126,827,792 132,833,313	219,147,080 228,061,872	63 · 3: 64 · 4
1887	-			132,833,313 139,753,755	230,393,072	64 - 91
1888	· •	-]	141,002,373 149,958,980	243,504,164 253,789,803	67-35 68-18
1889	_		· -	153,301,335 171,082,677	254,546,329 269,307,032	68.0
1891	17 704 60	-	-	171,082,677	269,307,032	69.50
1892 1893	17,794.201 19,714.648	_	_	193,455,883 206,623,042	291,635,251 302,696,715	71-3- 71-71
1894	22,371,954	_	-	204, 124, 939	307,520,020	71-83
1895	22,992,872 22,318,627			203,730,800 213,211,996	316.536.510 320.937.643	72·50 72·39
1896 1897	24,178,151	-	_	212,014.635	341.163,505	74.0
1898	25.330.564	-		223,806,320	370.583,991	75.80
1899	26,682.971 29,047,382	_	_	251,467,076 279,279,761 388,299,888	412,504,768 459,715,065	77 · 2· 77 · 5:
1901	32.088.501	11,331.385	13,031,176	388.299,888	531,829,324 585,761,109	78.9
1902	35,478,598	9,804,998 11,186,697	14,487,632 14,896,472	430,662,670	585.761,109	79.7
1903	42.510,574 50,307,871	10.705.202	15,560,145	472,019.689 509,011,993	641.543.226 695.417,756	79·11 79·6
1905	56,590,323	8.833,626	18,820.985	559,814,918	767,490,188	80-6
1906	61,287,581 70,550,520	9.360.614 9.546.927	20,460,670 21,198,817	655.869,879 709,975,274	878.512.076 945.685,708	8t · 24 81 - 35
1907 1908	80.654.276	9,522,743	19.788.937	670,170.833	941.290.619	80.96
1909	95,558,461	11.653,798	21,707,363 21,696,987	762,195,546	1.067.007.534	82-79
1910 1911	104.785,626 120,146.690	14.741.621 10.637.589	22,848,170	870,100,890 926,909,616	1.303.131.260	84 - 13 84 - 22
1912	132.853.405	9,388.968	22,586,119	1,061,843,991	1.303,131,260 1.470,065,478	84 - 30
1913	141,872,884 165,845,957	9.995.237 11.697.603	23, 183, 162 22, 707, 738	1.109,493.263 1.101.880,924	1.530,093,671 1.555,676,395	84-14
1914 1915	208,438,854	12,814,898	31.553.091	1,066,252,854	1,596,424,643	84 · 20 84 · 78
1916	230, 113, 831	29.717.007	117.902.686	1.135.866,531	1,839.286.709	86.82
1917	265.389,567 351,762.841	131.078.854 162.821.026	138,341.125 252,936,568	1,219,161,252 1,339,660,669	2.111.559.555 2.482.331.418	88-38 89-81
1919	370,775,723	214.621,625	256,270,715	1.552.971.202	2,754,568,118	90+60
1920	367,165.054 235 081 039	120.356.255 166.688.146	210,826,991 156.552.503	1.935,449,637 1.781,184,781	3.064.133,843 2.841.782.079	90-86 89-96
1921	335,081.032 305,522,425	198.526,031	90.134.491	[I,643,643,443	2,841,782,079 2,638,776,483	89 - 62
1922 1923	291.999.879	242.292.315 314,099.097	112.642.627	1,606,932,483	2.643.773.986	92-16
1924	266,961,330 259,714,043	358.344,887	135.597.860 147.563.292	1,546,792,080 1,502,017,009	2,701,427,011 2,789,619,061	90·28 90·80
1926	252,754,268	343,595,936	127,765,375	1,682,379,658	2,864,019,213	90-94
1927	252,188,447 264,804,251	324,580,796 333,837,004	133.314.843 124,996,823	1.839.905.275	3.029.680,616 3.323,163,195	91.04
1928 1929	261.625.173	341.744.572	104,309,024	2,072,403,628 2,279,247,504	3.528.468.027	91 · 62 91 · 13
1930	232,016,616	316, 196, 343	101,585.131	12.064.597.746	13.937 073 983	89-88
1931	206,925 103	454,386,965 489,709,241	154.829.056 150.891.599	1,764,088,477	3.066,018,472 2.869,429,779	89 · 42 88 · 73
[994	2001040 100	10411051531		***************************************		40.14

'Includes other assets. 'Six months' average.

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Bank Assets and Liabilities.—Tables 11 and 12 show in detail the assets and liabilities of Canadian chartered banks for the four years 1929 to 1932, the figures being yearly averages of the totals shown in the monthly statements made to the Minister of Finance.

11.—Assets of Chartered Banks in the calendar years 1929-32.

Note.—The statistics in this table are averages computed from the twelve monthly returns in each year.

		<u> </u>	· · · · · · · · · · · · · · · · · · ·	··· ·
Assets.	1929.	1930.	1931.	1932.
	\$	s	\$	\$
Quick Assets— Current gold and subsidiary coin	71,783,435	72,665,124	70,616,401	58, 581, 872
Dominion notes	130, 227, 589	119, 220, 626	111,324,018	126, 373, 999
of note circulation. Deposit in Central Gold Reserves	6,246,861 59,614,199		26,043,438	6,721,355 21,969,232
Notes of other banks	16,807,334 19,468,671	15,162 766 18,775,238	16,264,313	16,022,766
Cheques of other banks	149,545,199	127,661,545	101,543,160	82,948,867
other banks in Canada. Due from banks and banking correspondents	4,698,323	5,696,508	4,274,869	3,461,775
in the United Kingdom Due from banks and banking correspondents	4,826,444	6, 835, 485	4,503,758	9,383,994
elsewhere than in Canada and the United Kingdom	86, 178, 5 85	94,240,248	97,749,022	97,999,358
Totals, Quick Assets	549,396,590	506,978,840	452, 232, 684	434,710,583
Other Liquid Assets-			Į	
Dominion Government and Provincial Government securities	341,744,572	316, 196, 343	454,386,965	489,709,241
foreign and colonial public securities other than Canadian	194,309.024	101,585,131	154,829,056	150,891,599
Railway and other bonds, debentures and stocks.	52,961,542	53,856,068	65, 141, 210	55, 157, 961
Call and short (not exceeding thirty days) loans in Canada on stocks, debentures and bonds.	267, 271, 438	226, 725, 099	170, 185, 313	117, 224, 745
Call and short (not exceeding thirty days)	301,091,053	187, 706, 019	108,574,302	,
Totals, Other Liquid Assets	1,067,377,629	886,068,660	953, 116, 846	
			· 	
Other Assets—				
Other current loans and discounts in Canada Other current loans and discounts elsewhere	·		1,123,600,856	. ,
than in Canada	248,367,887	238, 954, 152	205, 382, 064	171,861,631
Loans to Provincial Governments. Loans to cities, towns, municipalities and	19,002,655	17,491,292	29,072,924	34,385,119
school districts	93,325,211 7,522,377	100, 233, 545 7, 650, 644	117,970,493 9,302,525	130,567,792 12,317,980
Real estate, other than bank premises	5,618,820 7,221,774	5,472,741 7,023,730	6,244,727 6,488,987	7,141,708
Mortgages on real estate sold by the bank. Bank premises at not more than cost, less	.,		,	6,244,908
amounts (if any) written offLiabilities of customers under letters of	75, 536, 822	77,465,028	79,112,201	79,714,603
oredit as per contra. Other assets not included under the fore	100, 473, 805 11, 957, 574	90,355,973 13,542,253	67,896,512	48,671,585
going heads			15,597,563	14,520,279
Totals, Other Assets	1,911,693,808	1,841,026,353	1,960,663,942	
Grand Totals, Assets	3,528,468,627	a, 457, V 73, 853	3,066,013,472	2,869,429,779

12 .- Liabilities of Chartered Banks in the calendar years 1929-32.

Notz.—The statistics in this table are averages computed from the twelve monthly returns in each year.

Liabilities.	1929.	1930.	1981.	1932.
	\$	\$	\$	\$
Liabilities to the Public— Notes in circulation. Balance due to Dominion Government after deducting advances for credits, pay lists,	178,291,030	159,341,085	141,969,350	182,165,942
etc	77,815,312 82,916,667 24,536,732	37,308,333	19,416,666	55,598,660 37,352,667 26,151,681
Deposits by the public payable on demand in Canada. Deposits by the public payable after notice	696, 387, 381	622,895,347	578,604,394	486,270,764
Deposits elsewhere than in Canada	1,479,870,058 418,138,374			1,376,325,128 312,293,297
Deposits made by and balances due to other banks in Canada	14,528,474	14,831,131	12,596,946	10,694,683
the United Kingdom	25.693.879	11,539,556	5,301,868	5,131,001
Kingdom	100,254,711			49,732,341
Bills payable	10,842,329 100,478,804			1,579,945 48,671,585
heads	5,754,347	6,278,946	4,992,595	4,182,095
Totals, Liabilities to the Public	3,215,503,098	2,909,530,263	2,741,554,219	2,546,149,789
Liabilities to Shareholders	107 000 00F	144 Epo 0=4	144 684 646	144 800 000
Capital paid up	137,269,085 150,636,682			144,500,000 162,000,000
Totals, Liabilities to Shareholders	287,905,767	305,200,120	396,749,853	306,510,000
Grand Totals, Liabilities	3,503,408,865	3,214,735,383	3,048,304,073	2,852,649,789

Deposits, Loans and Discounts.—As an index of the course of banking business, of the nature of many transactions undertaken and of the general security of bank assets, loans and discounts are of great value. They illustrate clearly the channels into which a large proportion of the potential earning power of the banks is directed, and, by providing a comparison between investments made in lending operations inside and outside of Canada, afford essential information regarding the conduct by a bank of one of its most important activities.

Bank deposits (the demand deposits being to a large extent the product of lending operations, by which credit is advanced on security followed by the deposit of the proceeds of a loan) are also of considerable importance, and, on account of their derivation, are one of the most valuable records of the volume of business done at any time. Actual deposits of cash (mainly deposits payable after notice or on a fixed day) are, of course, included with the amounts deposited after the granting of loans.

Tables 13 and 14, following, give the deposits and loans of Canadian chartered banks for the years 1928 to 1932.

13.—Deposits in Chartered Banks in Canada and elsewhere, for the calendar years 1928-32.

Norn.—The statistics in this table are averages computed from the twelve monthly returns in each year.

Item.	1928.	1929.	1930.	1931.	1932.
Deposits by the public in	\$	\$	*	\$	\$
Canada— Pavable on demand Payable after notice or on a	677, 467, 295	696, 387, 381	622,895,347		486, 270, 764
fixed day	1, 496, 608, 451	' ' '			
Canada Balances due to Dominion and	372,452,532		390,403,559		
Provincial Governments Totals, Deposits	64,066,587	102,352,044	75,742,965	73,351,113	81,750,341

14.—Loans of Chartered Banks in Canada and elsewhere, for the calendar years 1928-32.

Note.-The statistics in this table are averages computed from the twelve monthly returns in each year.

Item.	1928.	1929.	1930,	1931.	1932.
Call and short loans on stocks	*	\$	*	\$	\$
and bonds in Canada	253, 488, 198	267, 271, 488	226, 725, 099	170, 185, 313	117, 224, 745
than in Canada Current loans in Canada ¹	267,352,621 1,252,556,650		187, 706, 019 1, 386, 070, 540	108, 574, 302 1, 241, 571, 349	84,227,574 1,162,649,273
Current loans elsewhere than in Canada	261,948,962				171,861,621
Loans to Governments Overdue debts	29,569,721 7,492,476				34,386,120 12,317,980
Totals, Loans	2,072,403,628	2,279,247,504	2,064,597,746	1,761,088,477	1,582,567,313

Includes loans to cities, towns, municipalities and school districts.

Bank Reserves.—The Bank Act contains no specific provisions as to the amount of gold to be held against either note circulation or general liabilities of a bank. It requires, however, that 40 p.c. of whatever cash reserves a bank finds it expedient to carry shall be in Dominion notes. A second provision instructs the Minister of Finance to arrange for the delivery of Dominion notes to any bank in exchange for specie. Thus the gold reserve against Dominion notes, to the extent that the notes are held by the banks, is reserve against banking operations, the Dominion Government being the custodian of the gold for the banks. The other cash element in bank reserves is specie in hand. In addition to this cash on hand, Canadian banks carry three other kinds of assets which are regarded as reserves, being funds more or less immediately available for the liquidation of liabilities. These are: (1) cash balances in banks outside of Canada; (2) call and short loans in New York (the favorite call loan market); and (3) readily marketable securities. These are shown, together with net liabilities, in Table 15. In Table 16, the ratio to net liabilities of each element of the reserves is shown.

15.—Bank Reserves in Detail and Total

Note.—The statistics in this table are averages computed from the twelve monthly

					
		c	Cash Due from-	-	Ø.11 4
Calendar Year.	Specie, Dominion Notes and Foreign Currencies, ¹	Banks in the United Kingdom.	Banks elsewhere than in Canada and the United Kingdom.	All Outside Banks.	Call and Short Loans elsewhere than in Canada.
	\$	\$	\$	\$	8
1901	32,088,501	5,598,939	12.811.524	18,410,463	40,620,238
1902	35,478,598	6,598,159	13,519,799	20, 117, 958	46, 162, 659
1903	42,510,574	5.638,954	14,192,232	19,831,186	38,025,662
1904	50,307,871	7,523,615	16,817,357	24,840,972	41, 212, 007
1905	56.590.323	9,960,580	19,201,939	29, 162, 499	51, 452, 955
1906	61,287,581	8,877,979	16,801,119	25,679,098	59,363,639
1907	70,550,520	6.027.157	15,363,728	21,390,885	52,907,513
1908	80,654,276	9,828,186	30,822,761	40,650,947	60,764,075
1909	95, 558, 461	10,311,864	31,779,144	42,091,008	119,728,263
1910	104,735,696	18,892,833	28,301,602	47, 194, 435	112,777,530
1911	120, 146, 690	21,122,092	29,695,985	50,818,077	91,097,704
1912	182,853,405	21,338,926	28,894,103	50,233,029	105,718,070
1913	135, 267, 628	13,329,642	28, 238, 329	41.567.971	98,608,615
1914	159,775,124	12,230,533	36,932,958	49, 163, 491	112,438,696
1915	200,113,021	20,824,559	43,781,939	64,606,498	118,896,692
1916	207,797,164	24,025,192	72,923,228	96,948,420	164,786,760
1917	210, 475, 400	17.885.648	53,021,952	70,907,600	157,430,643
1918	256, 656, 174	10,973,606	47,419,961	58.393.567	162, 233, 308
1919	257, 429, 889	12,359,426	50,904,693	68, 264, 119	163, 227, 204
1920	259,462,332	17,669,923	62, 100, 182	79,770,105	200,098,050
1921,	255, 474, 332	12,857,830	60.885,266	73,743,096	172,137,325
1922	251, 169, 892	10,309,844	87.972.048	98.281.892	178,457,564
1923	284,501,513	8,090,470	54,358,289	62,448,759	198,047,516
1924	235,743,196	7,819,605	66,701,920	74,521,525	181,705,220
1925	230.011.447	8,583,316	59,921,935	68, 505, 251	225, 461, 687
1926	214, 182, 302	11,520,189	59,261,609	70,781,798	250, 080, 998
1927	210, 483, 492	9.790.411	61,793,595	71.584,006	268, 586, 339
1928	216, 287, 938	6,874,338	67,531,596	74,405,934	267, 352, 621
1929	221,479,645	4,826,444	86, 178, 585	91,005,029	301,091,053
1930	210,660.988	6,835,485	94,240,248	101,075,733	187,706,019
1931	198, 204, 732	4,503,753	97,749,022	192, 252, 775	108,574,302
1932	200, 978, 637	9,383,994	97,999,358	107,383,352	84,227,574
		1	1		l

¹Does not include "Deposits with the Minister of Finance for security of the note circulation" of insolvent banks, nor "Deposits in the Central Gold Reserves", instituted in 1913 as a reserve against additional banknote circulation. The average amounts of these deposits during each of the latest four years are shown in Table 11.

Net Liabilities, calendar years, 1991-32.

returns in each year. Figures for 1892-1900 were given on pp. 872-873 of the 1927-28 Year Book.

	_					
	Secur	ities.				ļ
Dominion and Provincial Government Securities.	Canadian Municipal, British, Foreign and Colonial Public Securities.	Railway and other Bonds.	Total.	Total Reserves.	Total Net Liabilities. ²	Calendar Year.
\$	\$	\$	\$	\$	\$	
11,331,385	13,031,176	30,440,258	54,802,819	145,322,021	405,915,468	
9,804,998	14,487,633	34,859,390	59,152,021	160,911,236		1902
11, 186, 607	14.896,472	37,800,893	63,883,972	164,251,394	489, 439, 303	
10,705,202	15,560,146	38,779,477	65.044.825	180,905,675	534, 147, 781	1904
8,833,627	18,820,985	39,974,520	67,629,132	204,834,909	595,027,264	
9,360,614	20,460,625	41,125,898	70.947.137	217,277,455	,	
9,546,760	21,198,817	41,239,589	71,985,166	216,834,084	737,505,039	
9,522,743	19,788,937	42,651,006	71.962.686	254,031,984	726,443,676	
		*				
11,653,798	21,707,363	50,783,614	84,144,775	341,522,507		1909
14,741.621	21,696,987	56, 194, 734	92,633,342	357,341,003		
10,637,580	22,848,170	60,909.240	94,394,990	356,457,461	1.044.712,867	
9,388,968	22,586,119	64,080,763	96.055,850	384,860,354	1,178,577,787	
9,995,237	23, 183, 161	70, 7 13, 0 75	103,891,473	379,329,682	1,222,752,292	
11,697,603	22,707,738	68,636,267	103,041,608	424,418,919		1914
12,814,898	31,553,091	74,020,538	118,388,527	502,004,788	1,298,018,989	
29,717,007	117,902,686	68,386,482	216,006,175	685,538,519	1,520,438,686	1916
131.078,854	183,341,125	58,958,908	373.378.887	812,192,530	1,771,264,882	1917
162,821,026	252, 936, 568	56, 103, 418	471,861,012	949,144,061	2,071,307,749	1918
214.621,625	256, 270, 715	54,429,301	525.321,641	1,009,242,583	2,863.044,215	
120,356.255	210,826,991	48,031,228	379.214,474	918,544,961	2,608,151,194	1920
166,688,146	156,552,503	45,728,878	368.969,527	870,324,280	2.393.459.361	
198,826,031	90, 131, 491	43,208,758	332,166,280	860,073,353		
242,292,315	112,642.627	46,857,264	401,792,206	896,789,994	2,222,479,569	
314,099,097	135,597.860	52,864,890	502,561,847	994,531,788	2,314,701,740	
358,344,887	147.563,292	59,597,468	565,505,647] 1,089,484,032	2,396,104,380	1925
343,595,936	127,765,375	61,455,745	532,817,056	1,067,862,154	2,481,678,160	1926
324,580,796	133,314,843	63,075,762	520, 971, 402	1.071,525,289	2,616,056,053	1927
333,837,004	124,996,823	62,794,381	522,628,208	1,080,674,701	2,880,242,999	1928
341,744,572	104,309,024	52,961,542	499,015,138	1,112,590,865	3,062,844,009	1929
316, 196, 343	101,585,131	53,856,068	471,637,542	971,080,282	2,766,706,452	
454,386,965	154.829.056	65.141.210	674.357.232	1.083.389.041	2,626,922,950	
489,709,241	150,891,599	85,157,961	695,758,801	1.088.348.364		
	}			1	-1.00,000,000	

^{*}Net liabilities are obtained by deducting from total liabilities to the public, as shown in Table 16, the items "Notes of other banks", "Cheques on other banks", and "Loans to other banks in Canada, secured, including bills rediscounted", which represent indebtedness within the system and are counterbalanced by credits within the system.

16.—Ratio of Bank Reserves to Net Liabilities.1 calendar years 1901-32.

Note.—The statistics in this table are based upon the averages of the twelve monthly returns in each year given in the preceding table. Figures for 1892-1900 will be found at p. 874 of the 1927-28 Year Book.

Calendar Year,	Cash on hand.	Cash due from Banks outside of Canada.	Call and Short Loans elsewhere than in Canada.	Securities.	Percentage of Total Reserves to Net Liabilities.
	p.e.	p.c.	p.c.	p.c.	p.c.
1901	8·0	4·5	10.0	13 · 5	36·0
	7·9	4·4	10.2	13 · 1	35·6
	8·9	4·0	7.7	13 · 0	33:6
	9·4	4·5	7.7	12 · 1	38·7
	9·5	4·9	8.6	1! · 3	34·3
1906	8·9	8·7	8·7	10·4	31-7
1907.	9·5	2·9	7·2	9·7	29-3
1908.	11·t	5·5	8·3	9·9	34-8
1909.	11·3	5·0	14·2	9·9	40-4
1910.	10·7	4·8	11·5	9·5	36-5
1911	11.5	4·8	8.7	9·0	34.0
1912	11.3	4·3	8.9	8·1	32.5
1913	11.1	3·4	8.1	8·5	31.1
1913	12.8	3·9	9.0	8·2	33.9
1914	15.4	5·0	9.2	9·1	38.7
1916.	13·7	6·4	10·8	14·2	45·1
1917.	11·9	4·0	8·9	21·1	45·9
1918.	12·4	2·8	7·8	22·8	45·8
1919.	10·9	2·7	6·9	22·2	42·7
1920.	9·9	3·1	7·7	14·5	35·2
1921	10·7	3·t	7·2	15-4	36·4
	11·3	4·4	8·0	15-0	38·7
	10·6	2·8	8·9	18-1	40·4
	10·2	3·2	7·9	21-7	43·0
	9·6	2·9	9·4	23-6	45·5
1926	8·6	2.8	10-1	21·5	43·0
1927	8·0	2.7	10-3	19·9	40·9
1928	7·5	2.6	9-3	18·1	37·5
1929	7·2	2.9	9-8	16·3	36·3
1930	7·6	3.7	6-8	17·0	35·1
1931	7·5	3.9	4·t	25·7	41·2
1932	8·2	4.4	3·4	28·4	44·4

See Table 15 for actual amounts of reserves and net liabilities.

Subsection 2.—The Individual Chartered Banks of Canada.1

During the period from 1881 to 1901, the number of chartered banks doing business in Canada under the Bank Act remained almost the same, 36 in 1881 and 1891, and 34 in 1901, but during the present century there has been in banking, as in industry, an era of amalgamations, the number of banks having dropped to 25 in 1913 and to 10 in December, 1932. That this has been far from involving a curtailment of banking facilities is seen in Table 10, which shows the development of the banking business since 1867, and in Table 17, which compares the number of branch banks existing in Canada at different periods, showing a growth from 123 at Confederation to 4,083 inclusive of sub-agencies at Dec. 31, 1930. Since then, owing to the shrinkage in commercial activities as a result of the depression, some unprofitable branches have been closed and the total has declined to 3,772, exclusive of 163 branches and agencies in other countries at Dec. 31, 1932.

Table 18 gives the number of branches of the various banks, by provinces, as at Dec. 31, 1932, while Table 19 contains the statistics of branches of Canadian

Revised by Henry T. Ross, Secretary, Canadian Bankers' Association.

banks doing business outside of Canada, an extension of Canadian banking (more especially to Newfoundland and the West Indies) which proceeded very rapidly in the War and early post-war period, rising to a total of 206 in 1921. Since then this number has gradually declined to 163 branches and sub-agencies in 1932.

17.—Number of Branches of Chartered Banks in Canada, by Provinces, Dec. 31, 1868, 1992, 1995, 1916, 1920, 1926, 1929-32.

Province.	1868.	1902.	1905.	1916.1	1920.1	1926.1	1929.1	1930.1	1931.1	19321.
P.E. Island	No. 5 4 12 100 - 2	No. 9 89 35 137 349 52 30 46	No. 10 101 49 196 549 95 - 87	No. 17 111 82 784 1,154 200 413 247 187	No. 41 169 121 1,150 1,586 349 591 424 242	No. 28 134 101 1.072 1.326 224 427 269	No. 28 138 102 1.169 1,396 239 462 308 223	No. 28 138 102 1.183 1,409 239 447 304 229	No. 28 138 101 1,176 1,400 222 394 278 229	No. 28 136 100 1,131 1,351 203 36 25 200
British Columbia Yukon	123	747	1,145	3,118	4,676	186 3 3,770	4,069	4,083	3,970	3,77

Includes sub-agencies for receiving deposits for the banks employing them.

18.—Number of Branches of Individual Canadian Chartered Banks in each Province and in Other Countries as at Dec. 31, 1932.

Note.—This table does not include sub-agencies which numbered 616 in 1932, including 2 in "Other Countries".

Bank.	P.E. Island.	Nova Scotia.	New Bruns- wick.	Quebec.	Ontario.	Manitoba.
Bank of Montreal. Bank of Nova Scotia. Bank of Toronto. Banque Provinciale du Canada. Canadian Bank of Commerce. Royal Bank of Canada. Dominion Bank. Banque Canadienne Nationale. Imperial Bank of Canada. Barclays Bank (Canada.	6	No. 14 36 - 19 62	No. 13 37 13 6 22 1	No. 120 23 15 107 67 82 8 213 4	No. 216 134 104 14 300 253 99 15 122	No. 36 7 12 - 43 72 12 8 8 8
Totals	27	131	92	640	1,268	198
Bank.	Saskat- chewan.	Alberta.	British Colum- bia.	Yukon.	Other Count- ries.	Total.
Bank of Montreal. Bank of Nova Scotia Bank of Toronto. Banque Provinciale du Canada Canadian Bank of Commerce. Royal Bank of Canada. Dominion Bank. Banque Canadienne Nationale Imperial Bank of Canada. Barolaye Bank (Canada).	No. 51 22 27 - 91 118 4 7 39	No. 55 9 13 - 67 68 5 6 23	No. 52 6 9 - 65 55 4 1 12	No. 2 - 2 - 2	No. 13 39 - 15 91 2 1	No. 573 322 180 138 682 829 135 250 208
Totals	359	246	203		161	3,319

19.—Number of Branches of each of the Canadian Chartered Banks in Other Countries, with their Locations, Dec. 31, 1932.

Bank and Location.	Branches.	Bank and Location.	Branches
	No.	<u> </u>	No.
The Bank of Montreal—		The Canadian Bank of Commerce—conc.	l
Newfoundland	. 51	South America	1
England	.1 2	St. Pierre and Miquelon	1 1
France	. 1	The Royal Bank of Canada—	l
United States	1 3	Newfoundland	5
Mexico.	1 2		
Mexico	1	EnglandBritish West Indies,	11
Newfoundland	12	United States	l ī
England		Cuba	
British West Indies	121	Porto Rico, etc	
United States	3	France (auxiliary)	l j
Cuba		Spain	l î
Porto Rico, etc	3	Spain Central and South America	20
The Canadian Bank of Commerce—		The Dominion Bank—	
Newfoundland	9	England	1 1
England.		United States	l î
British West Indies	'!	Banque Canadienne Nationale—	
United States.		France	1 1
Cuba		Trance	l
Merico		Total	1619

Exclusive of one sub-agency. Exclusive of two sub-agencies.

Earnings of Canadian Banks.—The chartered banks of Canada are for the most part Dominion-wide institutions, doing business in all parts of the country. Their earnings, therefore, reflect with very considerable faithfulness the fluctuations of general business. So far as individual banks are concerned, indeed, the changes resulting from this era of amalgamations are apt to render the figures incomparable over a period of years. During the six years covered by Table 20, however, the Bank of Montreal, the Royal Bank, the Bank of Nova Scotia, the Bank of Toronto, the Banque Provinciale du Canada, and the Dominion Bank have not been affected by the tendency toward absorptions, and the maintenance of the net profits of these banks is excellent evidence of their sound management and of the resistance of the country to depression.

20.—Net Profits of Canadian Banks and Rates of Dividend Paid, for their business years ended 1927-32.

Bank.	193	27.	193	28.	19:	29.
Bank.	Net Divider Profits. Rate.				Dividend Net Rate. Profits.	
	\$	p.c	\$	p.c.	*	p.c.
Bank of Montreal	5.299.887	12+2	5,847,327	12+2	7,070,892	12+
Bank of Nova Scotia	2,365,320	16	2,535,519	16	2,761,117	16
Bank of Toronto	1,165,432	12+1	1,264,971	12+1	1,453,436	12+
ada	508,608	9	534.248	9	551.022	9
Canadian Bankof Commerce	3,726,910	12+1	3.964.482	12+1	5,066,229	12+
Royal Bank of Canada	5,370,146	12+2	5.881.254	12+2	7,145,137	12-
Dominion Bank	1,328,496	12+1	1,408,088	12+1	1,522,809	12-
tandard Bank of Canada.	821,886	12	917,658	12	-	-
Banque Canadienne Natio-	903.201	10	946,085	10	1.053,100	10
nale Imperial Bank of Canada	1.383,282	12+1	1,459,472	12+1	1,561,562	12+
Veyburn Security Bank ²	64.986	127	54,387	771	38,147	-7'
Barclays Bank (Canada)	- U2, 80V	' -	04,001	'	-	·
Totals, Net Profits	22,938,154		24,813,471		28, 222, 451	

20.-Net Profit of Canadian Banks and Rates of Dividend Paid, for their business years ended 1927-32-concluded.

Bank.	19	30.	195	31.	1982.		
ъщк.	Net Dividend Profits. Rate.		Net Profits.	Dividend Rate.	Net Profits.	Dividend Rate.	
Bank of Montreal	6.519.031	p.c. 12+2	\$ 5,386,380	p.c. 12	4,663,100	p.c.	
Bank of Nova Scotia	2,535,643	16	2,579,802	16	2,303,434	15	
Bank of Toronto	1,339,872	12+1	1,168,915	12	1,044,393	เมื	
Banque Provinciale du Can-							
_ ada,	511,457	9	467,440	9	454,659	81	
Canadian Bank of Commerce		12+1	4,774,923	12	4,279,424	11	
Royal Bank of Canada	6,572,627	12+2	5,468,327	12	4,861,849	11	
Dominion Bank	1,409,747	12+1	1,322,287	12	1,179,931	11	
Standard Bank of Canada ¹ Bañque Canadienne Natio-	-	-	-	-	-		
nale	1,024,702	10	1,001,940	10	972.075	10	
mperial Bank of Canada	1,424,081	12+1	1.328.864	10 12	1.205.335	111	
Weyburn Security Bank2	-	- ,-		-			
Barclays Bank (Čanada)3	-	-		-	-		
Totals, Net Profits	26,715,583		23,478,878	_	20,364,200		

Gold and

Subsidiary

Bank.

In Tables 21 and 22 will be found statistics showing the positions of the individual chartered banks on Dec. 31, 1932.

21.—Principal and Total Assets of each of the Chartered Banks of Canada, Dec. 31, 1932.

Dominion

Notes.

Deposit in

Central

Gold

United States

and other

Foreign

Due from

other Banks.

	Coin.		Reserves.	Currencies.	
Bank of Montreal	\$ 17,847,895 9,829,480 385,151 232,292 10,662,402 12,271,299 945,468 452,602 11,526	19,656,293 7,493,710 482,992 24,888,508 26,005,333 11,853,104 1,203,912 4,138,472	1,250,600 630,866 8,000,000 3,000,000 400,000 2,000,000	1,382,316 17,461 19,165 596,508 15,498,517 37,825 54,864	15, 223, 669 7, 676, 757 3, 718, 999 33, 043, 602 74, 324, 245 8, 325, 472 5, 458, 779 8, 537, 710
Totals	53,263,094	153,181,279	19,881,782	17,941,291	269,562,184
Bank.	Securities.	Call Loans in Canada.	Current Loans in Canada.1	Call and Current Loans outside of Canada.	Total Assets,?
Bank of Montreal Bank of Nova Scotia Bank of Toronto Banque Provinciale du Canada Canadian Bank of Commerce Royal Bank of Canada. Dominion Bank Banque Canadienne Nationale Imperial Bank of Canada Barclays Bank (Canada)	147,929,913 121,293,976 29,983,261 35,108,278 31,307,152 547,699	\$ 4,093,474 13,057,297 4,730,961 4,894,450 29,442,953 27,565,362 8,023,517 5,947,105 5,635,670 13,600	224,965,445 258,849,936 53,644,901 78,017,487 67,533,445 1,352,089	43,425,560 137,263,958 1,829,899 105,621	265,084,712 109,416,518 46,515,149
Totals	778,252,015	103,204,380	1,103,867,172	243, 152, 865	2,852,086,913

Includes loans to the Dominion Government, to Provincial Governments and to cities, towns, municipalities and school districts. *Includes other assets. *\$11,081,732 in gold, the remainder being Dominion notes.

¹A beorbed by the Canadian Bank of Commerce, Nov. 3, 1928.

²A beorbed by Imperial Bank of Canada, May 1, 1931.

³This bank, which opened in September, 1929, had reported no profits or dividends up to the end of 1932.

22.—Principal and Total Liabilities of each of the Chartered Banks of Canada, Dec. 31, 1932.

					
Bank,	Capital (paid up).	Rest or Reserve Fund.	Notes in Circulation.	Due to Dominion and to Provincial Governments	Letters of Credit Outstanding.
	\$	\$	\$	\$	\$
Bank of Montreal	36,000,000 12,000,000 6,000,000 30,000,000 35,000,000 7,000,000 7,000,000 7,000,000 500,000	24.000,000 9,000,000 1,500,000 35,000,000 9,000,000 7,000,000 8,000,000	28,937,990 5,832,230 8,950,959 7,555,853	8,176,901 1,993,597 673,443 11,291,719 16,260,407 4,685,977 3,018,272 4,350,716	4,834,757 663,812 11,798 11,011,724 17,714,691 1,250,398 244,228 673,591
Totals	144,500,000	162,000,000	127,074,824	72,041,123	42,634.870
Bank.	Deposits. Demand Notice in Canada. Canada.		Outside of Canada.	Due to other Banks.	Total Liabilities.
	\$		\$	\$	\$
Bank of Montreal	128, 369, 196 28, 230, 878 21, 306, 509 3, 907, 009 102, 723, 479 113, 717, 940 28, 130, 428 16, 767, 968 21, 980, 688 1, 078, 672	132,355,345,60,625,680,31,358,638,287,089,114,258,243,690,61,350,954,064,72,306,113	34,366,448 - 46,967,202 170,536,362 1,893,285 1,346,689	5,149,052 1,490,451 31,459 11,567,094 24,125,020 1,522,038	264.335,892 108,574.736 46.118,408 560,500,330 725,074,089 122,606,264 132,327,159 126,234,902
Totals	466, 212, 767	1,377,520,115	328,725, 09 4	61,118,454	2,842,757,523
	<u> </u>		<u> </u>	-	

Includes other liabilities.

Bank Amalgamations and Insolvencies.—Two tables follow which may be of interest to students of Canadian banking history. The first, showing bank insolvencies since 1867, gives the capital paid up, reserves, assets and liabilities of insolvent banks, and shows also the payments to noteholders and depositors. In the majority of cases, both these classes of creditors have received payment in full. The table of bank absorptions gives the dates of absorption of the 36 banks which were incorporated with other institutions from 1867 to 1932.

23.—Bank Insolvencies in Canada since 1867.

	Date	Paid-	 	Liabili-		Paid	to-
Name.	of Suspension	uр	Reserve Fund.	ties.	Assets.	Note- bolders.	Depos- itors.
		\$	\$	\$	\$	p.c.	p.e,
Commercial Bank of N.B Bank of Acadía: Metropolitan Bank Mechanics' Bank Bank of Liverpool. Consolidated Bank of Canada. Stadacona Bank Bank of Prince Ed. Island	Oct. 18 May, 18 Oct., 18 Aug., 18 July, 18	73 100,000 76 800,170 79 194,794 79 370,548	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	671,420 106,914 293,379 547,238 136,480 1,794,249 341,500 1,108,000	213.846 779,225 721.155 207.877 3,077,202 1,355.675	100 571 100 100 100	100 57 \$ 96 6/17 100 100 59 \$

23.—Bank Insolvencies in Canada since 1867—concluded.

	Date	•	Paid-	Reserve	Liabili-		Paid	to—
Name.	of Suspens	ion.	up Capital.	Fund.	ties.	Assets.	Note- holders.	Deposi- tors.
			*	\$	\$	\$	p.c.	p.c.
Exchange Bank of Canada Maritime Bank of Dom. of	Sept.,	1883	500,000	300,000			100	661
Canada	Маг.,	1887	321,900	60,000	1,409,482	1,825,993	100	103
Pictou Bank	Sept.,	1887	200,000	· -	74,364			100
Bank of London in Canada	Aug.,	1887	241,101	50,000	1,031,280	1,310,675	100	100
Central Bank of Canada	Nov.,	1887	500,000	45,000	2,631,378			99 }
Federal Bank	Jan.,	1888	1,250,000	150,000	3,449,409	4,869,113	100	100
Commercial Bank of Mani-	l '							
toba	June 30.		552,650	50,000				100
Banque du Peuple				600,000				751
Banque Ville-Marie	July 25,			10,000		2,267,516		17
Bank of Yarmouth		1905		35,000	388.660			100
Ontario Bank ¹	Oct. 13,	1906	1,500,000		15,272,271			100
Sovereign Bank of Canada [‡]	Jan. 18,				16, 174, 408			100
Banque de St. Jean	April 28,	1908	316,386	10,000				30£
Banque de St. Hyscinthe		1908		78,000				100
St. Stephen's Bank				55,000]				100
Farmers' Bank				-	1,997,041			Nil
Bank of Vancouver					912,137			1
Home Bank of Canada	l Aug. 17,	1923	1,960,591	550,000	19,678,747	27,434,709	100	2

¹ This bank was only in existence for 3 months and 26 days. Some of its notes were redeemed on its re-opening for a few days. The Dominion Government received 25 cents on the dollar on several thousand dollars worth of the notes which it held. ² Liquidation incomplete. ³ This bank never suspended payment. The bank which took over its branches assumed all hisblities to depositors. Some years later, for technical purposes, the original bank was put into insolvency.

24.—Bank Absorptions in Canada since 1867.1

Purchasing Bank.	Bank Absorbed.	Date.2		
Bank of Montreal	Exchange Bank, Yarmouth, N.S	Aug.	13,	1903
	People's Bank of Halifax, N.S	June .	27,	1905
	Ontario Bank	. Oct.	13,	1906
	People's Bank of New Brunswick	. [April	15,	1907
	Bank of British North America	Oct.	12,	1918
	Merchants' Bank of Canada	Mar.	20,	1922
	Molson's Bank	Jan.	20,	1925
Canadian Bank of Commerce	Gore Bank	Мау	19,	1870
	Bank of British Columbia	Dec.	31,	1900
	Halifax Banking Co	May	30,	1903
	Merchants' Bank of P.E.I	May	31,	1906
	Eastern Townships' Bank	. Feb.	29,	1912
	Bank of Hamilton Standard Bank of Canada	Dec.	31,	1923
	Standard Bank of Canada	. Noν.	3,	1928
Bank of Nova Scotia	Union Bank of P.E.I	. Oct.	_1,	1883
	Bank of New Brunswick	Feb.	15,	1913
	The Metropolitan Bank	Nov.	14,	1914
	The Bank of Ottawa	. [April	30,	1919
Royal Bank of Canada	Union Bank of Halifax	. Nov.	Ĭ,	1910
	Traders Bank of Canada			
	Quebec Bank	.μaπ.	2,	1917
	Northern Crown Bank	. թաւ	, Z,	1918
	Union Bank of Canada	Aug.	31,	1925
Imperial Bank of Canada	Niagara District Bank	June	21,	1875
	The Weyburn Security Bank	May	٦,	1931
Banque d'Hochelagas	Banque Nationale	. April	30,	1924
Bank of New Brunswick	Summereide Bank	Sent.	12.	1901
Merchants' Bank of Canada	Merchants' Bank	lFah.	22.	1868
	Commercial Bank of Canada	. LJune	1.	1869
Union Bank of Halifax	Commercial Bank of Windsor	Oet	St.	1902
Northern Crown Bank	The Northern Bank	Univ	2.	1909
	Crown Book of Canada	Tallie	•	30.00
Union Bank of Canada	. IlInited Emnire Bank	Mor	Q 1	1011
Home Bank of Canada	(La Banque Internationale du Canada	lAnril	15.	1913
Standard Bank of Canada	Western Bank of Canada	Feb.	13.	1909
	Sterling Bank of Canada	Dec	31.	1924

<sup>The purchasing banks named in the latter part of the table are no longer in business.
Dates given since 1900 are those of the Orders in Council authorizing the absorptions.
The Banque d'Hochelaga after absorbing the Bank Nationale adopted the name Banque Canadienne</sup> Nationale.

Subsection 3.—The Volume of Business Transacted through the Banks.

In advanced industrial societies money is only "the small change of commerce". The great bulk of monetary transfers, particularly in the case of the larger transactions, is made through the banks. Thus it has been estimated that in the United States in 1917 about 6 p.c. of the business transactions of the country were financed by the use of money and the remaining 94 p.c. by the use of cheques. Accordingly, if we knew the aggregate amount of the cheques paid through the banks and charged to accounts, we should have an almost complete record of the volume of business transacted, and thus of the business activity of the country.

Statistics of this character were at first secured through the operation of the clearing houses—places where the representatives of all the banks met daily in the leading cities and presented for payment the notes of other banks and the cheques drawn upon other banks that had been paid into their institutions in the regular course of business. In Canada, the first clearing houses to be established were those of Halifax (1887), Montreal (1889), Toronto (1891), Hamilton (1891) and Winnipeg (1893), and the number has subsequently increased to 32. years, owing to the reduction in the number of the banks through amalgamations. the proportion of the inter-bank transactions recorded by the clearing houses to the grand total of banking transactions has declined, and the place of total bank clearings as a measure of business has been taken by total bank debits—i.e., the totals of cheques charged to accounts at all banks. The total bank debits at all branch banks situated in the clearing-house cities of Canada have been compiled for 1924 and subsequent years by the Canadian Bankers' Association for the Dominion Bureau of Statistics, which has published the figures monthly and annually with interpretative analyses. Further, in order that an estimate might be made of the proportion of banking transactions outside the clearing-house cities to the total, the Canadian Bankers' Association secured for the month of January, 1929. the grand total of all cheques charged to accounts at all branch banks throughout the Dominion. The results were published in the Bureau's Monthly Review of Bank Debits for February, 1929, and showed that the aggregate of transactions outside the clearing-house cities was in January, 1929, 14½ p.c. of the grand total in the clearing-house cities. The corresponding figures in the five economic areas were as follows: Maritime Provinces 90.6 p.c., Quebec 6.1 p.c., Ontario 17.2 p.c., Prairie Provinces 18.6 p.c., British Columbia 14.3 p.c. Only in the Maritime Provinces does the total of bank debits in clearing-house cities appear to inadequately represent the grand total of business transactions throughout the whole area.

Clearing-House Transactions. —The following table shows for the years 1928-32 the total volume of clearings in the clearing houses of Canada. These figures, it may be added, represent not only actual city clearings but exchanges between numerous rural branches of the banks in each district.

¹ The following is a description of the operation of the Central Clearing Fund: Since the beginning of January, 1927, balances due to, or by each member of, the Montreal, Toronto, Winnipeg and Vancouver clearing houses, after they have been settled and declared by the clearing-house manager, are communicated daily (in the case of the three latter clearing houses by telegraph to a trustee—The Royal Trust Company—in Montreal. Each bank maintains an account with the trustee to the credit of which Dominion notes are deposited. The trustee, on receipt of the daily advice, makes the appropriate credit or debit entry in each account. In the usual course the trustee has made the entries and balanced the account; should the debits of the day on balance exceed the amount of Dominion notes in the possession of the trustee, the bank concerned must deliver, within an hour of notification, an amount of Dominion notes sufficient to give it a credit balance. Inasmuch as the four cities mentioned are the settlement points for the clearing-houses in their respective zones, practically the whole of the banking transactions of the country are adjusted daily in Montreal in the accounts kept by the trustee.

25.—Amount of Exchanges of the Clearing Houses of Chartered Banks in Canada for the calendar years 1929-32.

Clearing House.	1928.	1929.	1930.	1931.	1932.
	\$	2			\$
Brandon	38.724.824	35,403,096	26.763.171	21,015,599	17,459,229
Brantford	72,529,308	76.801.737	58,564,628	48,891,417	39,446,268
Calgary	666.517.374	697,716,733	451.673.700	319,987,617	258, 257, 381
Chatham	43,568,049	41,712,000	32,815,670	27,388,592	22,190,250
Edmonton	351,325,045	358,961,724	293,550,893	237,843,012	
Fort William	59,588,926		43,543,156	34,553,840	28,973,198
Halifax	185,678,418	197,539,723	174,720,962	150,986,615	
Hamilton	337,852,407	350,828,242	310,976,401	247,414,617	190,818,400
Kingston	46,174,085	46,688,914	44,029,362	35,357,257	28,834,227
Kitchener	66,254,228		63,410,494	52, 182, 195	43,540,055
Lethbridge	40,774,009	38, 164, 110	29,064,557		17,287,271
London	180,871,281	183,917,716	168,047,076		
Medicine Hat	26,616,621	26, 445, 424	17,303.187		9,648,413
Moneton	49,385,815		51,039,289		
Montreal	8,072,843,473	8,279,414,820	6,917,957,798	5,773,473,678	3,971,576,104
Moose Jaw	73,000,603	72,493,575	59,359,874	37,751,168	27,706,507
New Westminster	44,775,067		43,641,522		
Qttawa	431,183,370		372,586,750		
Peterborough	48,837,555	51,283,226	47,113,834	38,026,819	
Prince Albert	25, 131, 852	27,389,869	22,887,338		14, 143, 193
Quebec	361,754,089	875,097,842	339,596,344		
Regina	312,089,797	337,388,121	252,351,215 124,224,187		
Saint John	150,715,381	152,472,005	36,465,041		
Sarnia	37,865,490	45,109,018 146,354,851	117,775,186		
SaskatoonSherbrooke	138, 687, 497 50, 673, 178		45,958,551		
Sudbury	30,073,110	27, 208, 321	57,927,754		
Toronto	7,674,864,018		6,036,838,536		
Vancouver	1.109.375.640	1,243,625,052	994.131.725		637, 132, 963
Victoria	134.095.845				
Windsor	280.032.888	298, 142, 566	214,689.007		
Winnipeg	3,443,151,986	3,393,339,677	2.517.469.597	2.253,265.522	
тимиров	4, 410, 101, 000	5,000,000,011	2,011,100,001		-,011,022,004
Totals	24 554 439 119	25 105 188 317	20.001.874.458	16.997 609 919	12,414, 154, 217

Bank clearings, though generally regarded as a leading barometer of business conditions, are defective in that they record only inter-bank transactions—transactions through which one bank becomes either the debtor or the creditor of another. They do not record the numerous transactions in which the transfer of value is made within a single bank, as, for example, where the purchaser and the seller of values that are paid for by cheque carry their accounts in the same bank. As the number of separate banks has in recent years been steadily diminishing through amalgamations, there being only 10 in December, 1932, as compared with 18 in 1923, interbank transactions are bearing a steadily decreasing proportion to the total of business transacted, a fact which goes far to explain the relative smallness of the increase in bank clearings from 1926 to 1929 and makes the extent of the subsequent decrease, as shown in Table 25, open to question.

Bank Debits.—Since bank clearings have ceased to be a satisfactory measure of general business, the Bureau of Statistics in 1923 took up with the Canadian Bankers' Association the question of securing a record of bank debits, i.e., of all cheques charged against accounts at all banks. The Bankers' Association agreed to secure from January, 1924, the monthly aggregate figures of the amount of cheques charged to accounts at all banking offices situated in the clearing-house cities of Canada, and the figures of cheques charged to accounts (bank debits) are given for the years 1928-32 in Table 26. The Weyburn Security Bank, which operated in southern Saskatchewan, voluntarily added a total of all cheques charged to accounts at all of its branches.

It will be noted, as establishing the need of the newer record, that bank debits for 1932 decreased 40.6 p.c. as compared with those of 1928, while bank clearings

in the later year show a decrease of 47.4 p.c. The bank debits are a comparable record for the five years; the bank clearings, owing to the reduction in the number of banks, are not a comparable record.

26.—Bank Debits at the Clearing-House Cities of Canada, by Individual Cities, calendar years, 1928-32.

	_			·	
Clearing-House Centre.	1928.	1929.	1930.	1931.	1932.
Maritime Provinces—		*	8	2	<u> </u>
Halifax	404.665,405	425, 487, 760	861,736,685	330,371,553	237,989,295
Moncton	91,313,729	99.597.577	101.018.427	87, 229, 007	73.548.793
Saint John	249,488,661	272,872.476	245,595,665	234,942,909	187,682,726
Totals	745, 467, 795	797,957.818	708,350,777	652,543,469	519,170,814
I Otali	110,101,130	101,001.020	100,000,711	002,010,100	
Quebec-	12 600 010 005	** *** 000 700	10 051 005 004	A 564 550 545	7 107 117 000
Montreal		15,558,098,739			7,135,517,032
Quebec	794,833,137	788, 145, 269	744,930,005	701.258.405 92.060.809	560,686,426
Sherbrooke	155,506,587	137,428,244	120,921,940	92,000,809	69,997,106
Totals	14,912,657,749	16,483,667,252	13, 137, 058, 339	10,550,072.979	7.766,200,564
Oatario-					
Brantford	143,943,039	166,590,813	126,813.356	106,212,582	85,488,727
Chatham	101,383,642	122,271,304	95,460,287	81,403,262	71.625,208
Fort William	108, 176, 187	102, 154, 515	78,028,739	66.540,124	55,385,694
Hamilton,	814,420.963	909.896,874	831,837,930		526,940,741
Kingston	79,595,640	83,879,278	79,797,075	64,828,365	55,085,899
Kitchener	142,995,237	159,265.585	139,515,780		96,266,553
London	404,700,773	424,805,150			315.954,273
Ottawa	2,089,409,008				1.579,527.632
Peterborough	92,760,882				55,426,709
Sarnia	120,923,729	146,820,023	124.524.399		95,058,795
Sudbury	-	34,116,876	87,109,599	58,832,961	40,328,991
Toronto	12,673,220.316	13,714,209,353	10,654,982,452	9,512,342,450	8,066.207.006
Windsor	541,319,833	594,318,762	428,655,192	310,203,205	215,676,051
Totals	17.812,849,249	18,543,268,230	15,044,340,286	13,376,840.354	11,258,872,279
Prairie Provinces—					 -
Brandon	61,324,007	62,315,237	50,605,166	39.802.614	33,569,832
Calgary	1,096,733,543	1,253,618,912			
Edmonton					393.433.460
Lethbridge			73,734,543		
Medicine Hat					21,077,192
Moose Jaw					61,064,580
Prince Albert	85,799,271	39, 150, 683			21.124.445
Regina					462,876,073
Saskatoon					
Winnipeg					
Branches of the Weyburn		1,100,000,00	1	1 41214142142	
Security Bank		40,562,191	25,099,552	3,173,4181	
Totals	8,006,712,808	7,922,806,296	6,279,080,873	5,201,211,730	4.797,205,735
British Columbia-					
New Westminster	92,705,331	105,357,294	93.831.458	67,987,301	51,107,251
Vancouver		2,365,678,383			1,190,466,183
Victoria	422,080.397				261.265.467
					_
Totals	2,499,271,499	2,922,782,247	2.322.471.491	1,805,799,730	1,502,838,901

¹ Three months only, the Weyburn Security Bank having been absorbed by the Imperial Bank of Canada as of May 1, 1931.

Subsection 4.—Government and other Savings Banks.

In a comparatively new country where capital is relatively scarce, it is a natural thing that the banks which finance the business institutions should also absorb the bulk of the people's savings for use in promoting the business of the country. Thus in Canada the great bulk of the current savings of the people is found in the savings or notice deposits of the Canadian chartered banks, the annual average figures of which are given for recent years in Table 10 of this chapter, the 1932 average being

\$1,376,325,128. Further, the current savings of the Canadian people are going very largely into the purchase of life insurance, the total premiums paid in the single year 1931 aggregating \$220,523,727. In comparison with the enormous figures of notice deposits in chartered banks and with total insurance in force, the deposits in the special savings banks are comparatively small, but are none the less significant.

There are three distinct types of savings banks in Canada at the present time, in addition to the savings departments of the chartered banks and of trust and loan companies. First, there is the Post Office Savings Bank, the deposits in which are a direct obligation of the Dominion Government. Secondly, there are Provincial Government savings banking institutions in Ontario and in Alberta, where the depositor becomes a direct creditor of the province. Thirdly, there are in the province of Quebec two important savings banks, the Montreal City and District Savings Bank and the Caisse d'Economie de Notre-Dame de Québec, established under Dominion legislation and making monthly reports to the Department of Finance.

Dominion Government Savings Banks.—Prior to 1929 there were two classes of Dominion Government savings banks in Canada, the Post Office Savings Bank, under the Post Office Department, and the Dominion Government Savings Bank, attached to the Department of Finance. The former was established under the Post Office Act of 1867 (31 Vict., c. 10) in order "to enlarge the facilities now available for the deposit of small savings, to make the Post Office available for that purpose, and to give the direct security of the Dominion to every depositor for repayment of all money deposited by him together with the interest due thereon". Branches of the Government Savings Bank proper, under the authority of the Finance Department, were established in the leading cities of Canada under the management of the Assistant Receivers-General and in other places, in the provinces of Nova Scotia and New Brunswick, under managers appointed by the Governor in Council. The Government Savings Bank was amalgamated with the Post Office Savings Bank in 1929. Historical statistics for both systems will be found in Table 27 and more detailed figures covering the last six years in Table 28.

27.—Deposits with Dominion Government Savings Banks, June 30, 1868-1906, and Mar. 31, 1997-32.

Nove.—Figures for all intermediate years will be found on p. 833 of the 1926 Year Back.

Dominion Dominion Postal Postal Government Government Fiscal Year. Fiscal Year. Savings Savings Savings Savings Bank. Bank. Bank. Bank. \$ \$ \$ 14,006,158 13,519,855 39,995,406 294,589 1,588,849 1,483,219 1915 40.008,418 42,582,479 1,822,570 1916 4.245.091 7,107.287 17.888.536 2,926,090 13,633,610 3,945,669 15,090,540 41,283,479 12,177,283 11,402,098 1918 1880 1885. 1919. 41,654,960 21.990.653 19,021,812 31,605,594 1890..... 1920 10,729,218 26,805,542 17,644,956 1895.... 1921 29,010,619 10, 150, 189 24,837,181 22,357,268 37,507,456 15,642.267 1922 9,829,653 45,368,321 16,649,136 16,174,134 1923 9.433.839 9.055.091 25, 156, 449 1924 1906.. 45,736,488 1907 47.453.228 15.088.584 1925 24,662,060 8,949,073 47.564,284 24.085,669 15,016,871 1926 8,794,870 45.190,484 14.748.436 14.677.872 1927 23,402,337 8,519,706 23,463,210 1910.... 43,586,357 1928 7,640,566 14.673,752 28.375.770 43.330,579 1999 43.563,764 14.655.564 1930 26,086,036 42,728,942 24,750,227 13.976.162 41.591.286 1932. 23.919.677

¹ Do not include Provincial Government savings banks.
² Included in Post Office Savings Bank. 52230—58

Dains, Pat. 01, 1041-044							
Item.	1927.	1928.	1929.	1930.	1931.	1932.	
-	\$	\$	\$	8	\$	\$	
Deposits during year	4.117,623	4,084,555	2,910.147	2,746,050	2,535,563	3,582,988	
Interest on deposits	928,822	908,608	842,025	784,582	732,738	706,270	
Total cash and interest	5,046,445	4,993,163	3,752,172	3,530,632	3,268,296	4,289,258	
Withdrawals	5,959,275	6,449,036	4,519,507	5,820,366	4,604,105	5,119,808	
At credit of depositors	31,922,281	31,104,015	28,875,779	26,086,036	24,750,227	23,919,677	

28.—Total Combined Financial Business of Post Office and Dominion Government Savings Banks, Mar. 31, 1927-32.

Provincial Government Savings Banks.—Institutions for the deposit of savings are operated by the Provincial Governments of Ontario and Alberta, while a similar institution was in operation in Manitoba from 1924 to 1932 when the depositors' accounts were taken over by the chartered banks.

Ontario.—In the session of 1921, the Legislature of Ontario authorized the establishment of the Province of Ontario Savings Office, and in March, 1922, the first branches were opened. The funds received from this source are used almost exclusively to finance farm loans under the Agricultural Development Act. Interest at the rate of 3 p.c. per annum compounded half yearly is paid on all accounts. The deposits are all repayable on demand. Total deposits on Oct. 31, 1932, were \$23,709,820 and the number of depositors at that date was over 90,000. Seventeen branches are in operation throughout the province.

Alberta.—In Alberta the Provincial Treasury receives savings deposits and issues demand savings certificates bearing interest at 4 p.c., or term certificates for one, two or three years, in denominations of \$25 and upwards, bearing interest at 5 p.c. The total amount in savings certificates on Sept. 30, 1932, was \$8,579,917, made up of \$8,029,651 in demand certificates and \$550,266 in term certificates.

Other Savings Banks.—The Montreal City and District Savings Bank, founded in 1846 and now operating under a charter of 1871, had on Dec. 31, 1932, a paid-up capital of \$2,000,000, savings deposits of \$54,311,409, and total liabilities of \$56,307,239. Total assets amounted to \$60,907,618 including over \$44,000,000 of Dominion, provincial and municipal securities. The Caisse d'Economie de Notre-Dame de Québec, founded in 1848 under the auspices of the St. Vincent de Paul Society, incorporated by Act of the Canadian Legislature in 1855 and given a Dominion charter by 34 Victoria, c. 7, had on Dec. 31, 1932, savings deposits of \$12,399,452, a paid-up capital of \$1,000,000 and total assets of \$16,207,494.

The co-operative people's banks of Quebec (174 reported to the Provincial Government in 1931) are also an important element in promoting thrift and assisting business in that province. Thus on Dec. 31, 1931, savings deposits in these banks amounted to \$7,436,861, while the amount on loan was \$9,762,339. Loans granted in 1931 numbered 16,203 amounting to \$2,998,046. Profits realized amounted to \$594,235.

29.—Deposits in the Montreal City and District Bank and the Caisse d'Economie de Notre-Dame de Québec, as at June 30, 1868-1986, and Mar. 31, 1907-32.

Note Figures for a	ll intermediate vears :	will he found on n.	. 833 of the 1926 Year P	look.

At End of Fiscal Year,	Deposi's.	At End of Fiscal Year.	Deposits.	At End of Fiscal Year.	Deposits.
1868. 1870. 1875. 1880. 1885. 1890. 1895. 1900. 1935. 1907. 1908.	5,369,103 6,611,416 6,681,025 9,191,895 10,908,987 13,128,483 17,425,472	1909	\$29,867.973 32,239,620 34,770,386 39,526.755 40,133,351 39,110,439 37,817,474 40,405,087 44,139,978 42,000,543 46,799,877 53,118,053		\$ 58,576,775 58,292,920 59,327,961 64,245,811 65,837,241,344 69,940,351 72,695,422 70,809,603 68,846,366 69,820,422 68,683,324

Section 3.—Loan and Trust Companies.

Business such as that now transacted by loan and trust companies was first carried on by an incorporated Canadian company in 1844, when the Lambton Loan and Investment Co. was established, while the Montreal Building Society was incorporated by c. 94 of the Statutes of 1845. In order to legalize and encourage such operations in Upper Canada, an Act was passed by the Canadian Legislature in 1846, followed in 1847 and 1849 by Acts in New Brunswick and Nova Scotia respectively. These early companies were termed building societies; their activities comprised mainly the lending of money on the security of real estate and also the lending of money to members without their being liable to the contingency of losses or profits in the business of the society. In addition to these operations, such companies were authorized by an Act of 1859 to "borrow money to a limited extent". Later, by the Building Societies Act of 1874, authority was given to receive money on deposit and to issue debentures, subject to certain restrictions as to amounts of deposits.

The number of loan and savings societies in operation and making returns to the Government at Confederation was 19, with an aggregate paid-up capital of \$2,110,403 and deposits of \$577,299. Rapid increases in the number of companies and total volume of business resulted from subsequent legislation until in 1899 102 companies (including trust companies) made returns, showing capital stock paid up of \$47,337,544, reserve funds of \$9,923,728 and deposits of \$19,466,676; total liabilities had increased from \$3,233,985 to \$148,143,496 between 1867 and 1899. By 1913 the number of companies had declined, through amalgamations and absorptions, to 74 (including 16 trust companies) with a combined paid-up capital of \$68,091,042, reserves of \$35,959,342, deposits of \$32,681,806 and total liabilities of \$478,658,228.

The laws relating to trust and loan companies were revised by the Loan and Trust Companies Acts of 1914 (4-5 Geo. V, cc. 40 and 55), with the results that the statistics of provincially incorporated loan and trust companies ceased to be collected. The statistics of Tables 31 and 32 refer only to those companies operating under Dominion charter, except that beginning in 1926 the statistics of loan companies and trust companies incorporated by the province of Nova Scotla, and brought by the laws of that province under the examination of the Dominion Department of Insurance, have been included. Also, since 1922 provincially incorporated loan and trust companies make voluntary returns of their principal sta-

tistics to the Dominion Department of Insurance, so that all-Canadian totals are again available for recent years. As indicating the progress of the aggregate of Ioan company business in Canada, it may be stated that the book value of the assets of all Ioan companies rose from \$188,637,298 in 1922 to \$213,649,794 in 1931. The total assets in the hands of the trust companies increased from \$805,689,070 in 1922 to \$2,410,991,525 in 1931. The latter figure included \$2,177,646,644 of "estates, trusts and agency funds" (Table 30.)

Functions of Loan Companies.—The principal function of loan companies is the lending of funds on first mortgage security, the money thus made available for development purposes being secured mainly by the sale of debentures to the investing public and by savings department deposits. Of the loan companies operating under provincial charters, the majority conduct loan, savings and mortgage business, generally in the more prosperous farming communities.

Functions of Trust Companies.—Trust companies act as executors, trustees and administrators under wills or by appointment, as trustees under marriage or other settlements, as agents or attorneys in the management of the estates of the living, as guardians of minor or incapable persons, as financial agents for municipalities and companies, and, where so appointed, as authorized trustees in bankruptcy. Some companies receive deposits, but the lending of actual trust funds is restricted by law. The figures of Table 30 are of particular interest in the case of trust companies, which, on account of the nature of their functions, are mainly provincial institutions, since their chief duties are intimately connected with the matter of probate, which lies within the sole jurisdiction of the provinces.

30.—Summary Statistics of the Operations of Dominion and Provincial Loan and Trust Companies in Canada, 1931.

T () 1 NT	COMPANIES	

Item.	Provincial Companies.	Dominion Companies.	Total.
	\$	\$	\$
Book value of assets	65,728,238	147,921,556	213.649.794
Book value of assets Liabilities to the public	31,586,796	110,779,994	142,866,790
Capital Stock— Authorized	43,394,400	65, 150, 000	108,544,400
Subscribed	19,950,421	28,743,300	48,693,72
Paid up	17,879,937	20,680,307	38,560,24
Reserve and contingency funds	13,041,719	14,753,181	27,794,900
Other liabilities to shareholders	3,879,535	645,111	4,524,64
Total liabilities to shareholders	34,801,191	36,078,599	70,879,790
Net profit realized during year	1,462,974	2,098,299	3,561,273

TRUST COMPANIES.

Assets — Company lunds	l 125,829,165 l	15,459,347 25,718,221 215,698,469	81,797,495 151,547,386 2,177,646,644
Totals	2, 154, 115, 488	256, 876, 037	2,410,991,525
Capital Stock— Authorized Subscribed Paid up. Reserve and contingency funds Unappropriated surplus Net profit realized during year	31,830,376 28,377,831 20,865,045	22,650,000 11,884,240 10,493,609 3,478,889 522,015 592,177	95,300,000 43,714,616 38,871,440 24,343,934 2,945,695 4,335,002

31.—Liabilities and Assets of Loan Companies Chartered by the Dominion Government, 1914-31.

LIABILITIES.

	Liabiliti	es to Shar	boldere.	Liabilities to the Public.							
Dec. 31	C14-1				ares and re Stock.		Interest				
	Capital Reserve Funds.		Total.1	Total. Canada. Elsewhere and Sundries.		Deposits.	Due and Accrued.	Total.2			
	\$	8	\$			\$	\$				
1914 1915 1916 1917 1918	19,401,856 19,673,934 19,813,217 19,945,858	9,878,266 10,319,176 10,705,215 10,938,193	30, 155, 708 29, 993, 110 30, 518, 432 30, 884, 051	6,764,836 6,889,946 7,075,081 7,442,982	26, 101, 702 25, 538, 301 24, 653, 657 22, 430, 846 23, 501, 565	9,193,194 8,987,720 8,934,825	340,627 347,864 351,420 364,087	38,792,172			
1920 1921 1922 1923 1924	25, 750, 966	14, 278, 619	40,629,689	17.682 083	18,451,054 20,265,766 22,390,990 24,315,010 21,901,431	15 868 926	480.547	60,386,903 63,600,093			
1928 ⁵	23, 498, 336 20, 699, 710 20, 139, 831 20, 292, 840 20, 475, 116	14,861,280 14,867,432 14,113,871 14,438,022 14,632,128	38,977,937 38,596,121 36,179,771 35,806,640 35,799,585	36,613,088 47,818,386 51,269,133 52,857,277 58,058,682	21,600,001 21,572,810 19,965,321 15,292,362 14,813,287 15,063,313 14,837,565	21,316,150 27,019,323 30,671,257 29,602,789 31,581,913	663,987 868,694 940,528 942,178 978,891	80,447,480 95,895,897 98,453,583 98,847,526 106,378,655			

ASSETS.

Dec. 31—	Real Estate. ³	Mortgages on Real Estate.	Collateral Loans.	Bonds, Debentures, Stocks and other Company Property.	Cash on hand and in Banks.	Interest, Rents, etc., Due and Accrued.	Total.4
	\$		*	\$	\$	\$	\$
1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1929 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939 1939	1, 779, 030 1, 485, 267 1, 577, 576 1, 512, 520 4, 753, 049 4, 979, 779 5, 309, 854 5, 515, 170 4, 035, 532 3, 982, 921 4, 150, 307 3, 999, 808 4, 172, 704 6, 156, 227	52, 807, 357 51, 981, 926 49, 712, 872 48, 293, 988 63, 725, 084 67, 147, 513 69, 824, 985 73, 858, 720 71, 468, 506 79, 106, 407 89, 873, 578 102, 501, 121, 365 103, 806, 670 105, 503, 088	1,759,128 1,618,865 1,916,976 1,772,148 1,722,148 1,722,803 1,532,366 1,161,886 1,585,861 2,610,947 2,700,720	15,328,797 16,967,305 16,445,635 18,568,856 20,210,387 18,426,169 18,884,434 17,874,808 20,834,907	3, 933, 004 3, 241, 053 478, 220 3, 023, 839 2, 838, 636 4, 800, 649 3, 467, 822 3, 636, 592 3, 442, 928 4, 234, 648 5, 672, 479 3, 258, 762 3, 193, 801	679, 966 681, 246 751, 475 524, 664 261, 810 2, 790, 348 2, 989, 460 3, 353, 822 2, 470, 756 2, 180, 700 2, 274, 535 1, 746, 138 1, 834, 287 2, 559, 065	71, 992, 666 70, 872, 297 69, 676, 223 69, 995, 028 74, 520, 021 90, 413, 261 96, 698, 810 102, 462, 990 104, 866, 602 101, 919, 837 110, 638, 667 120, 321, 095 134, 669, 734 134, 733, 527

¹ Includes other liabilities to shareholders. ² Includes other liabilities to the public. ³ Book value of real estate for companies' use and other real estate. ⁴ Includes other assets. ⁴ Includes statistics of loan companies chartered by the Government of Nova Scotia but inspected by the Dominion Department of Insurance.

32.—Liabilities and Assets of Trust Companies Chartered by the Dominion Government, 1914-31.

COMPANY FUNDS-LIABILITIES.

		To Share	ehold e ra		To the Public.	
Dec. 31—	Capital Paid up.	Reserve Funds.	Other Liabilities.	Total,	Taxes, Borrowed Money, etc.	Total.
		\$	\$	\$	\$	\$
1914	6.051,146; 5.307,128; 5.673,670; 6.266,203; 7.356,474; 7.465,276; 7.673,777 7.673,401 7.772,749; 9.523,618; 9.666,449	2,541,413 1,159,479 1,245,559 1,275,759 1,477,617 1,643,464 1,908,753 1,746,579 1,912,123 1,908,887 1,918,667 2,261,890 2,313,464	233 ,738 287, 214 352, 153 415, 938 391, 625 391, 625 167, 303 46, 068 5, 674 169, 390 184, 153 393, 932	8,704,986 6,700,345 7,206,473 8,925,072 8,159,758 9,391,563 9,766,104 9,446,659 9,687,310 10,884,436 11,969,661 12,373,845	606,005 620,470 731,220 676,379 616,378 561,265 499,264 329,827 832,724 766,783 232,813 580,380	10, 743, 40 7, 306, 35 7, 826, 94; 7, 656, 29; 8, 836, 13; 10, 007, 94; 10, 827, 36; 9, 945, 922 9, 966, 41; 10, 520, 03; 11, 651, 21; 12, 202, 47; 12, 944, 22;
19271 19281 19291 19301 19311	9,824,031 10,424,249 10,512,879 10,260,025 10,493,608	2,653,673 2,877,766 3,325,020 3,431,538 3,478,889	549,905 257,288 718,240	12,921,081 13,851,920 14,095,187 14,409,803 14,601,712	741,364 325,914 294,897	13,492,36 14,593,28 14,421,10 14,704,70 15,066,43

COMPANY FUNDS-ASSETS.

Dec. 31—	On Real Estate, First Liens.	Cons. On Real Estate, Second Liens.	On Stocks and Securi- ties.	Real Estate.	Government, Municipal and School Securities Owned.	Stocks.	Cash on hand and in Banks	All other Assets belonging to the Companies.	Total Assets of the Com- panies.
	\$	\$	\$	\$		\$	\$	*	
1914	3,906,986 3,993,484 8,983,962 4,432,455 4,736,064 4,408,914 5,254,434	102,395 544,747 297,387 101,784 557,171	647,524 374,392 253,781 294,472	701,564 908,618 973,022 1,043,682 1,551,673 1,969,737 2,091,322 2,140,344	2,400,914 1,584,234 1,656,304 1,598,971 2,323,064 2,318,344 1,993,823 2,808,630 3,228,722 3,176,348	349, 294 253, 779 264, 186	603,618 473,687 481,672 524,368 203,431 705,064 804,469 917,019 659,466 732,025	1,529,522 1,585,513 1,789,364 1,936,365 1,635,773 847,463 1,317,785 1,412,205 1,573,406 2,483,675 1,763,355 1,571,595 1,603,906 1,589,288 1,623,031 1,779,338	7,301,169 7,794,712 7,652,961 8,830,272

Includes statistics of trust companies chartered by the Government of Nova Scotia but inspected by the Dominion Department of Insurance.

32.—Liabilities and Assets of Trust Companies Chartered by the Dominion Government, 1914-31—concluded.

TRUST FUNDS-LIABILITIES.

	Gua	aranteed Fun	ds.	Estate, Trust	
Dec. 31	Principal.	Interest Due and Accrued.	Total.	and Agency Funds.	Total,
	8	\$	\$	\$	8
1914	8,560,468	-	8,560,468	29,832,343	38,392,811
1915	9,727,099	-	9,727,099	31.002,934	40,730,033
1916	10,405,318	-	10,405,318	36,756,902	47, 162, 220
1917.,	11.149.958	-	11,149.958	38,141,389	49,291,347
1918	12,748,379		12,743,379	56.194,857	68,938,236
1919	12,704.672	-	12,704,672	52,084,047	64,788,719
1920	9,339,070	135,971	9,475,041	57,225,303	66,700,344
1921	8,424,128	125,514	3,549,64 2	79,252.639	87,802,281
1922	8,473,720	126,868	8,600,588	92,449,298	101,049,886
1923	10,306,767	178,096	10,484,863	102,764,835	113,249,698
1924	14,027,120	133,583	14.160,703	123,682,289	137, 242, 992
19252	15,897.339	Ì	15,897,339	131,420,502	147.317,841
19262	17,979,412	ļ	17,979,412	139,777,235	157,756,647
19272	22,464,753		22,464,753	161.040.061	183,504,814
19282	24, 105, 724	-	24, 105, 724	202,655,185	226,760,909
19292	24,465,263	-	24,465,263	210,005,726	234,470,989
19302	26,408,829		26.408,829	205,282,593	231,691,422
19312	25,718,221	Ì	25,718,221	215,698.469	256,876,037

Includes money in trust for investment amounting to \$2,562,455 in 1914, \$3,113,170 in 1915, \$3,799,149 in 1916, \$3,443,682 in 1917 and \$5,170,463 in 1918; corresponding amounts are included under the heading "Estate, trust and agency funds" for the years 1920 to 1931. The figures for 1910 are not available. *Includes statistics of trust companies chartered by the Government of Nova Scotia but inspected by the Dominion Department of Insurance.

Section 4.—Sales of Canadian Bonds.

Interesting aspects of public financing and of the investment of capital in Canadian development during the twentieth century are illustrated by the sales of Canadian bonds since 1904 shown in Table 33. (The figures are reproduced from *The Monetary Times Annual*, 1933.) In the first part of this table, the bonds sold in each year are divided according to whether the financing was for Dominion or Provincial Governments, or for municipalities, railways or other corporations, while in the second part of the table the sales in each year are distributed according to sales in Canada, the United States and Great Britain.

The total sales of Canadian bonds naturally reached a very high mark toward the close of the War owing to the Dominion Government financing required to cover the war expenditures. However, with the exception of the years 1918 and 1919, the total sales were greater in 1931 than in any other year, owing largely to the Dominion Government's conversion loans.

Dominion Government financing through bond sales since 1907 may be divided into three periods: the first from 1908 to 1914, when the money was required largely for internal development of the country, public works and Government railways; the second from 1915 to 1919, when war expenditures required very large borrowings; and the third since the War, when the issues have been largely required for refunding former loans at lower interest rates and for expenditures in connection with public works and railways.

Provincial bond issues have been on a much larger scale since the War than formerly, probably due to the development of provincially-owned public utilities and of improved highways. Sales of the bonds of Canadian municipalities, on the other hand, were greater in 1913, toward the end of the "land boom", than they have been in any other year, although sales in 1930 almost reached the record. However, allowing for the increased population in cities and towns, there has not been the same marked increase in the average annual sales of municipal bonds in the period since the War, compared with the period before the War, that is noticeable in the case of provincial bonds.

Sales of corporation bonds, which from 1926 to 1930 had averaged over \$257,000,000 per year, dropped to \$10,550,000 in 1932, this being largely due to the uncertainty of the industrial outlook. Railway bonds showed a somewhat similar decline to \$12,500,000 in 1932.

A very striking change has taken place during the present century in the market in which Canadian bond issues are principally sold. Prior to the War, a great part of the capital required for Canadian development was drawn from Great Britain, and the major portion of Canadian bond issues were sold there. The coming of the War temporarily eliminated that market, and Canadians turned largely to the United States for outside capital. However, the great increase in wealth during and since the War has enabled a much greater proportion of public and industrial financing to be done at home, and beginning with the Victory Loan campaigns, Canadians not only learned how to invest their money in bonds, but had the necessary funds to invest on a large scale in bond issues. These facts are reflected by the figures in Table 33 showing that since 1915 a greatly increased proportion of the total issues of Canadian bonds has been sold within Canada. Thus, in 1932, 80 p.c. of all bonds issued were sold in Canada, 17 p.c. in the United States and 3 p.c. in Great Britain.

33.—Sales of Canadian Bonds, by Class of Bond and Country of Sale, calendar years 1964-32.

(From The Monetary Times Annual.)

CLASSES OF BONDS.

Calendar Year.	Dominion.	Provincial.	Municipal.	Railway.	Corporation.	Total.
	\$	\$	\$	\$	\$	
1904	- 1	11,146,000	14,684,247	-	9.344,000	35, 174, 247
1905	-	346,087	9.013,168	-	125,515,281	134,874,531
1906	-	10,000,000 9,274,000	8,332,008 14,430,540	-	35,655,000	53,987,008 82,635,740
1908	47,665,000	550.083	44,814,930		58,931,200 103,326,508	196,356,521
1909	62,500,000	9.187.500	31.582.960	100,803,180	61,134,612	265, 158, 252
1910	45,000,000	10.000,000	49.043.325	41,090,000	85,867,265	231.000.590
1911	20,000,000	11.375.000	30, 295, 838	85,611,265	139,530,885	266,812,988
1912	25,000,000	25,639,700	47, 159, 288	45.014.925	130, 124, 069	272,937,982
1913	34,066,666	36,850,000	110.600,936	65,895,880	126,381,813	373,795,295
[914	48,666,666	56,100,000	79,133,996	59,719,000	29,315,405	272,935,067
1915	170,000,000	48,105,000	67,393,328	33,675,000	15,933,000	335,106,328
1916	175,000,000	33,173,000	93,977,542	22,240,000	32,492.000	356,882,542
1917	650,000,000	15,300,000	24,198,079	17,700,000	18,850,000	726,039,079
1918	689,016,000	18,605.000	43,570,361	19,600,000	4,565,000	775,356,361
1919	753,000,000	52,374,000	26,274,089	35, 359, 133	42,930,000	909,937,222
1920	- 1	125.993,000	56,371,891	96,500,000	46,050,276	324,914,667
1921	-	160.745.400	84.776,931	96,733,000	61,335,825	403,591,156
1922	200,000,000	114.918,000	87,088,877	13,505,100	76,885,500	492,397,477
1923	290,000,000	106,279.000	83,686,422	27,500.000	97,352,320	514,817,742
1924	175,000,000 169,333,333	89,640,000 106,970,000	88.731,612	157,375,000 40,925,195	69, 179, 180	579,925,792
1925	105,000,000	76,633,267	46.218.987 65.020.194	34,500,000	120,085,833 250,919,200	483,583,348
1926 1927	45,000,000	114,795,500	72,742,114	80,000,000	289,680,067	532,072,661 602,217,681
1928	15,000,000	92.992.500	27,120,588	48.396.000	285,083,000	453,592,088
1929		119,960,500	98, 667, 809	199,200,000	243.330.600	661,158,909
1930	140,000,000	160,004,000	109.648.063	137.238.000	220,335,000	767, 245, 063
1931	858, 109, 360	126, 239, 205	85,290,066	121.750.000	59,432,000	1,250,820,571
1932	226, 250, 000		95,600,632			

DISTRIBUTION OF SALES BY COUNTRIES.

Calendar Year.	Sold in Canada.	Sold in United States.	Sold in Great Britain,	Total.
	\$	\$	\$	3
04	24,235,247	3,354,500	2,584,500	35, 174, 24
)5		9,256,782	85,621,395	134,874,53
)6	23,304,958	4,118,350	26,563,700	53,987,00
)7.,		4,779,000	63.095,057	82,685,76
08		6.316,350	165,455,031	196,356,5
)9, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10,367,500	194,356,788	265, 158, 2
l0.,,		3,634,000	188,070,128	231,000,5
l 1		17,553,967	204,269,143	266,812,9
[2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		30 , 966, 406	204.236,394	272,937,9
L3.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	45,603,753	50,720,762	277,470,780	373,795,2
14	32,999,860	53,944,548	185,990,689	272.935,0
(5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	115,825,214	178,606,114	41,175,000	335,106,3
16		206,943,764	47.000,000	356,882,5
17,		174,708,365	5,000,000	726,039,0
18.,,		33,310.000	14.600,000	775,356,3
19		199,446,670	5, 105, 138	909,937,2
20	101,830,667	223,084,000	-	824,914,6
21,		178.113.613	12,151,000	403,591,1
22		242,212,493	-	492,397,4
23	427.868,742	84,517.000	2,432,000	514,817,7
24	. 336,758,887	239,544,405	3,622,500	579,925,7
25,,		181.870,000	30,411,666	483,533.3
26		259,209,943	9,000,000	532.072,6
27, . , , . , ,		228,714,000	4.866.667	602,217,6
29		159,512,000	16,000,000	453,592,0
29,.,		263,054,000	19,109,000	661,158,9
80		393,632,000	4,745,000	767.245,0
31,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		155,920,000	4,100,000	1,250,820,8
32 ,., 	377,752,632	81,015,000	14,350,000	473, 117.6

Section 5.—Foreign Exchange.

The Canadian dollar, adopted as our currency in 1857, was equivalent to 15/73 of the pound sterling; in other words, the pound was equal to \$4.866 in Canadian currency at par, and remained so, with minor variations between the import and export gold points representing the cost of shipping gold in either direction, until the outbreak of the Great War. Further, during the first eleven years after Confederation, the Canadian dollar was at a premium in the United States, as the United States dollar was not, after the Civil War, redeemable in gold until 1878. From the latter date, the dollar in the two countries was equivalent at par, and the variation was only between the import and export gold points or under \$2 per \$1,000.

At the outbreak of the Great War, both the pound sterling and the Canadian dollar were made inconvertible into gold and fell to a discount in New York, though this discount was "pegged" or kept at a moderate percentage by sales of United States securities previously held in Great Britain, borrowing in the United States, and, after the United States entered the War, by arrangements with the United States Government. After the War, the exchanges were "unpegged" about November, 1920, and the British pound went as low as \$3.18 and the Canadian dollar as low as \$2 cents in New York. In the course of the next year or two, exchange was brought practically back to par, and Great Britain resumed gold payment in 1925 and Canada on July 1, 1926. From then until 1928, the exchanges were within the gold points, but in 1929 the Canadian dollar again fell to a moderate discount in New York.

Recent Movements in Canadian Exchange. —Because Canada has no foreign exchange mechanism of her own, Canadian transactions in exchange and monetary gold have been governed by New York and London. Great Britain buys much more from Canada than Canada buys from her, but the reverse is the case as regards the trade between Canada and the United States. The result is that there is a supply of bills on London in excess of the amount needed to meet current obligations in Great Britain. By offering these for sale for United States funds in London or New York, a triangular balance is approximated by book transactions and without the cross transfers of the larger quantities of gold which would otherwise be necessary. The volume of sterling exchange on Canadian account thus passed to the New York market does not greatly influence New York rates of sterling exchange under normal conditions; on the contrary, the volume of the New York-London transactions is sufficient to carry the Canadian rates along with them. Canadian exchange transactions with other countries are handled through London or New York and are unimportant of themselves, depending on the relationships with Canadian-New York and Canadian-London transactions.

In September, 1931, the equilibrium of international exchange was seriously disturbed. This unfortunate turn of events followed a period of over six years during which the nations of the world had worked steadily towards the stabilization of their currency systems upon a gold basis. Within two months of the time when Great Britain found it necessary to suspend free gold shipments, however, only a very small number of countries, including the United States and France, were left with currencies unshaken by preceding abnormal gold movements. The decision of Great Britain to go off the gold standard (Sept. 21, 1931) resulted in a sharp depreciation of sterling in New York, and partly owing to the triangular nature

¹Revised by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics.

of the situation, but in some measure due to the immediate withdrawals of funds from Canadian banks by United States interests, short selling of Canadian exchange and other influences, Canadian rates depreciated also and have since fluctuated broadly with sterling.

The weakness in Canadian dollar exchange during the last quarter of 1931 was checked with the turning of the year, and a steady recovery began which continued without interruption for three months. The extent of this improvement may be gauged by reference to the average premium quoted on U.S. funds in Montreal, which was reduced from 21 p.c. in December, 1931, to 11.4 p.c. in March, 1932. Canadian exchange in March reflected in part a rise in sterling which accompanied the repayment by the United Kingdom of large currency defence loans made in the preceding August. A minor reaction occurred in April and May, but steady strength was again apparent from June to October inclusive. Financing of the fall grain movement and bond flotations in New York contributed largely to the position attained by the Canadian dollar at this time. An appreciable set-back was experienced in the two closing months, but net gains for the year were nevertheless substantial.

34.—Monthly Averages of Exchange Quotations at Montreal, 1931 and 1932.

Note,—The nominal closing quotations in Canadian funds upon which these averages are based, have been supplied by the Bank of Montreal.

Month. Par.	Austr Pou	nd.	Aust Schil	ling.	Belg Bei				Kr	nark. one. 680	Finl Mar •02	
	1931.	1932.	1931.	1932. \$	1931.	1932.	1931.	1932.	1931.	1932.	1931.	1932.
August September October	1 + 1 - 1	3 · 1622 3 · 0711 2 · 9704 3 · 0321	-1405 -1408 -1409 -1412 -1411 -1414 -1410 -1473 -1571 -1592	- 1668 - 1619 - 1576 - 1570 - 1696 - 1625 - 1618 - 1618 - 1553 - 1542 - 1633 - 1628	+1390 +1393 +1395 +1398	-1631 -1594 -1555 -1559 -1590 -1608 -1592 -1582 -1532 -1605 -1601	·0296 ·0296 ·0298 ·0297 ·0297 ·0310 ·0332 ·0335	.0338 .0339 .0329 .0336 .0342 .0337 .0327 .0324 .0348	+2684 +2680 +2685 +2591 +2466	-2214 -2184 -2236 -2308 -2285 -2300 -2203 -2096 -1992 -1933 -1978 -1968	·0252 ·0252 ·0252 ·0252 ·0252 ·0252 ·0253 ·0264 ·0270 ·0240	·0187 ·0187 ·0190 ·0200 ·0199 ·0204 ·0187 ·0169 ·0166 ·0174 ·0169
Month.	Fra Fra	ne.	Gern Rei ma	chs- rk,	Holland, Italy. Guilder. Lira.		ra.	Kre	way.	Spain. Pesetu.		
Par.	1931.	1932.	1931.	1982.	1931.	1932.	1981.	1982.	1931.	1932.	1931.1	
	*	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
January February March April May June July August September Octobor November December	0393 0392 0391 0391 0392 0392 0393 0411 0441 0442 0480	-0446 -0433 -0429 -0453	-2377 -2382 -2382 -2381 -2379 -2345 -2392 -2477 -2616 -2674	-2779 -2719 -2654 -2696 -2732 -2723 -2710 -2629 -2604 -2750 -2751	-4030 +4013 -4016 +4016 -4021 +4033 +4046 +4212 +4534 +4542 +4530	.4710 .4614 .4490 .4524 .4594 .4664 .4584 .4488 .4404 .4648	0524 0523 0524 0523 0523 0524 0524 0525 0544 0579 0582	-0591 -0595 -0578 -0573 -0583 -0590 -0585 -0587 -0560 -0592 -0590	· 2677 · 2675 · 2676 · 2676 · 2684 · 2685 · 2685 · 2670 · 2467 · 2282 · 2287	·2193 ·2155 ·2192 ·2124 ·2108 ·2092 ·2024 ·1982 ·1982 ·1982 ·1941 ·1954	•1037 •1026 •1080 •1041 •0972 •0974 •0936 •0883 •0941 •1001 •0976 •1026	·0977 ·0836 ·0847 ·0858 ·0951 ·0926 ·0919 ·0897 ·0897 ·0946 ·0943

For footnote see end of table, p. 924.

November

December

Month.

34.-Monthly Averages of Exchange Quotations at Montreal, 1931 and 1932concluded.

Switzer-

Franc.

and.

Sweden. Krona.

Argentine. Peso.

(paper).

Brazil.

Milreis.

Mexico.

Peso.

Hong Kong. Dollar,

1.12342

·1570 L-1558

Par.	·2	680	.	1930		4244	1	1196	-4	985	-30)00r
	1931.	1932	1931	. 1982	193	1. 1932	1931	1. 1932.	1931.	1932.	1931.	1932.
	\$	\$	\$	\$	\$	3	\$	\$	*	\$	\$	\$
January February March April May June July August September October November December	2682 2679 2679 2682 2682 2682 2686 2730 2598 2288 2308	-221 -220 -212 -214 -216 -209 -203 -197 -192 -202	0 -192 7 -192 1 -193 2 -194 2 -194 3 -194 3 -195 1 -204 1 -213 8 -220	22	18	08 -29 57 -28 73 -28 32 -29 93 -29 91 -29 68 -29 97 -28 46 -28 -28 -29	58 -08 72 -08 84 -07 09 -06 64 -07 64 -07 03 -06 03 -06 16 -06 86 -07	61 -0743 12 -0713 44 -0766 87 -0856 57 -0886 28 -0877 34 -0854 35 -0827 82 -0820 41 -0868	4661 +4655 +4751 -4841 +4926 -4929 +4933 -5151 -4707 -4495 -4773	-420 -378 -369 -342 -311 -322 -329 -331 -343 -378	4 ·2264 5 ·2524 6 ·2524 1 ·2451 9 ·2468 1 ·2500 5 ·2409 9 ·2618 0 ·2754 1 ·2964	· 2883 · 2942 · 2713 · 2660 · 2628 · 2727 · 2650 · 2674 · 2627 · 2542 · 2616 · 2502
Month.		Indi Rup	ee,	Jap Ye	n.	Shan Ta	el.	Ste	ndon. erling.		New Y Doll:	ar.
Par,	_	+36	50	- +49	185	- 4	67²	4	8666	_	1.0	00
	1	1931. j	1932.	1931.	1932.	1931.	1932.	1981.	193	2	1931.	1932.
		\$	\$	\$	S	3	. \$	\$	\$	_ -	\$	\$
January February March April May June July August September October		-3614 -3600 -3616 -3626 -3628 -3629 -3616 -3778 -3456	3072 3018 3116 3182 3164 3159 3092 3011 2921 2826	4958 4945 4940 4942 4953 4950 4952 5171	4250 3943 3601 3664 3516 3172 2774 2642 2518		3887 3936 3693 3503 3493 3521 3414 3508 3441 3419	4 · 86275 4 · 85764 4 · 85089 4 · 86019 4 · 86467/ 4 · 87632/ 4 · 86705/ 4 · 86863/ 4 · 69286/ 4 · 38230/ 4 · 10007/	5 4·20 6 4·06 0 3·95 7 3·83 8 3·71	445 258 514 120 425 524 085 703 124	1-0020 1-0002 1-0004 1-0005 1-0026 1-00304 1-04293 1-12249	1-1708 1-1433 1-1142 1-1120 1-1328 1-1526 1-1472 1-1386 1-1050 1-0545

Par rates given are those recognized in pre-war years, no post-war financial readjustment having been effected.

3921 ·8431 4 190870

3.78830

CHAPTER XXIII.—INSURANCE.1

Insurance business is transacted in Canada by companies of the following classes, viz., (1) companies incorporated under the laws of the Dominion of Canada or of the late "Province of Canada". (2) companies incorporated under the laws of the provinces of Canada, and (3) companies incorporated or formed under the laws of British and foreign countries. The word "companies" as here used, includes fraternal benefit societies, associations and exchanges which transact the business of insurance. The Dominion Insurance Acts provide that companies of classes (1) and (3) above may not transact business anywhere in Canada unless registered² by the Dominion, but these Acts also provide that fire insurance on property in Canada may be effected in companies of class (3) even though not registered, if the insurance is effected without solicitation, advertising or the use of the mails, and if an office is not maintained in Canada, though property to be insured may be inspected and losses may be adjusted. Insurance so effected is generally known as "unlicensed insurance". Companies of class (2) above may transact business in the province of incorporation, subject to compliance with the laws thereof, or in any other province subject to compliance with the laws thereof, or, on compliance with the Dominion laws, may be granted Dominion registration. Most of these companies limit their business to the province of incorporation or to one or more other provinces; a few only have been granted Dominion registration.

What has been said above implies that jurisdiction concerning insurance companies and insurance business is divided between the Dominion and the provinces. There have been many references to the courts and appeals to the Privy Council with a view to determining the respective legislative domains, both in respect of insurance legislation specifically and in respect of legislation affecting companies generally, including insurance companies. The last Privy Council decision was handed down in 1931. It may now be taken as established that the Parliament of Canada may require companies formed or incorporated outside of Canada to obtain Dominion registration and continue to be so registered as a condition of transacting business in Canada, and these companies may be required to make returns from time to time of their business and doings in Canada and to furnish evidence of their solvency. The powers of the Dominion go much further in reference to companies incorporated by the Parliament of Canada, but include all of the powers which may be exercised over companies formed or incorporated outside of Canada and registered by the Dominion. The Acts passed in 1932 implement the powers of the Dominion as determined by the Privy Council decisions.

The Dominion Acts under which companies are registered are administered by the Department of Insurance under the Minister of Finance. The chief officer of the Department of Insurance is the Superintendent of Insurance. The first Superintendent was appointed in 1875 as head of a newly created Insurance Branch of the Department of Finance. In 1910 the Insurance Branch was constituted into a separate Department, the Department of Insurance, under the Minister of Finance.

¹The statistics of Fire, Life and Miscelfaneous Insurance have been revised by G. D. Finlayson, Superintendent of Insurances, and those pertaining to Government Annuities by H. H. Ward, Deputy Minister of Labour.

²Prior to 1932, the Dominion Insurance Acts provided for the "licensing" of companies; the Acts passed in 1932 provide for "registration". The change in terminology does not mean any change in substance.

The Canadian and British Insurance Companies Act, 1932 (22-3 Geo. V, c. 46). The Foreign Insurance Companies Act, 1932 (22-3 Geo. V, c. 47).

Precedent to obtaining first registration, in addition to filing certain documents, including a full and complete financial statement, a company must satisfy the Minister that it is sound and solvent and must make the required initial deposit of securities, varying from \$10,000 to \$100,000, depending on the class of business to be undertaken. Annual returns are required of all registered companies and the Acts require an examination to be made by the Superintendent or on his behalf, of the books and records of companies with a view to substantiating the accuracy of the statements filed and the soundness of the companies. Should any company show an unsatisfactory financial condition, the Acts require immediate remedial measures to be taken. British and foreign companies are required to maintain in Canada assets sufficient to cover all of their liabilities in Canada, while Canadian companies are required to maintain in Canada all of their assets except such as it may be necessary to deposit outside of Canada as security for "outside of Canada" business.

The statistics herein given in respect of companies registered by the Dominion are divided into three classes relating to: (1) insurance against fire, (2) life insurance, and (3) miscellaneous insurance, viz., accident, automobile, aviation, burglary, credit, earthquake, explosion, forgery, guarantee, hail, leakage, live-stock, sickness, steam boiler, title, tornado and weather insurance. These statistics are compiled from the reports of the Department of Insurance; throughout they apply to calendar years.

Since 1915, the Department of Insurance has collected statistics, included herein, of business transacted by provincial companies licensed by the provinces, classified as to: (1) business transacted within the province of incorporation, and (2) business transacted in other provinces.

Further, returns in respect of "unlicensed insurance", above referred to, were required under Section 16 of the Special War Revenue Act for taxation purposes, and statistics compiled from these returns have been published in preceding editions of the Canada Year Book, following Table 7. This section of the Act having been held unconstitutional by Privy Council decision, Oct. 22, 1931, on an appeal from the Court of the King's Bench of the province of Quebec, the returns for 1930 are incomplete; consequently the table is omitted from the present edition. By an amendment to the Act at the last session of Parliament, a section analogous to Section 16 was enacted, applicable to unlicensed insurance. Further, provision is also made for returns of unlicensed insurance under the Foreign Insurance Companies Act, 1932, and under the Canadian and British Insurance Companies Act, 1932, so that statistics for 1932 and following years will be available.

Statistics of Dominion Government annuities are given at the end of this chapter. The Department of Labour administers the Acts under which these annuities are sold.

Section 1.—Fire Insurance.

Fire insurance in Canada began with the establishment by British fire insurance companies of agencies, usually situated in the sea ports and operated by local merchants. The oldest existing agency of a British company is that of the Phœnix Fire Office of London, now the Phœnix Assurance Co., Ltd., which commenced business in Montreal in 1804. On account of the growth of the insurance business of these early British companies, branch offices were established and local managers were appointed, charged with directing the companies' affairs in Canada.

The Halifax Fire Insurance Co. is the first purely Canadian company of which any record is available. Founded in 1809 as the Nova Scotia Fire Association, it was chartered in 1819 and operated in the province of Nova Scotia until 1919, when it was granted a Dominion licence. Among the other pioneer fire insurance companies still in operation, mention may be made of the following: the Quebec Fire Assurance Co., which commenced business in 1818 and was largely confined in ownership and operations to Quebec province; the British America Assurance Co., incorporated in 1833, the oldest company in Ontario; the Western Assurance Co., organized in 1851, and, after a rapid and steady growth, one of the largest companies of its kind on the continent; two United States companies, the Ætna Insurance Co., Hartford, Conn., and the Hartford Fire Insurance Co., which commenced business in Canada in 1821 and 1836 respectively.

The report of the Superintendent of Insurance for the year ended Dec. 31, 1931, shows that at that date there were 243 fire insurance companies doing business in Canada under Dominion licences; of these 52 were Canadian, 66 were British and 125 were foreign companies, whereas in 1875, the first year for which authentic records were collected by the Department of Insurance, 27 companies operated in Canada—11 Canadian, 13 British and 3 American. The proportionate increase in the number of British and foreign companies from 59 p.c. to 79 p.c. of the total number is a very marked point of difference between the fire and life insurance businesses in Canada, the latter being carried on very largely by Canadian companies.

Although in its early days the Dominion did not prove a very lucrative field for fire insurance companies, the great advance in building construction and the wide use of improved fire appliances and safety devices have materially reduced the danger of serious conflagrations and have placed the risks assumed by companies in Canada on an equality with those of other countries.

A feature of the fire insurance business, besides the increase in premiums received, is the continued increase in the number of companies which are operating on the mutual or reciprocal plan. These companies, in which all profits or losses are directly received or paid by the policyholders, are making themselves felt as competitive factors in the fire insurance business.

Statistics of Fire Insurance.—Statistical tables of fire insurance in Canada follow, illustrative of the progress of total business since 1869 and of the operations of individual companies for the year 1931. The net amount of fire insurance in force on Dec. 31, 1931, with companies holding Dominion licences, was \$9,544,-641,293, while the net amount in force with provincial companies on the same date was \$1,341,184,333. In addition, policies amounting to \$1,005,857,392 were in force during the year 1929 (the latest year for which information is available, see p. 937) by companies, associations or underwriters not licensed to transact business in Canada. Thus the grand total fire insurance in force on Dec. 31, 1931, probably approximated \$12,000,000,000. According to preliminary figures, fire insurance in force in companies registered by the Dominion decreased by \$290,263,005 in 1932.

Table 1 shows figures of the growth since 1869 of componies registered by the Dominion, the relationship between losses paid and net premiums written, and the variation in the cost per \$100 of insurance. It will be observed that the cost of insurance reached a maximum in 1904 and 1905; there has since been a steady decrease with the exception of the years 1921, 1922 and 1924, when temporary reversals of the downward swing were in evidence. It is noteworthy that the cost

of fire insurance has decreased by 50 p.c. since 1905. Table 2 shows the business done in Canada by individual companies during the year 1931, while in Tables 3, 4 and 5 are given figures of the assets, liabilities, income and expenditure during the years 1927 to 1931, classified by nationality of companies. A further summary of business is given by provinces in Table 6 for the years 1930 and 1931, showing premiums and losses classified by provinces and by nationality of companies. Further, a general summary of the business transacted by both Dominion and provincial licensees is given in Table 7.

 Summary Statistics of Fire Insurance, in Companies Operating under Dominion Licences, calendar years 1863-1932.

							
Year.	Amount in Force at end of Year.	Net Premiums Written during Year.	Losses Paid during Year.	Percentage of Losses to Premiums.	Gross Amount of Risks Taken during Year.	Premiums Charged thereon,	Average Cost per \$100 of Insurance.
	\$	\$	\$	p.c.	5	\$	- 5
1869	188,359,809	1,785,539	1,027,720	57-56		-	
1870	191,549,586 228,453,784	1,916,779 2,321,716	1,624,837 1,549,199	84 · 77 66 · 73	199, 102, 070 244, 437, 172	_	
1872	251,722,940		1,909,975	72.66		_	1
1873	278,754,835	2,968,416	1,682,184	55·67	271,095,928	-	
1874	306,844,219		1,926,159	54 - 68			
1875 1876	864.421,029 404,608,180		2,563,531 2,867,295	71·31 77·33	331,098,419 401,148,747	_	l -
1877	420,342,681	3,764,005	8,490,919	225-58	385, 786, 566		
1878	409,899,701	3,368.430	1,822,674	54-11	359,847,757	3,723,530	1.35
1879	407,357,985	3,227,488	2,145,198	66-47		3,608,508 3,958,437	
1880 1881	411,563,271 462,210,968	3,479,577 3,827,116	1,666,578 3,169,824	47.90 82.83			
1882	526,856,478	4,229,706	2,664,986	63.01	478,044,416	4,850,717	1 01
1883	572,264,041	4,624;741	2.920,228	63 - 14	513,580,302	5,379,950	1-05
1884	605,507,789		3,245,323	65-16		5,934,773	
1885 1886	611,794,479 586,773,022	4,852,460 4,932,335	2,679,287 3,301,388	55·22 66·93		5,684,758 5,854,172	
1887	634,767,337	5,244,502	3,408,514	64-90	532,757,088	6, 145, 188	1.15
1888	650,735,059	5,437,263	3,073,822	56-53	541,580,007	6,390,296	1.18
1889	684,538,378	5.588.016	2,876,211	51-47			1·16 1·13
1890 1891	720,679,621 759,602,191	5,836,071 6,168,716	3,266,567 3,905,697	55-97 63-31			
1892	821,410,072	6.512.327	4.377.270	67.22	687, 175, 688		
1893 1894	814,687,057 836,067,202	6,793,595 6,711,369	5,052,690 4,589,363				
		·					
1895 1896	837,872,864 845,574,352	6,943,382 7,075,850	4,993,750 4,173,501	58.98			1.25
1897	868,522,217	7,157,661	4,701,833		663,698,309	8,304,227	
1898 1899	936,869,668		4,784,487 5,182,038	65-09 65-51	681,160,689 756,257,098	8,564,124 9,316,685	1·26 1·23
1900	992,332,360		7,774,298	93.31			
[901	t.038,687,619	9,650,348	6,774,956	70-20	821,522,854	11,688,958	
1902	1,075,263,168	10,577,084	4,152,289		892,049,886	13,087,251	1·47 1·50
1903 1904	1,140,453,716 1,215,013,931		5,870,716 14,099,584				
1905	1,318,146,495		6,000,519				
1906	1,443,902,244		6,584,291			18,554,730	
1907	1,614,703,536	16.114.475	8,445,041			20,492,863 21,968,432	1.50 1.50
1908	1,700,708,263 1,863,276,504		10,279,455 8,646,826		1,579,975,867	22, 293, 633	1.41
1910			10,292,393			24,684,296	1.36
1911,,,,,	2,279,868,346	20,575,255	10,936,948			26,867,170	1.35
1912	2,684,355,895	23,194,518			2,374,161,782 2,925,200,553		1 · 29 1 · 21
1913 1914	3,151,930,389 3,456,019,009		15,347,284	55.81	8,104,101,568	36,185,927	1.17
1915			14, 161, 949	53-49	3,111,552,903	36,048,345	1-16

Figures from 1869-76 not available.

1.—Summary Statistics of Fire Insurance in Companies Operating under Dominion Licences, calendar years 1869-1932—concluded.

Year.	Amount in Force at end of Year.	Net Premiums Written during Year.	Losses Paid during Year.	Percentage of Losses to Premiums.	Gross Amount of Risks Taken during Year.	Premiums Charged thereon.	Average Cost per \$100 of Insurance.
	\$	\$	*	p.c.	\$	\$	\$
1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932.	5,969,872,278 6,020,513,832 6,348,637,436	31, 246, 530 35, 954, 405 40, 031, 474 50, 527, 937 47, 312, 564 48, 168, 310 51, 169, 250 49, 333, 718 51, 940, 075 52, 595, 923 51, 375, 637 54, 826, 851 56, 112, 457 52, 646, 520 50, 342, 649	16, 379, 101 19, 359, 355, 387 21, 335, 387 27, 572, 560 32, 848, 020 32, 142, 404 29, 182, 698 26, 705, 975 20, 831, 931 25, 544, 664 30, 209, 839 30, 427, 988 29, 938, 409	52: 42 53: 84 41: 67 43: 41 58: 28 68: 192 52: 79 48: 87 52: 79 40: 55 46: 57 53: 84 57: 47	4, 049, 059, 999 4, 606, 035, 056 5, 423, 569, 961 6, 790, 670, 610 6, 139, 531, 168 6, 471, 133, 294 7, 311, 835, 110 6, 987, 536, 461 7, 646, 634 8, 531, 139, 424 9, 187, 294, 958 10, 791, 096, 165 10, 331, 188, 608 10, 789, 737, 477	43, 515, 822 48, 770, 182 57, 577, 632 71, 143, 917 68, 161, 786 68, 347, 294 73, 037, 471 71, 146, 802 81, 104, 612 76, 423, 855 80, 413, 215 87, 317, 411 82, 700, 147 86, 741, 655	1.07 1.06 1.06 1.05 1.11 1.06 1.00 1.02 0.98 0.93 0.93 0.88 0.81

Figures for 1932 are subject to revision.

2.—Fire Insurance Business Transacted in Canada, by Companies, 1931.

Сотрапу.	Gross Amount of Risks Taken during Year.	Premiums Charged thereon.	Rate of Pre- miums per cent of Risks.	Net Cash Premiums Written.	Net Losses Incurred.	Percent- age of Losses Paid to Pre- miums Re- ceived.
	s		p.c.	\$		p.c.
Canadian Companies.	- I	•	P.C.	•		
Acadia	54,293,701	613,828	1 · 13	211,546	114,381	54 - 07
Antigonish	344,950	3,887	1 · 13	3,887	3,565	
Beaver	14,588,389	124,093	-85	29,812	14,711	49.35
British America British Canadian	72,696,217 16,988,415	666,800°	.92 1.01	433,753 99,522	268,668 68,493	61 · 94 68 · 82
British Colonial	62.029.704	172, 186 604, 861	1.01	269, 221	199, 435	74+08
British Empire.	19.325.758	217.421	1-13	135.076	86.565	64.09
British Northwestern	58.972.648	835, 835	·57	173.540	81.048	46.70
Canada Accident and Fire	48,015,861	412, 140	-86	206.084	108,700	52.75
Canada National	19,973,194	213,890		120,666	77,138	68 - 98
Canada Security	31,906,472	314,650		150,018	67,147	44.76
Canadian Fire	64,764,432	593,367	.92	452,550	179,993	39-77
Canadian General	35,032,691 16,910,180	304,764 188,252	.87 1.11	127, 199 140, 205	91.465 87.806	71.91 62.63
Canadian Indemnity	12,840,697	90,970	1.71	35,113	13.987	39.78
Casualty Company	8.840.139	70.201	79	38.026	6.894	18.13
Commerce Mutual	9,504,546	559.746	5.89	241,247	106,688	44.22
Consolidated Fire	19,464,470	189,856	80,	86.326	48,724	56.44
Cumberland	230,025	3,465	1.51	3,400	1,722	50.63
Dominion Fire	54, 191, 746	493,390		308,340	139,071	45-10
Dominion of Canada General	54,845,012	397,074	-72	212,807	71,935	33.80
Ensign.,	11.697,828	116,692	1.00	69,188	38,248	55 28
Fire Insurance Co. of Canada		652,748	1·01 ·83	308.565	195,872	63 - 32
General Accident of Canada. Globe Indemnity	23.174,188 62.351.352	191,639 448,814	.72	90,564 142,044	40, 137 80, 629	44·32 56·76
Grain	56,608,025	426,073	75	192,044 335,545	50,629 142,984	42.61
Guardian Insurance	42,747,673	344.385	81	160,381	74,613	46.52
Halifax	47,381,379	445,450		110,882	66.240	59.74
Hudeon Bay	126,876,876	778,923	l ⋅61l	210,990	108.592	51.64
Imperial Guarantee				64,711	38, 106	

2.—Fire Insurance Business Transacted in Canada, by Companies, 1921—continued.

Company.	Gross Amount of Risks Taken during Year,	Premiums Charged thereon.	Rate of Pre-miums per cent of Risks.	Net Cash Premiums Written.	Net Losses Incurred.	Percent- age of Losses Paid to Pre- miums Re- ceived.
Canadian Companies— concluded.	•		_			_
Imperial Insurance	33,905,148	286, 604	-85	128, 107	75,058	58-59
Kings Mutual	2,819,290	42.524	1.51	41,351	22, 114 25, 832	53 48
LaurentianLiverpool—Manitoba	2,150,635 70,219,907	28,922 597,905	1·34 ·85	-69,381 $248,526$	25,832 140,449	56·51
Liverpool—Manitoha Lordon and Lancashire G'tee	5,511,648 27,828,333	56,550	1.03	21,821	9,278 89,973	42.52
London-Canada	I 97 828 3331	261,689 305,923	-94 -62	148,112 124,122	89,973 55,988	60·75 45·11
Mercantile Mount Royal National Liverpool North Empire	62,392,297	597,901	-96	124,122 -75,975	195,459	I -
National Liverpool North Empire	28,687,999 37,607,786	276,465 393,212	-96 1-05	71,022 130,890	41,004 76,677	57·73 58·58
NORTH West Fire	37,607,786 17,861,588 51,289,888	393,212 170,992	96	95,549	76,677 60,755	63.59
Occidental	51,289,888 35,906,843	438, 171 291, 937	· 85	202,096 120,584	97,099 62,574	48.05 51.89
Pictou County	753,825	6.754	-90 -78	6,678	8,909	58·54 42·15
PioneerPortage la Prairie	46,162,745 44,029,165	359,113 664,610	1.51	147,563 375,513	62,194 228,307	60.80
Portage la Prairie	48,365,188 23,400,968	891,024 166,708	·81	166,454 81,773	81,378 39,357	48·89 48·13
Reliance Scottish Canadian	23,043,396	184,292	-80	79,687	46.893	58.85
Trans-Canada	21,414,348 106,738,284	225, 171	1 · 05 1 · 51	127,809 1,038,49t	78,573 555,334	61·48 53·48
Wawanesa	139,535,789	1,611,512 1,026,685	74	606,557	377,286	62.20
Totals, Canadian.	2,411,446,768	18, 484, 953	-92	8,788,558	5,048,528	57-44
British Companies.						
Alliance	85, 115, 018	561,678 326,478	-86	465,839	314,199	67-45
Anglo-Scottish	45,599,688 121,682,128	326,478 861,749	·32 ·71	152,489 686,188	74,074 483,349	48.58 63.15
AtlasBankers' and Traders'	3,433,743, 11,308,999	42,806	1.25	-32,269	17,075	-
British and European British Crown	11.308,999 59.839.539	97, 408 441, 591 173, 333	·86 ·74	52,028 316,295	36,295 186,468	69·76 58·95
British CrownBritish General	59.839,539 24,644,699	173,333	-70	316,295 108,161	89,418	82-67
British Law British Oak	13,594,922 18,976,767	107.810 157.537	·79	73,998 119,567	68, 147 97, 751	92·09 81·75
British Oak British Traders'	47, 172, 836	242, 173	-51	171.648	1 88,716	51-69
Caledonian, Car and General	51,083,044 40,319,487	462,215 287,996 246,350	+90 -71	325,838 161,183	152,575 69,501	46.83 43.12
Central	40,319,487 31,210,568	246,350	-79	161,254	86,636	53.73
Century.	54,670,452 7,041,105	420,989 42,169	·77	222,966 29,589	#14,934 14,479	51.55 48.93
Commercial Union	131,971,585	1,017,241	-77	706.721	401,366	56.79
Cornhill	35,223,537 88,114,769	260, 635 552, 574	·74 ·63	221,617 372,151	116,807 261,780	52·71 70·34
Eagle Star Employers' Liability Essex and Suffolk	136,385,884	552,574 918,275	-67	662, 198	370,593	55-96
Essex and Suffolk	33,285,579 68 805 342	203,409 455,735	·61 ·66	81,709 339,237	37,940 190,693	46·43 56·21
Guardian Assurance	68,805,342 156,388,935	1.372.253	-88	1,056,487	670,110	63 - 43
Guildhall Law Union and Rock	13,640,206	100,140 450,234	·73	69,468 359,100	55,819 227,902	80·35 63·46
Legal and General	13,640,206 50,257,963 21,342,887	192,007	-90	144,223	76,026	
Liverpool and London and		1,817,264	.82	1,164,458	688, 254	59-11
Globe Local Government	221,141,376 13,428,669 197,709,288	130,317 1,497,318	· ·82	73,425 1,171,895	688,254 32,010	43.60
London and Lancashire Ins London and Provincial	197,709,288 6,864,845	1,497,318 64,588	·76	1,171,895 48,031	820, 128 32, 496	68.88
London and Scottish	1 24.090.4211	158,510	-66	98, 851	60,347	61-17
London Assurance	1 67.832.6831	552,803 471,960	.8] 1.01	447,482 74,442	226,618 76,978	50-64 108-41
Marine	46,519,893 None	None	-	None	None	i -
Marine	43,958,968	271,280	-62 -89	189,659 105,688	90,320 65,676	47 · 62 62 · 14
Motor Union	18,307,750 26,950,976	163,738 199,297	.74	105,688 135,701	59,163	43.60
N/a_ah Dalalah	1 191 201 4611	1,292,800 814,493	·71 ·78	875.336 597,298	478,675 335,396	54.68 56.15
Northern Assurance Norwich Union	111,134,483 145,417,108	1, 190, 574		879,969	533,702	

2.—Fire Insurance Business Transacted in Canada, by Companies, 1931—continued.

		<u></u>				
Company.	Gross Amount of Risks Taken during Year,	Premiums Charged thereon.	Rate of Pre- miums per cent of Risks.	Net Cash Premiums Written.	Net Losses Incurred.	Per- cent- nge of Losses Paid to Pre- miums Re- ceived.
British Companies concluded.	\$	\$	p.c.	8	*	p.c.
Ocean Accident and Guaran-						
tee	63,032,036	480, 201	.76	329.6[1	181,448 163,895	55.05
Palatine	57,384,136 35,741,301	455,080 215,429	·79 ·60	301,124 139,234	101,331	54·43 72·78
Pearl	l 26.585.117	202.575	-76	151,902	103,729	68 - 29
Pearl. Phœnix of London	312,681,474 27,542,751	2,582,978	· 83	1.279.830	850.946	66-49
Provincial	27,942,791; 37,898,553	184,793 372,182	+67 -99	109,637 297,302 486,830	83,512 153,754 397,038	76-17 51-72
Provincial	37,698,553 113,688,376	646,036	.57	486,830	397,038	81.56
Queensland	1,209,623	14,725	1.21	— 158, 673	3 481	
Royal Exchange	13,044,829 136,367,441	88,236 888,462	-68 -65	48,767 630,832	28,368 373,293	59.17
Royal Erchange. Royal Insurance. Royal Scottish Scottish Metropolitan.	571,010,914	4,015.919	·70]	1,833,968	1,011,158 74,925	55-14
Royal Scottish	35,675,177	236,519 287,598	·66	151,182	74,925	49 56 74 70
Scottish Union		442,575	.83	180,638 375,788	134,988 228,117	I 60∙70
Scottish Union	32,416,129 3,238,523 21,992,728 148,332,951	202,878 23,209 146,518	•63	159,969	112.036	70 04
Southern	3,238,523	23,209	.72	18,146	1,215 47,799	9·24 46·00
State Assurance	148 332 951	1,096,293	·67	103,910 749,451	474,486	63.31
Union Assurance	82.580,100	655,876	.79	445,509	217,248	48.76
Union of Canton	70,943,243	486,066	-61	298,275	119,500	40.06 37.20
Union Marine, United British	38,466,828 14,414,058	319,681 116,085	-88 -81	411,232 78,260	152,985 32,985	42.15
United British Westminster	14,414,058 9,887,002	66,982	-68	None	None	- '
World Marine	26.582.2021	130,713	+49	89,795	61,114	68.06
Yangtaze. Yorkshire	4,172,245 50,579,270	28,567 434,254	·68 ·86	6,557 337,823	56,456 213,810	63 - 29
Totals, British	4,481,031,513	\$3,389,657	-75	21,728,506	13,131,972	69 - 44
Foreign Companies.						
Ætna	84,977,187	496,602 107,237	.58	414.030	218,372 41,754	52.73
Agricultural'	20,658,996 62,313,984	107.237	.52	62,470 135,454	41,754	66-84 74-15
Alliance Insurance	35,554,606	371,802 263,884	·60	68,071	100,443 27,880	42.20
American Control	21.368.8021	192,012 53,769	- 90	81.674	1(1,894	137.00
American Colony. American Constitution Fire. American Constitution Fire.	7.685,444	53,769	.70	40,582	28,923 1,034	71 · 27 34 · 13
American Equitable	518,417 19,795,192	3,684 145,575	·71	3,031 125,606	85,842	67.94
American Exchange	I 5.974 000L	18,551	:31	16,775	106	-63
American Home Fire American Insurance	21,997,186 31,159,748 19,897,494	198, 117	·90 ·63	143,865 112,969	71,640 67,527	49·80 59·77
American Reserve	19, 897, 494	196,275 104,487	-53	56,336	60,825	107-97
Automobile	1,445,330j	8,614	-60	7,530	33	-44
Baloise	13.712.647 18,577,150	153,291 115,564	1·12 -62	116,017 70,077	76,664 65,666	66-08 93-71
Caledonian-American	10.838.421	102,887	- 95	57,3491	17,603.	30.69
California	15,820,130)	129,250	-82	88,490	61,928	69.98
CamdenCentral Manufacturere'	11,386,161 6,884,957	70.495 80,436	-62 1-17	45,624 66,016	31,861 19,584	69·83 29·67
Central Union	7,567,195	47,853	-68	16,499	5,192	31.47
Chicago Fire and Marine Citizens of New Jersey	18,332,762	97.531	-53	32,700	22,063	67 - 47
City of New York	12,703,130	99,779	·79	None	None	46.87
Columbia	58,864,515 333,284	499,027 3,896	1 - 17	81,218 10,343	38,064 8,834	85-41
Connecticut	51,441,177	3,896 382,389	-74	181.104	99,511	54.95
Continental	76,082,260 3,797,508	582,558	.77	428, 105	256, 127	59-83 574-18
County Fire	166,035,235	30,995 1,743,897	+82 1-05	2,895 17,857	16,624 7,126	574 · 18 39 · 91
Cosmopolitan	166,035,235 23,428,209	169.574	.72	33.2211	19.902	84.95
Federal	None 1,287,400	None 14,892	1.16	None 18,676	None 8,570	_
Federal	70,937,386	497,404	70	367, 614	207,568	56.46
52230—59 1						

2.-Fire Insurance Business Transacted in Canada, by Companies, 1931-continued.

Сотрапу.	Gross Amount of Risks Taken during Year.	Premiums Charged thereon.	Rate of Pre- miums per cent of Risks.	Net Cash Premiums Written.	Net Losses Incurred.	Percentage of Losses Paid to Premiums Received.
Foreign Companies-		\$	p.c.	\$	\$	p.c.
continued.		0.00 F00			101 010	
Fire Association of Penna Fireman's Fund	32,421,561 49,597,716	246,589 316,463	·76	113,046 229,014	104,812 128,553	92·72 56·13
Firemen's Insurance	26,356,516	316, 463 275, 737	1.05 ⋅82	216,598 169,944	124,755 111,584	57.60 65.66
Fire Reassurance	38, 152, 008 10, 928, 719	312,233 100,688	•92	68,655	39,423	57-42
First National,	15,896,124 21,399,788	135,608 220,113	-85 1-03	91,881 168,110	64,057 123,603	69·72 73·53
La Foncière Franklin	28,148,532 2,246,887	225, 181	-80	None	None	1
Fulton Fire	2,246,887 30,429,172	19,872 252,091	·86 ·83	14,043 157,096	4,282 78,043	30-49 49-68
Gen. Insurance of America	97 650 437	218,987	.79	167,551	l 54.601	1 32-59
Germanic	6,031,624 4,988,706 38,839,285	67,111 46,484	1·11 ·93	50, 190 35, 142	13,107 25,848	26·11 73·55
Girard	38,839,285 172,467,901	46,484 279,289 1,202,450	·72	35,142 185,233 794,227	89,422 467,638	48 · 28 58 · 88
Globe and Rutgers Granite State Great American	010.010.8	48, 144		32,889	22,278 360,349 77,319 122,858	67.72
Great American	252,441,635 34,447,986 21,716,674	2,343,479	·93	870.719	360,349 77,319	41·38 54·72
Hanover Hardware Dealers' Hartford Fire Home Fire and Marine	21,716,674	211,548 383,860	1.77	141,298 272,325	122,858	45.11
Hartford Fire	189,567,132 12,977,082	1,011,964 66,677	·73 ·51	872,689 56,451	434,858 24,157	49·84 42·79
Home Insurance	271.008.700	2,244,815	-88 -98	1,728,912 None	1,283,641 None	74 · 25
Homestead	43,523,271 127,889,450	65,298 388,109 802,803	-89	173,394	76,267	43.98
Imperial Assurance Insurance Co. of N. A Insurance Co. of State of Pa.	127,889,450 36,056,860	802, 8 03 239,391	-63 -66	583,791 136,488	388,302 89,246	
La Salle	884.887	4,976	-60	-307	1,851	_
Lincoln Insurance	29,911,168 14,588,661	367,897 122,169	1 · 22 · 84	118,949 99,614	146,667 49,058	123 · 30 49 · 25
Lumbermen's Mutual Ins	7,633,684	122,169 109,833 15,769	1.44	90,522	21, 193	23.41
Lumber Mutual	979,436 13,083,297	117, 133	1.61 .90	13,717 82,333	8,560 65,304	79.32
Mechanics and Traders' Merchants' and Manufactur-	1,288,180	14,950	1.16	12,106	12,260	101-27
ers'	30,410,708	271,503	-89	178,010	81.658	45.87
Managemen	1 91 770 425	283,431 158,998	·86 ·73	237,434 117,685	132,867 55,628	
Michigan Fire	10,968,308	101, 116	-92	61,236	82,962	53.83
MILIATA NATIONAL	1 21, 200, 449,	219,811 450,599	1.03 1.35	152,444 294,158	103,816 165,410	1 56-23
Mill Owners' Mutual Milwaukee Mechanics' Minnesota Implement	None 21,716,674	None 383,860	1.77	-638 $272,325$	4,933 122,858	
National-Ben Franklin	27,586,164	296,721	1.08	224,788	156,072	69-43
National Fire of Hartford National Liberty	81,212,983 9,687,681 20,866,943	551,541 81,661	·68 ·85	404,395 None	236,970 None	58·60 -
National UnionLa Nationale	29,866,943	209,484	.70	173,765 544,239	87,962	50·62 76·17
La Nationale	58,475,624 63,162,597	645,617 456,780	1.10 .72	544,239 140,418	1 76,326	
Newark New Brunswick	39,561,217	175,891	·44 ·76	None 164,599	I Mono	70-35
New Hampshire New Jersey	32,214,939 6,768,300	244,900 63,305		43,187	115,800 17,300	40.06
New York Fire New York Underwriters	23,031.613 63,013.884	63,305 207,131 446,724	·90 -71	157,569 44,234	73,804 21,466	40.04
Niagara	[36, 458, 740]	244,232	.67	179,518	1 193,868	107 - 99
North River Northwestern Mutual	34,329,813 76,115,371	171,669 1,207,193	1.59	102,737 879,821	66,041 357,917 133,099	64·28 40·68
Northwestern National	76,115,371 32,247,705 3,120,695	1,207,193 347,901 82,056	1.08	236,007 32,033	133,099 1,966	56·78 6·14
Ohio Farmers'	3,120,695 16,945,865	285.361	1+68	85,921	l 29.190	33.97
Pacific American	48,772,067 446,523	376,861 8,659	.77	297.616	192,536 2,844 77,903	64 · 69 37 · 29
Phenix of Paris	25,851,622	226, 827 25, 065	.89	7.626 143,305	77,903	54 · 36
Philadelphia rite	25,851,622 3,785,931 94,206,923	25,065 678,361	·66	17, 211 300, 115	980 164,904	5+69 54-95
Phoenix of Hartford Pilot Reinsurance	None	None	I -I	None 97,755	None 69,957	71.56
Providence Washington Provident of Paris	27,702,508 4,919,000	176,050 58,811	1.20	43,880	40,012	9i ĭš

2.—Fire Insurance Business Transacted in Canada, by Companies, 1931—concluded.

		_				
Сотрапу.	Gross Amount of Risks Taken, during Year,	Premiums Charged thereon.	Rate of Pre-miums per cent of Risks.	Net Cash Premiums Written.	Net Losses Incurred.	Percentage of Losses Paid to Premiums Received.
	3	\$	p.c.	8	1	p.c.
Foreign Companies—		•	b.c.	ð	•	p.c.
concluded.						
Queen of America	231.761.264	1.697.217	-73	506,067	310.089	61-27
Republic	13.033.755	101.715		74,617	57.852	77-53
Retail Hardware	21,716,674	383,860	1.77	272,325	122,858	45-11
Rhode Island	12,380,823	73,063	59	47,292	29,541	62-47
Rossia	71,324,572	526,955	.74	290,981	182,294	62-65
"Rossia" of Copenhagen	8,211,318	41,734	-51	-6,029	29,284	- -
St. Paul Fire	56,661,317	871,712	-66	245,463	138,986	56-62
Security	27,531.640	193,019	·70	115.138		58 01
Sentinel	13,358,933	93,528		11,270		56-41
Springfield	85,639,272 38,056,083	535.527	·63 ·89	338,340 270,047	197,861 181,795	58·48 67·32
Stuyvesant	10.161.551	339,366 92,498	16.	66.761	47.000	70.40
Svea	5.610.741	41.631	-74	27,669		79.45
Tokio	9,499,593	47, 173	-50	22,379		70.83
Transcontinental	2,019,850	10,585	·52	8,644	604	6.99
Travelers' Fire	20,605,605	109,013	.53	91,335	46,478	50.89
L'Union of Paris	41.644.574	303.579	·73	232,664	157,693	67 78
United Firemen's	10,978,812	106,623	.97	132,217	38,298	28.97
United Mutual	12,353,139	182,797	1.48	107,580		48-42
United States Fire	75, 790, 173	468,584	-62	345,741	212,543	61 - 47
United States Merchants'	None	None	<u> </u>	None	None	
Universal	20, 949, 056	161,269	-77	113,660	55,577	48-90
L'Urbaine	None	None		None	None	150.04
Virginia Fire	6,885,425	46,829	•68	6,343 1 53 ,315	10, t26 94, 051	159·64 61·35
Westchester	42,125,880 18,560,313	254,734° 136,779	·60	105,988		53.69
HOUR PHE,	10,000,010	190,719		103.900	30,501	00.02
Totals, Foreign	4, 297, 259, 194	34.866.447	-81	19.825.605	11,757,919	59-31
Grand Totals	10.789.787.477	86,741,056		50,342,669		

3.—Assets of Canadian Companies Selling Fire Insurance, or Fire Insurance and other classes of Insurance, and Assets in Canada of Companies other than Canadian Transacting such Business in Canada, 1927-31.

Item.	1927.	1928.	1929.	1930.	1931.
	3	\$	8	\$	\$
Canadian Companies.	i	I			
Real estate	3,213,096	2.827.672	2,425,285	2,511,558	2,511,543
Loans on real estate	4,223,583	3,492,620	3,229,804	1,778,085	1,735,227
Stocks, bonds and debentures	34,129,480	40,093,447	46,724,485	48, 499, 291	45,313,224
Agenta' balances and premiums outstand-	, , , , , ,			. (
ing.,,	3.803.900	4, [61, 359]	4,272,065		3,775,499
Cash on hand and in banks1	4,415,976	5,671,692	4,937,126	4,735,137	5,199,25
Interest and rents	511.184	491,439	581,186		539,846
Other assets	1,354,994	3,876,826	4,863,564	4,879.270	4,288,504
Totals, Assets	51,652,213	60,615,055	66,983,515	67,351,039	63, 363, 09
British Companies.					
Real estate	3.045.860	2,998,944	2,998,944	3,006,944	2,992,944
Loans on real estate	2,876,538	2,882,485	2.570.318	2,256,382	2,776,577
Stocks, bonds and debentures	40,732,091	41,684,149	43,887,798	46,793,525	46, 630, 770
ing	4,557,720	5, 298, 183	5,394,016	5,039,725	4,466,151
Cash on hand and in banks!	5,174,714	5,493,843	5,664,481	5,077,833	4.243.425
Interest and rents	333.437	830,155	329,998	323,866	299, 431
Other assets in Canada	744,365	915,458	770,214	1,098,075	1, 196, 188
Totals, Assets in Canada	57, 464, 725	59,663,167	61,615,764	63,596,350	62,605,486

Or deposited with the Government.

3.—Assets of Canadian Companies Selling Fire Insurance, or Fire Insurance and other classes of Insurance, and Assets in Canada of Companies other than Canadian Transacting such Business in Canada, 1927-31—concluded.

Item.	1927.	1928.	1929.	1930.	1931,
Foreign Companies.	\$	\$	\$	*	\$
Real estate	13.000	23.000	13.000	13.000	13,000
Stocks, bonds and debentures	28,785,813	29,292,586	31,244,947	35,828,399	
Agenta' balances and premjums outstand-					
ingCash on hand and in banks!	2,908,472 5,491,382		3,428,161 7,014,035		
Interest and rents	296,850		328,536		
Interest and rents Other assets in Canada	77, 158		133,228		
Totals, Assets in Canada	37,572,676	39,189,318	42,161,907	45, 672, 464	48,816,179
All Companies.					_
Real estate	6,253,956				
Louns on real estate	7, 113, 121				
Stocks, bonds and debentures	103,647,384	111,070,162	121,857,224	131, 121, 215	128,629,887
ing	11,270,092	12,898,857	13,094,242	12.962,442	11,645,969
Cash on hand and in banket	15,082,072	17, 187, 851	17,615,642		
Interest and rents	1,141,471				
Other assets in Canada	2, 176, 518	4,902.589	5,767,006	6,164,401	5,754,709
Totals, Assets In Canada	146,689,614	150,407,540	170,761,185	176,619,853	172,784,759

Or deposited with the Government.

4.—Liabilities of Canadian Companies Selling Fire Insurance, or Fire Insurance and other classes of Insurance, and Liabilities in Canada of Companies other than Canadian Transacting such Business in Canada, 1927-31.

Item.	1927.	1928.	1929.	1930.	1931.
Canadian Companies. Unsettled losses Reserve of uncarned premiums. Sundry items Totals. Liabilities, not including	\$ 3,939,126 13,699,112 5,095,002	8 4,484,577 14,090,785 5,828,080	5,074,467 15,578,583 6,122,091		14,750,374
Capital	22,733,240	21, 403, 442	26,775,141	27,057,652	27,835,496
Excess of assets over liabilities, excluding capital	28,918,973 15,003,316	36,211,613 17,020,855	40,208,374 17,304,479	40,293,387 17,383,197	35,527,597 17,787,337
British Companies. Unsettled fosses. Reserve of unearned premiums. Sundry items.	3,379,385 19,457,735 1,495,409	4,354,948 20,742,422 1,548,825	5,639,411 21,901,257 1,606,263	5.529,407 20,782,701 1,821,925	19, 184, 178
Totals, Liabilities in Canada	24,332,525	26,616,195	29, 146, 931	28,134,033	28,216,633
Excess of assets over liabilities, excluding capital. Capital stock paid up	33, 132, 196	32,956,975	32,468,833	85,462,316	34,389,452
Poreign Companies. Unsettled losses. Reserve of unearned premiums. Sundry items.	1,176,847 12,182,168 855,414	1,589,302 12,811,246 901,078	2, 161, 718 13, 509, 480 950, 737		18, 183, 442
Totals, Liabilities in Canada	14,214,429	15,301,626	16,621,930	16,555,163	16, 372, 825
Excess of assets over liabilities, excluding capital	23,358,248	23,887,692	25,538,977	29,117,300	30, 443, 354
All Companies. Unsettled losses. Reserve of unearned premiums. Sundry items.	8,495,358 45,339,015 7,445,825	10,428,827 47,644,453 8,277,988	12,875,591 50,989,320 8,679,091	13,069,373 49,499,525 9,177,950	13,019,185 47,117,994 12,287,175
Totals, Liabilities in Canada, not in- cluding Capital	61,280,198	66,351,263	72,544,002	71,746,848	72, 424, 354
Excess of assets over liabilities, excluding capital. Capital stock paid up ¹ .	85,409,417 15,093,316	98,056,280 17,020,855	98,216,184 17,304,479	154,873,003 17,383,197	100,360,403 17,787,387

¹Canadian companies only.

5.—Income and Expenditure of Canadian Companies Selling Fire Insurance, or Fire Insurance and other classes of Insurance, and Income and Expenditure in Canada of Companies other than Canadian Transacting such Business in Canada, 1927-31.

	_				
Item.	1927.	1928.	1929.	1930.	1931.
INCOME.	\$		\$	*	\$
Canadian Companies.	•				
Net written premiums, Fire and other insurance.	23,270,427	28,403,345	29,535,545	28,685.788	26,640,708
Interest and dividends earned	1,944,324 8,661,198	2,234,407 7,107,357	2,755,933 3,974,197	2,848,595 1,464,070	
Totals, Income	28,875,949	35,745,109	36,265,675	32,998,453	30,663,581
British Cempanies, [†] Net cash for premiums	35,291,010 1,772,275 5,698	38,947,220 1,827,283 1,301	40,058,966 1,814,056 149	36,695,357 1,864,954 1,021	32,297,387 1,792,392 613
Totals, Income	27,069,982	40,775,804	41,873,171	38,561,332	34,050,392
Foreign Companies.¹ Net premiums written. Interest and dividends earned, etc. Sundry items.	24,146,575 1,425,276 149	26,483,893 1,484,347 3,330	26, 186, 699 1, 426, 353 6, 147	25,194,339 1,538,774 1,985	23,023,408 1,470,804 3,995
Totals, Income	25,572,000	27, 971, 570	27,619,199	26,735,088	21,498,237
EXPENDITURE.					
Canadian Companies. Incurred for losses (Fire). General expenses.	5,722,354 6,032,664	6,663,317 7,971,270	7,657,105 8,121,625	8,295,493 8,796,485	8,428,505 9,322,508
On account of branches other than Fire- or Life. Dividends or boous to shareholders Taxes.	10,312,567 1,193,634 690,145	11,924,618 1,292,586 706,940	13,585,866 1,491,558 735,357	14,333,965 1,480,357 822,900	14,390,806 8,244,089 775,942
Totals, Expenditure	23, 9 53,781°	23,559,781	31,591,511	83,720,298	36,161,859
Excess of income over expenditure	4,922,137	7,186,378	4,674,164	-739,750	-5,492,869
British Companies.¹ Incurred for losses (Fire)	10,095,057 9,402,303	12,067,465 9,817,151	14,237,389 10,579,134	13,608,322 10,154,554	13, 131, 973 9, 684, 462
or Life.	11,205,796 1,178,706	13,174,461 1,256,920	12,639,292 917,127	12, 176, 221 953, 010	10,828,756 908,673
Totals, Expenditure	31,681,862	36,315,997	33,372,942	36,892,107	31,551,861
Excess of income over expenditure	5, 187, 121	4,459,807	3,500,229	1,869,225	-463,472
Foreign Companies,1 Incurred for losses (Fire)	5,522,964	9,673,734 7,222,292 7,678,034	11,459,589 7,758,349 5,003,936	11,943,324 7,824,244 6,472,454	11,757,919 8,028,730 4,202,890
Тахез	883,216	920.976	743,442	724,449	735,956
Totals, Expenditure	21,863,853	25,495,0363	24,965,3162	26,964,471	21,725,4951
Excess of income over expenditure	3,708,147	2,476,534	. 2,653,883	-229,373	-227,288

¹Income and expenditure in Canada. ²Includes \$2,417 of profits returned to subscribers. ³Includes several small amounts of profits aggregating \$785,202 in 1927, \$332,917 in 1928, \$837,347 in 1929, \$903,199 in 1930 and \$877,281 in 1931 returned to subscribers.

Amount of Net Premiums Written and Net Losses Incurred in Canada, by Provinces, by Canadian, British and Foreign Companies Transacting Fire Insurance Business, 1930 and 1931.

(Licensed re-insurance deducted.)

	Cana	adian.	Brit	ish.	Forei	gn.
Province.	Premiums.	Losses.	Premiums.	Losses.	Premiums.	Losses.
1930.	\$	\$	\$	\$	\$	\$
P.E. Island	41,077	12,441	164,297	61,588	78,890	47,56
Nova Scotia New Branswick	426,883 312,530	218,094 215,944		423,953 539,197	886,290 728,825	443,41
Juebec	2,356,429	1,459,004	5.835.801	3,731,087	5,229,699	534,30 3.267.13
Ontario	3,286,646	1,898,913	8,139,364	4,470,229	6,213,876	3.813.81
Manitoba	1,290,390	652,234	1,577,502	834,441	1,383,563	702,23
Saskatchewan	1,536,786	906,454	1,542,947 1,607,249	893,841 873,843	1,601,478	840,05
Alberta British Columbia	999,218 941,772	627,874 487,754	2,771,402	1.776.044	1,759,674 2,180,837	927, 13 1, 373, 56
Yukon	2,378	18,798		5,062	4,023	10,070,00
Totals:	11,194,969	6,466,659	23,742,071	13,698,325	29,071,587	11,943,32
1931.	i					
P.E. Island		49,734		197,308	73,851	88,30
Vova Scotia	411,645 308,118	234,573 232,445		526,367 1,091,196	856,220 744,398	625, 8; 384, 20
Quebec	2.394.424	1,498,614		8,324,813	5.260.895	3,228,4
mtario	3,352,876	1,759,189		4,249,663	6,074,115	3,526,0
fanitoba,.	1,130,683	654,054	1,379,114	736, 184	1,318,32f	753,3
askatchewan	1,364,166	990,074	1,484,145	996,595	1,364,068	1,110,4
Iberta British Columbia	966,714 856,570	519,903 441,543	1,547,134 2,133,724	889,254 1,120,387	1,515,857 2,017,159	1,015,7 1,063,7
ukon	3.043	4	9,959	51	3,890	1,000,1
Totals!	10,374,861	6.389,252	21,728,506	13, 131, 972	19.825,605	11,757,9

^{&#}x27;Totals include in many cases small items unapportioned by provinces.

Summary of Fire Insurance in Canada, 1931.—Of the total amount of fire insurance effected in Canada during each year, a part is sold by companies holding provincial licences and permits. Such companies generally confine their operations to the province of incorporation, but may be allowed to sell insurance in other provinces. The bulk of fire insurance business, however, is transacted by companies registered by the Dominion. Operations in 1931 are summarized in Table 7.

7.—Dominion and Provincial Fire Insurance in Canada, 1931.

Item.	Net Insurance Written.	Net in Force at end of Year.	Net Premiums Received.	Net Losses Paid.
1, Dominion Licensees	10,789,737,477	9,544,641,293	5 0,342,669	3 29,938,409
 Provincial Licenses— (a) Provincial Companies within provinces by which they are incorporated	530,673,065	1,280,923,112	6,848,712	4,763,416
other than those by which they are incorporated	35, 836, 108	60,261,221	336,354	222,189
Totals, Provincial Licensees	566,509,173	1,341,184,333	7,185,066	4,985,605
Grand Totals	11,356,246,650	10,885,825,626	57,527,735	34,924,014

8.—Fire Insurance Carried on Property in Canada in 1929, under Section 129 of the Insurance Act, 1917, by Companies, Associations or Underwriters not Licensed to Transact Business in Canada.

(These statistics for 1929 will be found at p. 808 of the 1932 Year Book. See p. 926, paragraph 4 of this volume, re these statistics for 1930.)

Section 2.—Life Insurance.

Subsection I.—The Development of Life Insurance in Canada.1

Norz.—The tables of mortality referred to in this article are designated by the symbols ordinarily used for that purpose. The significance of these symbols may be briefly stated as follows: Hm, Healthy Males Table of the Institute of Actuaries; Om, British Offices Males Table; Om (5), a table based on substantially the same data as the Om table, excluding the first five insurance years following medical examination of the life insured. Whetever a rate of interest is affixed to one of these symbols to designate basis of valuation, for example, Hm 4 p.c., the assumptions underlying the valuation are that the future mortality of the policyholders of the company will be the same as shown by the table of mortality, and that the rate of interest at which the reserve funds of the company will accumulate in the future will be the suffixed rate.

Life insurance business, introduced into Canada by companies from Great Britain and from the United States as a fairly well developed institution, and taken up almost as early along the same general lines by a native company, can hardly be said to have a distinctive Canadian history. The technique and practice show the effects of British and United States influences.

Among the first companies to transact life insurance business in Canada may be mentioned: Scottish Amicable (1846), Standard (1847), Canada (1847), Ætna (1850), Liverpool and London and Globe (1851) and Royal (1851). The late '60's and early '70's were stirring years in life insurance activities the world over. In England, the frenzied flotation of companies in this period gave rise to abuses which pointed to the necessity for some control over the formation and operation of companies. Statutes were passed in 1870, '71 and '72 embodying principles—"freedom and publicity"—which have, without fundamental change, since governed in life insurance legislation in Britain; in the year 1909 these same principles were extended and adapted to four kinds of insurance.

In Canada no fewer than fourteen companies began business in the early '70's, including four native companies, namely: Sun (incorporated 1865, began business 1871), Mutual of Canada (Ontario Mutual, 1870), Confederation (1871) and London (1874). By 1875 there were at least 26 companies and possibly several more, competing for the available business in Canada, as against 48 companies licensed by the Dominion, and a few provincial companies, in 1931. A comparison of the first and last lines in Table 9 is of interest in this connection.

Outline of Life Insurance Legislation.—The first Dominion Insurance Act was passed in 1868. It prohibited the transaction of insurance business by any company (except provincially incorporated companies transacting business within the province of incorporation) not licensed by the Minister of Finance. A deposit of \$50,000 was required. Many of the provisions of this Act are traceable in the insurance legislation of the present day. Acts were passed in 1871, '74, '75 (consolidation, fire and inland marine and provision for appointment of Superintendent of Insurance under Minister of Finance); 1875 (extending powers of Superintendent to life and other companies); 1877 (consolidating the laws in respect of insurance, bases prescribed for computing claims of policyholders in an insolvent company, Superintendent to make quinquennial valuations on these bases); 1885 (dealing with

¹Contributed by A. D. Watson, Actuary, Department of Insurance, Ottawa.

commercial insurance companies transacting business on the so-called co-operative or mutual plan, being more commonly known as "assessment companies", fraternal societies being exempted from the Act); 1886 (consolidation); 1894 (life insurance in combination with any other insurance business forbidden, issue of annuities and endowment assurance by assessment companies prohibited, and new assessment companies required to procure at least 500 applications for membership before licence); 1895 (exempting certain fraternal organizations granting life, accident, sickness or disability insurance to members in hazardous occupations from application of Insurance Act); 1895 (certain amendments re foreign companies); 1899 (bases for quinquennial valuations by superintendent changed to Hm 3½ p.c., applicable to business subsequent to Jan. 1, 1900, all earlier business to be brought up to Hm 4 p.c. basis by 1910, and Hm 3½ p.c. by 1915); 1906 (consolidation); 1910 (quinquennial valuation basis changed to Om (5) 34 p.c. and many new provisions and restrictions enacted—some of the new provisions being standard provisions for life insurance policies—anti-rebating and anti-discrimination provisions, prescriptions concerning distribution of profits, separation of participating and non-participating accounts); 1917 (largely a new alignment believed to make the legislation intra vires within the terms of the Privy Council decision, 1915, in reference to sections 4 and 70 of the 1910 Act); 1919 (amendment affecting fraternal benefit societies); 1922 (in addition to some minor amendments defined several new classes of insurance, permitted life insurance companies to transact other classes of insurance business under specified conditions referred to in more detail below, authorized the issue of life policies including indemnity benefits in event of accident or sickness —payment not to exceed a weekly sum of $\frac{1}{2}$ p.c. of the amount assured —and an additional accidental death benefit not exceeding the sum assured, provided for the valuation of securities redeemable at a fixed date—if the market values should be "unduly depressed"-at values in excess of the market values but not higher than the values shown in the next preceding annual statement of the company, it also required approval by the Superintendent of agents soliciting applications for insurance but approval was to be deemed to have been given unless and until the company was advised to the contrary, all of which provisions except the so-called "licensing of agents" provision are to be found in the Acts of 1932 in substance); 1923 (policy conditions for automobile insurance); 1924 (provided that the market value of securities for annual statement purposes may be taken at a date to be fixed by the Superintendent of Insurance not more than 60 days before the date of statement. that life policies must contain a provision for payments thereunder to be made in Canadian money in Canada, that the expenses of the Department of Insurance incurred in the administration of the Insurance Act should be assessed on the premium income of insurance companies, all of which provisions-except that concerning payments under policies in Canadian currency—are included in the Acts of 1932 in principle); 1927 (fundamental changes in the policy valuation provisions, more particularly noted below); 1927 (consolidation); 1929 (enlarging the powers of fraternal benefit societies to include the issuance of endowment assurance contracts and the granting of non-forfeiture equities in policies).

The legislation briefly noted above shows traces of the influence of British and of United States legislation. In many respects it may be said to be midway between the "freedom and publicity" legislation of England and the inquisitorial and restrictive legislation of the United States. Following the disclosures of the "Armstrong" investigation in New York, a Royal Commission was appointed in 1906 to inquire into the conduct of life insurance business in Canada; the recom-

mendations of the Commission were in the main the same as of the "Armstrong Committee" Many of the recommendations, however, were not embodied in the legislation passed subsequent to the investigation. At the same time, there is a closer analogy between the Acts of 1910 and 1917 and certain United States Statutes passed in recent years than obtained between the insurance legislation of the two countries at any earlier period. Many of the new features introduced in the legislation of 1910 and subsequent years were repealed in 1932. It should not be supposed, however, that the legislation of 1932 was a reversion to the pre-1910 legislation; many provisions adopted in the Acts of 1910 and 1917, and the subsequent amendments, are incorporated in the Acts of 1932. Some of these are examined below in greater detail than was found convenient in the above summary.

By the Act of 1910, companies were authorized to include in life insurance policies provisions for waiver of premiums during total disability and, in event of total and permanent disability, to pay in full settlement of the policy an amount not exceeding the sum assured. In practice, on the occurrence of total and permanent disability, the sum assured was usually paid in equal instalments over 20 years rather than in one sum, the balance of the sum assured being payable in event of death within the 20 years. The 1917 Act permitted the payment of a total and permanent disability benefit equal to the amount of life insurance in the policy but without any reduction in the life insurance. Under this authority, the usual total and permanent disability benefit included in policies was a monthly annuity of 1 p.c. of the sum assured, payable until death or until maturity of the contract or until earlier recovery from disability. The value of this annuity on a life totally and permanently disabled is less than the sum assured and consequently the annuity benefit is within the total and permanent disability benefit authorized by the Amendment of 1917. In substance, the Acts of 1932 empower companies to include in life insurance policies the disability benefits authorized by the 1917 Amendment.

The inclusion of disability benefits in life insurance policies proved popular with the insuring public. A few years back, the great majority of policies issued included these benefits, which shows that this type of insurance protection was greatly appreciated. Unfortunately, the disability claims experience of companies became progressively worse from year to year and, during the last few years of the decade ended with 1930, threatened to get out of hand. As a consequence, companies have considerably reduced the disability benefits relative to the sum assured and have increased the scale of premiums, while at the same time they have increased the stringency of the claim conditions.

The 1919 Amendment to the Insurance Act 1917, affecting fraternal benefit societics, was an amendment of great significance. It is more convenient to deal with it in a later paragraph concerning the history of fraternalism.

One of the provisions of the 1922 Amendment, namely, the provision empowering life companies, incorporated by the Parliament of Canada, to transact other classes of business, is perhaps entitled to more lengthy notice than given on p. 938. In 1894 an Act was passed forbidding the transaction of life insurance business in combination with any other insurance business. This principle was reversed by the 1922 Amendment and confirmed by the Act of 1932, authorizing a life company, on passing a by-law confirmed by the members of the company and sanctioned by the Treasury Board, to engage in any and all other classes of insurance business, provided separate funds and accounts are maintained in respect of the life insurance business and in respect of the other classes of insurance business transacted. Before commencing any new classes of business, an initial fund is to be set up, the amount

to be fixed by the Treasury Board, and to depend on the number and nature of the additional classes of business to be undertaken but not to be less than \$50,000. For the purpose of setting up this initial fund, a life company may transfer thereto any amount to the credit of the shareholders' account in excess of paid-up capital and 25 p.c. but not exceeding \$100,000 of the surplus in the life insurance fund, (allowance being made for contingent allotments and accrued dividends to policyholders). If any profit should be made on the additional classes of business, the life fund is to participate therein in the proportion of the amount so transferred from the life fund to the total amount transferred. Any fund so established may be liquidated under the Winding-up Act as though the company transacted no other class of business, and the capital stock of the company subscribed (paid and unpaid) before the date of the separation of funds is liable only in respect of the business transacted before the separation of funds.

In 1927 an important amendment was made to the Act of 1917 by which entirely new policy valuation provisions were enacted. In 1877 bases were prescribed for computing the claims of policyholders against an insolvent company, and the Superintendent of Insurance was required to make valuations quinquennially on these bases, presumably with a view to ensuring that companies should always maintain their assets at least equal to the amount of claims which might be made in a winding-up. In the course of the subsequent fifty years, the business of life insurance companies had become transformed almost out of recognition, and although there had been many amendments to the valuation bases and accretions, sometimes heterogeneous, to the valuation prescriptions, the valuation provisions in the Acts had not kept pace with business developments and practices. Likewise, in the course of years, the principles and the rationale of the legislation had become overlaid, confused, misunderstood or lost. In the circumstances, a fundamental reconstruction was long over-due; the reconstruction of 1927 was incorporated in the Acts of 1932 practically without change. For present purposes a brief summary of the main principles on which the new legislation was founded, without contrast in detail against the background of the earlier legislation, will suffice.

The object of the new valuation prescriptions is the computation of policy liabilities for annual statement purposes of companies. The prescriptions extend not only to the life insurance benefits but also to benefits dependent on disability, sickness, accident or on any other contingency which may, under the Acts, be included in a life insurance policy, and also to assurances dependent on a term certain. Maximum rates of interest are prescribed, being 3½ p.c. for assurances and 4 p.c. for annuities. All of the tables of mortality commonly in use by companies for computing premiums and reserves are authorized to be used in valuations but, if a company should find none of these tables appropriate for the valuation of any particular class of policies, the Act requires the company to make application to the Superintendent of Insurance for approval of a table deemed to be appropriate. Valuation methods are prescribed, but any other method a company deems appropriate may be used, subject to compliance with the methods prescribed. For deferred annuity contracts, the prescribed method is the net level premium method; for assurance contracts, a preliminary term method. If the net level premium for the life insurance benefits does not exceed the net level premium for a whole life policy, the method is the full preliminary term method. If the net level premium is in excess of the whole life premium, the valuation premium must be so computed as to make the same expense provision as of date of issue of the policy as

is made in respect of whole life policies under the full preliminary term method. Whatever method of valuation may be used by any company, the Acts require that the reserve made in respect of the life insurance benefits, apart from any guaranteed values in the policy, shall not be less at any duration than the reserve made in accordance with the prescribed method and in addition "that the method used shall make adequate provision for the guaranteed values at the subsequent durations of the policy according to the rate of interest and the table of mortality used in the valuation". In respect of policy obligations dependent on contingencies other than life contingencies, "the bases and methods of valuation employed by the company shall be such as to place an adequate value on the liabilities thereunder", negative reserves excluded. The actuary of the company responsible for the valuation must certify that the reserves are not less than the reserves required by the provisions of the Act, and in addition "that in his opinion the reserves make a good and sufficient provision for all unmatured obligations of the company under the terms of its policies". Thus, compliance with the more or less technical provisions of the Act is not in itself sufficient to enable an actuary to give the required certificate; the valuation must, in his opinion, in the nature of things make a good and sufficient reserve for all unmatured policy obligations. If, in the opinion of the Superintendent of Insurance, the facts and circumstances do not justify the certificate given by the actuary, he may make a special valuation and if necessary change the reserve in the liabilities of the company. Once in every five years, or oftener at his discretion, the Superintendent is required to make a valuation on the bases and methods the company purports to use; but if he should be of the opinion that the valuation of the company does not comply with the Act, his valuation must, of course, remedy the defect. In lieu of making a valuation, he may examine the valuation made by the company. The above probably sufficiently states the main principles of the valuation provisions of the Acts for present purposes.

The legislation of 1932 was occasioned by the Privy Council decision of 1931, which held in effect that the Insurance Act was not properly framed, having regard to the competence of Parliament in that behalf. The Act was consequently repealed and three Acts were passed, namely, The Department of Insurance Act, The Canadian and British Insurance Companies Act, and The Foreign Insurance Companies Act, being respectively cc. 45, 46 and 47, 22-23 Geo. V. Presumably it was found more convenient, legislatively and otherwise, to have three Acts in place of one. From an examination of these Acts in comparison with the Consolidated Insurance Act, 1927, it would appear that every provision of that Act has been retained in the 1932 Acts which could be retained consistently with the views taken concerning the effect of Privy Council decisions up to the date of enactment. The legislative form and verbiage has, however, been greatly changed. Several important provisions, enacted in 1910 and subsequently conserved in the Acts of 1932, have already been briefly reviewed. In a broad and general way it may be said that the core of the 1932 legislation is that companies formed or incorporated outside of Canada may not transact business in Canada unless registered by the Minister of Finance, and, precedent to first registration, a company, whether Canadian, British, or foreign, must satisfy the Minister of its soundness, solvency and bona fides. Thereafter, a company must make full and complete annual returns of its business and affairs, submit to examination by the Superintendent of Insurance, and otherwise continue to satisfy the Minister of its soundness and solvency, and to comply with the Acts.

Group Insurance.—The above gives in brief outline the legislative framework under which the business of life insurance in Canada has developed. development, as in other English-speaking countries at least, has been marked by an increased service to policyholders. Companies more and more seek to bring the benefits of insurance within the reach of an ever-widening clientèle. duction of "group insurance" nearly twenty years ago has brought the advantages of life insurance protection in a substantial way to large numbers who are generally not adequately protected. This is a plan of insurance under which each individual of a group of persons is insured under one policy, usually on the term plan. Very generally the lives insured in one group are employees of one employer, the employer paying the premiums or a substantial proportion thereof. Each employee has the right to obtain an individual policy at normal rates, without medical examination. on termination of employment. Under group insurance, the expenses are less than if individual policies were issued on each life in the usual way and consequently the premiums are lower. Although the plan as generally operated does not adequately take the place of regular insurance, it has proved of benefit to employees and other groups.

Industrial Insurance.—Another plan of insurance by which companies endeayour to fit the terms and conditions of policies to the circumstances of policyholders is "industrial life insurance", that is to say, the issue of policies of small amounts at weekly or monthly premiums paid to collectors or agents of the company who call at the home of the insured. This business is transacted in Canada along the same general lines as in other English-speaking countries. The unit premium is 5 cents per week, the sum assured, not the premium, varying with the age when the policy is issued. Children and the aged are alike insured. In some companies the business is written without any medical examination or inspection, other than inspection by the agent who procures the application or in some cases by a salaried official. In some other companies a simple medical examination is required for amounts of over, say, \$300, but for smaller amounts applications are accepted from the agent as above, or the applicant may be required to appear before the medical examiner, but is not examined, as ordinarily understood. The amount of the individual policy is small and the total amount on any one life under several policies is usually not large. It, in fact, provides burial insurance for the poorer industrial classes, but there has been some extension of business on this plan to other classes. By reason of the frequent calls of the collectors and the small amount of each policy, a large proportion of the premiums is absorbed in expenses. The companies concerned have been devoting their energies to devising ways and means of reducing the expense ratio, and with success, thus making possible better returns to policy-For many years business has been transacted by four companies—one Canadian, two United States, and one Australian. The machinery and technique necessary for the transaction of this business differ materially from the machinery and technique of ordinary life insurance business.

Two other phases in the development of life insurance in Canada call for mention, namely, "assessmentism", as practised for a period by a few companies, and "fraternalism", as practised by friendly societies.

Assessmentism.—Assessmentism was an attempt to obtain life insurance protection at the lowest possible cost. In its cruder forms, the age of the individual insured was ignored, except that entrance was restricted to fairly early life; a uniform and usually low assessment was charged. There was provision in the contract for

making additional assessments in certain contingencies—excessive deaths or reduction in funds of the company. It was held that as the means were thus at hand for meeting the exigencies of the business at any time, the companies were sound; and they seemed to be sound, even prosperous to those unable to see beneath the surface of things, so long as a large proportion of the lives assured were at the early ages, say under 40 or 45, where the rates of mortality are low and increase but slowly with the age. But, after a considerable proportion of lives insured had passed to middle and old age, the weaknesses of the system soon began to be disclosed. The "new blood" theory was then developed, which, stated in simple terms, meant that enough young lives were to be induced to insure to keep the average mortality of the company as a whole at a low rate, thus obviating the necessity for excessive assessments. These young lives, however, in turn grew old and thus the aged became too numerous to be off-set by "new blood"; assessments became frequent and consequently burdensome; healthy persons, especially the young, found they could get insurance much cheaper in ordinary companies and declined to pay the assessments. With their withdrawal, mortality, with no adequate reserves built up to draw upon, soon became unmanageable, and the final débâcle was in sight. It is impossible here to follow assessmentism through all its modifications in practice—merely attempts, perhaps generally honest enough in intention, to bolster up an unsound system, The first of these companies appeared in Canada in 1885 and the last disappeared about 1907. Legislation in respect of these companies required that they should represent the nature of their business correctly to the public. A deposit of \$50,000 was obligatory; death benefits were to be a first charge on all assessments; each policy had to state that "the association is not required by law to maintain the reserve which is required of ordinary life insurance companies", and the words "assessment system" were required to be printed on every policy, application, circular, etc.

Fraternal Insurance.—Fraternal societies made their appearance in Canada at a very early date. So far as life insurance is concerned, the development is of more recent years, as in the case of old line life companies. They were at first exempt from the provisions of the Dominion Acts applicable to assessment companies. Notwithstanding the exemption, fundamentally the business and the methods of the two types of institution were fairly analogous as regards life insurance, though the machinery differed. Eventually, the provisions of the Statutes originally designed for assessment companies were applied to fraternal societies and continued to apply until the passing of the 1919 Amendment to the Insurance Act. The essential provisions of this amendment are embodied in the Acts of 1932. the fate of fraternal benefit societies has been more fortunate than that of assessment companies. Although many of them have had to go through several readjustments of rates and benefits, which meant loss of membership and a temporary set-back, they have for many years been doing business with due regard for sound principles. Since 1919, these societies have been required to have an annual valuation made of each benefit fund by an actuary. Should a deficiency be disclosed as a result of the valuation, it must be made good within a reasonable period by an adjustment of rates or benefits. Thus societies are in no way in the dark as to their actual condition, and if any weakness should be disclosed the necessary remedy can be applied before anything in the nature of a serious situation arises. No bases or methods of valuation are prescribed; the actuary is expected to make his valuation having regard for all essential circumstances. It may be noted that an actuary performing valuations for a friendly society must be a fellow, by examination, of one or more of

the following societies, namely, the Institute of Actuaries of Great Britain, the Faculty of Actuaries in Scotland, the Actuarial Society of America, or the American Institute of Actuaries.

Provincial Life Insurance Companies.—Any review of the development of the business of life insurance in Canada would not be complete without reference to the part played by the provinces. Insurance business transacted by provincial companies, more particularly life insurance business, has been relatively unimportant, but the legislation of the provinces with respect to contracts, insurable interest, beneficiaries, settlement of claims, agents, and other matters within the legislative domain of the provinces, has been of great importance both for insurers and the insuring public. Recognizing the great advantages of uniform laws throughout Canada, more than ten years ago the provinces appointed Commissioners to study the subject and to make recommendations. In respect of insurance the Conference of Commissioners recommended a "Uniform Bill" for enactment by the provinces. During the latter part of 1923 and the early part of 1924 the recommendations of the Conference of Commissioners were implemented by legislation in seven provinces—all except Nova Scotia and Quebec. In 1932 similar legislation was enacted by Nova Scotia. Thus, throughout the greater part of Canada, the insurance law has been uniform for nearly ten years. This is of great benefit both to insurers and to the insuring public and should contribute materially to the satisfactory and economical development of insurance business in the future.

Subsection 2.—Life Insurance Statistics.

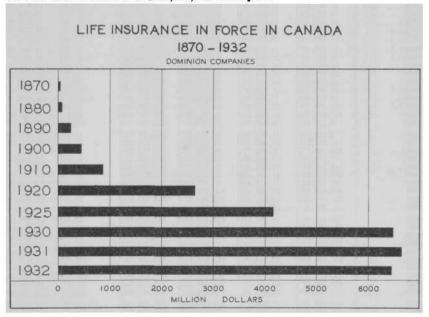
Life insurance business was transacted in Canada in 1931 by 43 companies licensed by the Dominion, including 28 Canadian, 6 British and 9 foreign companies. In addition there were 6 British and 5 foreign companies licensed to write insurance but which had ceased to write new insurance, while 4 other British and 4 other foreign companies were authorized under the Act to transact business in connection with policies written prior to Mar. 31, 1878. One other foreign company was licensed to transact business in 1926, but has written no life insurance business in Canada except one group policy, written in 1928 but which lapsed before the close of the year. A foreign company, the Pan-American Life Insurance Company, was licensed during 1931 but transacted no Canadian business during that year.

As shown by the historical statistics of Table 9, life insurance business in Canada has expanded from very small beginnings, the total net life insurance in force in all companies licensed by the Dominion in 1869 being only \$35,680,082 while in 1932 it was \$6,471,588,455\frac{1}{2}, the amount per head of the estimated population of Canada having nearly doubled since 1920—an evidence of the general recognition of the value of life insurance for the adequate protection of dependants against misfortune. Notable also from these historical statistics is the fact that in this field the British companies, which were the leaders in 1869, have fallen far behind the

Preliminary figures. This total does not include \$175,845,857 of fraternal insurance.

Canadian and the foreign companies. The total net amount of new insurance effected during the year 1931 was \$782,716,064, as compared with \$884,749,748 in 1930, \$978,141,485 in 1929, \$918,742,064 in 1928, \$838,475,057 in 1927 and \$797,940,009 in 1926, while the premiums paid were \$225,100,571, as compared with \$220,523,727 in 1930, \$210,728,479 in 1929, \$192,945,783 in 1928, \$173,732,359 in 1927 and \$159,872,965 in 1926.1

The following diagram shows the rapid increase of life insurance in force in companies licensed by the Dominion between 1870 and 1931. Preliminary figures for 1932 show a decrease of \$150,679,338 in the year.



In Table 10 detailed statistics are given of the business of Canadian, British and foreign companies, respectively, by companies, in 1931, while Table 11 is a summary showing the business of Canadian, British and foreign companies for the past 5 years. Table 12 shows the ordinary and industrial policies in force and effected during the year ended Dec. 31, 1931. Table 13 gives the insurance deathrate by classes of companies, and Tables 14, 15 and 16 show, respectively, the assets, liabilities, cash income and expenditure of Canadian and other life insurance companies for the years 1927-31. Statistics of Dominion fraternal insurance are given in Table 17 and of Dominion and provincial insurance combined in Table 18, which shows that on Dec. 31, 1931, the total life insurance in force in Canada was \$7,008,008,333.

In 1932 the new insurance effected was \$654,425,266 and the total of net insurance premiums paid was \$216,133,010, according to preliminary figures.

9.—Life Insurance In Force and Effected in Canada, calendar years, 1869-1932.

						
Year.		Net Amou		Insurance In Force per Head of	Net Amount of New Insurance	
	Canadian Companies.	British Companies.	Foreign Companies.	Total.	Estimated Population. ³	Effected during Year.
	\$	*	\$	\$	\$	\$
1869	5,476,358	16,318,475	13,885,249	35,680,082	10.01	12,854,132
1870	6,404,437 8,711,111	17,391,922 18,405,325	18,898,353 18,709,499	42,694,712 45,825,935	11.78 12.42	12, 194, 696 13, 332, 626
1872 1873	13,070,811 15,777,197	19,258,166 18,862,191	34,905,707 42,861,508	67, 234, 684 77, 500, 896	17·91 20·26	21,070,101
1874	19,634,319	19,863,867	46,218,139	77,500,896 85,716,325	22.01	21,053,618 19,108,221
1875 1876	19,634,319 21,957,296 24,649,284	19,455,607 18,873,173	43,596,361 40,728,461	85,009,264 84,250,918	21 · 50 21 · 02	15,074,258 13,890,127 13,534,667
1877 1878	26,870,224 28,656,556	18,873,173 19,349,204 20,078,533	39,468,475 36,016,848	85,687,903 84,751,937	21 · 08 20 · 57	13,534,667 12,169,755
1879	33,246,543	19,410,829	33,616,330	86,273,702	20.62	11,354,224
1880	37,838,518	19,789,863	33,643,745 36,266,249	91,272,126 103,290,932	21·45 23·88	13,906,887 17,618,01
1881 1882	46,041,591 53,855,051	20,983,092 22,329,368	38,857,629	115,042,048	26.30	20,112,755
1883	59,213,609 66,519,958	28,511,712 24,317,172	41,471,554 44,616,596	124, 196, 875 135, 453, 726	28.04 30.19	21,572,960 23,303,412
1885	74,591,139	25,930,272	49,440,735;	149,962,146	33.05	26,767,488
1886 1887	88, 181, 859 101, 796, 754	27, 225, 607 28, 163, 329	55,908,230 61,734,187 67,724,094	171,315,696 191,694,270 211,761,583	37-41 41-44	34,800,598 37,381,810 40,923,529
1888	114,034,279 125,125,692	30,003,210 30,488,618	67,724,094 76,349,892	211,761,583 231,963,702	45·27 49·05	40,923,529 43,912,187
1890	135 278 990		81.591.847	248, 424, 567 261, 745, 229	51.98	39,802,958
1891	143,368,817 154,709,077 167,475,872	31,613,730 22,407,937 33,692,706 33,543,884	85,698,475 90,708,482	261,745,229 279,110,265	54 · 16 57 · 16	37,609,287 44,062,440
1893	167,475,872	33,543,884	94,602,966	295,622,722	59.95	44,802,847
1894 1895	177,5(1,846) 188,326,057	33,911,885 34,341,172	96,737,705 96,590,352	308, 161, 436 319, 257, 581	61 · 89 63 · 52	49,111,010 44,101,898
1896 1897	195,303,042 208,655,459	34,837,448 35,293,134	97,660,009 100,063,684	327,800,499 344,012,277	64-60 67-16	42,298,322 47,710,165
1898	226, 209, 636	36,606,195	105,708,154	368,523,985	71.21	54,387,303
1900	252,201,516 267,151,086	38,025,948 39,485,344	113,943,209 124,433,416	404,170,673 431,069,846	77·21 81·32	66,184,063 67,729,115
1901	284.684.621	40,216,186	138,868,227	431,069,846 463,769,034 508,812,305	86.35	67,729,115 72,854,859
1902	308,202,596 335,638,940	41,556,245 42,127,260	159,053,464 170,676,800	548, 443, 000 587, 880, 790	97.00	79,638,914 90,732,415
1904	364,640,166 397,946,902	42,127,260 42,608,738 43,809,211	180,631,886 188,578,127 189,740,102	587,880,790 630 334 240	100 · 89 105 · 02	97,617,402 104 719,585
1906	420,864,847	45,655,951 46,462,314	189, 740, 102	630,334,240 656,260,900	106-46	93,722,510 88,784,250
1907	450,573,724 480,266,931	46, 161, 957	188,487,447 193,087,126	685,523,485 719,516,014	106 · 93 108 · 61	98,644,410
1909	515,415,437	46,985,192	217,956,351	780,356,980	114.76	
1910	565,667,110 626,770,154	47,816,775 50,919,675	242,629,174 272,580,942	856, 113, 059 950, 220, 771	122·51 131·85	150,785,305 173,341,788
1912 1913	706,656,117 750,637,902	54,537,725 58,176,795	309,114,827 359,775,330	1,070,308,669 1,168,590,027	144 · 85 153 · 12	212,772,151 225,606,787
1914	794,520,423	60,770,658	386,869,397	1,242,160,478	157-65	219 977 464
1915 1916	829,972,809 895,528,435	58,087,018 59,151,931	423,556,850 467,499,266	1,311,616,677 1,422,179,632	164·34 177·75	218, 205, 427 227, 210, 162 277, 532, 095 307, 279, 759
1917 1918	996,699,282 1,105,503,447	59,151,931 58,617,506 60,296,113	467,499,266 529,725,775 619,261,713 758,297,691	1,585,042,563 1,785,061,273	196 · 66 219 · 08	277, 532, 095 307, 279, 759
1919	1,362,631,562	66,903,064	758, 297, 691	2,187,137,317	263 25	517,863,639
1920 1921	1,664,348,605 1,860,026,952	76,883,090 84,940,938	915,793,798 989,875,958	2,657,025,493 2,934,843,848	310·55 333·96	630, 110, 900 514, 654, I11
1922	2.013.722.848	93,791,180	1,063,874,968	3,171,388,996	355 - 58	502, 279, 333
1923 1924	2,187,434,147 2,413,853,486	98,023,020 103,519,236	1,148,051,506 1,246,623,756	3,433,508,673 3,763,996,472	381-03 411-64	548,640,800 615,372,723
1925	2,672,989,676 2,979,946,768	108,565,248	1,377,464,924 1,518,874,230	4,159,019,848 4,610,196,334	447-44 487-65	712,091,889 797,940,009
1926 1927	3,277,050,348	111,375,336 113,883,716	1,653,474,770	5,044,408,834	523 - 44	888, 475, 057
1928	3,671,325,188 4,051,612,499	115,340,577 116,545,637	1,820,979,858 1,989,104,071	5,607,645,623 8,157,262,207	570 · 16 613 · 94	888, 475, 057 918, 742, 064 978, 141, 485
		117,410,860	2,055,502,125			884,749,748
1930 1931 1932 ²	4,409,707,938 4,311,747,690	119,262,511	2,093,297,344 2,044,022,035	6,492,283,194 6,622,267,793 6,471,583,455	638-17 615-98	782,716,064 654,425,266
**************************************	2,011,127,090	110+010/198	-, VII, USS, UUV	V, 1.1,000, 100		

Figures do not include insurance in force and effected by Fraternal Societies operating under Dominion charters. The amount of insurance in force in such societies amounted to \$175,345,857 in 1932 according to preliminary figures. Corresponding figures for the years 1927-31 are given in Table 17, pp. 953-954.

3Preliminary figures.

4For estimates of populations upon which these figures are based see p. 145.

10.—Life Insurance In Force and Effected in Canada, by Companies, 1931.

10.—Idie insuran	cs TH LOI	ce anu en	ected in C	auaua, ny C	out paules,	1491.
Company.	Policies	Effected.	Policie	s in Force.	Net Premium	Net Amount of Policies
	No.	Net Amount.	No.	Net Amount.	Income.	become Claims.
Canadian Companies—		\$		\$	3	\$
Canada	11,383	37,839,929	136,688	435,965,719	13,638,255	4.969.459
Canital	1,279	2,385,305	11,186	19,220,585	529,542	99,555
Columbia	93	127,098 1,154,613	306	433,248	10 561	-
Columbia Commercial Confederation. Continental	746	1,154,613	4,888	10,454,083 224,350,927 37,213,475 106,202,860	340,322	37,473
Continental	11,118 2,236	25,645,024	109,663	224,350,927	7,896,478 1,213,590	1,981,009 304,267
Crown	4,998	12 427 501	22,812 50,304	106 202 860	3,277,098	836,013
Dominion	5.810	16, 230, 085	60,166	134,493,332	4,611,355	966,654
Dominion	662	1,114,165	2 074	6,720,819	202,566	40,944
T. Eaton	1,567	3,379,557	12, 189	24,368,537	884,106	85,742
Excelsion	4,827 17,436	1,114,165 3,379,557 10,345,640 40,463,098	12,189 47,088 235,566 90,775	134,493,332 6,720,819 24,368,537 91,037,306 529,122,310	884,106 2,898,370 17,900,297	725,699
Great West	17,436	40,463,098	235,566	529,122,810	17,900,297	3,820,192
Imperial	7,000	15,718,349	90,778			1,950,143
Dominion of Canada. T. Eaton. Excelsior. Great West. Imperial. London. Manufacturers. Maritime.	118,211 12,851	93,573,775	534,252 134 100	461,153,418 280,631,853 6,659,768 58,895,035	13,626,710 9,377,095	2,452,186 2,360,446
Maritime	559	28,162,635 1,207,885 5,849,500	134, 109 3, 249 32, 093	6,659,768	154,104	39.085
		5.849.500	32.093	58,895,035	154,104 1,638,332	39,085 272,212 259,738
Montreal. Mutual of Canada	3,185	1 7.622.257	17,964	1 35 920 721	1.128.564	259,738
Mutual of Canada	15,805	45,205,605	199 752	471.837.026	17,840.552	4 1611 1944
National of Canada	3,109	6,766,009	27, 433	54,815,392	1,692,055	399,261
North American	5,708	16,881,582	27,433 81,346 33,270	170, 975, 424 51, 582, 405	5,972,410 1,692,053	399,261 1,632,283 460,037
NorthernRoyal Guardians	3,362 1,304	4,441,572 719,297	38,270 7,183	4 OR7 192	1,092,003	460.037 53,162
Seekstchewen	1,504 594	918,656	6,908	10.358.542	1 2003.732	27,500
Saskatchewan Sauvegarde Sovereign Sun	2,516	l 3.563.0241	20.378	28,769,584	860,795 824,785 2 9,194,778	222,052
Sovereign	999	2,205,607 99,007,502 1,268,600	13,678 288,869 5,251	26, 425, 904	824,785	119,107
Sun	32,571	99,007,502	288,869	898,020,533	29,194.778	7,632,604
western	849	1,268,600	5, 251	10,358,542 28,769,584 26,425,904 898,020,533 8,731,955	209.711	26,950
Totals	273,945	491,340,864	2,191,340	4,409,707,938	145,999,909	35,785,716
British Companies— Commercial Union ²						
Commercial Union ²	-	-	93	410,022	8,910	2,756
Edinburgh ² Gresham ²] []	1.202	3,037 2,557,184	19 83,039	42,509
Life Association of Scot-	_	<u> </u>	1,202	2,007,109	00,000	42,000
land2	-		20	37,630	19	8,722
land ² , Liverpool and London and						_
Globe*	-		95	173,046	4,375	8,562
London and Scottish	483	1,115,848	7,184	16,559,719	623,337	488,0(3
Mutual Life and Citizens	13,359	5,908,806	110.485	34, 227, 709	1,272,408	224,965
(Australia) North British and Mer-	10,009	0,800,500	110,400	94,221,108	1,212,400	224,800
cantile		_	283	1,156,307	42,379	16,373
cantile ² Norwich Union ²	-	-	37	46,908	923	2,624
Phosnix of London Prudential of London	47	166,500	1,749	46,908 6,578,011	176,344	173, 291
Prudential of London	569	2,569,780 1,834,641	686	2,906,506	112.870	-
Royal	347	1,834,641	5,689	24, 265, 450	763,122 115	380,538
Scottish Amicable	_	-	4.	7,165 2,5°9	31	1,083
Royal. Scottish Amicable ² Scottish Provident ² Standard.	640	2,140,107	10,651	30,281,355	863,508	584 855
Star ²	-	2,110,101	28	49.873	651	584,855 1,614
Totals	15,445	13,735,682	138,209	129,262,511	3,952,048	1,335,905
Foreign Companies—						
Ætna Connecticut General	1,187	6, 109, 150	16,031	89,648,010	1,981,745	1, 186, 151
Connecticut General	-	' ' -	-		ا ـ آ	
Connecticut Mutual ²		00 400	0 701	2,000	65	1,000
Equitable		23,400 37,250	8,704 41	24, 222, 110	733,717	561,019
Guardian	334,244	157,994,143	2,781,599	24,222,115 204,002 1,035,946,051	8,117 39,208,886	1,000 7,093,470
Metropolitan Mutual of New York National of United States	1,951	5,649,107	29,941	80,427,258	2,808,319	1,091,613
National of United States:	_		ŷ.	2 517	- 1	-
New York Northwestern Mutual ³	4.816	10,863,700	84,789	193, 263, 276	6,735,733	1,990,287
Northwestern Mutual		840 000	12	16.9191	31	3,103
Occidental	188	840,200	3,968	9, 132, 943	206, 255	106,030
Pan-American		_	47	26,242	251	2, 126
Phoenix Mutual* Provident Savings* Prudential		· - !	210	317.362	6,334	5,450
Prudential	244,730	83, 160, 698	210 1,485,759 264	317,362 515,385,837 1,380,418	19.945.563	3.316.420
State	10	172, 160 12,332,560		1,380,418	20,686	31,623
Travelers of Hartford Union Labour	2,273	12,332,560	28, 202	135,368,449	3.236.6801	31,623 1,079,585
Union Labour	22 144	59,000 365,650	27 3,087	78,500	1,535 244,297	+-
Union Mutus! United States	12	32,500	3,037	7,216,135 663,310	19,400	189, 591 30, 500
Totals		277,439,518		2,093,297,344		
LUGAIS	402,454	*11,545,010,	1,120,004	n, 470, 271, 311	75, 157, 614	16,688,968

16.—Life Insurance in Force and Effected in Canada, by Companies, 1931—concluded.

Company,	Policies	Effected.	Policies	in Force.	Net Premium	Net Amount of Policies
-	No.	Net Amount.	No.	Net Amount.	Income.	become Claims, t
SUMMARY. Canadian companies British companies Foreign companies	273,945 15,445 589,587		138, 209		3,952,048	1,935,905
Grand Tetals	878,977	782,716,064	6,772,413	6,622,267,793	225, 100, 571	54,410,589

¹Including matured endowments.

11.—Progress of Life Insurance in Canada, calendar years, 1927-31.

Net amount of policies in force. Net amount of policies become claims. Amount of premiums in year. Claims paid? Unsettled claims— Not resisted. Resisted. British Companies— Policies effected. Policies in force at end of year. No. Policies become claims. Net amount of policies in force. Net amount of policies in force.	22, 642, 370 111, 644, 539 23, 193, 977 2, 038, 459 92, 684 34, 335 134, 145 1, 456 15, 414, 004	1,960,429 19,854 606,902,108 3,671,325,188 26,192,910 124,654,036 25,270,528 3,426,526 109,120 20,359 134,250	2,098,282 22,696 645,201,646 4,051,612,499 31,788,773 137,319,487 33,221,451 2,871,841 54,017	2, 173, 363, 22, 721, 594, 704, 790, 4,319,370,209, 34,803, 687, 142,059,595, 36,017,299, 3,297,337, 54,211, 14,536	4,409,707,938 35,785,716 145,990,909 36,994,831 4,164,333 92,641 15,445
Folicies effected	1,816,796 17,484 544,385,411 ,277,050,348 22,642,370 111,644,539 23,193,977 2,038,459 92,684 34,335 134,145 1,456 15,414,004	1,960,429 19,854 606,902,108 3,671,325,188 26,192,910 124,654,036 25,270,528 3,426,966 109,120 20,359 134,250	2,098,282 22,696 645,201,646 4,051,612,499 31,788,773 137,319,487 33,221,451 2,871,841 54,017	2, 173, 363, 22, 721, 594, 704, 790, 4,319,370,209, 34,803, 687, 142,059,595, 36,017,299, 3,297,337, 54,211, 14,536	2, 191, 340, 20, 396, 491, 340, 864, 4,409, 707, 938, 35, 735, 716, 145, 990, 909, 36, 994, 531, 4, 164, 333, 92, 641, 15, 445
Folicies effected	1,816,796 17,484 544,385,411 ,277,050,348 22,642,370 111,644,539 23,193,977 2,038,459 92,684 34,335 134,145 1,456 15,414,004	1,960,429 19,854 606,902,108 3,671,325,188 26,192,910 124,654,036 25,270,528 3,426,966 109,120 20,359 134,250	2,098,282 22,696 645,201,646 4,051,612,499 31,788,773 137,319,487 33,221,451 2,871,841 54,017	2, 173, 363, 22, 721, 594, 704, 790, 4,319,370,209, 34,803, 687, 142,059,595, 36,017,299, 3,297,337, 54,211, 14,536	2, 191, 340, 20, 396, 491, 340, 864, 4,409, 707, 938, 35, 735, 716, 145, 990, 909, 36, 994, 531, 4, 164, 333, 92, 641, 15, 445
Policies in force at end of year. " Policies become claims. " Net amount of policies effected. \$ Net amount of policies in force. \$ Net amount of policies become claims. \$ Amount of premiums in year. \$ Claims paid. \$ Unsettled claims— Not resisted. \$ British Companies— Policies effected. No. Policies in force at end of year. No. Policies become claims. " Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force. \$ Net amount of policies in force.	1,816,796 17,484 544,385,411 ,277,050,348 22,642,370 111,644,539 23,193,977 2,038,459 92,684 34,335 134,145 1,456 15,414,004	1,960,429 19,854 606,902,108 3,671,325,188 26,192,910 124,654,036 25,270,528 3,426,966 109,120 20,359 134,250	2,098,282 22,696 645,201,646 4,051,612,499 31,788,773 137,319,487 33,221,451 2,871,841 54,017	2, 173, 363, 22, 721, 594, 704, 790, 4,319,370,209, 34,803, 687, 142,059,595, 36,017,299, 3,297,337, 54,211, 14,536	2, 191, 340, 20, 396, 491, 340, 864, 4,409, 707, 938, 35, 735, 716, 145, 990, 909, 36, 994, 531, 4, 164, 333, 92, 641, 15, 445
Policies become claims " Net amount of policies effected \$ Net amount of policies in force \$ Net amount of policies become claims \$ Amount of premiums in year \$ Claims paid \$ Unsettled claims - Not resisted \$ Resisted \$ British Companies Policies effected No. Policies in force at end of year No. Policies become claims " Net amount of policies in force \$ Net amount of policies in force \$ Net amount of policies in force \$ In the companies No policies in force at end of year No. Policies become claims " No policies in force at end of year No. Policies become claims " No policies become claims " No policies become claims " No policies become claims " No policies become claims "	17,484 544,385,411 ,277,050,348 22,642,370 111,644,539 23,193,977 2,038,459 92,684 34,335 134,145 1,456 15,414,004	19,854 606,902,108 3,671,325,188 26,192,910 124,654,036 25,270,528 3,426,966 109,120 20,359 134,250	22, 608 645, 201, 646 4,051, 612, 499 31, 788, 773 137, 319, 487 33, 221, 451 2, 871, 841 54, 017	22,721 594,704,790 4,319,370,209 34,803,687 142,059,595 36,017,299 3,297,337 54,211	20,396 491,340,864 4,409,707,938 35,735,716 145,990,909 36,994,831 4,164,333 92,641 15,445
Net amount of policies effected. \$ 5. Net amount of policies in force. \$ 3. Net amount of policies become claims. \$ 3. Amount of premiums in year. \$ 1. Claims paid*. \$ 1. Unsettled claims— Not resisted. \$ 5. British Companies— Policies effected. No. Policies in force at end of year. No. Policies become claims. No. Not amount of policies effected. \$ 1. Net amount of policies in force. \$ 1. Net amount of policies in force. \$ 1.	544, 385, 411, 277, 050, 348 22, 642, 370, 111, 644, 539, 23, 193, 977 2, 038, 459, 92, 684 34, 335, 134, 145, 1, 456, 15, 414, 004	606, 902, 108 3,671,325,188 26, 192, 910 124, 654, 036 25, 270, 528 3, 426, 966 109, 120 20, 359 134, 250	645, 201, 646 4,051,612,499 31, 788, 773 137, 319, 487 33, 221, 451 2, 871, 841 54, 017 16, 709	594, 704, 790 4,319,370,209 34,803,687 142,059,595 36,017,299 3,297,337 54,211	491,340,864 4,409,707,938 35,785,716 145,990,909 36,994,531 4,164,333 92,641 15,445
Net amount of policies in force. Net amount of policies become claims. Amount of premiums in year. Claims paid. Unsettled claims— Not resisted. Resisted. British Companies— Policies effected. Policies in force at end of year. No. Policies become claims. Net amount of policies in force. Net amount of policies in force.	,277,050,348 22,642,370 111,644,539 23,193,977 2,038,459 92,684 34,335 134,145 1,456 15,414,004	3,671,325,188 26,192,910 124,654,036 25,270,528 3,426,966 109,120 20,359 134,250	4,051,612,499 31,788,773 137,319,487 33,221,451 2,871,841 54,017 16,709	4,319,370,209 34,803,687 142,059,595 36,017,299 3,297,337 54,211 14,536	4,409,707,938 35,785,716 145,990,909 36,994,831 4,164,333 92,641 15,445
Net amount of policies become claims. Amount of premiums in year. Claims paid* Unsettled claims— Not resisted. British Companies— Policies effected. Policies in force at end of year. No. Policies become claims. " Net amount of policies in force. It is not a series of the policies in force at end of year. No. Policies become claims. " Net amount of policies in force.	22, 642, 370 111, 644, 539 23, 193, 977 2, 038, 459 92, 684 34, 335 134, 145 1, 456 15, 414, 004	26, 192, 910 124, 654, 036 25, 270, 528 3, 426, 966 109, 120 20, 359 134, 250	31,788,773 137,319,487 33,221,451 2,871,841 54,017 16,709	34,803,687 142,059,595 36,017,299 3,297,337 54,211 14,536	35, 785, 716 145, 990, 909 36, 994, 531 4, 164, 333 92, 641 15, 445
claims	111,644,539 23,193,977 2,038,459 92,684 34,335 134,145 1,456 15,414,004	124,654,036 25,270,528 3,426,966 109,120 20,359 134,250	137,319,487 33,221,451 2,871,841 54,017 16,709	3,297,337 54,211 14,536	145, 990, 909 36, 994, 531 4, 164, 333 92, 641 15, 445
Amount of premiums in year. Claims paid? Unsettled claims— Not resisted. Resisted. British Companies— Policies effected. Policies in force at end of year. No. Policies become claims. Net amount of policies in force. Net amount of policies in force.	111,644,539 23,193,977 2,038,459 92,684 34,335 134,145 1,456 15,414,004	124,654,036 25,270,528 3,426,966 109,120 20,359 134,250	137,319,487 33,221,451 2,871,841 54,017 16,709	3,297,337 54,211 14,536	145, 990, 909 36, 994, 531 4, 164, 333 92, 641 15, 445
Claims paid* Unsettled claims— Not resisted	23, 193, 977 2, 038, 459 92, 684 34, 335 134, 145 1, 456 15, 414, 004	25,270,528 3,426,966 109,120 20,359 134,250	33, 221, 451 2,871,841 54,017 16,709	36,017,299 3,297,337 54,211 14,536	36,994,531 4,164,333 92,641 15,445
Unsettled claims— Not resisted	2,038,459 92,684 34,335 134,145 1,456 15,414,004	3, 426, 966 109, 120 20, 359 134, 250	2,871,841 54,017 16,709	3,297,337 54,211 14,536	4,164,333 92,641 15,445
Not resisted. \$ Resisted. \$ British Companies— Policies effected. No. Policies in force at end of year. No. Policies become claims. " Net amount of policies effected. \$ Net amount of policies in force. \$ International Processing Section 1988.	92,684 34,335 134,145 1,456 15,414,004	109,120 20,359 134,250	54,017 16,709	54,211 14,536	92,641 15,445
Resisted	92,684 34,335 134,145 1,456 15,414,004	109,120 20,359 134,250	54,017 16,709	54,211 14,536	92,641 15,445
British Companies— Policies effected	34,335 134,145 I,456 15,414,004	20,359 134,250	16,709	14,536	15,445
Policies effected. No. Policies in force at end of year. No. Policies become claims. " Net amount of policies effected. \$ Net amount of policies in force. \$	134,145 I,456 15,414,004	134,250	16,709 137,803		
Policies in force at end of year No. Policies become claims	134,145 I,456 15,414,004	134,250	137,803		
Policies become claims	I,456 15,414,004				138,209
Net amount of policies effected \$ Net amount of policies in force \$	15,414,004				
Net amount of policies in force \$ 1			11.138,775	10.769,103	
The principal of positive in toice	113.883.716				
Net amount of policies become	110,000,	110,010,0,0	110,010,00,	117,115,000	122,200,000
claims	2,033,571	2.111.035	2.2(7.823	1,963,563	1,935,905
Amount of premiums in year	3,963,695	4,036,669			
Claims paid ²	1.867,679				
Unsettled claims—	2,000,000	2,000,101	_,,,,,,,,	,	
Not resisted\$	262.875	220, 166	381,383	224,187	316,545
Resisted					
Foreign Companies—			}		
Policies effected	582,645	613,851	615, 481	548,578	589,587
Policies in force at end of year "	3.934.511				4,442,864
Policies become claims"	41,573	43, 178	47,553	44,029	41,109
Net amount of policies effected 3 12	278.675.642	299.527.456	321.801.064	279, 275, 855	
Net amount of policies in force \$ 1.	.653.474.770	1.820.979.858	1.989.104.071	2,055,502,125	2,093,297,344
Net amount of policies become		' ' '	1		
claims \$	11,889,499		15,272,011		16,688,968
Amount of premiums in year \$	58, 124, 125	64,255,078	69,408,928	73,539,152	75,157,614
Claims paid \$	12,307,558	13,707,461	16,042,494	16,777,780	17,730,813
Unsettled claims—		!			
Not resisted	861,498			850,456	1,166,436
Resisted\$	59,493	61,774	53,491	114,473	115,242
All Companies—					
Policies effected	914,863				
Policies in force at end of year "	5,885,452		6,600,089		
Folicies Decome Claims	60,513	64,534	71,628		62,834
Net amount of policies effected \$ 8	838,475,057	918,742,064	978, 141, 485	884,749,748	782,716,064
Net amount of policies in force \$ 5,	,044,408,834	5,607,645,623	6,157,262,207	6,492,283,194	6,622,267,793
Net amount of policies become			40.070.00=	FO 600 001	E4 410 200
claims \$	36,565,440	41,687,976	49,278,607	52,626,374	54,410,589
	173,732,359		210,728,479		225,100,571 56,579,358
Claims paid: \$	37,369,214	41,073,423	51,294,650	54,870,041	90,919,838
Unsettled claims—	0 100 000	2 000 700	4,224,588	4,371,980	5,647,314
Not resisted	3,162,832				207,883
Resisted	152, 177	110,084	101,000	100,004	201,000

¹Figures of Canadian business only. ²Death claims, matured endowments and disability claims.

12.—Ordinary and Industrial Life Insurance Policies in Force and Issued in Canada, 1931.

	1	lewly Issued		în Force.		
Type of Policy by Nationality of Company.	Number.	Total Amount.	Average Amount of a Policy.	Number.	Total Amount.	Average Amount of a Policy.
· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •		\$		\$	•
Ordinary Policies—						
Canadian companies	186, 254	481,615,205	2,586	1,761,623	4,052,845,990	2,301
British companies	4,400	11,860,648	2,696	40,917	106, 982, 769	2,615
Foreign companies	112,987	192,121,438	1,700	722,367	1,281,127,567	1,774
All Companies	303,641	685,597,291	2,258	2,524,907	5,440,956,326	2,155
Industrial Policies—			:			
Canadian companies	1 0 6,969	52,491,723	491	427,866	157,164,605	367
British companies	11,532	3,384,626	293	97, 292	15,994,916	164
Foreign companies	490,782	107,076,254	218	3,720,084	672,067,243	181
All Companies	699,283	162,952,603	267	4,245,242	845,226,764	199

13.-Insurance Death-Rates in Canada, 1928-31.

Note.—Average death-rate of insured persons for all companies in the 26 years 1901-26 was 8.9 per 1000.

		1928.			1929.	
Type of Insurer.	Number of Policies Exposed to Risk.	Number of Policies Termin- ated by Death,	Death- rate per 1,000.	Number of Policies Exposed to Risk.	Number of Policies Termin- ated by Death.	Death- rate per 1,000.
All companies, ordinary	2,122,065	11,849	5.6	2,282,497	13,796	6.0
All companies, industrial	3,970,847	30,301	7.6	4,167,146	31,947	7.7
Fraternal benefit societies	221,269	3,106	14.0	220,450	3,195	14.5
Totals	6,341,181	45,256	7.2	6,670,093	48,938	7-3
		1930.			1931.	
All companies, ordinary	2,408,286	13,777	5.7	2,510,889	14,865	5+7
All companies, industrial	4,279,895	31,365	7.3	4,261,714	29,275	6.9
Fraternal benefit societies	223,816	3,158	14-1	219,418	3, 134	14.3
Totals	6,911,997	48,300	7.0	6,952,021	46,774	6.7

14.—Assets of Canadian Life Companies and Assets in Canada of Life Companies other than Canadian Companies, 1927-31.

Note.—Certain British companies transacting fire insurance in Canada transact also life insurance in Canada, and inasmuch as a separation of assets has not been made between these two classes, their assets in Canada are not included here, but are included in the assets of British companies shown in Table 3 on p. 933.

Real estate 27,415,408 29,876,943 34,939,006 47,155,903 53 53 54 54 54 54 54 5				I	ı		
Real estate 27,415,408 29,876,943 34,939,006 47,165,903 53 53 53 53 548,478 599,688 424,816 5,148,478 329,174 345 50 50 50 50 50 50 50	931.	193	1930.	1929.	1928.	1927.	Item.
Real estate 27,415,468 29,876,943 34,939,006 47,165,903 53 Real estate held under agreements of sale 253,125,752 294,818,250 327,211,037 338,122,114 345 250,688 243,816 5,148,478 320,811 284,436 182,797,797 195,566,166 229,108,632 267 320,008 321,009 338,122,114 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345 345	\$			*	\$	\$	
Real estate held under agreements of sale							Canadian Companies—
Loans on real estate 253.125,752 294,818,250 327,211,037 328,122,114 336 125,772,772 194,506,166 295,196,632 296,632 297,818,937 299,688 424,816 5,148,478 329,811 41,288,436 162,797,279 195,566,166 299,196,632 257,850,007,513 785,005,290 860 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116	819, 13	· '	, ,	34,939,006	29,876,943	27, 415, 468	Real estate beld under agreements of
299,688 424,816 5,148,478 820,811 Policy loans	, 698, 61 , 431, 31	11,69 345,43	14,269,209 338,122,114	327.211.037	294.818.250	-	sale
Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks Stocks S	295,01 576,69	29	820.811	5,148,478	424,816	299,688	Loans on collaterals
Interest and rent due and accrued	467,58	860,46	785,905,290	l 733, 077, 513	855, 692, 386	550 100 065	Stocks, bonds and debentures
Other assets. 28,000,731 33,832,762 38,509,327 46,239,991 2 Totals, Assets: 1,662,406 2,227,526 3,299,825 3,598,119 2 Real estate. 860,166 870,156 769,670 724,117 Real estate held under agreements of sale. 36,638,475 3,846,694 3,985,632 4,136,916 38,207,419 2,100,100,100,100,100,100,100,100,100,10	489,24 273,99		25,818,997	21,921,683	19,480,258	18,274,594	Interest and rent due and accrued
Real estate 860,166 870,156 769,670 724,117 Real estate held under agreements of sale 13,288,285 13,548,137 12,986,877 12,501,381 12 12,001,381 12 12,001,381 12 12,001,381 13,288,285 13,548,137 12,986,877 12,501,381 12 12,001,381 12 12,001,381 13,288,285 13,548,137 12,986,877 12,501,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,001,381 12 12,	426,00	49,42	46, 289, 991	38,809,327	33,632,762	28,000,731	
Real estate	995,01	2,99	3,598,119	3,299,825	2,227,526	1,662,406	Other assets
Real estate 860,166 870,156 769,670 724,117 Real: estate held under agreements of sale. 13,398,285 13,548,137 12,986,877 12,501,381 12 Loans on real estate. 863 1,733 76,613 2,741 76,613 2,741 12,501,381 12 Policy loans. 3,638,475 3,486,694 37,057 32,121,391 4,136,916 4 48,696 89,896,632 4,136,916 4 48,916 44,776 502,247 583,919 564,916 583,919 564,376 515,797 502,352 536,879 534,847 514,772 522,352 536,879 534,847 514,772 522,352 536,879 534,847 545,899 50,043 58,543 141,706 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 58 5	,472,57	1,634,4	1,509,863,172	1,366,298,618	1,206,417,421	1,036,505,504	Totals, Assets1
Real estate 2,766,911 2,484,145 2,378,116 2,448,397 2 Real estate held under agreements of sale. 11,701 Loans on real estate 23,799,383 23,479,295 23,416,508 30,488,337 31 Loans on collaterals 26,922,123 30,903,698 37,655,100 43,325,671 50	738, 24 78, 93 283, 85 12, 33 698, 57 579, 80 629, 82 671, 69 562, 48 183, 39 439, 13	12,28 14,68 38,57 62 67	58,704 12,501,381 2,741 4,186,916 36,912,816 583,919 860,221 534,847 141,706	12, 986, 877 76, 613 3, 985, 632 32, 121, 391 502, 247 815, 090 536, 879 58, 543	13,548,137 1,738 3,846,694 32,667,057 464,776 564,376 522,352 50,043	13, 398, 285 863 3,638, 475 32, 207, 849 446, 074 694, 806 514, 772 45, 899	Real estate Real estate held under agreements of sale. Loans on real estate Loans on collaterals. Policy loans. Stocks, bonds and debentures. Interest and rent due and accrued. Cash on hand and in banks. Outstanding and deferred premiums. Other assets.
Real estate held under agreements of sale							Foreign Companies—
sale	399,01	2,39	2,448,397	2,378,116	2,484,145	2,766,911	Real estate
Loans on collaterals	191, 80	21 10	11,701	00 416 500	mp 470 60s	00 500 000	sale
Stocks, bonds and debentures 219, 994, 393 242, 229, 081 267, 489, 395 311, 786, 613 331 Interest and rent due and accrued 3, 511, 835 3, 598, 689 4, 549, 395 5, 330, 201 5 Cash on hand and in banks 3, 896, 879 4, 396, 686 4, 600, 803 5, 787, 270 7	847,584 352,030 742,800 179,66 906,270 6,043	50,84 331,35 5,74 7,17 8,90	43,325,671 311,786,613 5,330,201 5,757,270 8,380,578	37,035,100 267,489,395 4,549,393 4,660,803 7,168,453	30,993,628 242,229,061 3,989,880 4,396,656 6,834,900	26,932,123 219,994,393 3,511,835 3,896,179 5,587,692	Loans on collaterals. Policy loans. Stocks, bonds and debentures. Interest and rent due and accrued. Cash on hand and in banks. Outstanding and deferred premiums
Totals, Assets in Canada 286,526,148 314,416,898 345,464,847 467,539,112 437	625,21	437, 62	407,539,112	348, 464, 847	314,416,898	286,526,148	Totals, Assets in Canada

¹The figures in the table give the book values; the authorized values of these assets were \$1,077,501,770 in 1927, \$1,251,326,900 in 1928, \$1,414,783,529 in 1929, \$1,511,413,068 in 1930 and \$1,611,093,987 in 1931.

15.—Liabilities of Canadian Life Companies and Liabilities in Canada of Life Companies other than Canadian Companies, 1927-31.

Item.	1927.	1928,	1929.	1930.	1931.
Canadian Companies		\$	\$	\$	\$
Unsettled claims Not re-insurance reserve. Sundry liabilities.	8,438,251 870,467,629 120,126,568	10,095,887 1,008,797,408 141,842,787	9,957,894 1,140,615,583 164,778,155	10,994,745 1,259,253,948 169,337,563	
Totals, Liabilities, not including Capital	998, 942, 448	I,1 60,736,0 82	1,315,351,632	1,439,586,256	1,558,7 01 ,255
Surplus of assets, excluding capital Capital stock paid up	78,559,322 8,450,152			71,824,812 11,140,654	52,389,728 10,946,497
British Companies!— Unsettled claims Net re-insurance reserve Sundry liabilities	262,875 29,402,171 336,505	30,818,854	381,384 31,495,050 339,041	224,188 32,861,364 444,118	33,618,926
Totals, Liabilities, not including Capital	30,001,551	31,435,085	32,216,475	\$3,529,670	35,498,057
Surplus of assets	21,759,750	21, 152, 250	19,688.473	22,979,884	23,001,463
Foreign Companies!— Unsettled claims Net re-insurance reserve Sundry liabilities.	920,991 243,876,209 14,020,362	278, 244, 841	1,024,358 303,264,419 17,358,608	904,929 331,104,374 18,949,502	352,485,637
Totals, Liabilities, not including Capital	258,817,562	299,360,749	321,647,883	351,018,805	373,815,201
Surplus of assets	27,708,586	24,056,149	26,816,964	56,520,307	63,810,014

Liabilities in Canada.

16.—Principal Items of Cash Income and Expenditure of Canadian Life Companies, and Cash Income and Expenditure in Canada of Life Companies other than Canadian Companies, 1927-31.

					
Item.	1927.	1928.	1929.	1930.	1931.
INCOME.	\$	*	:	*	\$
Canadian Companies Net premium income Consideration for annuities Interest, dividends and rents Suadry items	189,773,972 10,948,053 56,917,760 16,000,473	27,775,296 65,761,754	21,904,175 74,076,246	24,816,263 78,424,368	30,943,652 77,191,229
Totals, Cash Income1	273,649,258	333, 471, 734	386,843,843	405,868,700	429, 365, 707
British Companies* Net premium income	3,963,694 2,375,046 105,346		2,260,650	7,857	93,058
Totals, Cash Income;	6,444,086	6,614,088	6,318,148	7,323,219	6,570,299
Foreign Companies?— Net premium income Consideration for annuities. Interest, dividends and rents. Sundry items.	58, 124, 125 217,076 13,477,158 1,882,648	221 904 15,468,627	401,236 17,396,145	73,539,152 403,889 20,290,992 2,249,119	488,235 23,034,373
Totals, Cash Income ²	73,701,007	81,720,638	89,290,124	96, 483, 152	101,018,840

For footnotes see end of table, p. 952.

16.—Total Cash Income and Expenditure of Canadian Life Companies, and Cash Income and Expenditure in Canada of Life Companies other than Canadian Companies, 1927-31—concluded.

Item.	1927.	1928.	1929.	1930.	1931.
EXPENDITURE.	\$		\$	*	<u> </u>
Canadian Companies:— Payments to policyholders	102,211,905 52,662,089 1,532,455 3,998,698	60,837,059 1,904,225	152,626,413 71,784,899 2,515,406 8,813,307	177, 179, 476 77, 271, 147 3, 022, 993 12, 775, 135	203,011,738 72,011,435 2,148,144 19,202,852
Totals, Expenditure ¹	160,405,147	186,848,305	235,740,625	270,248,751	296,374,169
Excess of income over expenditure	113,235,111	146,628,429	151, 128, 818	135,119,949	132,981.538
British Companies ² Payments to policyholders General expenses Other disbursements.	2,771,207 1,099,852 60,076	3,107,238 985,677 87,622	3,398,542 971,130 50,990	4, 402, 299 984, 147 38, 679	3,511,983 1,085,483 57,100
Totals, Expenditure ²	3,931,135	4,180,537	4,415,662	5,425,125	4,654,566
Excess of income over expenditure	2,512,951	2,433,551	1,902,486	1,898,094	1,915,733
Foreign Companies*— Payments to policyholders General expenses Other disbursements	27,724,692 13,901,431 778,209	14,638,186	15,597,059	40,277,675 15,474,742 2,092,437	48,233,349 14,970,837 2,165,686
Totals, Expenditure2	41,404,332	45,225,873	51,708,606	57,844,854	65,369,872
Excess of income over expenditure	32,296,675	36,494,825	37,581,518	38,638,298	35,648,968

Includes income or expenditure on business outside of Canada. Income or expenditure in Canada.

Life Insurance Effected through Fraternal Benefit Societies.—In addition to life insurance, some fraternal benefit societies grant other insurance benefits to members, notably sickness benefits, but these are relatively unimportant. Table 17 gives statistics of life insurance effected through fraternal benefit societies on Canadian members, together with statistics of assets, liabilities, income and expenditure relating to the whole business of Canadian societies and to the business in Canada of foreign societies. The rates charged by these societies are computed to be sufficient to provide the benefit granted, having regard for actuarial principles. Each benefit fund of every society must be valued annually by a qualified actuary (Fellow by examination of the Institute of Actuaries, London; of the Faculty of Actuaries in Scotland; of the Actuarial Society of America; or of the American Institute of Actuaries), and unless the actuary certifies to the solvency of each fund a readjustment of rates or benefits must be made. The statistics in the first part of this table relate to the Canadian societies reporting to the Insurance Department of the Dominion Government, which numbered 8 in 1931, viz., Alliance Nationale, Ancient Order of Foresters, Artisans Canadiens-Français, Canadian Woodmen of the World, Catholic Mutual Benefit Association, Commercial Travellers' Association of Canada, Independent Order of Foresters and Grand Orange Lodge of British America.

Under an amendment to the Insurance Act, effective Jan. 1, 1920, all foreign fraternal benefit societies were requested to obtain Dominion authority precedent to transacting business in Canada, but any such societies which at that date were transacting business under provincial licences, while forbidden to accept new members, were permitted to continue all necessary transactions in respect of the insurance

of their then members. Most of these societies have since obtained Dominion authority to transact business, also some foreign societies which had not previously been licensed by the provinces. Of both classes of societies, 24 transacted business in Canada in 1931, viz., Aid Association for Lutherans, Association Canado-Américaine, Brotherhood of American Yeomen, Catholic Order of Foresters, Expressmen's Mutual Benefit Association, First Catholic Slovak Union, Jewish National Workers' Alliance, Knights of Columbus, Ladies' Catholic Benevolent Association, Lutheran Brotherhood, Lutheran Mutual Aid Society, Maccabees, Modern Woodmen of America, National Fraternal Society of the Deaf, National Slovak Society of U.S.A., Royal Arcanum, Royal Clan (Order of Scottish Clans), Slovene National Benefit Society, Sons of Norway, United Commercial Travelers of America (accident business only), Verhovay Aid Association, Women's Benefit Association, Women's Catholic Order of Foresters, Workmen's Circle.

17.—Statistics of Fraternal Benefit Societies' Insurance, 1927-31.

	-				
Item.	1927.	1928.	1929.	1930.	1931.
CANADIAN SOCIETIES, (Life Insurance in Canada.) Number of certificates effected Number of certificates become claims	15,475 3,146	18,857 3,521	20,079 3,250	14,598 3,320	12,798 3,150
Amount paid by members. Amount of certificates effected. Net amount in force Amount of certificates become claims. Benefits paid.	3,104,177 13,867,269 135,093,703 2,658,332 3,188,977	2,984,515 15,896,261 136,421,265 2,941,605 3,169,951	2.981.508 15.095.645 136.107.164 2.776.499 3,218.574	2,907,347 11,255,675 129,852,173 2,847,823 3,376,260	2,938,26 9,599,29 127,947,416 2,706,33 3,278,62
Unsettled claims— Not resisted	160,652 1, 0 00	192,374 2,000		196,006	221,46 4,00
Death Surrender, expiry, lapse, etc	2,004,914 15,435,133	2,180,196 15,689,299	2,227,415 17,172,287	2,173,822 16,216,935	2,113,39 15,207,14
Totals, Terminated	17,440,047	17,869,49£	19,399,702	18,390,757	17,319,53
Assets (whole business)— Real estate Loans on real estate Policy loans Stocks, bonds and debentures Cash on hand and in banks Interest and rent due and accrued Dues from members Other assets.	1, 905, 763 14, 523, 005 10, 581, 935 32, 746, 864 942, 491 780, 986 279, 384 3, 403, 796	2, 154, 998 15, 994, 461 10, 198, 992 33, 964, 330 930, 342 824, 895 272, 608 2, 925, 253	2, 141, 627 17, 205, 743 9, 959, 596 35, 363, 109 857, 160 849, 206 275, 843 2, 712, 074	2, 175, 663 17, 897, 910 9, 892, 340 36, 495, 997 728, 528 885, 435 284, 242 2, 609, 696	9, 894, 38 40, 273, 77 733, 81 995, 52 383, 12 2, 716, 96
Totals, Assets	65,164,224	67,265,869	69, 361, 358	70,969,811	82,169,12
Liabilities (whole business)— Claims, unsettled Reserves. Other liabilities.	225,026 60,059,878 1,949,650	275,268 61,005,846 2,093,745	298, 934 61, 578, 374 2, 023, 571	248, 754 62, 062, 212 2, 150, 987	287, 548 71, 063, 566 3, 123, 118
Totals, Llabilities	62,234,554	63,374,859	63,500,879	61,461,953	74,474,234
Income (whole business)— Assessments Fees and dues Interest and rents Other receipts	6,014,340 527,875 3,254,759 145,063	6,041,199 543,487 3,378,298 198,129	5,795,297 536,441 3,456,537 79,557	5,585,562 516,238 3,551,694 70,334	5,543,026 496,290 3,588,780 119,290
Totals, Income	9,942,037	10, 161, 113	9,866,832	9,723,828	8,747,384
Expenditure (whole business)— Paid to members. General expenses Other expanditure.	5,817,002 1,626,786 160,726	5,795,082 1,487,104 208,097	5,987,451 1,518,668 180,896	6,058,918 1,428,655 148,894	5, 961, 192 1, 722, 926 96, 176
Totals, Expenditures	7,604,514	7,490,283	7,687,015	7,636,467	7,780,234
Excess of income over expenditure	2,337,523	2,670,830	2,179,817	2,087,361	1,967,092

The figures given are the book values: the authorized values of these assets were: \$66,864,489 in 1927, \$68,275,989 in 1928, \$69,410,022 in 1929, \$71,510,045 in 1930 and \$82,195,624 in 1931.

17.—Statistics of Fraternal Benefit Societies' Insurance, 1927-31—concluded.

					
Item.	1927.	1928.	1929.	1930.	1931.
FOREIGN SOCIETIES, (Life Insurance in Canada.)				••	
Number of certificates effected Number of certificates become claims	5,392 735	5,328 741	4,965 786	4,315 868	5,766 886
Amount paid by members	1,102,829 7,045,512 56,961,015 816,036 809,321	973, 144 5, 843, 865 49, 908, 304 752, 052 756, 424	1,061,584 5,396,175 51,921,366 808,840 812,695	1,065,271 4,709,995 55,436,601 920,161 899,186	1,105,412 5,883,799 55,698,821 871,560 867,624
Unsettled claims— Not resisted	89,339	78,308 -	91,688 -	79,680 -	80,656 917
Amount terminated by— Death Surrender, expiry, lapse, etc	727,272 7,538,906	678,684 4,383,537	733,671 798,890,8	746,679 5,070,780	733,006 5,727,668
Totals, Terminated	8,266,178	5,062,221	5,829,068	5,817,459	6,460,674
Assets (Canadian business)— Real estate. Loans on real estate. Policy loans. Stocks, bonds and debentures. Cash on hand and in banks. Interest and rent due and accrued. Dues from members. Other assets.	12, 497 1, 804, 502 285, 298 23, 203; 56, 739	23, 884 1, 887, 847 235, 948 26, 405 78, 151	45, 505 2, 225, 355 355, 104 30, 323 72, 204 468	4,500 97,606 2,533,842 162,313 31,683 77,524	6,275 178,365 2,690,294 346,654 34,624 113,365
Totals, Assets	2, 182, 275	2,252,364	2,728,959	2,997,468	3,379,080
Liabilities (Canadian business)— Claims unsettled	94,749 6,506,723 115,245	83,257 6,859,496 21,345 6,964,09 8	97,704 7,376,121 15,173 7,488,998	90,889 7,967,836 18,515 8,077,240	109,398 8,227,310 23,100 8,359,868
a domesy allawaters					
Income (Canadian business)— Assessments. Fees and dues. Interest and rents. Other receipts.	1,181,180 309,534 94,557 5,387	1,051,521 289,455 118,740 5,912	1,146,134 273,525 123,814 8,115	1,174,686 281,461 128,549 7,819	1,217,118 279,914 111,514 6,581
Totals, Income	1,599,658	1,465,628	1,551,588	1,592,515	1,615,127
Expenditure (Canadian business)— Paid to members General expenses Other expenditure	885,530 199,536 5,501	813,334 184,559 5,791	894,513 171,383 6,646	1,008,530 185,820 6,830	981,857 196,802 7,391
Totals, Expenditure	1,050,567	1,043,684	1,072,542	1,201,180	1,186,050
Excess of income over expenditure	500,091	461,944	479,046	391,335	429,077

Summary of Life Insurance in Canada, 1931.—In addition to the business transacted by life insurance companies registered by the Dominion, a considerable volume of business is also transacted by companies licensed by the provinces. Statistics of these provincial companies have been collected since 1915 by the Department of Insurance. Table 18, showing policies effected and in force, premiums received and losses paid, in Canada in 1931, summarizes the volume of business done by both life companies and fraternal societies, whether registered by the Dominion or licensed by the provinces.

Business Transacted by—	New Policies Effected (net).	Net In Force Dec. 31.	Net Premiums Received.	Net Claims Paid,
	\$	\$	*	\$
Dominion Licensees— (a) Life insurance companies (b) Fraternals	782, 716, 064 15, 483, 092		225, 100, 571 4, 043, 679	56,579,358 3,603,259
Totals for Dominion Companies	798, 199, 156	6,845,914,032	229,144,250	60, 182, 617
2. Provincial Licensees— (a) Provincial companies within provinces by which they are incorporated— (1) Life companies	10,245,318 2,332,761		1,941,612 1,429,988	674,451 1,038,448
încorporated— (1) Life companies	7,827,264 3,493,579		962,345 844,670	358,179 532,375
Totals for Provincial Companies	23,898,922	202,094,301	5,178,615	2,663,453
Grand Totals.	822,098,078	7,008,008,333	234.322.865	\$2,786.076

18.—Dominion and Provincial Life Insurance in Canada, 1931.

Section 3.—Miscellaneous Insurance.

Since 1875 the growth of insurance business other than fire and life has been steady. The report of the Superintendent of Insurance for the calendar year 1880 shows that the number of companies licensed for the transaction of accident, guarantee, plate glass and steam boiler insurance—the only four classes of miscellaneous insurance then transacted—was 5, 3, 1 and 1 respectively. The report for the year 1931 shows that miscellaneous insurance in Canada now includes: accident, automobile, aviation, burglary, credit, earthquake, explosion, forgery, guarantee, hail, leakage, live-stock sickness, steam boiler, title, tornado, weather insurance, etc. In 1880 10 companies transacted business of the miscellaneous kind, but in 1931 such insurance was sold by 251 companies, of which 53 were Canadian, 59 British and 139 foreign; 180 of these 251 companies also transacted fire insurance. In addition, 18 fraternal orders or societies carried on sickness insurance as well as life insurance business.

Accident Insurance.—The first licence of this kind was issued to the Travelers' Co., of Hartford, Conn., in 1868. The first licence to a Canadian company was issued to the Accident Insurance Co. of Canada, which was organized in 1872 and commenced business in 1874. Much accident insurance has also been sold by companies doing primarily a life insurance business. Seventy-two companies transacted accident insurance in 1931.

Automobile Insurance.—This is now one of the most important branches of the miscellaneous class of insurance. Premiums increased from \$80,446 in 1910 to \$573,604 in 1915 and to \$18,260,176 in 1930; for 1931 they were \$16,825,020, showing a decrease of 8 p.c. for the year. There has been an increase in the number of companies from 7 to 162 during the 21-year period.

Plate Glass Insurance.—Policies were first sold in Canada by the Metropolitan Plate Glass Insurance Co., a United States' concern, which withdrew from Canada during 1882 to avoid business restrictions. The 73 companies operating in Canada in 1931 received premiums of \$585,437 and incurred claims of \$249,715, compared with premiums of \$553,842 and claims of \$268,924 for 1930.

Burglary Insurance.—In 1893 only one company issued burglary policies. A second followed in 1905, and in 1910 5 companies were operating, while 68 companies sold this type of insurance during 1931. The premium income of these companies amounted in 1931 to \$1,344,134 and the losses incurred amounted to \$462,633.

Hail Insurance.—Insurance against hailstorms is a class of business of comparatively recent development in Canada. During the year 1931, 42 companies undertook this class of risk, the premiums written amounting to \$573,997 and the losses incurred to \$480,377. The total premiums for the 22 years during which this business has been carried on in Canada amounted to \$65,022,607 and the total losses paid to \$45,126,625.

19.—Insurance other than Fire and Life in Canada, 1931.

70 C Y	Premiums	Losses	Unsettled Claims.		
Type of Insurance.	Received.	Incurred.	Not Resisted.	Resisted.	
	\$	\$	\$	ş	
luarantee (fidelity)	1,341,335	638,765	374, 195	31.26	
luarantee (surety)	1.016.746	347,858	274.160	70.45	
'ersonal accident	3,220,031	1,648,921	553, 988	14,32	
ersonal accident and sickness	1.826.873	1,099,968	237, 144	50	
Imployers' liability and workmen's com-	-,,,	*,*,			
pensation	2.116.028	1,330,033	2,152,067	7,62	
ther accident insurance	1,590,995	711,017	440.542	35.33	
ickness	1,690,089	1.127.209	344,821	1.49	
Burglary	1.344.134	462,633		1.05	
team boiler	543,957	20.752			
Iail	573,997	480.377		_	
nland transportation	1.024.336	334.019		1.59	
late glass	585,437	249.715			
utomobile	16,825,020	9,786,185		272,48	
ive-stock	35, 191	35,410		50	
ornado	169.354	81.559	4,501		
Carthquake	10,233	41,000	1,007	-	
orgery	36,480	22,245	1.930	62,08	
Cain	10,949	4,575	182	0=,00	
redit	309,925	269,730		1.00	
Mectrical machinery	197.838	43,403		., .	
raud	31,148	13.841	10,000		
viation	86,537	231,027	26,739	7.00	

¹ Domínios licensees only.

 Income and Expenditure, and Assets and Liabilities of Canadian Companies doing only Insurance Business other than Fire and Life, 1931.

Company.	Income.	Expendi- ture.	Excess of Income over Expenditure.	Assets.	Liabili- ties.¹	Excess of Assets over Liabilia- ties.
	\$	*	\$			\$
Boiler Inspection Chartered Trust Confederation Life Fidelity Insurance T. Eaton General Guarantee Co. of North America London Life Merchants Casualty North American Accident Protective Association Royal Guardians.	405, 447 361, 638 17, 540 255, 921 22, 133 618, 049 182, 152 387, 723 111, 279 433, 727 433, 727	357, 949 349, 735 9, 731 268, 609 3, 806 590, 031 164, 132 327, 817 71, 506 422, 256 2, 635	47, 498 11, 904 7, 809 -12, 687 18, 327 28, 018 18, 019 9, 905 39, 773 11, 471 569	1,006,192 3,768,8472 98,139 482,774 172,438 4,283,253 166,850 361,256 418,849 331,855 21,125	459,640 2,618,714 4,063 178,868 2,050 1,106,985 56,840 215,850 39,659 149,267 8,788	546,553 1,150,133 94,076 303,905 170,388 3,176,268 100,009 145,406 379,180 182,568 12,338
Totals	2,748,814	2,568,208	180,806	11,101,569	4,840,724	6,260,844

¹ Not including capital stock. 1 Including \$644,461 loans on collateral.

21.—Income and Expenditure in Canada of Companies, other than Canadian, doing only Insurance Business other than Fire and Life, 1931.

	•	Income.		F	Expenditure).	Excess of
Company.	Pre- miums.	Interest and Divi- dends Earned.	Total Income.	Net Losses Incurred.	General Expendi- ture.	Total Expendi- ture.	Income over Expendi- ture.
	\$ _	\$	\$	8	\$	\$	\$
Abeille	3,131	4,817	7,948	3,670	1,728	5,398	2,550
Aero Indemnity	14,542 28,924	1,126	15,668 31,659	- 2,738 12,962	6,678 11,241	3,940 24,203	11.728 7,456
Aero Insurance Ætna Casualty	28,374	2,735 5,362	58,262	10,657	23,029	33,686	24,577
Ætna LifeAlliance Casualty	30,404	5, 295	58,262 35,721	18,877	6,014	24,891	10,830
American and Foreign	None 3,058	None 250	None	None None	None 2,255	None 2,255	None
American and Foreign American Automobile Fire	254,865	456	3,303 255,321 571,876	110.913	113.694	234.007	1,048 30,714 - 39,777
American Automobile American Credit	570,459	1,417	571,876	110,913 379,746 142,800	231,907 73,651	611.653 216.451	- 39,777
American Credit	183,955 73,029	2,832 5,918	186,862 78,947	142,800 11,016	73,651 22,808	216,451 33,824	- 29,589 45,128
American Surety Bankers' Indemnity	- 1,620		4.380	3,587	→ 52	3,535	845
British and Foreign	None	5,990	5.990	None	206	206	5,783
Central West Casualty Century Indemnity	7,583 53,167	2,078 14,800	9,661 67,967	2,063 32,954	3,449 27,273	5,512 60,227	4,149 7,740
Connecticut General	None	2,125	2,125 2,158	None	None	None	9 196
Constitution Indemnity	178	1.980	2,158	2,599 350,347	89	2,687	- 529
Continental Casualty	646,026 204,225	25,534 7,250	671,560 211,475	350,347 81, 980	317,063 72,976	2,687 667,410 154,956	4,150 56,519
Continental Casualty. Employers' Reinsurance. Fidelity and Casualty.	6,033	7,250 12,798	18,831	5,338	3,030	8,369	10,462
Fireman's Fund Indemnity]	14,532	2,000	16,532	2.234	3,506	8,369 5,740	10,792
General Casualty of America. General Casualty of Paris	251,742 233,160	11,320	263,062 251,504	124,787 153,039	97,751 129,844	222,538 282,883	- 40,524 - 31,379
General Exchange	390,138	18,344 19,850	410, 179	226,432	72,511	298,943	111,235
General Indomnity	1,247	999	$\frac{2,603}{7,250}$	None	1,668	1,668	935
General Remsurance Great American Indomnity	None 94,486	7,250 None	7,250 94,486	None	336 30,167	336 34,129	6,914 60,357
Hartford Accident	195,982	15.063	211.046	3,963 85,753	86,947	172,700	38,346
Hartford Live Stock	20,478	3,288	23,766	18.377	10,000	172,700 28,377	- 4,611
Hartford Steam Boiler	12,495 55,293	2,500 11,016	14,995 86,300	None 20,713	2,421 16,469	2,421 37,182	12,574 29,127
Home Indemnity	131,281	17,326	66,309 148,607	58,277	73,693	131,970	18 627
International Fidelity	5,814	None	5,314	2,071	704	2.775	2.539
Lloyd's Casualty	254,472 298,225	16,363 6,670	270, 835 304, 895	132,242 191,325	121,245 109,388	253,487 300,718	17,348 4,182
Loyal Protective Lumbermen's Mutual Cas-							
Maryland Casualty	365,175	10,813	375,988	166,530	180,176	346,706	29,282
Maryland Casualty	483,406 98,061	33,055 24,058	466, 461 122, 119	185,758 50,756	208,265 62,804	394,023 113,560	72,438 8,559
Metropolitan Casualty Metropolitan Life Monarch Accident	591,068	17, 150	608,218	409, 982	143,603	553,584	54,634
Monarch Accident	89,591	1 2.568	608,218 92,159	55,866 267,762	30,207 156,277	86,073	6,086
National Surety National Union Indemnity	358, 286 56, 905 6, 370	24,065 10,313	384, 188 67, 218 17, 982	Z07.792	42.850	424,039 156,685	- 39,851 - 89,467
New York Casualty	6.370	11,612	17,982	113,835 7,980	42,850 21,009	156,685 28,989	- 11.007
New York Casualty New York Indemnity Northwest Casualty	10,408	None	16,807 21,641	9,162 14,304	31,660 6,270	40,822 20,574	- 24,015
Occidental Life	19,639 None	2,002 2,885	2, 885	None	None	None None	1,067 2,885
Ocean Marine	None	None	None	None	None	None	None
Preferred Accident	71,464 6,447	10,056 None	81,520 6,447	38,527 2,008	46,218 2,470	84,745	- 3,225 1,968
St. Paul-Mercury	35, 156	2,537	37,693	30,865	13,873	4,479 44,738	- 7,045
Standard Marine	384	500	884	None	67	l 67	817
Tornado Inter-Insurance Transportation	2,702 6,209	None 495	3,197 6,209	Nопе 8,187	852 2,733	852 10,920	2,345 - 4,711
Travelers' Indemnity Travelers' Insurance	637,501 1,020,778	34,222 58,363	671,723	353,565	312,955	666,520	5,203
Travelers' Insurance	1,020,778	58,363	1,079,141	575,600	459,248	1,034,848	44,293
Union Indemnity United States Casualty	182,404 Noпе	6,720 None	189,563 None	53, 289 None	77,033 None	130,322 None	59,241 None
United States Fidelity	970,174	51,800	1,021,974 2,176	420,007	480,960	900.967	121,007
United States Guarantee	1,049 418,015	1,127 28,628	2,176	None 190,339	1,553	1,553 408,779	623
Zurich					218,440	408,779	32,864
Totals	9,447,366	573,721	10,048,\$33	5,140,806	4,173,212	9,313,517	735, 415

22.—Dominion and Provincial Insurance in Canada, other than Fire and Life, 1931. NET PREMIUMS RECEIVED.

		D.	vincial Licens		
Class of Business.	Dominion Licensees.	(a) Prov. Cos. within Provinces by which they are Incorp.	(b) Prov. Cos. in Provinces other than those by which they are Incorp.	Total Provincial Licensees.	Grand Total,
Accident (1) Personal	\$ 3,220,031	3,873	\$ 124	\$ 3,997	\$ 3,224,028
workmen's compensation. (3) Other Accident and sickness combined Automobile. Aviation Burglary Credit Earthquake. Electrical machinery Porgery. Fraud.	2,116,028 1,590,995 1,826,873 16,825,020 86,537 1,344,134 309,925 10,223 197,838 36,480 31,148	604,916 32,388 122,433 637,962 28,429	418,625 1,944 75,860 207,313 11,160	1,023,541 34,332 198,293 845,275 39,589	3, 139, 569 1, 625, 327 2, 025, 166 17, 670, 295 86, 537 1, 383, 723 309, 925 10, 232 197, 838 36, 480 31, 148
Guarantee (fidelity). Guarantee (surety). Hail Inland transportation. Live-stock.	1,341,335 1,016,746 573,997 1,024,336 35,191	60,481 ¹ 77,277 6,008	30,411 ¹ 594	90, 8921 77, 277 6, 602	2,448,973 ¹ 651,274 1,030,938 35,191
Plate glass. Rain Sickness Sprinkler ² Steam boiler. Title	585,437 10,949 1,690,089 8,669 543,957	59,893 2,759 - -	3,803 - - - -	63,696 2,759 -	649, 133 10, 949 1, 692, 848 8, 669 543, 957
Tornado. Weather. , Totals.	169,354 - 34,595,302	35,050 1,671,469	749,834	35,050 2,421,303°	169,354 35,050 37,016,605

NET LOSSES INCURRED.

Accident (1) Personal	1.648,921	2,205	153	2,358	1,651,279
(2) Employers' liability and		-,		_,	_,
workmen's compensation	1,330,033	383.322	344, 196	727,518	2,057,551
(3) Other	711,017	7, 111	777	7,888	718,905
Accident and sickness combined	1,099,968	51,005	29,394	80,399	1,180,367
Automobile	9,786,185	371,894	130, 154	502,048	10,288,233
Aviation	231,027	-	_	_	231,027
Burglary	462,633	15,478	2,173	17,646	480,279
Credit	269,730	· -		- i	269,780
Earthquake	- 1	-	•	_	-
Electrical machinery	43,403	- !	-	_	43,403
Forgery	22,245	- 1	-	-	22, 245
Fraud	13.841	-	-		13,841
Guarantee (fidelity)	638, 765	}	10 5001	41 6801	1 400 1751
Guarantee (surety)	347,858	22,832	18,7201	41,5521	1,028,1751
Hail	480,377	10,922	_	10,922	491,299
Inland transportation	334.019	2.676	-	2,676	336,695
Live-stock	35,410	- 1	-	· -	35,410
Plate glase	249,715	27.851	2,492	30,348	280,058
Rain	4.575	· - I	· -	_	4,575
Sickness	1.127,209	2,453	-	2,453	1,129,662
Sprinkler ²	903	-,	_	-	903
Steam boiler	20,752	- 1			20,752
Title	,	-	-	- 1	-
Tornado	81.559	- [-	i - i	81,559
Westher	-	11,754	-	11,754	11,754
Totals	18,949,145	949,458	528,459	1,437,557	20,377,7024

Provincial companies did not furnish a separation of guarantee figures.
This business was transacted by a company not holding a licence to transact fire insurance.

^{*} Excluding \$1,736,201 premiums of Fraternal Benefit Societies for Accident, Sickness and Funeral business.

^{*} Excluding \$934,694 losses of Fraternal Benefit Societies for Accident, Sickness and Funeral business.

Section 4.—Government Annuities.

In the early years of the 20th century, there arose throughout the civilized world a distinct movement in favour of ameliorating the living conditions of the less well-off members of society. One form which this movement took in the United Kingdom was that of old age pensions, granted by the State as a gift to its poorer citizens, whose earnings were very generally insufficient to permit of a margin of saving. In Canada, where wages were higher and a margin of saving was possible, the movement at first took the form of providing, by establishing Government annuities, an absolutely safe investment for such savings, which had only too often been lost through the inexpecience of their owners, leaving the latter a burden upon the charity of relatives or of the public. The cost of administering those annuities is borne by the Dominion Government.

Under the Government Annuities Act (Chapter 7, R.S.C., 1927, amended by c. 33, R.S.C., 1931), His Majesty the King, represented by the Minister (at present the Minister of Labour), may sell to persons over the age of 5 years, domiciled or resident in Canada, immediate or deferred annuities of not less than \$10 nor more than \$1,200 (1) for the life of the annuitant, (2) for a term of years certain, not exceeding 20 years, or for the life of the annuitant, whichever period shall be the longer, or (3) to any two persons domiciled in Canada during their joint lives, and with or without continuation to the survivor. The property and interest of any annuitant in any contract for an annuity is neither transferable nor attachable. The purchaser may contract that, in the event of the death of the annuitant before the date fixed for the annuity to begin, all money paid shall be refunded to the purchaser or his legal representatives with interest at the rate of 4 p.c. compounded yearly.

From Sept. 1, 1908, the date of the inception of the Annuities Branch, up to and inclusive of Mar. 31, 1932, the total number of annuity contracts issued was 15,019. Of these contracts, 1,746 have been cancelled, leaving in force on Mar. 31, 1932, 13,273 contracts. The total amount of purchase money received during the same period was \$32,666,706. Table 23 gives the details of annuities contracted for and purchase money received from 1909 to 1932, by years.

23.—Government Annuities Contracted for, and Purchase Money Received, fiscal years ended Mar. 31, 1999-32.

Fiscal Years.	Contracts.	Purchase Money Received.	Fiscal Years.	Contracts.	Purchase Money Received.
19091	No. 66 566	\$ 50,391 434,491	1921 1922	No. 195 277	\$ 531,800 748,160
1911 1912 1913	1,069 1,032 373 318	393,441 441,601 417,136 390,887	1923 1924 1925 1926	339 409 486 668	1,028,353 1,458,819 1,606,822 1,938,921
1915	264 325 285 187	314,765 441,696 432,272 332,792	1927 1928 1929 1930	503 1,223 1,328 1,257	1,894,885 3,643,088 4,272,419 3,156,475
1919	147	322,154 408,719	1931 1932	1,772 1,726	3,612,234 4,194,384

Seven months.

¹A Dominion-Provincial non-contributory scheme of old age pensions, providing for the payment, to persons 70 years and over; of pensions not exceeding \$20 per month, contributed by the Dominion and the provinces which became parties to the scheme, was enacted by chapter 35 of the Dominion Statutes of 1927. The system is now in effect in British Columbia, Manitoba, Saskatchewan, Alberta, Ontario and the Northwest Territories. For further particulars, see pp. 780-782.

Statistics of the Annuities Fund and value of all contracts issued are given in Tables 24 and 25. From Sept. 1, 1908 to Mar. 31, 1932, 15,019 annuities had been issued. On Mar. 31, 1932, 5,254 immediate annuities and 8,019 deferred annuities were in force. The total value of these annuities on that date was \$26,871,979 and the amount of annuities purchased was \$5,477,596.

24.—Government Annuities Fund Statement, fiscal years ended Mar. 31, 1929-32,

Item.	1929.	1930.	1931.	1982.
ASSETS,	\$	\$	\$	*
Fund at beginning of year	14,719,484 8,649,616	18,369,100 2,243,150	20,612,250 2,694,704	23,306,954 3,275,576
Fund at end of year	18,369,100	20,612,250	23,306,954	26,582,530
LIABILITIES.				
Net present value of all outstanding contracts	18,335,193	20,720,895	23,568,894	26,871,979
RECEIPTS.				
For Immediate Annuities	3,607,110 673,274	2,484,818 682,887	2,650,506 992,843	3.047.079 1.191.070
Interest on Fund	638,889	757,393	843,374	979,883
Refunds	1,056 132,844	184	1,679 108,644	905 261,939
Totals	5,053,173	3,925,282	4,597,046	5,480,876
PAYMENTS.				
Annuities paid under Immediate Contracts	1,368,542	1,646.699	1,849,413	2, 122, 108
Return of Premiums with interest	27,051	24,203	22,795	39,427
Return of Premiums without interest	7,965 3,649,615	11,280 2,243,150	30,133 2,694,705	48,766 3,275,576
Totals	5,053,173	3,925,282	4,597,046	5,480,876

25.—Valuation, on Mar. 31, 1931 and 1932, of Annuity Contracts Issued pursuant to the Government Annuities Act, 1908.

		1931.		1932.		
Description of Contract.	Number. of Annuities.		Total Value on Mar. 31, 1931, of Annuities Purchased.	Number.	Amount of Annuities,	Total Value on Mar. 31, 1931, of Annuities Purchased.
		\$	\$		\$	\$
1—Immediate Annuities	2,830 1,101 630 7,220 11,781	1,282,175 368,054 332,931 2,683,347 4,666,567	10,313,299 3,754,671 3,705,453 5,795,471 23,568,894	1,295 747 8,019	1,412,566 434,253 386,652 3,244,124 5,477,596	11,406,687 4,477,352 4,315,406 6,672,534 26,871,979

It will be seen from the statements above that Government Annuities have grown steadily in favour, especially since 1921. The actual purchase money received was highest in 1929, while the number of contracts reached a maximum in 1931. In the year 1932, however, the figures for both the number of contracts and the amount of purchase money received were well up toward these maximum levels. The fund, which on March 31, 1932, had been in existence for nearly twenty-three years, shows a particularly healthy growth and from 1928 to 1932 has increased from \$14,719,000 to \$26,583,000.

CHAPTER XXIV.—COMMERCIAL FAILURES.

According to Section 91 of the British North America Act, "the exclusive legislative authority of the Parliament of Canada" extends to bankruptcy and insolvency legislation, and an Insolvency Act (32-33 Vict., c. 16) was actually passed by the Dominion Parliament in 1869, applying to the four original provinces. This Act was in force for four years and was renewed by c. 46 of the Statutes of 1874, while in 1875 a new Insolvency Act (38 Vict., c. 16) applicable to the whole Dominion was passed, but was repealed in 1880. After this there was no Dominion legislation on the subject of bankruptcy until 1919. During the interval of nearly 40 years commercial failures were handled under provincial legislation, and the statistics relating to such failures during this period were compiled and published by Dun's and Bradstreet's commercial agencies. In 1919 a general Dominion Bankruptcy Act was passed (9-10 Geo. V, c. 36). Statistics of commercial failures dealt with under this Act since it came into force in 1920 have been compiled and published by the Dominion Bureau of Statistics. (See pp. 964-965.)

The history of commercial failures in Canada is traced by years from 1900 in Table 1. Both Bradstreet's and Dun's records are included for comparative purposes. The two sets of records are shown in the table to have the same general tendency so far as numbers of failures are concerned. Dun's record, however, ordinarily shows a rather larger number of failures, and considerably larger assets and liabilities than Bradstreet's.

 Commercial Failures in Canada, with their Assets and Liabilities, According to Bradstreet's and Dun's Records, calendar years 1903-32.

Year.	Ì	Bradstreet's			Dun's.	
ı çar.	Failures.	Assets.	Liabilities.	Failures.	Assets.	Liabilities.
1900. 1901. 1902. 1903. 1904. 1905.	No. 1,337 1,379 1,095 958 1,175 1,430	\$ 4,246,693 5,264,551 3,602,542 3,870,605 4,137,418 6,584,191	\$ 10,785,601 11,783,837 8,546,365 8,372,011 10,019,311 13,879,700	No. 1,355 1,341 1,101 978 1,246 1,347	\$ 8,202,898 7,686,823 7,772,418 4,872,422 8,555,875 6,822,005	\$ 11,613,208 10,811,671 10,934,777 7,552,724 11,394,117 9,851,659
1906. 1907. 1908. 1909.	1,239 1,365 1,715 1,588 1,469	4,305,076 5,276,698 7,770,207 6,195,515 7,075,347	9,450,093 11,735,272 17,582,304 12,811,184 15,712,586	1,184 1,278 1,640 1,442 1,262	6,499,052 9,443,227 12,008,113 10,318,511 11,013,396	9,085,773 13,221,250 14,931,790 12,982,800 14,514,650
1911 1912 1913 1914 1915	1,401 1,312 1,827 2,886 2,621	6.420,331 5,611,675 8,140,990 13,507,536 14,227,192	13,086,946 12,355,282 16,650,450 30,693,658 32,134,312	1,332 1,357 1,719 2,892 2,652	9,964,404 8,783,409 12,658,979 30,888,363 39,213,658	13,491,196 12,316,396 16,979,406 34,906,694 49,676,621
1916. 1917. 1918. 1919.	1,772 1,109 814 625 966	6,349,078 6,207,512 5,354,727 5,089,534 10,478,465	15,952,684 13,616,822 12,413,536 10,095,232 20,808,053	1.677 1.088 873 751 1,034	19,610,703 12,994,179 11,246,341 10,731,541 17,501,332	24,985,908 18,108,347 14,502,477 16,224,259 24,719,111
1921 1922 1923 1924 1925	2,350 3,185 2,915 2,287 2,094	21,489,236 23,933,136 21,619,354 16,553,935 14,511,917	48,553,757 55,047,342 51,416,766 42,278,195 35,505,951	2,379 3,630 3,197 2,445 2,337	55, 114, 487 62, 424, 514 45, 480, 216 47, 590, 367 32, 518, 709	68,947,140 76,314,674 61,853,697 63,325,975 45,399,425
1926. 1927. 1928. 1929.	2,085 1,993 1,863 2,091 2,398	11,316,925 10,617,083 14,182,652 11,527,584 20,497,972	27,414,401 25,846,247 36,451,242 31,990,900 45,007,299	2,172 2,154 2,100 2,286 2,705	25,325,884 24,312,741 36,179,540 29,528,527 39,231,654	36,574,913 34,177,441 52,895,907 44,299,881 56,289,560
1931 1932		20,893,645 19,153,000	46,058,639 49,917,000	2,516 2,900	37,014,665 37,157,822	51,914,404 55,975,510

52230-61

Failures by Branches of Business.—In every year the great majority of the commercial failures of the country are found among the trading establishments which are so much more numerous than the manufacturing. Thus, according to Dun's records, out of a total of 2,938 commercial failures in Canada and Newfoundland in 1932, 2,038 were among the trading establishments, including 416 in groceries and meats, 378 in clothing and furnishings and 219 general stores.

Out of the 703 manufacturers who failed, 126 were in clothing and millinery, 79 in the lumber or carpentering business and 78 among millers and bakers. The larger scale on which manufacturers operate is evident from the fact that the defaulted liabilities of the 703 manufacturers were nearly as great as those of the 2,038 traders. The figures of commercial failures include both Canada and Newfoundland and are analyzed in detail for the years 1930 to 1932 in Table 2, while the totals by broad groups are given for 1915 and subsequent years in Table 3.

 Commercial Failures in Canada and Newfoundland, by Branches of Business, calendar years 1939-32 [From Dun's Review].

		<u></u>	1			
70 1 470 1		1930.	1931.			1932.
Branch of Business.	No.	Liabilities.	No.	Liabilities.	No.	Liabilities.
Tr		\$		\$		\$
Manufacturers— Iron and foundries Machinery and tools	8 27 3	514,731 1,754,991 99,187	10 37 6	488,958 1,117,185 33,471	23 29 7	4,630,646 860,876 110,261
Woollens, carpets, etc. Cotton, hosiery, etc. Lumber, carpenters. Clothing, millinery	2 111 124	59,200 5,711,336 2,172,946	1 63 98	20,000 2,450,145 1,752,828	1 79 120	6,465 4,690,943 2,518,102
Hats, gloves and furs Chemicals and drugs. Painte and oils	32 13	416,048 141,475	22 8 -	328,818 91,288	26 11 4	368, 154 119,881 28,905
Printing and engraving. Milling and bakers. Leather, shoes, etc.	16 85 38	177,045 4,334,370 906,881	22 52 21	429,068 401,879 607,976	37 78 30	799,830 1,003,183 640,657
Liquors and tobacco. Glass, earthenware. All other	11 11 188	724,814 173,974 4,062,920	14 11 198	292,803 337,571 5,148,929	17 28 213	330,937 1,379,465 5,219,744
Totals, Manufacturers	619	21,249,918	563	13,500,914	703	22,708,019
Traders—	250	3,871,344	248	2,626,695	219	2.648,257
General stores. Groceries and meats. Hotels, restaurants	371 167	2,269,492 1,595,464	368 150	2,815,434 1,75t,592	416 169	2,767,092 2,283,593
Liquors and tobacco	21 293 169	68,743 3,217,499 2,329,543	23 299 153	189,056 3,260,057 2,855,910	35 378 131	191,573 4,069,778 1,292,343
Dry goods and carpets Shoes, rubbers and trunks Furniture, crockery	68 37	779,540 437,295	73 41	920, 134 405, 086	88 38	1,334,378 843,933
Hardware, stoves and tools,	47 46 1	452,706 385,863 500	58 29 3	552,555 179,167 22,952	72 61 2	1,235.578 478,157 7,928
Jewellery and clocksBooks and papers	46 11	347,752 113,457	33 15	548,114 97,917	52 26 35	433, 158 414, 219 974, 826
Hats, Jurs and gloves	334 —	5,316,428	20 253	550,409 4,821,268	316	4,691,365
Totais, Traders	1,888	21,840,820	1,766	21,598,346	2,038	23,668,178
Other Commercial	234	14,100,746	234	17,890,294	197	10,256,427
Grand Totals	2,741	57,191,493	2,563	52,987,554	2,938	58, 630, 654

Commercial Failures in Canada and Newfoundland, by Provinces and Classes, calendar year 1932, with Totals for 1915-31 [From Dun's Review].

Province.	1	otals, Com	nercial.	Manufacturing.		
L10AIIIOÉ.	No.	Assets.	Liabilities.	No.	Liabilities.	
		\$	\$		\$	
Prince Edward Island	13	47,987	61.248	1	2,000	
Nova Scotia	86	349,572	1,650,381	10	157, 135	
New Brunswick	69	505,909	731,862 18,730,404	8 331	70,154 7,999,164	
Quebec	1,258 899	11,716,305	27,240,357	254	12,865,66	
Ontario		18,869,715	2,747,255	264	471.96	
Manitoba	174 71	2,155,328 625,047	897.622	20	59.62	
Alberta	177	1,227,799	1.557.100	29	313,11	
British Columbia	153	1.660.160	2,359,286	35	721,110	
		1.000,100	2,000,200		721,111	
Canada	2,500	37,157,822	55,975,510	699	22,659,930	
Newfoundland	38	145,801	655, 144	4	48,113	
Totals, 1\$22	2.938	37,303,623	56,680,654	708	22,708,049	
" 1931	2,563	37,613,810	52,987,554	563	13,500,91	
<u>"</u> 1930	2,741	39,474,582	57,191,493	619	21,249,91	
" 1929	2,310	29,572,569	44,440,639	624	19,967,40	
1920,	2.120	36,407,391	53,420,199	506	17,032,98	
1844	2,182	24,420,941	34,461,595	502	15,347,40	
174V->	2,196	25,668,509	37,082,882	527 563	16,465,75	
1929,,	2.371	32,651,854	45,767,825	625	24,046,51 36,542,65	
" 1924	2,474 3,247	47,937,427 46,833,195	64,530,975 65,810,382	792	31.791.33	
" 1923 " 1922	3.695	63.097.789	78.068.959	857	39.080.79	
" 1921	2,451	57.158.397	73,299,111	559	33.976.79	
" 1920	1.078	18,569,516	26,494,301	255	15.871.21	
" 1919	755	10,741,441	16.256.259	213	10.234.47	
" 1918	873	11,251,341	14.502.477	232	8,248,80	
" 1917	1.097	13.051.900	18,241,465	261	7,455,09	
" 1916	1.685	19,670,542	25.069.534	363	8,796,64	
1910					13.877.41	

		' '	ĺ ,	Other	<u>"</u>	<u> </u>
Province.	Tı	Trading.		mercial.	B:	anking.
	No.	Liabilities.	No.	Liabilities.	No.	Liabilities.
		\$		\$		*
Prince Edward Island	10	45,243	2	14,000	-	
Nova Scotia	69	991,115	7	502, 131	-	-
New Brunswick	57 854	611,628	78	50,080 1,158,592	-	
Quebec	583	9,572,647 7,721,196	62	6,653,498	_	1 -
Ontario	138	1.610.993	10	664,293	_	-
Saskatchewan	64	831,302	102	6,700	1	ľ
Alberta	125	735,754	23	508, 232	- 1	
British Columbia.	105	945,269	13	692,901		
Canada	2,005	23,065,147	196	10,250,427		
Newfoundland	33	601,031	1	6,000		
Totals, 1932	2,438	23.566,178	197	10,256,427	_	
" 1931	1,766	21,596,346	234	17,890,294	-	
4 1930	1,888	21,840.829	234	14, 100, 746	-	
" 1929	1,546	17,435,263	140	7,037,962	-	
" 1928	1,469	24.540.931	145	11,846,285		
1841	1,544	16,566,799	136	2,547,395	-	
1920	1,548 1,693	17.320.905 19.514.049	121 115	3,296,223 2,207,262	_	
" 1925 " 1924	1,720	21.324.089	129	6,664,228	ī	100.000
" 1923	2.319	31.339.763	136	2.679.287		18,500,000
" 1922	2,717	33,004,203	121	5.983,965	4	222,480
" 192t	1.739	29,886,569	153	9,435,752	l î	45,233
" 1920	771	7,704,505	52	2,918,580		
" 1919	494	4,475,628	48	1,546,154	-	
" 1918	590	5,142,397	51	1,111,278	-	
4 1917	777	8,417,239	59	2,369,132	-	
4 1916	1,237	12,290,368	85	3,982,520		
1915	1,888	21,696,890	118	5,558,017	1	150,000
!			l .	·		

Bradstreet's Record of Commercial Failures.—The number of commercial failures in Canada, together with the assets and liabilities, is shown by provinces for 1931 and 1932 in Table 4, according to Bradstreet's records.

4.—Commercial Failures in Canada, by Provinces, calendar years 1931 and 1932.

[From Bradstreet's].

Province.	Numb Faile		Ase	ets.	Liabilities,		
	1931.	1932.	1931.	1932.	1931.	1932,	
Prince Edward Island. Nova Scotia. New Brunswick Quebec Ontario. Manitoba. Saekatchewan Alberta. British Columbia.	No. 4 53 66 1,122 807 192 197 92 188	No. 5 78 72 1,352 879 170 132 89 193	\$ 10,079 910,187 286,130 6,935,971 6,733,594 1,414,898 1,622,070 945,211 2,035,505	\$ 36,000 743,000 458,000 7,318,000 6,747,000 827,000 855,000 698,000 1,471,000	\$ 24, 635 580, 286 590, 617 18, 512, 522 13, 874, 891 4, 262, 181 2, 876, 247 1, 250, 567 4, 086, 693	\$7,000 1,392,000 872,000 23,393,000 14,908,000 2,716,000 1,135,000 3,855,000	
Canada	2,721	2,968	20,893,645	19, 153, 000	46,058,639	49,517,000	

Assignments under the Bankruptcy and Winding Up Acts.—Under the Bankruptcy and Winding Up Acts (R.S.C., 1927, cc. 11 and 213) certain documents relating to assignments have, since 1920, been forwarded to the Dominion Statistician for statisticial analysis. Table 5 gives the resulting figures of failures, by provinces, in 1922 and subsequent years, while Table 6 classifies them by branches of business. Table 7 gives the assets and liabilities of the assignors. A detailed analysis of the 1932 failures, by provinces and branches of business, is made in Table 8.

5.—Commercial Failures in Canada, by Provinces, calendar years 1922-32.

Year.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Total.
				ا <u> </u>						
1922	15	121	131	1,589	1,058	284	272	299	156	3,925
1923	16	155	67	1,181	970	258	280	323	158	3,408
1924	3	69	67	907	835	100	131	150	57	2,819
1925	4	71	67	758	721	85	77	139	74	1,996
1926	4	63	74	654	655	84	68	113	58	1.773
1927	4	66	74	658	681	97	54	135	72	1,841
1928	4	90	56	767	758	103	63	126	70	2,037
1929	1	71	61	927	762	91	84	101	69	2,167
1930	3	18	45	1,011	776	113	146	152	95	2,402
1931	7	51	74	795	793	109	152	131	104	2,216
1932	9	62	. 80	968	889	86	91	131	104	2,420

6.—Commercial Fallures in Canada, by Branches of Business, calendar years 1924-32.

Үеаг.	Trade.	Manu- fac- tures.	Agri- culture.	Log- ging and Fishing.	Mining.	Con- struc- tion.	Transportation and Public Utilities.	Fi- nance.	Service.	Not Class- ified.	Total.
1924 1925 1926 1927 1928 1929 1930 1931	1,317 1,026 805 818 884 1,100 1,204 1,102 1,171	329 403 390 430 505 443 488 464 468	204 158 185 116 108 125 115 125 190	14 14 27 30 31 4 12 5	22 15 20 26 23 11 9	44 50 52 63 70 61 55 61 83	36 21 34 36 45 21 48 42 43	8 5 5 5 29 21 7	129 220 225 243 263 239 263 255 290	216 84 84 79 103 158 159 134	2,319 1,996 1,773 1,841 2,037 2,167 2,402 2,216 2,420

Estimated Assets and Liabilities of Commercial Failures in Canada, calendar years 1922-1932.

Year,	Estimated Grand Total Assets.	Estimated Grand Total Liabilities.
1922 1923 1924 1925 1925 1927 1927 1928 1929 1930	62, 127, 489 43, 194, 035 26, 968, 371 24, 676, 661 23, 197, 894 26, 583, 462 32, 064, 027 44, 048, 171	\$ 63,692,219 61,617,527 48,105,397 32,153,697 32,291,125 30,634,469 32,455,437 38,747,638 48,164,665 52,552,900 51,629,303

8.—Commercial Fallures in Canada, by Provinces and Branches of Business, calendar year 1932, with Totals for 1931.

Branch of Business.	P.E.I. and N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Total for 1932.	Total for 1931.
Trade—										
General Stores	7	9	56	42	14	18	16	4	165	159
Grocery	5	3	42	31	5	2	6	3	97	100
Confectionery	3	1	28	27	3	2	4	1	67	73
Drink and Tobacco	I -		1 15	7	-	l -	I -	I -	22	16
Fish and Mest	1 5	1	32	26	2	2	3	3	73	63
Boots and Shoes	Ιĭ	ŝ	26	26	1 -] 3	1 -	Š	62	55
Dry Goods	Ιŝ	4	34	29	4	Ιš	8		82	77
Clothing		7	43	44	10	12	ق ا	ĺŝ	130	122
Furniture	1 1	l i	9	13	1	٠	Ιĭ	1 5 3	37	37
Books and Stationery	_		14	14	l 1	2	1 1	3	33	15
house and charlonery,	2	6				۔ ا	6	1		51
Automobile		ים ו	13	20	3	2	יי ו	J *	55	36
Hardware	1	_	14	21	1 :	2	-	1 7	40	
Electric Apparatus	-	-	18	18	1	3	-	1	41	30
Jewellery	3	2	17	13		-	1	2	39	36
Coal and Wood	-	2	13	13	3		2	1	34	37
Drugs and Chemicals	-	-	15	16	- 1	[1	3	1	87	32
Miscellaneous	8	9	53	60	7	8	6	13	158	163
Totals	44	48	442	420	53	- 58	60	47	t, 172	1,102
Manufacture					<u> </u>					
Vegetable Foods	3	1	30	26	2	3	7	5	77	79
Drink and Tobacco			30	20		-		ĭ	l "il	ğ
Animal Foods	[_	i -	10	10	1		_	2	23	1 30
Animal Foods	l <u> </u>					2	2	Ť	50	40
Fur and Leather		1	21	21	2		2	1		9
Pulp and Paper	-	-	.1		-	-	_	-	,1	85
Textiles		-	17 -	12	-	ļ	-	_	30	72
Clothing	2	1	37	33	1	1	2	2	79	7.2
Lumber and Manufactures	I -	1	18	17	1		1	7	45	స్తా
Iron and Steel	1	-	7	4	I -	-	-	-	12 .	12
Non-ferrous Metals	l –	-	14	10	-	-	1	_	25	22
Non-metallic Minerals	j -	-	9	9	l - I	-		2	20	12
Drugs and Chemicals		_	2	1	-	-	-	_	3	ī
Miscellaneous	3 '	3	39	43	2	5	4	3	102	110
Totals	-	7	205	186	9	12	17	23	468	464
Service—	[-	<u> </u>			[— <u> </u>					- 101
Garages	4	1	28	22	1	1	6	3	86	
Other Custom and Repairs		i	33	30	l i	2	ĭ		68	52
	3	7	32	33	4	6	12	9	106	42
Personal Service	1	'	32 7	33 5	4		12	a		73
Professional Service	1	-			ī	-			13	12
Recreational Service		1	4	7		-	1	1	15	22
Business Service		3	10_	5	2			. 1	22	54
Totals	- 8	13	114	102	- 9	9	21	14	290	255
Other—										
Agriculture	3	5	81	68	5	4	2L	2	189	125
Mining	` _ `		3	l ĭ] _ [2	6	7
Logging, Fishing, Trapping	l - i	_	5	l i	J _			2	8	5
Construction	1 -	1	39	35	3.	1	4	3	86	61
Transportation and Public Utili-	1	* 1	""	"	"	_ *	-		~)	01
ties	2	_	15	17	3	2	2		ا م	
Finance		1	15	17	1	2 -	2	2 2	43 8	42 21
Totals		$\frac{1}{7}$	145	124	- <u>1</u>	$\frac{1}{7}$	-27			
	- 5		62	-			-	13	340	261
Not Classified				37	3	5_	- 6	7	150	134
Grand Totals	71	80	968	889	86	91	131	104	2,420	2,216

CHAPTER XXV.—EDUCATION.

Section 1.—Schools, Colleges and Universities.

Throughout the Dominion of Canada public education, except for instruction of the native Indian population, is a matter of provincial concern. Before Confederation, the maritime colonies were separated from Ontario by French-speaking Quebec, and in each colony an educational system specially adapted to the local conditions had come into existence. When Confederation was under consideration, the protection of existing vested rights was the predominant consideration. As a result, Section 93 of the British North America Act, which embodies the Canadian constitution in so far as that constitution is a written one, provides that in and for each province the Legislature may exclusively make laws in respect of education, except that "nothing in any such law shall prejudicially affect any right or privilege with respect to denominational schools which any class of persons have by law in the province at the union"

Inasmuch as the administration of public education is one of the chief functions of Provincial Governments, in each of the provinces except Quebec there is a Department of Education administered either by a member of the Provincial Executive Council or Cabinet or by the Executive Council or Cabinet as a whole. In practice, however, the routine administration is in the hands of the permanent officials of the Department of Education, who are members of the permanent civil service. In Quebec the Superintendent of Education, appointed by the Government, is ex officio President of the Council of Public Instruction. The link between the Department of Public Instruction and the Government is the Provincial Secretary; there are also two deputy heads, called the French and English Secretaries of the Department.

Since the Departments of Education are permanent authorities, controlled as to details of administration by permanent officials, educational policy is relatively permanent; further, the control of the Governments over education throughout the provinces is relatively stronger than in the United States. A capable Deputy Minister or Superintendent of Education impresses his personality and his views upon the whole system of his province, especially as in practice he controls the payment of government grants, which constitute, on the average, about 14 p.c. of the total expenditure applied to educational purposes.

The Department of Education in each province naturally has its headquarters at the capital of the province. Its local representatives are the school inspectors, who are appointed and paid by the Provincial Governments, except for the "public" and "separate" schools in Ontario, where they are appointed by the county or city municipality from a list approved by the province (in all but unorganized districts), and where the cities receive a grant from the province for inspection purposes in place of having inspectors' salaries paid direct.

Revised by M. C. MacLean, M.A., F.S.S., Chief, Education Statistics Branch, Dominion Bureau of Statistics. This Branch is concerned with compiling and publishing comparable data relating to educational institutions throughout Canada, and to this end co-operates with the Provincial Departments of Education. A list of the publications of this Branch will be found in Chapter XXIX, Section I, under "Education"

Education in Quebec.—In Quebec there are two distinct systems of education—the Protestant and the Roman Catholic systems—in each of which the teaching of religion takes a prominent position. In the former, which is under the control of the Protestant Committee of the Council of Public Instruction, with an English Secretary, the curriculum and the general system of education is similar to those in the other provinces, except that the highest grade is Grade XI, from which students are matriculated to McGill University and Bishop's University, the two Protestant English-speaking universities of the province.

In the Roman Catholic schools, which are mainly French-speaking, as the Protestant schools are English-speaking, the administration is in the hands of the Catholic Committee of the Council of Public Instruction, with a French Secretary. General elementary and continuation or "complementary" training is given by means of a curriculum, extending over one preparatory "year", six "years" of an elementary course, and two "years" of a complementary course. Some of these "years" require more than a year to complete, the completion of the "sixth year" corresponding in a general way to the end of the elementary grades, or high school entrance, in other provinces. Beginning in the school year 1929-30, a new superior course of three "years" beyond the complementary course was provided for. These are called the ninth, tenth, and eleventh "years" They enrolled over 4,400 students in the second year of their introduction.

Summary Statistics of Education.—The recorded enrolment at Canadian educational institutions in 1931 was 2,542,747, and the total cost of the support of schools, colleges and universities was \$178,701,507. This represented an increase over the previous year of 2·1 p.c. in attendance, and 8·1 p.c. in costs—the latter percentage increase being higher on account of a great part of the enrolment increase being in the more advanced and more costly institutions. A concise numerical summary of pupils, teachers, institutions, and costs for the year may be given as follows:—

Type of Institution.	Institu- tions.	Pupils.	Teachers.	Expendi- ture.
	No.	No.	No.	\$
(1) Provincially-controlled Schools— Ordinary day	30,500	2,137,810	65,248	ì
Technical day	136 380	56,320 121,437	2,017 3,178	144.748.823
Technical evening Normal schools.	46	7.956	490	144,740,020
Blind and deaf 2) Privately-controlled Schools—	11	1,785	300 י	}
Ordinary day	816	95,083	5.657	1 7 707 000
Business training	179	22,827	607	7,187,000
(3) Dominion Indian Schools	352	16,435	590 t	2,754,39
Preparatory	54 2	19,845	1,423	ì
University grade	153	41,168	4.788	24,011,289
Others	102	22,101	7.100)
Totals	32,637	2,542,747	84,208	178,701,50

Estimated. Including only affiliated schools that are not enumerated in "university grade".

Table 1 gives a more detailed summary of all institutions by provinces; two statistical subsections follow, dealing with the provincially-controlled schools and institutions of higher education respectively.

1.—Summary of Educational Institutions in Canada,

A. ENROL

		1	
0.	P.E.I.	N.S.	N.B.
1 Ordinary day schools!			
(a) Publicly-controlled(b) Privately-controlled	17,506 526	115,511 2,746	87,16 3,93
2 Technical and vocational schools—	324	4,140	0,30
(a) Publicly-controlled day courses ⁵	1,140	3,635	1,48
(b) Publicly-controlled evening and correspondence		4,810	2,00
(c) Business colleges, day courses	140	594	49
(d) Business colleges, evening courses	81 With 4(a)	202 682	14 31
Universities and colleges—	11(11 4(8)	102	31
(a) Preparatory courses	374	863	61
(b) University standard (c) Other courses at university	801	2,270	1,20
(c) Other courses at university	21	1,157	
Schools for blind and deafs	10	173	
Indian schools	34	409	32
Grand Totals	19,916	133,052	97.80
Population of 1931	88,038	512,846	408, 2
Secondary grades or higher, [2 (b) unclassified]	3,796	24,159	10,4
8 Elementary grades	15,885	104,083	82,53

B. EXPEND

10 11	Publicly-controlled schools, i.e., 1 (a), 2 (a), (b), 3 and 5 above: (a) By Provincial Governments. (b) By Ratepayers, etc. Privately-controlled schools, i.e., 1 (b), 2 (c) above, (estimated) Universities and colleges. Indian schools.	321,508 189,444 18,000 70,089	1,012,681 3,181,614 128,000 1,122,390 63,190	511,850 2,695,627 164,000 519,282 20,694
	Totals	690,236	5,507,875	3,911,453

C. FURTHER INFORMATION ON ORDINARY DAY SCHO

	· · · · · · · · · · · · · · · · · · ·		 -	
	Enrolment—			
13	Воуз	8,820	57,304	43,456
14	Girls	8,686	58,207	43,704
15	In elementary grades	17,285	101,659	-
16	In secondary grades	2,184	13,852	_
17	In urban schools	6,737	54,078	47,253
18	In rural schools	10,769	61,433	39,907
	Attendance—			
19	Average daily attendance	12,721	87,418	69,451
20	Average (median) days per pupil	164	159	173
21	Average number of days schools open	195	195	192
22	Percentage of enrolment in average attendance	72-6	75-6	79.6
23	Teachers, totals	628	3,484	2,708
24	Male	148	331	272
25	Female	480	3,153	2,436
	Accommodation-	i		
26	Number of school districts	472	1,759	1,483
27	Number of school houses	472	-	
28	Number of class-rooms	626	3,231	2,478
29	Number of pupils per class-room	28	36	35
30	Number of rural schools	415	1,439	1,313

¹Figures for 1 (a) and 1 (b) in Quebec are for 1929-30; for I (a) in Ont., except secondary schools, a 3 for calendar year 1930; all others are for 1930-31.

*Includes 242 in Yukon in I (a), 379 in Yukon and N.W.T. in 6, and 13,953 in population.

*There are some duplicates, impossible to separate, between 1 (a) and 2 (a), in the four western prov-

Includes 7,316 in non-technical night schools in Ont., and 31,494 in non-subsidized evening domestic science courses in Quebec.

by Provinces, 1931, or Latest Year Reported.

MENT.

							_
Que.	Ont.	Мал.	Sask.	Sask. Alta.		Total.2	
526,804 1 61,110 1	727,3421 11,196	153,553 5,294	230,492 2,349	165,786 2,944	113,914 4,987	2,137,810 95,083	
7,153 45,148 1,834	29,470 54,756 7,093	3,555 8,532 1,927	1,379 1,908 818	2,649 1,811 960	5,856 7,468 1,482	56,320 121,437 15,343	
1,021 2,059 13,424	3,099 1,666 2,440	1,248 570 706	1,252 1,000	669 961 422	585 456	7,484 7,956 19,845	
10,976 6,536 776 1,539	16,419 11,656 439 4,296	3,311 866 111 2,346	2,687 707 62 2,072	1,688 136 56 1,582	2,443 1,018 85 3,438	41,168 22,101 1,785 16,415	Ì
677,880 2,874,255	869,872 3,431,693	177,019 700,139	245,194 921,785	179,664 731,605	141,733 694,263	2,542,747 10,376,786	
76,610 54 5,195	182,029 662,337	30,985 142,434	38,015 204,387	31,751 146,102	31.497 102,725	$\substack{429,256\\2,005,652}$	

ITURES.

	5,906,164 19,516,807 3,508,000 7,667,031 79,866	5,598,878 56,876,213 1,604,000 9,142,104 479,359	1,310,587 9,152,892 551,000 1,934,577 486,105	2,763,904 14,141,651 272,000 1,238,121 582,084	1,593,995 10,961,070 343,000 1,304,645 520,284	3,287,277 6,226,661 599,000 1,013,050 446,673	22,306,844 122,441,979 7,187,000 24,011,289 2,754,395	10 11 11 12
_	36,677,868	73,210,554	13,435,161	18,997,769	14,722,994	11,563,661	178,701,507	i

OLS UNDER PUBLIC CONTROL [ITEM I (A) ABOVE].

289,650 297,764 - - -	384,781 372,031 653,292 103,520 545,640 211,172	77, 255 76, 298 135, 209 18, 344 111, 622 41, 931	115, 800 114, 692 200, 960 28, 598 99, 671 130, 821	84, 079 84, 651 144, 464 24, 266 88, 614 80, 116	57, 676 56, 238 95, 749 18, 165 69, 616 44, 298	1,118,821 1,112,271 -	13 14 15 16 17 18
474,167 	568, 313 - 75 · 1 20, 732 4, 283 16, 449	120,703 174 197 78-6 4,427 881 3,546	176,716 178 200 76-6 8,415 2,394 6,021	136,733 180 193 81.0 5,844 1,520 4,324	99,375 	1,745,537 - 78.7 71,246 14,743 56,503	19 20 21 22 23 24 25
6,845 8,026 19,000,	7.654 18,500 ⁷ 40 6,126	2,232 2,034 4,304 36	4,939 6,856 34	3,647 - 5,624 30 3,072	811 1,170 3,662 31 999	64,276 -	26 27 26 29 30

⁶Includes also 598 in the Departmental summer schools for teachers in N.S., 4.626 in Ont., and 162 in B.C., not held at universities or colleges.

⁶Includes also 1 (b) in Quebec and Alberta, and 2 (a) in Ontario and British Columbia.

⁷Estimated on same basis as in previous reports.

⁶These students are entered according to provinces of residence. There are schools in five provinces.

Subsection 1.—The Provincially-Controlled Schools.

It is considered that the best general test of the efficiency of public general education in Canada is furnished by the statistics of Table 2, showing the 1931 age-grade distribution of 1,416,667 pupils in the provincially-controlled schools of seven provinces. Many other tables of this form, analysing age-grade distribution by provinces, by sex, and by rural and urban areas and graded or ungraded schools, may be consulted in the Dominion Bureau of Statistics' "Annual Survey of Education in Canada, 1931", pp. 22-43.

 Provincially-Controlled Schools in Canada; Distribution of 1,416,667 Pupils in Seven Provinces, by Age and Grade, 1931.

Elementary Grades.

					,11196(1)	entary	Orac	163.			
Age.	K, an K.P.	d I	.	II.	III.	IV.		v.	VI.	VII.	VIII.
4	6,3 16,7		204 7,548 62,643 4,23		2 216			-		-	
7	1	48 46 49 18 30 7 61 2	,253 ,495 ,431 ,178 ,900 ,542 ,797	30,509 58,558 39,961 18,566 7,487 3,271 1,535	4,294 25,430 42,007 28,590 13,944 6,339 3,139	7, 6, 36, 6, 49, 19 31, 79 17, 16 8, 79	05 92 93 02	16 532 7,794 35,037 43,431 31,536 18,200	29 738 7,633 27,632 38,322 28,700	6,55 6,55 24,11	2 143 7 1,302 2 8,422
Totals, 7-13	1,6	01 165	,596 1	59,885	123,743	151,6	00 1	36,546	103,054	64,68	35,679
14 15 16 17		1	425 196 77 35	753 328 115 29	1,544 600 177 63			9,912 4,065 1,069 234	17,323 7,968 2,365 407	13,23 4,43	3 25,232 7 10,852
Totals, 14-17		19	733	1,225	2,384	6,3	85	15,280	28,063	44,47	73,672
18. 19		-	18 25	19 13	23 36		30 40	61 39	82 61		
Grand Totals 32,14		19 236	,767	165,423	126,404	158,0	64 1	51,926	131,260	109,37	2 110,096
		Secondary Grades. Totals.								.]	
Age.	IX,	x.	XI.	X	I. Speci		las- ied	Elem ary		econd-	Grand Total.
4		<u> </u>		- -		-	~ 296	13 83	204 ,898 ,830	-	204 13,898 84,126
7 8 9	I 30	- -				-	229 243 275 234	140 146	,209 ,456 ,056 ,281	- 1 30	130,438 140,699 146,332 147,545
11	422 3,609 12,262	29 436 3,227	39	8)1	· 1 .	2 86 176	217 188 140	135 130	,107 ,669 ,110	453 4,139 16,857	135,777 134,996 136,607
Totals, 7-13	16,324	3,692	39	99	1 (564 1	, 526	949	, 888	20,980	972,394
14	21,090 20,517 11,248 3,981	16,274 13,886	2,99 8,78 13,68 10,74	30 (34 2,4	164 1	051 379 314 544	74 33 5	58 19	,919 ,201 ,561 ,566	35,444 47,517 42,041 26,837	130,428 100,751 61,607 31,403
Totals, 14-17	56,831	47,619	36,08	32 7,5	3,3	788	112	172	, 238	151,839	324,189
18 19	1,084 535	2,360 1,042	5,33 2,79	33 3, 8 98 2, 8		106	1 3		959 444	12.685 7.764	13,645 8,211
Grand Totals	74,774	54,713	44,6	13,8	5,5	46 1	, 938	1,221	,461 1	193,268	1,416,667

¹ Kindergarten and Kindergarten-primary.

General elementary and secondary education throughout the Dominion, in so far as it is provincially-controlled, is carried on, except in Quebec, in free schools supported by general taxation. These schools may be divided into 12 grades, 8 of which are normally considered to be elementary and 4 secondary. The twelfth grade is in most provinces a postgraduate year, corresponding to the first year of a university course. The average pupil takes one school year to complete each grade, so that entering school at 6 years of age, he would matriculate to the university at 17 or 18.

An historical summary of the enrolment and average attendance in provincially-controlled schools from 1901 to 1931 is given by provinces in Table 3. The totals of pupils enrolled in all provinces in the year 1901 is an approximation, based upon provincial statistics for the nearest available years. The enrolment and average attendance, in cities of 10,000 population and over, are given in Table 4.

3.—Historical Summary of Enrolment and Average Attendance in Schools in Canada, by Provinces, 1961-31.

TOTAL NUMBER ENROLLED, 1901-31.

Norn.—Figures of enrolment and average attendance in various years prior to 1991 are given on pp. 839 and 840 of the 1932 Year Book.

	ı								1	
Year.	P.E.I.	N.S.	N.B.	Que.1	Ont.	Man.	Sask.	Alta.	B.C.	Canada.
1901 1902 1903 1904 1905 1907 1908 1909 1910 1911	20, 779 20, 803 19, 956 19, 031 19, 272 18, 986 19, 034 18, 012 18, 073 17, 932 17, 397 17, 397	98,410 99,059 98,768 96,886 100,252 100,007 100,105 101,680 102,035 102,930 103,984	66, 689 67, 425 65, 951 65, 278 66, 897 68, 635 66, 422 66, 383 67, 735 68, 154 68, 951	314, 881 321, 288 326, 183 329, 666 335, 768 341, 808 347, 614 352, 944 367, 012 374, 547 389, 123 400, 036	487,880 484,351 487,635 492,544, 493,791 501,641 507,219 510,700 518,605	51, 888 54, 056 57, 409 58, 574 68, 287 64, 123 67, 144 71, 031 73, 044 76, 247 80, 848		34,338 39,653 46,048 55,307	23,615 23,901 24,499 25,787 27,354 28,522 30,039 33,223 36,227 39,670 49,451 50,170	1,083,000 1,077,394 1,113,837 1,120,606 1,149,909 1,173,009 1,196,013 1,230,169 1,272,204 1,310,117 1,356,879
1913 1914 1915 1916 1917 1918 1920 1921 1922 1923	17,555 19,069 18,402 18,362	105, 269 106, 351 107, 768 109, 189 109, 032 108, 097 106, 982 108, 096 109, 483 114, 229 114, 458	69,663 70,622 72,013	411, 784 435, 895 448, 087 464, 447, 463, 390, 467, 508, 486, 201 495, 887, 512, 851 530, 705 537, 406	542, 822 561, 927 569, 030 560, 340 561, 865 564, 855 584, 724 604, 923 634, 893 667, 922	83,679 93,954 100,963 103,796 106,588 109,925; 114,662 123,452 129,015 136,876 142,369	101, 463 113, 985 122, 862 129, 439 142, 617 151, 326 164, 219 174, 925 184, 871, 183, 935 194, 313	79,909 89,910 97,286 99,201 107,727 111,109 121,567 135,750 124,3283 142,902 148,045	57, 384 61, 957 64, 264 64, 570 65, 118 67, 516 72, 006 79, 243 85, 950 91, 919 94, 888	1,469,732 1,552,976 1,601,035 1,622,351 1,646,508 1,669,776 1,788,977 1,812,648 1,869,643 1,951,556
1924 1925 1926 1927 1928 1929 1930	17, 281 17, 427 17, 324 17, 210 17, 214 17, 180 17, 277 17, 506	111,594 112,352 112,391 112,556 112,898 113,309 113,860 115,511	79,265 80,145 80,769	541,485 548,519 552,832 557,732 565,845 577,373 583,684	67f, 311 677, 458 686, 285 700, 476 708, 081 712, 919 727, 342	144, 491 145, 834 148, 279 148, 763 150, 883 150, 517 157, 846 153, 558	204, 154 206, 595 213, 404 218, 560 223, 049 227, 263 228, 434 230, 492	147,373 147,7964 150,5264 154,3804 159,0864 164,8504 168,0764 168,7304	96,204 97,954 101,688 105,008 108,179 109,558 111,017 113,914	2,013,158 2,034,080 2,063,498 2,095,375 2,127,405 2,186,549 2,187,171

¹ Primary schools only. ² Not including vocational schools. ³ Half year only. ⁴ Including private schools.

3.—Historical Summary of Enrolment and Average Attendance in Schools in Canada, by Provinces, 1991-31—concluded.

AVERAGE	DAILY	ATTENDANCE,	1901-31.
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Year.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada.
901 902	12,330 12,884	53,643 55,438	37,473 38,657	232,255 236,924	275,234 275,910	27.550 28.306			15,335 15,808	669,000
903	12,112	55, 213	38,032	243 123	275,385	36,479	16	.321 L	16,627	704,000
904	11,722	54,000	37,567	246,319	273,815	31,326		918	17,071	705,000
1905	11,627	56,342	39,402	255,420	281,674	33,794	13,493	13,375	18,871	724, 17
906	11,903	59,165	38,482	263,111	285,330	34,947	15,770	14,782	19,809	743,490
907	11,543	57,173	38,790	266,510		37,279	19,841		20,459	754,06
1908 1909	11,647 11,543	58,843 61,787	40,202 42,501	271,019 285,729	292,052 295,352	40,691 41,405	26,081 28,998	18,923 22,225	23,473 25,662	783,584 815,449
910	11,632	65.630	42.596	298, 035	299.747	43,885	34,517	29,611	28,423	849.34
911	10,511	61,250	42.791	301.678	305.648	45,303	38,278	32,556	32,617	870, 80
912	10,916	63,640	43,685	314.520			49,329	89,226	37,384	874,23
1913	11,003	65,686	44,375	324,447	380,474	48, 163	56,005		43,072	969,38
1974	11,170	68,599	44,534	344,657	346,509	58,778	65,009		49,090	1,041,10
1915,	11,694	70,361	47,889	360,897	365,959	68, 250	72,113	61,112	52,494	1,111,07
1916 1917	11,347 11,319	69,227 70,118	48,089 46,860	373,364	355,364 369,081	66,561 69,209	71,522 88,758		50,880 $52,577$	1,140,79 1,141,06
1918	11,334	67, 923	46,515	367, 468 369, 057	329,972	69,968	91,010		54.748	1,107,46
[919	10.908	65,906	45,797	365,803	388,768	72,072	98,791	74,776	56.692	1,179,51
920	10.991	66.442	46,950	372,877	396,141	88.563	101.355		59,791	1,237,14
1921	11,446	78,238	49,655	397,172		86,137	113,412		68,597	1,385,45
1922	12,338	79,410	51,590		470,073	95,433	119,041	100,516	75,528	1,425,53
1928	11,763	83,472	53,611	422, 159	474,859	98,787	130,499	105,364	77,752	1,458,26
1924	11,783	79,509	58,179	430, 184	487,410	103,775	139,782	105,852	79,262 82,721	1,506,69
1925 1926	12,259 11,823	80,318 80,446	58, 182 58, 346	437,988 443,255	498,355 498,662	104,312 106,899	144,650 152,430	107,880 110,928	85,293	1,524,66 1,547,99
1927	11.777	81,426	60.426		513.071	103,793	157,392	1(5, 125	88,306	1.582.33
1928	12, 123	82,591	61,377	457,009	517,463	114,270	157.207	119,084	91.760	1,619,54
1929	12,144	84,275	61, 127	464,224	562,702	116,766	161,658	123,480	94,410	1,644,78
1980	12,20f	85,080	67, 156	474, 107	568,313	117.037	169, 893	132,573	96, 196	1,722,55
1931	12,721	87,418	66,810			120,703	176,716	136,733	99,375	-

4.—Total Pupils Enrolled and in Average Attendance, and Total in High School Grades, in Citles of 10,000 or over, by Sex, 1931, or Latest Year Reported.

Note.—The high school enrolment in Quebec cities is not given because it would not be complete without including the high school pupils of the classical colleges and independent classical schools and of the normal schools. The figures of secondary grades for Ontario cities represent high schools, vocational schools, and collegiate institutes only; they do not include pupils in fifth classes.

City.	Nun	bers of Pu General		ling	School C	s of Pupils Irades (incl I Schools fi	uded in
City.	Boys.	Girls.	Total.	Average Attend- ance.	Boys.	Girls.	Total.
Belleville, Ont Brandon, Man Brantford, Ont. Calgary, Alta Charlottetown, P.E.I Chatham, Ont Chicontimi, Que Cornwall, Ont. East Windsor, Ont. Edmonton, Alta Fort William, Ont Galt, Ont. Glace Bay, N.S Granby, Que Gouelph, Ont Halifax, N.S Hamilton, Ont Halifax, N.S Hamilton, Ont Hull, Que	1,876 1,983 2,624 8,835 1,148 2,012 1,505 1,764 2,215 9,113 3,578 1,687 2,620 918 2,439 6,275 18,421 3,210	1, 758 2, 067 2, 567 8, 896 1, 044 1, 527 1, 804 2, 198 9, 807 3, 705 2, 640 926 2, 851 6, 218 17, 424 3, 144	3, 634 4,050 -7,191 12,192 3,936 4,413 18,920 7,283 18,920 1,844 12,493 35,46 6,354	2,565 2,902 3,284 15,925 6,031 2,774 4,269 1,598 3,866 10,297	470 314 612 1,635 146 458 205 1,662 497 374 171 438 554 2,943	450 398 604 2,010 150 451 - 242 2,284 621 401 260 444 742 2,322	920 712 1,216 3,645 296 904

4.—Total Pupils Enrolled and in Average Attendance, and Total in High School Grades, in Cities of 10,000 or over, by Sex, 1931, or Latest Year Reported—concluded.

C***	Num	bers of Pu General (ding	School G	of Pupils trades (incl Schools fi	uded in
City.	Boys.	Girls.	Total.	Average Attend- ance.	Boys.	Girls.	Total.
oljette, Que	1.058	1.081	2,139	1.812	_		
Kingston, Ont	2,477	2,456	4,933	3,873	457	475	93
Kitchener, Ont	3,684	3,720	7,404	5,890	610	634	1.24
Lachine, Que	1.692	1,825	3.517	3,211	<u></u> -		1,01
Lethbridge, Alta	1,632	1.695	3,227	2,85€	316	398	71
Lévis, Que	1,239	1,093	2,332	2,072	-	-	-
London, Ont	8,058	7,687	15,745	12,801	1,708	1,692	3,40
Medicine Hat, Alta	1,399	1,360	2,759	2,392	281	341	62
Moneton, N.B	2,384	2,311	4,695	4.081	230	268	49
Montreal, Que	74,783	74,908	149,691	123,865			
Moose Jaw, Sask	2,931	2,829	5,760		549	576	1,12
New Westminster, B.C	1,823	1,823	3,646	3,281	468	490	95
Niagara Falls, Ont	2,175	1,983	4,158	3,605	357	282	63
North Bay, Ont	2,266	2,148	4,409	3.492	353	286	63
Oshawa, Ont	2,799	2,824	5,623	4,458	523	580	1,05
Ottawa, Ont	13,996	13.072	27,068 4,704	19,695 4,165	1,877	1,960	3,83
Outremont, Que	2,171 1,628	2,533 1,456	3.084	2,488	831	317	64
Owen Sound, Ont	2.677	2,636	5.313	4,284	383	443	82
Peterborough, Ont	1.983	1,879	3,862	4.261		564	1.20
Port Arthur, Ont	13,027	13.148	26, 175	21,678	645	904	1,20
Regina, Saak	6, 186	6,245	12.431	21,010	1.116	1.323	2.43
St. Boniface, Man	1,800	1,925	3,725	2.787	220	290	51
St. Catharines, Ont	3, 187	3, 182	6.369	5,140	580	635	1,21
St. Hyacinthe, Que	1.043	1.301	2.844	2,127	960	0.00	1,21
St. Jean, Que	749	796	1,545	1,291	_		_
aint John, N.B	5,027	5,254	10.281	8,942	766	948	1.71
St. Thomas, Ont.	1.977	2,038	4.015	3.303	527	503	1.03
Sandwich, Ont	1,607	1.533	3,140	2,246	110	109	21
Sarnia, Ont	2,277	2,245	4,522	3,550	496	542	1.03
Baekatoon, Sask	5.289	5,509	10,798		1.044	1.338	2.38
Sault Ste. Marie, Ont	3.385	3,342	6,727	5, 187	586	558	1,14
hawinigan Falls, Que	1,827	1.822	3.649	3,353	- 1	- 1	-
Sherbrooke, Que	2,893	3,165	6,058	5,272			
Sorel, Que	946	861	1,807	1.621		I	_ -
stratiord, Ont	2,189	2,110	4,299	3,473	401	415	81
Sudbury, Ont,	2,152	2, 121	4,273	3,507	261	302	56
ydney, N.S	3.003	2,958	5,961	4.959	393	367	76
Thetford Mines, Que							-
Cimmine, Ont	1,973	1,819	3,792	2.871	197	192	38
Coronto, Ont	69,070	65.822	134,892	99,557	12, 139	10,810	22,94
Three Rivers, Que	3,586 960	4,076 1,082	7,662 1,992	6,679 1,783	-	- 1	_
Valleyfield, Que,	21.307	20,335	41.642	37, 236	4,020	3,973	7.99
Vancouver, B.CVerdue, Que	4,978	4,947	9,925	8,156	7,000	0,010	*,00
Victoria, B.C.	2.978	2.987	5.965	4.372	558	635	1.19
Walkerville, Ont	1.127	1.093	2,220	2,179	284	305	58
Welland, Ont	1,462	1,434	2.896	2.350	249	274	52
Westmount, Que	1.708	1,549	3,257	2,904	-10	-11	-
Windsor, Ont	8,987	8,419	17,406	13,017	1.575	1.416	2.99
Winnipeg, Man	21.364	20,616	41,980	38,808	3,586	3.848	7,43
Woodstock, Out	849	854	1,703	2,019	323	388	``7 <u>i</u>

Secondary Education.—In the past quarter of a century the number of pupils of both sexes doing work of secondary grade has shown a very great absolute increase as well as a large increase relative to the number in elementary grades. The available statistics are given by years in Table 5, and show that in each of the provinces and in every year the number of girls in the secondary grades has exceeded the number of boys. The drop in the Ontario figures between 1915 and 1917 is due in part to the change in the statistical year from the calendar year to the natural school year—September to June.

5.—Provincially-Controlled Schools in Canada: Comparative Numbers of Boys and Girls Doing Work of Secondary Grade in each of Seven Provinces, 1901-31.¹

Year.	N.	.s.	N.	В.3	Ont	ario.	Mani	toba.	Saz	sk.	Albe	rta.	В.	C.
	_В.	G.	В.	G.	В.	G.	В.	G.	В.	G.	В.	G.	В.	G.
1901.,	-	-	~	-	10,869	11,654	-	~	-		_		215	369
1902	- 1	-	-			12,848	-	-	l – I	-	_	_	313	471
1903	- .		-			13,734		-	ļ - <u> </u>	- :		-	316	540
1904	2,496	4,499	-		12,718		_	~	i - I	-	-	-	381	600 657
1905	2,732	4,554	~	-	13,035		-	-	I -I	-	-	-	433	657
1906	2,775	4.864		-		16,056	-	-	-	-	-	-	412	763
1907	2,792	4,854	-	-	13,799	16,532			J	- !	-	-	432	823
1908	2,985	4,928	-	-	14,731	17,181	-	~	335	399	-	-	613	857
1909	3.076	5.048	~			17.325	-	-	504	643	-	-	812	997
1910	3,181	5,476	-			17,416	-	-	623	804			919	1,122
1911	3,211	5,463	~]	i		20,907	-	-	766	927	-	-	940	1,048
1912	3,132		-		17,345	21,022	-	~	885	1.129	-	-	973	1,178
1913		5,461	-			21.572	-	-	1,028	1,326	-	_	1,232	1,448
1914	3,216	5,687	-	-	19,475	23,060	-	-	1,034	1,622	-	-	1,414	1,593
1915	3,436	6.041	~		20,508	[24,718]	-	-	1,545	2,038	-	-	1,844	2,068
1916	3,466	6,260	~				-	-	1,586	2,283	-	-	2,260	2.510
1917	3,051	6,037	-		14,318		- !	-	1,445	2,441	-	-	2,074	2,767
1918	3,082	6,115	-	-	13,342		- 1	-	1,523	2,561	-	-	2, 151	2,999
1919	3,024	6.114	~	-	15,095		- 1	-	1,910	2,841	-	-	2,892	3,414
1920	3,313	6.178	ĺ		16,682		A -5.1	أيتميا	2,492	3,425			3,826	3,810
1921	3,425	6.280	İ		17,525		3,524	5,091	2,494	3,423	3,088	4.421	3,093	4,166
1922	4,202	6,937	i		21,408			- 0.0	2,423	3.204	4,707	6,055	3,788	4,846
1923	4,715	7,373	1 200		24,708		5,367	7,242	5,519	8,028	5,286	6,976	4,046	5.174
1924	4,415	7.217	1,363		26,417		-	- (6,604	9,410	5,877	7.569	4,380	5.509
1925	4.696	7.157	1,498		28,804				7,255	10,171	6,321		4,713	5.886
1926	4,605	7,343	1,535		29,281		5,560		8,140	11,361	6,658		5.306	
1927	4,498	7,472	1,561		29,1872		F 00F	0 400		11,721			6,308	7,545
1928	4,633	7,483	1,637		31,0022		5,665			12,405		10,604	7.494	8,865
1929	4,809	7.722	1.600		31,8282		6,458	8,626		13,397		11,344		10,661
1930	4,931	7.984	1,902	2,599	31,8472	34,0062	6.576	0.086	10,226	14,223	9,232	12,048		10,900
1931	5.279	8.5731	1,947	2.7871	33,3292	$35,278^{2}$	7,372	9,253	12, 212	10.371	10,730	14,535	10,8931	11.848

1924—P.E.I., inc. P.W.C., 719-1,113; 1925—P.E.I., inc. P.W.C., 669-1,087; 1926—P.E.I., inc. P.W.C. 704-1,070; 1927—P.E.I., inc. P.W.C., 669-1,132; 1928—P.E.I., inc. P.W.C., 620-1,216; 1929—P.E.I., inc. P.W.C., 716-1,217; 1930—P.E.I., inc. P.W.C., 696-1,132; 1931—P.E.I., inc. P.W.C., 982-1,582; 21ncludes the pupils of continuation schools, high schools and collegiate institutes only. In the school year 1931, in all secondary grades reported, there were approximately 50,011 boys and 53,309 girls. These included Iull-time day vocational, public and separate schools. The figures in the tables are, for comparative purposes, confined to continuation and high schools and collegiate institutes. *The figures given for New Bruhswick are approximate.

Subjects of Instruction in Secondary Grades.—The subjects taken in the elementary grades of the provincially-controlled schools are settled by the curricula, but in the secondary grades there are usually options appealing to different types of pupils, wishing to follow different callings. Statistics of the subjects taken by pupils in secondary grades in 1930, available for six provinces, were presented in the Canada Year Book, 1932, p. 843, showing among other things the small number of pupils taking Greek and German and the high proportion studying French and Latin. The "Annual Survey of Education in Canada, 1931", shows in detail the changes in the subjects chosen in recent years by secondary grade pupils in the different provinces.

Vocational and Technical Education.—The introduction of technical and vocational courses in the high school curricula has received strong stimuli in recent years from the Technical Education Acts of 1919, 1929 and 1931, under the terms of which the Dominion Government undertook to provide subsidies to the provinces to encourage the growth of technical instruction. From the outset evening classes during the winter months have been an important part of the work of the technical schools. The number of students in institutions for technical education coming within the scope of the Technical Education Act of 1919 (9-10 Geo. V, c. 73) in the academic years ended June 30, was as follows: 1921, 56,774; 1922, 61,961; 1923, 70,300; 1924, 79,829; 1925, 88,024; 1926, 88,961; 1927, 96,682; 1928, 109,008; 1929, 121,252. In the years since 1929 not all provinces have been receiving grants, but Table 6 provides a record of pupils receiving instruction of a technical character in the publicly-controlled schools of the Dominion in 1931.

6:—Enrolment in Publicly-Controlled Vocational Schools in Canada, by Provinces, School Year ended June 30, 1931.

	Full-ti	me Day Stud	lente.	Part-time	
Province.	Com- mercial.	Other than Com- mercial.	Total.	and Short Course Students.	Evening Students.
Prince Edward Island Nova Scotia Nova Scotia New Brunswick Quebeo¹ Ontario² Manitoba Saskatchewan Alberta British Columbia	58 490 15,328 3,246	21 925 7,775 14,219 169 146 1,815 3,064	24 79 1,415 7,775 29,547 3,445 1,357 3,034 5,856	1, 116 3, 614 68 671 3, 334 140 22 179	2,667 2,004 51,276 47,440 2,732 1,908 1,811 7,167
Totals	24,868	28,134	52,502	9,144	117,005

This table does not include students in commercial courses in Quebec who, it will be noted, constitute the most numerous group in other provinces. In Quebec statistics they are included with the high schools, classical colleges, etc. Moreover, this table comes far short of demonstrating the full importance of technical or vocational training in Quebec for another reason. All of the work in the Catholic schools in advance of the elementary years (i.e. the five complementary and superior years, including about 25,000 pupils) has a strong vocational character. Apart from certain compulsory general subjects in these years optional subjects are grouped in four vocational sections, in one of which each pupil studies. Enrolment in Ontario schools is not for the full year but for a certain day—the last school day in May.

Teaching Staffs.—As shown in Table 1, the teaching staffs of Canadian schools consisted in 1931 of 71,246 teachers, 14,743 males and 56,503 females. The "Annual Survey of Education in Canada, 1931" deals in detail with the classification of these teachers, the rates of salary paid and the teaching experience. Table 7 summarizes statistics regarding rates of salary, as far as these are available.

7.—Average Annual Salaries of School Teachers, by Provinces, 1936-31, or Latest Year Reported.

Province and Class of Certificate.	Male.	Female.	Province and Class of Certificate.	Male.	Female.
	\$	\$		\$	\$
Prince Edward Island, 1931—			New Brunswick, 1931—		
First class	797	653	First class	1.275	942
Second class	552	503	Second class	696	661
Third class	470 l	416	Third class	519	520
			Superior schools		396
Nova Scotia, 1931—			Grammar schools	2,	187
All schools	75	4	Saskatchewan, 1981—		
Quebec, 1930—			Rural schools -		ا
Religious teachers	571	383	First class	898	864
Lay teachers—			Second class	893	845
Catholic schools	1,641	397	Third class	921	850
Protestant schools	2,540	1,120	Others		
Catholic and Protestant			All classes	895	851
schools	1,828	543	Cities, towns and villages—	4	·*
Ontario, 1930-			First class	1,511	1,112
Public schools—			Second class	1,214	1,028
Rural	1,208	1,008	Third class	-	-
City	2,804	1,501	Othera	1 449	1 000
Town	1,815	1,121	All classes	1,443	1,065
Village	1,407	1,045	Collegiate Institutes and	a tto	0.001
Separate schools—		000	High Schools	2,552	2,001
Rural	970 947	883 7.0	Alberta, 1931— First class	1,688	1.256
City		723	Second class	1,055	1,200
Town,	1,024 1,000	932	Third class	976	971
Village	1.651		Permit and pending	1.716	1.580
Totals, public and separate.	1,091	1,112	Specialist	2.481	2.010
High schools and collegiate institutes, 1981—			British Columbia, 1931—	2,401	2,010
Principals	3,30	a E	High schools	2.3	**
Assistants	2,756		Cities	1.5	
Continuation schools, 1931—	4,700	4,400	Rural municipalities	1,3	
Principals	1.84	45	Rural and assisted	1.1	
Assistants	1.395 โ	1.329	All schools	1,5	

Teachers with certificates from other provinces.

Teachers in Training.—Detailed information regarding male and female teachers in training in 1930-31 is given in the Bureau of Statistics' "Annual Survey of Education in Canada, 1931" A summary of the number of teachers in training in each year from 1902 to 1931 is furnished by provinces in Table 8.

8.—Provincially-Controlled Schools in Canada: Number of Teachers in Training in Normal Schools and Colleges, by Provinces, 1902-31.

Year.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Total.
1902	l _	182	269	420	1,922	320				0 110
1903		145	208	460	1.86!	319	- I	i -	-	8,113
1904	1 - 1	191	288	392	1.592	390	_			3,009 2,853
1905	1 -	148	285	416	1,685	491		_	_	3,02
		154	307	423	2,286	476	188	102	_	3,930
1906 1907	1 _	104	a01	420	2,200	410	100	102	_	9,90
908	1 -	161	334	526	1.788	410	229	140		3,58
1909	1	215	343	715	1.410	448	411	182	_	3.72
1910	1 _	260	358	787	1,510	503	447	218		4.08
911		268	370	840	1.474	628	241	248	-	4.069
912		298	376	836	1.513	020	580	278	_	3,87
1913	1 [302	358	1.088	1.486	529	643	292	_	4,648
1914	1 [318	357	1.270	1,563	581	886	357	_	5.33
1915	1 [355	351	1,312	1,425	672	1,222	601		5, 93
		388	372	1.357	1,819	737	911	438	_	6.02
		263	372	1.361	1.438	599			335	5,78
1917	-1 -	260 260	287	1.339	1,436	513	1,081 621	334 467	365	5,52
1918		255 255	263	1,223		554			425	
1919	220	238	263	1,502	1.659 1.959	593	1,058 723	297 413	420 404	5.73 6.30
1920 1921	241	241	216	1.376	2,221		899	411	377	
1921	241		358	1.389		642				6.62
1922	341 347	356	356 451		2.684	790	1,462	586	685	8,60
1923	940	353		1,555	3,131	687	1.571	1,004	672	9.72
1924	. 338	682	442	1,623	3,392	695	1,621	669	639	10,10
1925	. 297	760	430	1,771	2,611	695	1,702	613	563	9,44
1926	. 299	692	376	1.854	2,786	636	1,655	774	453	9,52
1927	. 243	680	344	1,884	2.441	626	1,514	721	335	8,78
1928	215	600	321	1,950	2.679	614	1.458	692	375	8,90
1929	. 195	538	345	1,921	1,734	536	2.677	789	339	9,07
1930		615	311	2.075	1,838	549	1,317	811	432	8.16
1931	. 245	734	315	2,173	2.119	570	1,303	186	526	8,96

¹Tre data for 1907 are incomparable and have been omitted. In recent years several universities have added teacher-training departments, in most cases for university graduates who are trained for teaching positions in the secondary schools. These are included in the figures for 1930 and 1931.

Receipts and Expenditures.—The total receipts and expenditures of the provincially-controlled schools of the different provinces are published for recent years in Table 9. Figures for the receipts in British Columbia and for expenditures in Prince Edward Island, Nova Scotia, New Brunswick and Quebec are not available.

9.—Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1927-31.

Note.—For other years back to 1901, see the 1921 Year Book, pp. 148-153 and the 1932 Year Book, pp. 845-848.

Year.	P .1	E.I. ² —Receip	ts.	N.S.2—Receipts.				
1ear.	Govt. Grants.	Local Assessment.	Total Receipts.	Govt. Grants.	Municipal Funds.	Local Assessment.	Total Receipts.	
	\$		\$	\$		8	\$	
1927 1928 1929 1930 1931	284,313 294,037 297,369 306,390 321,508	179,004 187,769 189,669	473,041 485,138 496,059	752,858 875,007	524, 196 523, 967 523, 762 523, 876 523, 834	2,504,390 2,549,461 2,529,293	3,605,402 3,781,216 3,948,230 3,970,025 4,194,295	

Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1927-31—continued.

		N.B.*-	Receipts.	Que.¹,²—Receipts.			
Year.	Govt. Grants.	Municipal Funds.	Local Assessment.	Total Receipts.	Govt. Grants.	Assessment and Other Sources.	Total Receipts.
	\$	\$	\$	\$	\$	\$	\$
1927	445,014 471,759 478,964 495,886 511,850	212,616 227,728 212,172	2,337,740 2,361,978 2,405,890		4,152,312 4,952,778 5,906,164	26,729,586 27,964,711	29,807,607 30,881,878 32,917,489 34,562,530

ONTARIO-Receipts.1

		Elementar	y Schools.		Secondary	Schools.		
Year.	Govt. Grants.		Clergy Re- serve Fund and Other Sources.	Total.	Govt. Grants. Total.		Grand Total.	
	;	\$	\$	\$	\$	\$;	
1927 1928 1929 1930	3,404,647 3,508,408 3,686,301 3,753,499	26,159,067 27,274,660	13, 128, 485 13, 527, 345	41,586,106 42,795,960 44,488,306 47,846,793	1,533,930 1,594,070 1,711,145 1,845,379	15,957,378 17,811,614 21,211,031 23,800,321	57,543,484 60,607,574 65,699,337 71,647,114	

ONTARIO-Expenditures.1

		Ele	mentary Scho	ools.	_	Secondary	Grand
Year.	Teachers' Salaries.	Sites, etc.	Apparatus, etc.	Rents, etc.	Total.	Schools.	Total.
		:	\$	s	\$	\$	\$
1927 1928 1929 1930	19,006,316 19,490,562 19,998,964 20,502,972	3,821,743 4,083,218	537,116	11,645,816		16,894,437 18,051,352	52,389,674 55,006,999

Manitoba-Receipts.

Year.	Legislative Grants.	Municipal Taxes.	Debentures.	Promissory Notes.	Sundries.	Balance from Previous Years.	Total.
1927	\$ 1,110,575 1,191,924 1,208,809 1,285,898 1,310,587	7,555,561 7,611,029 7,821,988	568,937 408,897 446,115	877,474 1,770,920	\$ 275,718 230,025 186,088 219,540 490,447	918,915 911,043	\$ 11,172,700 11,319,729 11,203,340 12,358,829 12,330,297

3.—Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1927-31:—continued.

Manitora-Expenditures.

Year.	Teachers' Salaries.	Building, etc.	Fuel, etc.	Repairs and Caretaking.	Secretary- Treasurers' Salaries.
1927. 1928. 1929. 1930.		597,183 683,747 1,222,272	415,257 385,406 425,633	684,528 693,074 743,418	203,226 171,882 167,692
Year.	Principal of Debentures.	Interest on Debentures	Promis- sory Notes.	Other Expen- ditures.	Total.
1927. 1928. 1929. 1930.	\$ 613,671 633,097 639,916 651,551 1,306,476	683,714 684,765 694,929	982,903	925,077 996,925 1,091,074	10,384,696 10,406,305 11,627,399

Saskatchewan-Receipts.1

		Elem	entary Sch		Secondary			
Үеаг.	Govt. Grants.	Local Assess- ments.	Assess- Lures		Total.	Govt. Grants.	Total.	Grand Total.
	\$	\$	\$		\$	\$	\$	3
1927 1928 1929 1930	2,193,889 2,534,024	10,415,005 10,874,672 11,010,661 10,163,293	1,300,862 1,217,825 1,284,651 1,410,712	1,981,025 2,208,983	15,990,972 16,267,411 17,038,319 15,886,329	208,732 292,676	778,302 981,183	16,751,748 17,045,713 18,019,502 17,192,032

SASKATCHEWAN-Expenditures.1

			Elementar	y Schools.			Secondar		
Year.	Teachers' Deben- Salaries. tures.		Notes School (renewals Bldgs. and and interest). Grounds.		Other Expendi- ture.	Total Expendi- ture.	Teachers' Salaries.	Total.3	Grand Total.
	\$	\$	\$	*		\$	\$	\$	
1927 1928 1929 1930	7,184,460 7,484,752 7,809,073 7,889,070	1,526,298 1,590,757	1,670,769 1,788,318	2,231,260 2,169,375	3,501,765 3,595,149	15,917,669 16,414,844 16,952,672 16,477,254	539, 105 593, 186	797,373 1,276,134	16,760,848 17,212,217 18,228,806 18,405,327

Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1927-31!—concluded.

ALBERTA-Receipts.

Year.	Govt. Grants.	Local Assess- ments.	Deben- tures.	Notes.	Other Sources.	Total.
			•	\$		*
1927	1,218,573	8,901,979	503,130	967,530	333,931	11,925,143
1928	1,321,158	9,279,494	1,097,006	1,241,062	391,368	13,330,688
1929	1,355,963	9,419,440	1,543,704	1,364,173	45 9, 58 2	14,142,862
1930	1,593,995	8,854,951	1,335,699	1,491,338	420, 808	13,696,791

Alberta-Expenditures.1

Yеаг.	Teachers' Salaries.	Officials' Salaries.	Debentures.	Notes.	Buildings.	Other Expendi- tures.	Total Expendi- tures.
		\$	\$		\$	*	*
1927	5,899,839	332,115	1,211,234	1,278,206	980,704	2,005,890	11,707,988
1928	6,243,085	357,525	1,228,138	1,170,050	1,806,269	2,231,799	13,036,866
1929	6,586,974	350,427	1,287,395	1,575,483	2,097,582	2,498,688	14,396,549
1980	6,847,412	338,977	1,305,609	1,495,459	1,565,341	2,497,726	14,050,524

BRITISE COLUMBIA - Expenditures.

		Local Asse	essmeuts.					
Үеаг.	Cities.	Rural Munici- palities.	Other Rural,	Total.	Provincial Govern- ment.6	Grand Total, ⁵		
	\$	\$	*	;	\$	*		
1927	3,269,522	1,992,573	507,692	5,769,787	3,402,9415	9,172,7285		
1928	3,368,253	1,843,283	517,040	5,728,576	3,532,519	9,261,095		
1929	5,806,030	1,025,482	552, 563	7,384,075	3,765,9215	11,149,996		
1930	4,549,067	1,120,718	59 5, 154	6,264,939	3,743,3175	10,008,2565		
1931	4,551,940	1,035,843	638,878	6,226,661	8,834,727	10,061,388		

The latest figures for Quebec, Ontario, Saskatchewan and Alberta are for 1930.
Figures of expenditures are not available for Prince Edward Island, Nova Scotia, New Brunswick and Quebec.
These totals do not include promissory notes.
Figures for British Columbia do not include receipts.
Including grants to provincial university as follows: 1927, \$531,875; 1928, \$545,917; 1929, \$564,425; 1930, \$608,825; 1931, \$457,450.

Subsection 2.—Higher Education.

The tables of this subsection are intended to include all institutions in the Dominion offering instruction in courses that are the equivalent of at least two years in advance of matriculation. The affiliated colleges of each university are shown along with it, except where they are situated in another province. In the tables following, the name of each institution is given in the language (French or English) used therein as the main language of instruction. Table 10 gives a summary of the degrees and diplomas granted by the different universities and colleges of Canada, and Table 11 shows the students attending the faculties and courses of instruction offered in each institution.

Students of University Grade.—The aggregate number of students in attendance was reported as 77,618. Of these, 41,168 were of university grade (i.e., following courses for which matriculation was prerequisite) and 34,033 were in attendance at the regular sessions. They were enrolled in 153 different colleges or universities. Of those attending the full sessions 32,783 were undergraduates, while 1,250 were graduate students, i.e., working toward a higher degree in a subject in which they already held a bachelor's degree. Many of the larger numbers classed as undergraduates actually held degrees, but not in the subject or faculty in which they were studying during the session under consideration.

More than half of all students, or 18,134, are in arts and pure science or what are commonly termed "academic" courses as distinguished from "professional" courses. One or two years of arts is prerequisite to many of the professional courses, in French-language Quebec the full four years. Next to arts and science come engineering and applied science with 3,554 students; medicine, 2,949; theology, 2,192; agriculture, 1,277; commerce and accounting, 1,103; law, 842; household science, 995; education, 667; public health and nursing, 650; pharmacy, 475; dentistry, 404; music, 220; forestry, 136; veterinary science, 122; architecture, 137; etc.

As shown in Table 10, there were 3,614 bachelor degrees granted to men and 1,224 to women, 525 diplomas to men and 773 to women. Some of the latter represent completion of courses similar to those for bachelor degrees. The graduate degrees granted included 447 master degrees or licences to men and 95 to women, the term "licentiate" being used by the universities of Laval, Montreal and Ottawa in place of the term "master". Those completing the doctorate were 35 men and 7 women, while honorary doctor degrees were conferred on 76 men.

10.—Universities and Colleges of Canada: Summary of Degrees and Diploma	3
Granted, 1930-31.	

University or College.	Diplomas and Certificates.		Bachelor.		Master and Licence.4		Doctor.3,5		Totals.		
University of Confege.	Men.	Wom- en.	Мел.	Wom- en.	Men.	Wom-	Men.	Wom-	Men.	Wom- en.	Total.
Dalhousie—King's' Acadia St. Francis Xavier New Brunswick Mount Allison St. Joseph's McGill Bishop's Lava (1930) Montreal Toronto Victoria' Trinity' Western Queen's Ottawa McMaster Manitoba Saskatchewan Alberta British Columbia	No 12 200 8 8 9 200 6 4 4 715 555 524	No. 6 222 5 4 8 67 10 181 111 - 14 - 2 9 30 27 40		No. 422 440 711 211 15 349 5 62 99 5 140 711 548 148	No. 7 55 7 7 5 8 8 37 9 9 0 8 8 8 6 6 16 16 17 12 17	18 2 2 1 27 5 8 1 1 1 8 8 3 2 2	No. 1 7 5 8 8 13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	- - 6 -	No	6 19 158 104	No. 201 151 50 59 79 466 591 59 636 620 1,511 44 60 216 276 2276 2276 2211
Other Institutions	144 525	231	131	1,224	17		113]	307 4,697	252	559

¹ All degrees except those in theology granted by Dalhousie.

² All degrees except those in theology entered opposite Toronto.

³ Medical, dental and veterinary doctors included in "bachelor" column.

⁴ The licence in the French-speaking universities is the next degree in advance of bachelor, as the master degree is in the English-speaking.

5 Seventy-six of the doctor degrees were honorary.

Students not of University Grade.—The 41,168 students of post-matriculation standard represent little more than half of the total enrolment in universities and colleges. Many of the arts colleges, especially the classical colleges of Quebec offer preparatory courses in which instruction is given in the high school grades, or even elementary grades. These accounted for 19,845 students, practically all of whom were in regular attendance at the full session.

The remaining 16,615 of the enrolment, 7,873 men and 8,742 women, were not following high school courses, but could not be classed as university-grade students as they had not necessarily matriculated. A minority of them attended the full session, generally studying music, household science or agriculture. were the students of summer courses in teaching methods, series of evening extension lectures, correspondence and other extra-mural courses, agricultural and other short courses.

Apart from the reported enrolment many thousands of people were reached by extension lectures that were not grouped in series and reported as courses, and still larger numbers reached by university radio broadcasts, travelling libraries, agricultural assistance and various other forms of extension service. ities were reviewed in the "Annual Survey of Education in Canada, 1929".

Teaching Staff.—At pp. 858 to 861 of the 1932 Year Book there was published an analysis of the teaching staffs of universities and colleges as in 1929-30. by sex and by full time or part time. A corresponding table for 1930-31 will be found at p. 113 of the "Annual Survey of Education in Canada, 1931"

11.—Universities and Colleges of Canada: Full Time Students

				U	ndergr	aduate			
No.	University or College.	Arts.	Pure Science.	Agriculture.	Architecture.	Commerce.	Dentistry.	Education.	Engineering and Applied Science.
1 2 3 4 5 6 7 8 9 10 11 12 3 14 5 16 17 8 19 20 12 22 12 22 22 22 22 22 23 23 23 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	Prince of Wales (1930). St. Dunstan's. Acadia Dalhousie. King's. St. Francis Kavier. St. Mary's. St. Anne St. Vincent. Holy Heart. Pine Hill. Nova Scotia Agricultural. Nova Scotia Agricultural. Nova Scotia Technical. Maritime Pharmacy. Sacré Cœur. St. Joseph's. Mt. Allison. New Brunswick. Bishop's. McGill. Macdonald. Presbyterian. Diocessan. United. Montreal (Facultés de l'université). Ecole Polytechnique. Ecole des H. Etudes Commerciales. Oka Ecole de médecine vétérinaire. Instituts pédagogiques. I4 collèges classiques. Marguerite Bourgeoys. Ecoles annexées. Laval (Facultés de l'université), 1930. 7 grands séminaires. Académie Commerciale. Arthabaska. Ste. Anne de la Pocatière. I1 collèges classiques. Collège de Jésus-Marie. Ecoles de gardes. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions supérieures non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions classiques non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées. Institutions dans durative non-affiliées.	30 78 78 78 78 78 78 78 78 78 78 78 78 78	109 122 477	131 131 131 131 131 131 131 131 131 131	461111111111111111111111111111111111111	75 250 1077 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	277 277 277 277 277 277 277 277 277 277	277 8 7 7 156 1 166 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 67 60 - 32 29 59 58 124 308
54 55 56 57 58 59 61 62 63 64	Waterloo Queen's McMaster Royal Military Osgoode Hall Margaret Eaton (Physical Training) St. Augustine's Mount Carmel Rédemptoristes St. Jerome's University of Toronto¹ Emmanuel and Victoria	38 - 38 - 38, 3,131 941	3	11111	1 1 1 1 1 1	1 11111	244	410	- 850
64 65 66 67	Rédemptoristes St. Jerome's. University of Torontoi Emmanuel and Victoria. Trinity St. Michael's. Knox. Weeliffe.	941 306 310 40 34	1	-	-	-		- - -	

For footnotes see end of table pp. 984-985.

8	Forestry.		of ±
111128101111111111111111111111111111111	Household Science.		he Re
11.11.11.11.18.11.11.11.11.11.11.11.11.1	Law.		E L
11) 1 1 8 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Medicine.	1_	Ę.
11) 3 11 11 11 11 11 11	Music.	Į ada	Session,
)	Public Health and Nursing.	Undergraduate.	n, by
111118011111111111111111111111111111111	Pharmacy.	ate.	ш
	Social Service.	8	Facultles,
384364:181811156664454141111:1866111111:18661111111:186811111111	Theology and Philosophy.	continued	les,
11101030111171514111111111111111111111111111111	Veterinary Science.		193
10.12.10.12.11.5. 11.11.11.11.11.11.11.11.11.11.11.11.11	Others.		1
1. 1. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	Total (Excluding Duplicates).		
1 \$	Arts and Science.	۵	
<u></u>	Theology.	Graduate	
<u> </u>	Total.	ė	
30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pre-matriculation.	န္	
2. 2. 4. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	Total.	Others.	
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11.—Universities and Colleges of Canada: Full Time Students

					Under	gradua	te.		
No.	University or College.	Arts.	Pure Science.	Agriculture.	Architecture,	Commerce.	Dentistry.	Education,	Engineering and Applied Science.
1234567899111234156789921222456728	University of Torontol—concluded. Ontario Agricultural College. Ontario Veterinary College. Brandon College. University of Manitoba ² . Manitoba College. Wesley. St. John's. St. Boniface. University of Saskatchewan Emmanuel. St. Andrew's. Lutheran Seminary. St. Chad's. Regina. Campion. Outlook. St. Feters. Luther College. College Mathieu. Canadian Junior. Concordia. Jesnites. St. Jean. University of Alberta. St. Stephen's. Western Pharmacy University of British Columbia. Victoria.	- 150 1,386 43 46 863 - 107 72 444 112 85 27 30 14 12 4 388 - 1,494 265	1418211101110110110110111	657 - 76 - 64 	41	111111157	32	51 222 771	226
29 30	Anglican, 1929Union	-	=	_	-	- 1	- -	_ =	
31	Totals, Canada	16,3095	775	1,2775	5 24	1,103	494	867	3,554

Includes the arts students of Victoria, Trinity, St. Michael's, and students of the College of Pharmacy. Includes students of Manitoba Law School, and 304 students in arts also registered in affiliated arts colleges. *Included in Arts.

Financial Statistics.—The total capital investment in the universities and colleges of Canada in 1930-31 is given in Table 12 as \$168,190,000, of which \$45,015,-000 was the value of endowments and investments, \$120,392,000 was the value of lands, buildings and equipment and \$2,783,000 the value of other property.

The aggregate income of the universities and colleges in the same year was \$19,195,000, while the current expenditure reached \$20,079,000 and the capital expenditure \$3,932,000, being a total of \$24,011,000. Among the largest capital expenditures of the year were \$974,000 at the University of Toronto, \$617,000 at Victoria University, \$600,000 at Queen's University, \$550,000 at the University of Manitoba, and \$239,000 at McGill University. Further, expenditure on new buildings at the University of Montreal had totalled \$2,202,000 up to June of 1931.

The income of the universities and colleges from investments was \$2,581,000, from government grants \$5,896,000, from tuition fees \$3,656,000, from other sources \$7,062,000, including gifts and fees for board and lodging where they were given. Government grants fell from \$7,413,000 in 1930 to \$5,895,794, and have been still further reduced in 1932. Revenue from investments was down slightly as compared

of the Regular Session by Faculties, 1936-31—concluded.

				Und	ergrad	uate.	_∞ı	clud	ed			G	iraduat	e.	Oth	ers.	
Forestry.	Household Science.	Law,	Medicine,	Music,	Public Health and Nursing.	Pharmacy.	Social Service.	Theology and Philosophy.	Veterinary Science.	Others.	Total (Excluding Duplicates).	Arts and Science.	Theology.	Total.	Pre-matriculation.	Total.	No.
	263	76	=	- - -	888	50 63 11 1 1 1 1 1 43 35 1 1 1		533 322 9 18 14 31 2	97		920 97. 150 2.283 438 1,459 53 22 188 187 72 44 1.360 41. 1.360 1.337 2.651 3.37 2.651 3.37 2.651	54 54 7 5	2	54-7 55-7 557-2 2	186 220 147	2788 2787 1177 1177 1178 1179 1179 1179 1179 1	l Ż
136	995	842	2,949	220	650	475	100	2,192	122	219	32,783	1,050	60	1,250	17,982	20,136	31

'To this figure should be added 45 students in the architecture section of the écoles des beaux arts in Montreal and Quebec.
Excluding 2,130 duplicates in undergraduate arts and 141 in agriculture.

Included with Engineering.

with 1930, while revenue from fees had increased as a result of the raising of fees to fill the gap.

From the standpoint of financial support, there are at least three classes of institution. First, there are those that rely on grants from provincial treasuries for their unkeep: six of the provinces have such universities and the remaining three have colleges in this class. Secondly, there are the institutions such as Dalhousie, McGill and McMaster Universities, to cite a few, that rely for their support on endowments, and do not receive provincial grants. Thirdly, there are colleges either operated or controlled by religious denominations which do not receive provincial assistance, and which may not have a financial endowment sufficient to carry them. These may have another type of endowment—in men, so to speak, like the University of Ottawa and other Roman Catholic colleges conducted by religious orders. Since salaries are commonly only nominal in these schools, expenses are comparatively low per pupil accommodated. The other section of the third group-mainly Protestant theological and arts colleges—commonly rely on Church contributions where their financial endowments are inadequate.

12.—Universities and Colleges of Canada:

Note.-When using the bold face provincial and grand totals, the foot-

			Asse	ets.	
No.	University or College.	Value of Endow- ments and Invest- ments.	Value of Lands, Buildings, and Equip- ment.	Value of Other Property,	Total Assets.
1 2	Prince of Wales (1930)	\$ 35,000	\$ 400,000 315,000	\$ 26,000	\$ 400,000 376,000
3	Totals, Prince Edward Island	35,000	715,000	26,440	776,000
4 5 6 7 8 9	Acadia. Dalhousie King s. St. Francis Xavier St. Mary's. Ste-Anne.	1,280,556 2,531,069 160,979 443,667	1,630,127 2,460,000 487,164 520,000 175,000 225,000	230,159 	3,140,842 4,991,069 648,140 1,390,667 175,000 228,000
10 11 12 13 14	Pine Hill Nova Scotia Agricultural Nova Scotia Agricultural Maritime Pharmacy Holy Heart	289,035 - 1,029	156,935 325,000 500,000 4,218 300,000	-	445,970 325,000 500,000 5,247 300,000
15	Totals, Nova Scotia2	4,706,333	6,783,444	660,159	12,149,935
16 17 18 19	Sacré-Coeur St. Joseph. Mt. Allison New Brunswick	587,832 25,000	260,000 536,820 957,336 1,000,000	10,600 41,800 - 600,000	270,000 578,620 1,545,168 1,625,000
20	Totals, New Brunswick	612,832	2,754,156	651,800	4,018,788
21 22 23 24 25 26 27 28 29 31 32 33	Bishop's. McGill Macdonald. Presbyterian Diocesan. United Montreal (Univ. faculties, except theology). Ecole Polytechnique. Ecole des Hautes Etudes Commerciales. Oka. Institut péd. et Marguerite Bourgeoys. 14 collèges classiques. Ecoles annexées (no report). Laval (Univ. faculties, except theology).	6,827 18,566,463 4,250,000 280,000 368,747 468,292 221,366	300,000 12,826,845 8,250,000 170,000 105,944 429,500 7,270,753 700,565 900,000 238,390 600,000 11,722,000		306,827 31,393,308 7,500,000 474,691 897,792 8,119,376 780,969 900,000 238,390 600,000 11,722,000
35 36 37 38 39	Ste-Anne de la Pocatière 11 collèges classiques. Collège de Jésus-Marie Autres institutions affiliées (no report). Institutions non affiliées (no report).	_	8,774,500 1,010,100	-	443,000 8,774,500 1,010,100
40	Totals, Quebce		50,741,517	707,661	77,900,775
4L 42 43 44 45 46 47 48 49 50	Ottawa. Sacré-Coeur. Sudbury. University of Western Ontario. Assumption. Alma. Huron. Ursuline. Waterloo and Evangelical Lutheran. Queen's. McMaster. Royal Military.	50,000 507,872 8,000 180,695 23,564 2,228,824 1,561,558	1,024,585 259,000 2,218,101 800,000 250,000 150,000 402,650 127,117 5,000,000 1,472,546 No valuation	50,000 8,671 100,000 7,000 - - - - - - - -	1, 090, 490 350, 000 2, 734, 644 900, 000 258, 000 337, 695 402, 650 150, 681 7, 228, 824 3, 024, 104
52 53 54	Royal Military Osgoode Hall, St. Augustine's, Rédemptoristes (no reports) Mount Carmel St. Jerome's	- -	1,250,000 350,000	= =	1,250,000 350,000

For footnotes see end of table, pp. 988-989.

Financial Statistics, 1930-31.

notes to the items which influence them should be taken into consideration.

		Expenditures.				Receipts.		
No	Total.	Capital.	Current.	Total Income.	From Other Sources.	From Fees.	From Govern- ments and Muni- cipalities.	From Invest- ments.
	\$ 28,089 42,000	\$ 6,000	\$ 28,089 36,000	\$ 28,089 43,000	\$ 40,100	\$ 1,700 2,000	26,389	\$ 900
-	70,089	6,000	64,089	71,089	40,100	3,700	26,389	\$00
10 11 12 12 12 12 12 12 12 12 12 12 12 12	249,346 312,975 80,000 135,314 16,500 29,240 61,637 22,366 180,055 4,957 30,000	3,825 16,129 5,651 15,055	249, 346 309, 150 80,000 119, 185 16, 500 29, 240 55, 986 22, 366 165, 000 4, 957 30, 000	248, 1951 290, 964 81, 116 119, 869 16, 500 29, 240 42, 351 22, 366 63, 200 4, 673 24, 500	120, 920 7, 525 65, 212 76, 957 8, 500 19, 240 25, 283 6, 455 1, 316 24, 500	72, 253 156, 827 6, 569 3, 447 8, 000 10, 000 - - 8, 807 2, 826	22,366 47,938	55, 022 126, 611 9, 325 39, 465 — 17, 069 — 531
1.5	1,122,394	40,660	1,081,780	942,974	355,90 8	268, 729	70,301	248,033
12	40,000 238,552 156,764 83,966	153,072 3,677	40,000 85,480 153,087 83,966	40,000 240,850 153,087 87,220	30,000 219,450 69,914 10,095	10,000 21,409 50,581 34,838	40,000	32,592 2,287
21	519, 282	156,749	362,533	521,157	329,459	116,819	40,000	\$4,879
	99, 435 2, 577, 932 523, 348 19, 500 36, 033 71, 227 390, 225 155, 751 164, 692 96, 428 13, 155 2, 206, 747 280, 669 85, 401 776, 918 69, 570	30,000 289,290 	89, 435 2,338, 642 523, 348 19, 500 36, 033 71, 227 380, 682 155, 751 164, 692 96, 428 131, 155 2, 206, 747 280, 689 85, 401 776, 918 69, 570	95, 708 2,480, 911 475, 956 39, 610 36, 033 68, 100 253, 644 171, 512 198, 933 90, 270 113, 155 2, 206, 747 273, 886 85, 386 776, 918 70, 874	43, 686 918, 978 178, 478 25, 600 16, 592 56, 554 39, 654 5, 208 7, 639 287 287 27, 6747 17, 573 676, 918	19, 801 511, 566 28, 000 665 136, 197 36, 304 27, 300 13, 983 62, 414 8, 600	6,000 93,000 41,000 1,690 37,290 130,000 164,000 25,000 130,000 90,000 77,368 100,000	26, 221 957, 367 228, 478 14, 000 17, 751 10, 881 40, 593
- 4 0	7,667,031	278,833	7,388,198	7, 437, 619	4,222,869	844,230	971,330	1,359,190
41 41 41 41 41 41 41 41 41 41 41 41 41 4	191,767 37,000 517,213 100,000 76,500 25,190 14,595 40,363 1,398,919 200,590 375,000	31,956 4,705 3,500 5,779 609,000	159, 811 37, 000 512, 508 100, 000 73, 000 25, 190 24, 595 34, 584 798, 919 200, 590 375, 000	176, 793 39, 500 552, 008 120, 090 25, 639 11, 820 36, 735 781, 307 199, 087 375, 000	62,021 35,000 7,203 80,000 47,700 12,099 7,018 31,782 26,526 67,602	109, 830 1,000 118, 798 40,000 25,000 1,555 4,802 4,084 252,519 51,370 20,0003	405,000 	4, 942 3, 500 21, 007 350 11, 985 869 150, 062 80, 115
52 53 54	70,000 35,000	- - -	70,000 35,000	70,000 38,000	20,000 34,000	50,000 4,000	<u> </u>	-

12.—Universities and Colleges of Canada:

Note.—When using the bold face provincial and grand totals, the foot-

			Ass	ets.	
No.	University or College.	Value of Endow- ments and Invest- ments.	Value of Lands, Buildings, and Equip- ment.	Value of Other Property,	Total Assets.
		\$	\$	\$	\$
1 2 3 4	University of Toronto. Victoria University. Trinity. St. Michael's (no report).	8,141,543 821,970	16,174,850 2,181,107 1,128,093	50,103	16,174,850 5,322,650 2,000,166
5 6 7	Knox Knox Wycliffe Pharmacy, 1930 Ontario Agricultural, 1930	326, 236 835, 695 141, 900	921,021 356,322 55,253	7,831 29,500	1,247,257 1,199,848 226,653
8	Ontario Agricultural, 1930 Ontario Veterinary	-	No valuatio 275,000	10,000	285,000
10	Totals, Ontario	9,883,762	34,386,645	263,105	44,533,512
11 12 13	Brandon College University of Manitoba Manitoba Law School	112,431 1,670,000	254,489 7,128,583	19,232	386, 152 8, 793, 583
14 15 16 17	Manitoba College. Wesley St. John's. St. Boniface	200,000 294,682 242,861 3,000	100,000 798,793 340,814 500,000	-	800,000 1,088,475 583,675 503,000
18	Totals, Manitoba	2,522,974	9,112,679	19,232	11,654,885
19 20 21 22 23 21 25 26 27 28	University of Saskatchewan Emmanuel St. Andrew's Lutheran St. Chad's Regina Campion. Outlook St. Peter's College Mathieu	29,818 20,000 4,223 2,000 25,000 1,000 18,000 1,227	4,226,447 60,000 193,965 70,000 160,000 821,615 200,000 69,563 175,000 150,000	700 2,470 - 14,000 3,445 30,000 10,000	4,256,265 80,000 198,888 74,470 185,000 822,615 232,000 74,235 205,000
29	Totals, Saskatchewan	101,268	6,126,530	60,615	6,288,473
30 31 32 33 34 35	Canadian Junior Concordia College Collège des Jésuites Juniorat St. Jean University of Alberta St. Stephen's	559,665 63,000	224, 650 200, 000 250, 000 215, 000 4, 528, 666 207, 000	5,000 26,680 20,000	224,650 200,000 255,000 215,000 5,115,011 290,000
34	Totals, Alberta	622,665	5,625,316	51,680	6, 299, 661
37 38 39	Western Pharmacy University of British Columbia Victoria Anglican, 1929	37,000 24,887	20,000 3,775,315 85,000 136,047	3,000 284,444	23,00) 4,096,759 85,000 160,934
41	Anglican, 1929. Union	17,000	130,000	55,000	202,000
42	Totals, British Columbia	78,887	4,146,362	342,444	4,567,693
43	Totals, Canada	45,015,237	120,391,789	2,782,596	168, 189, 722

Acadia's income includes \$83,716 as gi'ts. Exclusive of figures for Mt. St. Vincent College. Reverts to Consolidated Revenue Account. Included with lands, etc.

Financial Statistics, 1939-31—concluded.

notes to the items which influence them should be taken into consideration.

ì	,	Expenditures				Receipts.		
N	Total.	Capital.	Current.	Total Income.	From Other Sources.7	From Fees.6	From Govern- ments and Muni- cipalities.	From Invest- ments.
ľ	8	\$		\$	ŧ	8	\$	*
	3,770,782 901,693 194,699	973,597 616,734	2,797,185 284,959 194,699	1,451,443 254,719 194,985	121,943 35,234 127,746	678,425 62,149 24,424	517,000 	134,075 157,336 42,815
	40,568 208,567 52,324 839,484 51,850	8,634 136,135 - -	31,934 72,432 52,324 839,484 51,850	41,588 186,676 83,620 839,484 62,074	25,533 122,303 24,822 189,710 2,441	763 53,134 24,364 7,783	625,410 61,850	16,055 63,610 5,664
	9,142,104	2,381,040	6,761, 864	5,613,528	1,080,683	1,514,000	2,326,460	:692,385
	83,738 1,536,598 14,198 42,606 110,983 89,879 56,575	550,000 5,606 9,950	83,738 986,598 14,198 42,606 105,377 89,879 46,625	61,444 978,881 14,070 32,287 104,357 79,963 56,570	34,136 148,181 5,439 26,878 59,210 52,348 53,570	21,543 237,200 8,631 232 26,305 18,120	501,000	5,765 92,500 5,177 18,842 9,495 3,000
	1,934,577	565,556	1,369,021	1,327,572	279,762	312, 031	501,000	131,779
	906,501 22,060 52,730 18,855 9,076 133,191 37,960 22,000 11,500 24,368	108,928 4.000 1,223 975 6,400	797,573 22,000 48,730 17,632 9,076 132,216 31,500 32,000 11,500 23,260	895, 149 22,000 52,741 18,205 9,126 136,531 35,080 22,000 11,500 23,700	22,819 21,200 52,345 17,855 6,918 81,661 28,460 12,000 11,350 15,867	91,049 191 350 1,210 54,215 4,520 10,000 150 7,833	779,739	1,542 800 205 998 55 2,100
	1,238,121	122,634	1,115,487	1,226,032	269,875	169,518	780,939	5,700
	168,272 23,300 39,800 14,325 1,011,748 47,200	79,114 - - 215,269 4,500	89,158 23,300 39,800 14,325 796,479 42,700	93,919 23,300 33,000 14,600 796,568 49,250	80,531 5,300 33,000 14,600 48,142 43,600	13.388 18,000 147,038	576.388	25,000 5,650
:	1,304,645	298,883	1,005,762	1,010,637	225,173	178,426	676,388	30,650
	3,110 923,172 37,687 15,013 34,068	81,930	3,110 841,242 37,687 15,013 34,068	3,1[0 956,212 37,687 15,473 31,935	112,307 14,361 31,376	3,110 221,893 23,479	588,776 14,208	33,236 1,612 559
۱	1,013,050	81,930	931,120	1,044,417	158,044	248,482	602,984	34,987
4	24,011,289	3,932,285	20,079,004	19,195,025	7,061,873	3,655,935	5,895,794	2,581,423

^{*}Does not include expenditure made on new buildings. For the University of Montreal this had amounted to \$2,202,152 at June 1931.

*Other than board and lodging.

Including board and lodging.

Section 2.—Scientific and Industrial Research in Canada.

This section has, in past years, dealt with the history of scientific and industrial research in Canada and has included subsections outlining the organization and work of the National Research Council and of those provincial councils and private institutions which are primarily interested in research work. During the past year, the operations of these organizations continued to be conducted along the lines described in previous issues of the Year Book, and to conserve space the section is not reprinted in this edition. The reader is referred in this connection to pages 866 to 872 of the 1932 Year Book.

An important event in the history of scientific research in Canada was the opening of the new building of the National Research Council on Aug. 10, 1932.

Section 3.—The Libraries of Canada.1

It is more than three and a quarter centuries since the first known library came to what is now the Dominion of Canada—the library brought by Marc Lescarbot to Port Royal in 1606. A library was connected with Laval College at its establishment in 1663, although it was many years later before this institution became important. During the next century record is found of several libraries in Quebec city; one of these, a Jesuit library mentioned by Peter Kalm, the Swedish traveller (its existence is recorded again in 1789) was afterwards sold to the Quebec Gazetie and again sold in 1851 to the Library of Parliament. The volumes, which have survived the ravages of time and two fires, may still be found on Parliament Hill at Ottawa. Two other libraries founded in Quebec in the 18th century were a subscription library established in 1779 and the Quebec Legislative Library established in 1792. Four years later a public library was opened in Montreal. The Legislative Library of Upper Canada was established in 1791. Library of Prince Edward Island is somewhat older, as it was founded in 1773. The King's College Library, located until recently at Windsor, Nova Scotia, and now at Halifax, dates from 1800, the year of the founding of the oldest existing public library in the Dominion, the library at Niagara. During the first quarter of the 19th century there were several libraries founded in Nova Scotia, several in Montreal, and at least one in Western Canada.

The first quarter of the 20th century was most active in the establishment of libraries for public use. Of the 1,110 existing Canadian libraries for which statistics have been secured, 256 are known to have been established during that period, without regard to the fact that the dates of founding have not been secured for all libraries and the certainty that for one reason or another some libraries did not survive.

Public Libraries.—The public libraries included in the "Survey of Libraries in Canada" numbered 622 in 1931, more than three-quarters of the total being in Ontario which has a library system under the control of the Provincial Department of Education. The public libraries of Canada in 1931 contained 4,499,712 volumes, having a circulation of 20,904,924 volumes in addition to those lent to reading-room borrowers. In the same year \$509,302 was spent for books and periodicals. The following table gives summary statistics of these libraries.

¹ The Bureau of Statistics has recently issued a Survey of Libraries in Canada, which may be obtained on application to the Dominion Statistician.

Province	Number of Libraries.	Volumes.	Circulation.	Libraries Receiving Periodicals.	Number of Periodicals Received.	Expenditure on Books and Periodicals in 1931.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Asskatchewan Alberta British Columbia	21 473 20 27	9,200 97,424 84,873 535,097 3,054,943 101,602 188,550 190,511 225,162 12,350	44,023 141,334 225,311 625,472 13,853,149 876,996 1,521,937 1,535,129 2,068,773 12,800	2 7 7 14 258 6 14 12 12	40 169 251 1,313 8,048 276 599 495 1,014	\$ 424 2,921 5,285 21,071 340,322 25,848 35,162 27,364 49,369 1,556
Canada	622	4,499,712	29,901,921	334	12,239	509,322

12.—Summary Statistics of Public Libraries, 1931.

University, College and Professional School Libraries.—In 1931 this group included 230 libraries in advanced educational institutions having a full-time enrolment of 63,309 students and a teaching staff of about 6,700. The total contents of these libraries were 3,615,402 volumes and the total expenditure for books and periodicals was \$246,617. The largest of these libraries were those of McGill University with 450,000 volumes and the University of Toronto with 275,000 volumes.

Business, Technical Society and Government Libraries.—These included about 2,300,000 volumes, of which over 1,800,000 were in 52 governmental libraries, Dominion and Provincial. The largest of these libraries were the Parliamentary Library in Ottawa with 400,000 volumes, the Legislative Library of Ontario with 250,000 volumes and the Provincial Library of British Columbia with 205,000 volumes.

School Libraries.—Nearly 300 public high schools and about 375 private or independent high schools reported the existence of libraries in their schools. These included the bulk of the secondary schools of the Dominion. Elementary schools also in many cases possess libraries. In Ontario, 5,927 out of 5,986 rural schools were in possession of a public library, the libraries of 5,612 of these schools averaged 251 books each, making a total of over 1,400,000 volumes. Rural school libraries are on the increase thoughout the Dominion.

Library Schools.—Schools for the training of librarians exist at McGill University and at the University of Toronto. The former gives a short six weeks course of training as well as a degree course giving the degree of Bachelor of Library Science after a one-year course to those who have already a bachelor degree. The latter offers a one-year course in library training, the minimum requirement for admission to the course being honour matriculation. Acadia University gives two elective courses in library science which may be taken for its degree of Bachelor of Arts.

Section 4.—Art in Canada.

An article entitled "The Development of the Fine Arts in Canada", contributed by Newton MacTavish, M.A., D. Litt., appeared at pp. 995-1009 of the 1931 Year Book and a shorter article, dealing more particularly with the National Art Gallery, at pp. 886-888 of the 1924 Year Book.

CHAPTER XXVI.—PUBLIC HEALTH AND BENEVOLENCE.

The rapid increase in the numbers committed to our various institutions, such as mental hospitals for the insane, feeble-minded and epileptic; the alleged increase in juvenile crime and the extension of social work in this field; the increasing number of institutions for the care of the aged and incurable, as well as for the care of dependent, neglected and handicapped children, have been a marked feature of the twentieth century. In this new and important field statistical data are collected and results analyzed and published in leading countries. Although the difficulties encountered in building up statistics on a uniform basis in Canada have been many, these statistics are now being collected on a Dominion-wide basis either at the decennial census or on an annual basis.

In any comprehensive study of the situation it is essential that, besides health and hospitalization records, social statistics should also receive attention. Statistics regarding the number of children placed in foster homes, free family homes, number of children adopted, number of children cared for in day nurseries, the institutional care of juvenile delinquents, the numbers of dependent, neglected and handicapped children receiving institutional care, fuller and more accurate data concerning inmates in our mental institutions, institutions for the feeble-minded, county asylums, county almshouses, poorhouses, etc., are becoming absolutely necessary to the proper drafting of social legislation and in order to deal with the problems of civilization, growing more complex day by day.

As public and private charity work together for the amelioration of conditions among the dependent and neglected, the proper treatment of defectives and the reclamation of the delinquent, the problem is made more difficult of statistical measurement, although the tendency to-day in most parts of Canada is to remove the responsibility of social work from the shoulders of individuals and private agencies and to regard it as more in the nature of a public responsibility. The growth in recent years of the most cordial relationships between governmental bodies and social welfare workers in the fields of school care and child welfare movements is manifested in the number of Child Welfare Acts in force in the various provinces of Canada.

Section 1.—Administration.

In Canada, speaking generally, the administration of public health activities and the establishment and maintenance of institutions is in the hands of the various Provincial Governments, under the powers given them in Sec. 92 of the British North America Act, 1867. Under their control municipalities, societies and individuals generally initiate charitable and humane efforts, depending on the Government to some extent for financial aid and for competent uniform inspection of methods and standards. Apart, however, from the actual organization of Provincial Health Departments and of the administrative bodies charged with the management of hospitals and other such institutions, particular attention is given to the same branches of public health work in all the provinces. Important, and reflecting most clearly the benefits accruing from such work, are the provisions for medical inspection of school children. These are carried out in some cases by the district or

sub-district medical health officers, and in others by public health nurses whose activities are confined to this work alone. In addition to the continual supervision exercised over the health of the children, expert advice and assistance are supplied freely to children, teachers and parents. In many cases dental inspection is provided for. While this work has been carried on upon a considerable scale for only a few years, great benefits have already resulted from it, notably general improvement in health and sanitary conditions and in the control and prevention of epidemics.

Exercising particular jurisdiction over some phases of the general health of the people of the Dominion is the Department of Health of the Dominion Government, while the Dominion Council of Health acts as a clearing house on many important questions related to the health of the people. This Council consists of the Deputy Minister of the Dominion Department of Pensions and National Health as chairman, the chief executive officer of the provincial department or board of health of each province, together with such other persons, not exceeding five, as may be appointed by the Governor in Council to hold office for three years. Of these appointed members, four have in the past represented agriculture, labour, rural women's work and social service, and child welfare, while the fifth member is a scientific adviser on public health matters. (A fuller description of this Council will be found at pp. 908-909 of the 1926 Year Book.)

The public health activities of the Dominion Government were described at pp. 876-879 of the 1932 Year Book, and those of the various Provincial Governments at pp. 879-883 of the same volume. For a brief description of the organization and activities of the Red Cross Society and of the Victorian Order of Nurses, readers may refer to p. 923 of the Year Book for 1922-23. Finally, a statement regarding Mothers' Allowances showing the scales of payments and the methods of administration was published at pp. 935-936 of the 1925 Year Book.

Section 2.—Institutional Statistics.1

The most familiar of all the public institutions established to administer and foster the general health of the community is the general hospital common to all cities and towns of any considerable population, and found also in the more prosperous rural districts. Such hospitals are generally erected and supported by the municipality, their actual administration being in the hands of a board of trustees; their revenue, in addition to that provided by the municipality, is derived in the main from grants from the Provincial Governments, from donations of individuals and societies, and from patients' fees. Admission and treatment are free to all deserving persons who apply for them and whose resources are so limited as to

This section has been revised by J. C. Brady, in Charge of Census of Institutions, Dominion Bureau of Statistics.

prevent their otherwise receiving proper medical attention, while it is more or less generally expected of others that payments for services shall be made in proportion to costs and the ability of patients to defray them. Second in importance are the houses of refuge and orphanages—homes where destitute adults and homeless children are taken in, fed and clothed until they can support themselves or until homes are found for them elsewhere. Orphans' homes are found in practically every urban and rural community of any size, while refuges or homes for the aged are supported by the larger centres and by county municipalities. Asylums for the insane, also found in all the provinces, differ from the foregoing types in that they are in general owned, supported and administered entirely by the provinces. In Nova Scotia, however, the insane of each county, together with the inmates of the refuges and orphanages, are in most instances cared for in one institution. Other institutions supported by the public include: isolation hospitals, maternity hospitals, homes for the deaf, dumb and blind, homes for incurables, infirmaries, homes for epileptics and lazarettos for lepers, and tuberculosis sanatoria.

Throughout the Dominion many other more or less similar institutions exist whose nature is more independent than that of the types mentioned above. These institutions do not receive Provincial Government grants and are not in all cases subject to inspection.

By authority granted by the Dominion Government in 1930, the Dominion Bureau of Statistics, through its newly created branch of Census of Institutions, now collects annual statistics for all hospitals in Canada, including Mental Institutions and Homes for Incurables.

Subsection 1.—Hospitals, other than Mental.

The great majority of hospitals are public hospitals which are either under municipal control or under private boards of management. These hospitals are assisted in their care of indigent patients by municipal and provincial grants. In addition there are: private hospitals which do not receive public grants; hospitals conducted by various religious orders; convalescent hospitals; hospitals for incurables; tuberculosis sanatoria; Red Cross hospitals and out-posts; special hospitals; lazarettos for the segregation and treatment of persons afflicted with leprosy; and hospitals for the treatment of mental and nervous diseases which are, generally speaking, maintained by the provinces. The care of persons suffering from communicable diseases is the responsibility of the various municipalities.

There are also a limited number of hospitals under Dominion Government administration, e. g., those in connection with ex-service men, military forces, marine, quarantine and immigration.

The modern hospital is at once a battlefield between life and death, an institution for the practice of medicine and surgery and, viewed broadly, a financial enterprise which exceeds in magnitude many nation-wide industries. There has been a remarkable growth of public interest in the work of our hospitals in recent years and hospital statistics have become a necessity to the study of certain branches of present-day social economics.

The total number of hospitals, other than mental hospitals and homes for incurables, in operation in Canada during 1931 was 801, of which 454 were general public, 157 general private, 43 Red Cross, 36 Dominion, 31 tuberculosis, 14 Salvation Army, 19 isolation and 47 other (special).

Summary statistics of the hospitals of the Dominion other than mental hospitals and homes for incurables, are presented for 1931 in Table 1, while the bed capacity of the hospitals in each province is given in Table 2, and detailed statistics of staff and patients, receipts and expenditures are shown by provinces in Table 3.

 Summary Statistics of Hospitals in Canada, not including Mental Hospitals and Hospitals and Homes for Incurables, 1931.

Item.	General Public.	All Other,	Total.
	No.	No.	No.
Numbers of hospitals	454	347	801
Bed capacities	35,651	16,378	52,029
Patients admitted	505,655	86,747	592,402
Collective stays of patients in days, (exclusive of infants born in hospitals).	7,527,251	3,882,053	11,409,304
Deaths in hospitals	23,941	3,624	27,565

The total hospital receipts for 1931, of the hospitals included in the above table were \$41,164,135, of which \$33,616,574 was classified as maintenance receipts, including Government and municipal grants amounting to \$14,204,810, patients' fees amounting to \$16,096,583 and receipts from other sources, \$3,315,181.

Expenditures for these hospitals, including those for maintenance and improvement, amounted to \$44,691,305 in 1931, of which \$34,198,010 was classified as expenditures for maintenance. These figures included salaries and wages \$13,995,432, provisions \$7,655,764, fuel, power, light and water \$3,023,994, and other expenditures for maintenance \$9,522,820.

¹A complete liet of all hospitals in Canada giving name, location, type, bed accommodation, etc. will be found in the new Hospital Directory for Canada, 1932, issued by the Dominion Bureau of Statistics.

2.—Bed Capacities of Hospitals, by Provinces, not including Mental Hospitals and Hospitals and Homes for Incurables, 1931.

Province.	General Public.	All Other.	Total.
	No.	No.	No.
Prince Edward Island	180	50	230
	1,335	1,066	2,40
New Brunswick	1,302	600	1,900
	8,411	4,625	13,030
Datario.	11,445	5,821	17, 26
Manitoba.	2,262	1,106	3,36
Baskatchewan.	2,911	1,088	3,99
Alberta	3,476	973	4,441
British Columbia	4,230	1,049	5,279
Northwest Territories and Yukon	99 35,651	16,379	52.029

3.—Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931.

Northwest Territories and Yuken. Hospitals by type. Training schools. Staff— Salaried physicians. Internes. Attending doctors. Graduate nurses. Nursee in training. Total, Personnel	-	Prince Edward Island. Hospitals by type! Training schools. Staff— Salaried physicians. Internes.	No.
Hospitals with— X-Ray Department. Clinical Laboratory. Physical Therapy Department. Movement of Population— (as at June 1st, 1931) Admitted during year. Live births. Total Under Treatment (excl. infants born in hospital). Discharges— (incl. infants born in hospital). Deaths. Collective stay (hospital days) (excl. infants born in hospital). Receipts— Government and municipal grants. Patients fees. Other sources. Total, Receipts. Solisbursements— Salaries, etc. Provisions. Fuel, light, power and water. \$ 1900.	15 - 2 2 2 - 489 29 499 486 32 15,089 20,293 23,462 12,292 265,487 20,938 15,885 3,271 6,586	Attending doctors. Graduate nurses. Nurses in training. Total, Personnel Hospitals with— X-Ray Department. Clinical Laboratory. Physical Therapy Department. Movement of Population (during 1931)— Admitted during year Live births Total, Under Treatment (excl. infants born in hospital). Discharges (incl. infants born in hospital). Deaths. Collective stay (hospital days) (excl. infants born in hospital). Days' treatment to indigent patients? Government and municipal grants. Patients fees. Other sources. Total, Maintenance Beceipts. Salaries, stc. Provisions. \$ Fuel, light, power and water. \$ All other.	3, 366 11: 3, 366 3, 32: 3, 153 3, 38: 11: 36, 77; 2, 945 8, 900 73, 345 15, 35; 96, 636 13, 436 127, 566 13, 436 26, 213 26, 213

¹Also one tuberculosis hospital, opened in May 1931 and not reporting for that year. ²Figures in parentheses opposite days' treatment to indigent patients indicate number of hospitals reporting under this item. ³No report.

3.—Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931—continued.

Province and Item.	General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis.	Isola- tion.5	Do- minion.	Other.
Nova Scotia.	No.	No.	No.	No.	No.	No.	No.	No.
Hospitals by type	22	2	-	2	31	16	62	1
Training schools	13	2	-	2	-	-	-	1
Staff — Salaried physicians Internes Attending doctors Graduate nurses Nurses in training	3- 16- 318 115- 274	- 3 34 17 40	-	- 2 25 13 24	5 8 1 13	-	20 - - 16 -	3 13 7 13
Totals, Personnel	824	84	-	62	168	-	176	36
Hospitals with— X-Ray Department Clinical Laboratory Physical Therapy Department	20 15 4	2 1	-	-	1 1	-	1 2	1 1 1
Movement of Population (During 1981)— Admitted during year.	19,716	1,282	-	1,008	170	-	2,599	899
Live births	1,248	353	-	756	-	-	- 1	
Tetals, Under Treat- ment (excl. infants born in hospital) Discharges (incl. in- fants born in hospi- tal) Deaths Collective stay (hosp- ital days) excl. in-	20,296 20,345 714	1,290 1,475 57	- ·	1,0 69 1,740 33	448 165 25	- -	2,765 2,632	8 52 834 57
fants born in hospital) Days' treatment to in-	276,327	14,741	-	13,508	81,473	-	59,076	16,906
digent patients	(9) 4,933	(1) 211	- ;	(1)2,487	-	-	-	
Receipts (Maintenance)—; Government and municipal grants	186,352 446,707 187,825	57, 081 6, 283	-	2,500 32,501 3,722	204,840 54,034 9,319	-	1,030°	14,546 8,855 7,701
Totals, Maintenance Receipts \$	820,884	63,361	_	38,723	263,193	_	1,636	31,102
Disbursements (Maintenance)— Salaries, etc. \$ Provisions \$ Fuel, light, power and water \$	325, 5 54 224, 5 30 91, 602	15,789 24,481 7, 5 47	-	17,384 11,017 8,812	109, 163 107, 338 35, 480	<u>-</u> -	144, 961 33, 778 18, 195	13,087 8,512 2,737
All other\$	291,047	28,395	-	17,707	40,895	-	16,424	8,238
Totals, Maintenance Expenditures \$	932,733	74,212	-	54,920	292,876	-	213,358	32,574
Gross Receipts \$ Gross Expenditures \$	966,555 1,027,132	88, 132 79, 439	-	40,450 54,919	275,455 402,704	-	1,030 213,358	37,330 32,574

¹City Tuberculosis, Halilax, did not report.
²Dominion hospitals include—pensions 1, military 1, quarantine and immigration 2 (1 had no cases), marine 2 (no cases).
³ Figures in parentheses opposite days treatment to indigent patients indicate number of hospitals reporting under this item.
⁴ Receipts only for two quarantine and immigration hospitals. Expenses for Dominion hospitals borne by Departments of Dominion Government.
⁴ No report.

 Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931—continued.

							 	
Province and Item.	General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis.	Isola- tion.	Do- minion.	Other.
New Brunswick.	No.	No.	No.	No.	No.	No.	No.	No.
Hospitals by type	16	4	12	1	23	-	44	
Training schools	13		-	1	t		- !	-
Staff— Salaried physicians Internes Attending doctors Graduate nurses Nurses in training	7	- 18 9	! (! ! !	- 32 5 11	7 13 33 13		9 - 9	
Totals, Personnel	763	19	-	20	162	-	39	
Hospitals with— X-Ray Department Clinical Laboratory Physical Therapy Department	15 14 10	1 -	-	11	2 2 2	-	1 2	
Movement of Population (during 1931)— Admitted during year.	14,8991	591		275	339	-	827	
Live births	976	15		267	-	-	-	
Totals, Under Treat- ment (excl. infants born in hospital) Discharges (incl. in- fants born in hospi- tal)	15, 591 15,201	595	***	275 557	669 348	-	\$ 97	
Deaths. Collective stay (hospital days) (excl. infants born in hospital). Days' treatment to	644 196,310	21 5,567	-	3,243	53 117,430		3,535	
Indigent patients	(9) 11,161	(1) 156	-	(t) 231	(1) 1,853	_	_	
Receipts (Maintenance)— Government and municipal grants \$ Patients fees \$ Other sources \$	210,897 481,045 58,604		-	1,713 10,535 3,112	310,916 30,636 18,440	-	=	
Totals, Maintenance Receipts \$	758,546	6	_	15,360	359,992	_	_	
Disbursements (Main- tenance)—				·				
Salaries, etc\$ Provisions\$ Fuel, light, power and	165,298	6 6	=	4,816 3,315	92,412	-	52,752 13,470	
water\$ All other\$	95,948 217,966	6	-	2,528 2,437	19,826 53,531] =	3,546 8,427	-
Totals; Maintenance Expenditures \$	724,025	6	-	13,096	285,055	-	78,195	
Gross Receipts \$ Gross Expenditures \$	816,921 2,080,446	6	-	15,496 14,018	359,992 359,779	=	78, 195	

¹ Movement of population for 2 hospitals not included. ² Destroyed by fire, November 1, 1931. No report. ³Fire destroyed 3 pavilions for patients Dec. 8, 1931. ⁴Dominion hospitals include: 1 pension, 2 quarantine and immigration (1 had no cases), and 1 leper hospital. ⁵ Figures in parentheses opposite days' treatment to indigent patients indicate the number of hospitals reporting under this item. ⁵ Financial figures not available.

Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931—continued.

Province and Item.	General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis.	Isola- tion.	Do- minion.	Other.
Quebec.	No.	No.	No.	No.	No.	No.	No.	No.
Hospitals by type	541	18	-	1	7	32	53	164
Training schools	34	2	-	1	-	2	- إ	5
Staff— Salaried physicians Internes Attending doctors Graduate nurses Nurses in training	140 190 1,416 656 1,688	14 1 64 32 29	-	- 8 8 12	18 8 16 39	7 16 14 42 42	15 - 10 36 -	20 10 169 69 119
Totals, Personnel	7,095	148	-	33	428	206	250	389
Hospitals with— X-Ray Department Clinical Laboratory Physical Therapy Department	48 37 31	6 4 3	-	-	6 6 4	1	-	6 10
Movement of Population (during 1931)— Admitted during year.	94,169	2,783	_	705	1,464	1,555	973	7,347
Live births,	7,797	593	_	623		-	1	35
Tetals, Under Treat- ment (excl. infants born in hospital) Discharges (incl. in- fants born in hospi- tal) Deaths	96,6 84 95,709 4,914	2,833 2,610 78	-	726 1,337	2,384 1,182 211		,	7,418 6,283 254
Collective stay (hospi- tal days) (excl. in- fants born in hospi- tal)	1,927,561	43,461 (3) 2,575	- ! -	16,727	349,868 (3) 4,935		i .	246,652 (5) 28,204
Receipts (Maintenance) Government and municipal grants. \$ Patients fees. \$ Other sources. \$	2,145,410 2,460,933		-	1,467 38,294 2,332	523,173 156,186 75,117	136,902 3,389	-	194,569 106,687 87,122
Totals, Maintenance Receipts \$	5.776.955	207,708	_	42,093	754,476	 144, 158	_	388,378
Disbursements (Maintenance)— Salaries, etc	1,422,802 1,720,594 367,537	=		16,028 9,634 4,802 13,748	235,081 191,412 105,296	30,802 25,842 12,011	286,801 83,541 51,346	83,925 39,000
Totals, Maintenance Expenditures \$	5,498,670			44,312	741,45°	199,197	489,614	519,612
Gross Receipts 8 Gross Expenditures 8	9.041.298	207,708		44,212 44,212	854,711	144,158 109,107	491.390	798,638 795,288

Three hospitals did not report. *Movement of population and financial report of one hospital not available. Dominion hospitals include 1 pansion, 2 military, 2 quarantine and immigration (1 had no cases). Includes: 2 industrial, 2 nervous diseases (1 did not report expenses) 1 cancer, 1 eye, ear, nose and throat (no financial report), 5 convalescent, 1 orthopædic, 4 pædiatric (1 did not report on finances). Figures in parentheses opposite days' treatment to indigent patients indicate number of hospitals reporting under this item. Three hospitale did not report patients' leas.

3.—Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931—continued.

Province and Item.	General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis,	Isola- tion,	Do- minion.	Other.
Ontario.	No.	No.	No.	No.	No.	No.	No.	No.
Hospitals by type	115	37	23	5	12	71	8 2	13*
Training schools	84	4		3	1	2	_	2
Staff— Salaried physicians Internes Attending doctors Graduate nurses Nurses in training	84 214 3,168 987 3,499	7 418 93 31	- - 41	1 182 37 104	39 11 47 75 47	5 5 13 35 149	47 3 40 82	11 16 224 59 147
Totals, Personnel	8,485	284	41	236	1,135	196	406	658
Hospitals with— X-Ray Department Clinical Laboratory Physical Therapy De- partment	99 68 46	6 4	3	1 3 -	10 10 6	2	3 4 2	6 5 2
Movement of Population (during 1931)— Admitted during year	175,554	4,867	3,062	4,460	2,418	1,746	4,776	8,893
Live births	22,311	1,122	562	1,958	2		70	5
Totals, Under Treat- ment (excl. infants born in hospital) Discharges (incl. in- fants born in hospit-	164,915	4,892	3,136	4, 463	4,643	2,811	5,711	8,981
al) Deaths Collective stay (hospital days) (excl. infants	188,392 9,142	5,438 104	3,469 130	6,460 172	2,071 429	2,786 83	4,862 111	7,868 703
born in hospital) Days' treatment to indigent patients ⁴	2,259,739 (63) 51,970	42,966 (6) 780	29,323	54,139 (5)2,536	840,081 (9) 33,805	73,634	330,684	169,767 (1) 329
Receipts (Maintenance)- Government and municipal grants. \$ Patients fees. \$ Other sources. \$	2,749,007 6,331,157 894,107	150,489 ⁵ 21,870	38, 260 86, 252 40, 530	32,883 176,838 14,934		259,155 ⁷ 28,380	- - -	269,389 ⁴ 142,759 41,007
Totals, Maintenance Receipts \$	9,474,271	172,359	165,042	224, 155	1,947,252	287,535	_	4 53, 155
Disbursements (Mainten- ance)—								
Salaries, etc	3,134,154 1,548,286		22,705	88,930 53,325	475,067	46,138	589, 177 151, 327	307,976 116,205
water \$ All other \$	638,700 2,193,682		122,627	28,326 51,367	169,592 496,215	21,159 28,717	62,793 123,487	51,371 178,506
Totals, Maintenance Expenditures \$	7,514,772		145,332				926,784	654,658
Gross Expenditures \$	10,616,255 8,830,713	179,083 196,343	173,208 145,332	234,106 229,197	2,267,091 1,976,884	244,580		575,879 660,034

Dundas Isolation and Hopewell Smallpox, Ottawa, no cases. Dominion hospitals include—2 pensions, 5 military (2 no report), 1 Indian Affairs. Includes: 2 pxdiatric, 1 orthogedic, 5 convalescent, 3 industrial and 2 special. Figures in parentheses opposite days treatment to indigent patients indicate number of hospitals reporting under this item. Nine hospitals did not report patients less, 30 did not report other sources, 8 did not report total receipts and 8 did not report total expenditures. Included in "All other expenditures". Parantord Isolation Hospital's financial statistics included in Brantford General Hospital report.

3.—Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931—continued.

	·- · <u>-</u>							
Province and Item.	General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis.	Isola- tion.	Do- minion,	Other.
Manitoba.	No.	No.	No.	No.	No.	No.	No.	No.
Hospitals by type	28	2	5	1	1	2	31	32
Training schools	15	-	-	1		2	-	1
Staff— Salaried physicians Internes Attending doctors Graduate nurses Nursee in training	29 57 747 194 704	2 - 9 6	-	3 4 14 18 36	6 - 22 -	3 - 11 29 136	17 1 14 19	4 8 85 19 46
Totals, Personnel	1,643	12	5	83	160	163	77	122
Hospitals with— X-Ray Department Clinical Laboratory Physical Therapy Department	22 12]] -	. <u>-</u>	1 1 -	1 1 1	1 2	2 2 2	2 2 2
Movements of Population (during 1931)— Admitted during year.	42,786	614	4,7243		277	2,173	l	2,793
Live births	4,890	133	90	1,047	-	6	19	
Tetals, Under Treat- ment (excl. infants born in hospital) Discharges (incl. in- fants born in hospit-	43, 422	614	24	3,011	558	2,356		2,883
al)	43,649 1,459	605 13	-	3,099 87	287 41	2,079 131		2,750 57
al)	549,215	5,862	-	42,693	100,570	98,506	54,120	47,860
digent patients	(14) 14,498	(1) 30	-	(1) 172	-	(1) 350	-	(2) 12,687
Receipts (Maintenance)— Government and municipal grants	813,104 802,486 111,783	9,794 262	5,00) 	31,556 45,506 7,148	231,552 33,218	88,800 17,866 798	-	81,641 11,902 72,060
Totals, Maintenance Receipts \$	1,727,373	10,056	5,735	84,210	264,770	107,464		115,603
Disbursements (Mainten-	' '	·	. !					
ance)— Salaries, etc\$ Provisions\$ Fuel, light, power and water	777,619 282,766 170,377	6,189 8,037 1,093	8,006	29,859 26,894 11,199	110,590 59,110 24,391	114,247 53,018 53,917	85,392 28,562 9,135	83,500 27,066 15,975
All other \$	404,840	3,956	1,226	46,134	89,421	71,620		69,529
Totals, Maintenance Expenditures \$	1,635,102	14,275	9,232	114,086	283,512	292,802	165,368	196,070
Gross Receipts \$ Gross Expenditures \$	1,860,525 1,888,935	11,430 14,275	7,060 9,232		422,773 393,405	107,964 397,970	167,632	166, 179 200, 467

^{*}Dominion hospitals include: 1 pension, 1 military, and 1 Indian Affairs. *Includes 1 pendiatric, 1 orthopaedic, and 1 convalescent. *Nursing stations only. Figures give number attended. *Figures in parentheses opposite days' treatment to indigent patients indicate number of hospitals reporting under this item.

3.—Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931—continued.

			Jean I				<u>-</u>
General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis.	Isola- tion,	Do- minion.	Other.
No.	No.	No.	No.	No.	No.	No.	No.
621	362	12	1	3	-	13	24
16	-	-	-		-	-	-
13 16 568 315 604	- - 55 36	- 15 21 -	5 4	13 4 16 48	-	3	1 54 22
1,754	76	\$1	6	337	-	8	75
46 34 15	4 1 1	1 1	-	3 3 3	-	1	
44,815 5,799	1,292° 410	1,345 497	148 92	4,735 6	=	118 30	309 75
45,313	1,306	1,354	179			128	301
48,181 2,424		1,813 87	276 1	4,798 142	-	136	352 8
602,800		18,629 ⊬	13,018	293,485 -	-	7,843	10,939
597,490 965,332 320,480	20,071 ⁷ 1,246	16,230	-	18,465		-	6,060 1,343 2,416
1,883,342	21,317	33,581	*	313,76 8	-	-	9,819
692,671 358,311 222,421 471,269] 	25,777 - 13,218	- - -	143,978 77,689	-	3,861 2,989 496 2,181	8,078 2,745 1,659 3,946
1,744,672	_	38,995		778,413	-	\$,517	16,428
2,521,392			B.	313,768	-	12,923	20,767 16,428
	Public. No. 62 ¹ 36 568 315 604 1,754 46 34 15 44,815 5,799 45,313 48,181 2,424 602,800 (24) 22,144 597,490 965,332 320,480 1,883,342 692,671 358,311 222,421 471,269 1,744,672 2,521,392	General Public. Private Maternity. No. No. No. 622 362 166 - 13	General Public. Private Maternity. No. No. No. No. No. 621 362 12 36 368 55 15 36 604 315 36 21 604 - 1,754 76 31 15 1 - 44,815 1,292 1,345 5,799 410 497 45,313 1,306 1,354 48,181 1,748 38 37 602,800 12,811 18,629 965,332 20,071 32,320,480 1,246 1,378 1,883,302 21,317 33,581 692,671 - 25,777 358,311 - 222,421 471,269 - 13,218 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,905 1,744,672 - 38,9	General Public. Private and Private Maternity. No. No. No. No. No. No. No. No. No. No.	General Public. Private And Private And Private Maternity. No. No. No. No. No. No. No. No. No. No.	General Public. Private and Private Maternity. Red Cross. Salvation Army. Tuber-culosis. Isolation. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Comp

¹⁸t. Joseph's Hospital, Prelate. Sask., closed April, 1932. No report. One general private hospital did not report. Department of Indian Affairs hospital. One maternity and 2 pædiatric. Two general private hospitals did not report movement of population. Figures in parentheses opposite days treatment to indigent patients indicate number of hospitals reporting under this item. Fourtean hospitals did not report patients' fees, 15 did not report total receipts and 19 did not report total expenditures.

3.—Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1831—continued.

Province and Item.	General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis,	Isola- tion.	Do- minion.	Others.
Alberta.	No.	No.	No.	No.	No.	No.	No.	No.
Hospitals by type	77	411	-	2	1	52	53	84
Training achools	12	-	-	-	-	1	-	
Staff— Salaried physicians Internes Attending doctors Graduate nurses Nurses in training	18 34 790 399 722	3; -63 21	-	- - 95 9	4 3 79	1 112 5 7	- - 18	5 6 7 1
Tetals, Personnel	2,087	78	-	22	107	16	72	15
Hospitals with— X-Ray Department Clinical Laboratory Physical Therapy Department	51 37 16		- -	-	1 1 	_ 1 -	1 2 3	1 1 1
Movement of Popula- tion (during 1931)— Admitted during year. Live births	52,981 7,650	877 362	<u>-</u>	640 467	203 -	151	2,563 71	95s ~
Totals, Under Treat- ment (excl. infants born in hospital) Discharges (incl. in- fants born in hospit-	55,305	877	-	671	203	171	2,701	124
al)	58,413 1,977	1,137 23	-	1,052 12	165 36	162 4	2,591 44	71 2
Days' treatment to in- digent patients	725,040	-	-	14,470 (2)9,791	74,728 -	3,972 -	57,438	11,599
Receipts (Maintenance)- Government and muni- cipal grants	1,013,468 1,173,776	305 12,820 ¹	- -	7,293 12,680 6,668	83,751 5,243	1,918 663		10,207 1,343 6,946
Totals, Maintenance Receipts\$	2,448,032	13,477	_	26, 6 41	88,994	2,581		18,496
Disbursements (Maintenance)— Salaries, etc	491,198 212,527	6,684 ⁷ 4,939 ⁷	11 11	10,914 6,432 2,109 7,799		4,691 2,043	22,397 9,108	3,136 1,117
Totals, Maintenance Expenditures 4	2,305,458	28,117	-	27,254	187,058	36,895	121,502	19,733
Gross Receipts Gross Expenditures	2,524,308 3,039,716	26,519 ⁷ 28,837 ²] :	26,641 28,454				18,496 19,733

¹Five hospitals no report. One no cases, 1 included in report of Royal Alexandra, Edmonton. ³Includes 1 pension, 4 Indian Affairs. ⁴Includes 1 orthopædic, 1 industrial, 1 convalescent. ⁵Industrial hospital did not report movement of population or financial standing. ⁶Figures in parentheses opposite days treatment to indigent patients, indicate the number of hospitals reporting under this item. ⁷Twenty-one hospitals did not report patients fees, 8 did not report expenditures, 1 reported total receipts only.

3.—Hospital Statistics, by Provinces, with Movement of Hospital Population and Financial Statistics, calendar year 1931—concluded.

Province and Item.	General Public.	General Private and Private Matern- ity.	Red Cross.	Salva- tion Army.	Tuber- culosis.	Isola- tion.	Do- minion.	Other.
British Columbia.	No.	No.	No.	No.	No.	No.	No.	No.
Hospitals by type	681	17²	2	ı	1	13	44	95
Training schools	15	-		-	. ,	-	-	
Staff— Salaried physicians Internes. Attending doctors. Graduate nurses. Nurses in training.	61 40 816 528 830	- 104 24	- - 4 5	142 6	5 - 5 32 12	<u>-</u>	6 1 2 22	1 - 14 12
Totals, Personnel	2,696	51	9	46	200	-	106	63
Hospitals with— X-Ray Department Clinical Laboratory Physical Therapy Department	58 28 15	2 1	_1	- 1 -	1 1	-	1 3	
Movement of Population (during 1931)— Admitted during year. Live births	57,289 5,978	9146 344	433 68	889 850	241 -	<u> </u>	1,793	336
Totals, Under Treat- ment (excl. infants born in hospitals) Discharges (incl. in- fants born in hospit-	57,978	967	433	911	56 8	-	1,926	367
als). Deaths. Collective stay (hospital days) (exel. infants born in hospit-	59,351 2,530	1,189 66	427 17	1,761 16	237 50	=	1,737 53	179 18
als)	943,687	19,480	4,998	11,621	120,654	-	52,778	37,867
digent patients7	(25) 30,300	(4) 7,696	-	(1)2,786	(1) 7,539	-	-	(9) 9,283
Receipts (Maintenance)- Government and municipal grants 3 Patients' fees 5 Other sources 3	1,623,263 1,540,763 196,230	8 34,538 18,786	4,158 2,778	41,808 1,271	348,642 3,863	- - -	1,8059	27,218 38,011 9,749
Totals, Maintenance Beceipts\$	3,369,256	53,319°	6,936	43,079	352,505	_	1,805	74,978
Disbursements (Maintenance)— Salaries, etc. \$ Provisions. \$ Fuel, light, power and water. \$ All other. \$	1,782,543 682,794 253,285 883,280	25,580% 14,954* 4,883* 8,817*	4,404 2,452 2,627 1,782	21,484		<u>-</u>	163,116 28,614 17,725 24,304	34,581 17,311 4,776
Totals, Maintenance Expenditures 3	3,601,902	51,2348	11,265	\$1, 6 81	313,214	_	233,759	82,586
Gross Receipts \$ Gross Expenditures \$	4,113,857	53,3198	9,330 13,765	46,974 66,402	353,505 353,505	-	1,805 235,177	96,403 81,593

Three hospitals did not report. *One general private hospital did not report. *Closed during 1931.

*Includes 1 pension, 1 military, I quarantine and immigration, I leper. *Includes 2 orthopedic, 7 convalescent (1 no report.) *One private maternity did not report movement of population. *Figures in parentheses opposite days' treatment to indigent patients indicate number of hospitals reporting under this item. *Three hospitals did not report financial standing. *Receipts from quarantine and immigration hospital.

Out-Patient Departments.—Out-patient departments as here reported include those institutions where medical or surgical treatment may be obtained either gratuitously or for a nominal fee, but which do not receive resident patients

Out-patient departments, or clinics, are operated independently or in connection with a hospital, medical college, university or other institution. The dispensary or clinic in connection with a hospital is generally the out-patient department of the hospital, and treats patients who do not occupy beds in the hospital. Sometimes, however, the out-patient department is kept distinct from the hospital and is a separate institution with its own staff, etc. The extension of out-patient services to patients of modest means has far-reaching and beneficial effects. It may replace admission to a hospital, or may serve to secure necessary and beneficial hospitalization. As a general rule, out-patient departments are subsidized from the funds of the general hospital and separate records are not kept. Until a uniform system of accounting is adopted, it is not possible to give the average cost per patient.

4. Out-Patient Departments in connection with Hospitals, together with Patients Treated, calendar year 1931.

Province.	No. of Hospitals		of Patients T tient Depart		Number of Treatments Given in
	with Out- Patient Depart- ments.	Pay.	Free.	Total.	Out- Patient Depart- ments.
Nova Scotia. New Brunswick. Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia.	48 40 18	141 1,357 167,845 19,360 2,681 1,124 3,023 6,156	3,168 1,183 224,022 127,167 61,984 2,684 16,447 38,737	3,309 8,0081 414,3742 146,467 64,665 3,808 21,6883 44,893	869,042 479,550 137,355 8,914
Canada	191 4	201,627	475,392	707,2125	1,620,472

Including 5,468 patients not classified. Including 22,567 patients not classified. Including 2,218 patients not classified.

⁴ Two out-patient departments in Nova Scotia, 7 in Quebec, 5 in Ontario, 2 in Manitoba, 6 in Saskatchewan, 4 in Alberta and 5 in British Columbia kept no records of patients.

*See footnotes 1, 2 and 3.

Subsection 2.—Mental Hospitals.

Census statistics regarding number of insane and feeble-minded in Canada were first made in connection with the decennial census of 1871, and general data were collected under the heading: "people of unsound mind" The census of 1911 gave the number of insane and "idiotic" persons in Canada as 13,355, and a yearly report for that year showed 9,671 patients in mental institutions. In 1921 figures concerning the number of patients in mental hospitals gave the number of insane as 21,516. Very little reliance can be placed on the figures before 1921, as the information was collected for patients in provincial mental hospitals only, and did not include a large number of insane and feeble-minded in other institutions.

The Census of Mental Institutions of Canada was made a special feature of the decennial census of 1931, seven special schedules being used in the survey. Special features of the census were: separate classification of first admissions from re-admissions; classification of resident patients with particular reference to mental diagnosis; collection of data re ex-service men; urban and rural data; paroles; administrative personnel; values and acreages of hospital plants, etc.

The total number of institutions caring for the insane in 1932 was 59, including 34 public hospitals for the insane, 4 private hospitals for the insane, 5 public hospitals for the feeble-minded, 10 county asylums, 3 private institutions for children of retarded mental development and 3 psychiatric hospitals for the insane.

Of the above 59 institutions, 56 reported as to staff and patients, and 53 regarding their finances. Statistics of capacity, staff and finances are presented by provinces in Table 5, and statistics of the movement of patient population in Table 6.

 Statistics of Capacity, Staff and Finances of Mental Institutions in Canada, by Provinces, 1932.

Item.	Prince Edward Island.	Nova Scotia.	New Bruns- wick.	Quebec.	Ontario,
	No.	No.	No.	No.	No.
Numbers of institutions ^t	300	17 ¹ 1,951	900 900	9 8,875	16 11,661
Doctors—Full time	-	4 16	2 1	55 16	110 13
Graduate nurses. Other nurses. Totals, Staff.	9 58	27 50 321	45 84	167 711 1, 609	281 572 2,734
Institutions reporting financial standing Receipts—	1 = 200	17	1	82	142
Government and municipal grants	3,210 1,070	459,541 20,223 3,791 483,555	177,382 30,180 197 207,759	1,648,946 363,056 458,391 2,470,3932	
Expenditures— Salaries		189,050	53,067	526,978	2,280,682
Provisions	82,975 82,975	122,279 150,832 462,161	61,847 92,845 207,759		633,594 1,685,514 4,599,790
New buildings and improvements	_	12,847 6,341 481,349	2 0 7,759	444,569 263.677 2,462,064 2	3,543 4,603,333 ²
Item.	Manitoba.	Sas- katche- wan.	Alberta.	British Colum- bia.	Canada.
	No.	No.	No.	No.	No.
Numbers of institutions!	2, 217	2,450	3 1,875	2,685	56 ¹ 32,910
Doctors—Full time	15	8	10	12	207
_ " Part time		_	- 1	2	48
Graduate nursesOther nurses	54 107	- 7 92	29 72	2 25 113	48 588 1,771
Graduate nurses	- 54	- 7	29	2 25	48 588 1,771 6,605 53 ²
Graduate nurses Other nurses Totals, Staff. Number of institutions reporting financial standing. Receipts— Government and municipal grants. Fees from paying patients.	- 54 107 526 3 754,352 63,296	7 92 403 2 707, 407 99, 480	797, 635 108, 317	2 25 113 526 4 1,381,396 178,520	48 588 1,771 6,605 53 ² 9,120,721 1,881,852
Graduate nurses Other nurses Other nurses Totals, Staff Number of institutions reporting financial standing Receipts— Government and municipal grants Fees from paying patients Received from other sources Totals, Receipts	754,352 63,296 21,077	7 92 403 2 707, 407	797, 635	2 25 113 524 4 1,381,396 178,520 404	48 588 1,771 6,605 53 ² 9,120,721
Graduate nurses Other nurses Other nurses Totals, Staff Number of institutions reporting financial standing Receipts— Government and municipal grants Fees from paying patients. Received from other sources Received from other sources \$ Expenditures— Salaries \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	754,352 63,296 21,077 838,725	7 7 92 403 2 707, 407 99, 480 41, 710 848, 597 386, 397	797, 635 103, 317 61, 453 962, 445	2 25 113 526 4 1,381,396 178,520 404 1,569,329 452,808	48 588 1,771 6,605 532 9,120,721 1,881,852 1,128,462 12,131,035 ² 4,771,871 1,970,406
Graduate nurses Other nurses Other nurses Totals, Staff Number of institutions reporting financial standing Receipts— Government and municipal grants. Fees from paying patients. Received from other sources. Totals, Receipts. Expenditures— Salaries. Provisions. All other expenditures for maintenance.	754,352 63,296 21,077 838,725 386,688 182,870 244,923	77 92 403 2 707, 407 99, 480 41,710 848,597 386,397 148,627 286,994	29 72 344 3 797, 635 108, 317 61, 453 \$62, 445 496, 221 99, 999 233, 328	2 25 113 526 4 178,520 404 1,560,330 452,809 260,809 317,990	9,120,721 1,881,852 1,2131,685 4,771,871 1,881,852 1,128,462 4,771,871 1,970,406 3,841,880
Graduate nurses Other nurses Other nurses Totals, Staff Number of institutions reporting financial standing. Receipts— Government and municipal grants Fees from paying patients. Received from other sources Totals, Receipts. Expenditures— Salaries Provisions.	754,352 63,296 21,077 838,725 386,668 182,870 244,923 814,461 7,309 17,956	77 92 403 2 707, 407 99, 480 41, 710 848, 597 386, 397 148, 627	29 72 344 3 797, 635 103, 317 61, 453 562, 405 496, 221 99, 999	2 25 113 526 4 4 1,381,396 178,520 1,569,330 452,808 260,809 1,031,607 520,992	9,120,731 9,120,731 1,881,852 1,128,462 12,131,635 ² 4,771,871 1,970,406 10,584,137 1,146,107 293,910

¹Halifax City Home, Halifax, N.S., and Manitoba Psychopathic Hospital, Winniper, Man., did not furnish reports.

furnish reports.
The Ste. Anne's Hospital, Ste. Anne de Bellevue, Que., The Ontario Hospital, Guelph, Ont., and the Westminster Psychopathic Hospital, London, Ont., could not furnish separate financial reports.

Movement of Patient Population in Mental Hospitals of Canada, by Provinces, 1932.

Itom.	Prince Edward Island	Nova Scotia.	New Bruns- wick.	Quebec.	Ontario.
	No.	No.	No.	No.	No,
Institutions reporting	1	17	1	9	16
Normal capacities	300	1,951	900	8,875	11,661
Patients at Jan. 1—					
Incane Mental deficients (without psychosis)	242 8	1,332 258	766 81	7,508 2,225	9,582 1,814
Epileptics (without psychosis)		1,590	847	9,872	224 11,620
Admissions:—					
First admissions: Insane	41	273	121	1,666	2,663
Mental deficients (without psychosis) Epileptics (without psychosis)	4	30	14	402 26	359 65
Totals	45	303	135	2,094	3,087
Readmissions:	37	194	45	378	635
Mental deficients (without psychosis)	7	111	-	31	30
Epileptics (without psychosis)	44	115	45	410	669
Transfers:		23		36	308
Insane Mental deficients (without psychosis)	-	20	_	51	47
Epileptics (without psychosis)	= =	23		88	358
Totals, Admissions:	78	410	166	2,080	3.601
Mental deficients (without psychosis)	ii	31	14	484	436
Epileptics (without psychosis)	89	441	189	2, 592	4,114
Separations—					
Discharges: Insane	43	325	60	1,004	2,249
Mental deficients (without psychosis) Epileptics (without psychosis)	5	8 -	1 -	49	77
Totals	48	333	61	1,059	2,349
Transfere: Insane		14	_	28	332
Mental deficients (without psychosis)		3	-	60	26
Epileptics (without psychosis)	-	23	_	88	358
Deathe:					
Insane Mental deficients (without psychosis)	27	105 10	63 6	646 78	745 60
Mental deficients (without psychosis) Epileptics (without psychosis) Totals.	29	115	69	728	23 828
Totals, Separations:					
Insane	70	444 27	123 7	1,678 187	3,326 163
Epileptics (without psychosis)	27	471	130	1,875	46 3,535
PATIBNIS AT DEC. 31:—					
Insane	250 12	1.298 262	809 88	7,910 2,522	9,857 2,087
Epileptics (without psychosis)			,	157	255

¹The Halifar City Home, Halifax, N.S., and the Manitoba Psychopathic Hospital, Winnipeg, Man., did not furnish reports.

 Movement of Patient Population in Mental Hospitals of Canada, by Provinces, 1932—concluded.

Item.	Manitoba.	Sas- katche- wan.	Alberta.	British Colum- bia.	Canada.
	No.	No.	No.	No.	No.
Institutions reporting ¹	2,217	2,450	1,875	2,685	32,910
Insane	435	1,940 425	1,476 238	2,397 876	27,093 5,860
Epileptics (without psychosis)	2,285	2,365	1,757	2,773	406 33,359
A DMISSIONS:— First admissions:			-	ļ	
Insane	153 - 56	428 32	381 42 2	498 51	6.224
Totals	209	460	425	549	7,307
Insane Mental deficients (without psychosis)	193 3	160 6	91 4	137 9	1,790 91
Epileptics (without psychosis)	196	166	95	146	1,886
Insane	1	_	117 10		479 109
Epileptics (without psychosis)	1	-	127		9 597
Totals, Admissions: Incane	346 60	588 38	589 56	635 60	8,493 1,190
Epileptica (without psychosis) Grand Totals		626	847	695	9,790
Separations:— Discharges;				İ	i
Insane	119	266	296	348	4,710 208
Mental deficients (without psychosis) Epileptics (without psychosis)	21 140	12 - 278	18 1 315	17 - 365	30 30 4.948
Transfers;	1 170	2.10			
Insane	ī		120 6	=	494 112
Epileptics (without psychosis)	1	=	127		597
eaths: Insane Mental deficients (without psychosis)	121 : 12	139 13	68 7	176 16	2,090 204
Entleptics (without psychosis)		15 15	79	192	31 2,325
Totals	133				'
Insane	240 84	405 25	484. 31	524 38	7,294 514
Epileptics (without psychosis)	2741	430	6 521	557	7,974
Patients at Dec. 81:—	1.956	2,123	1,58[2.508	28,292
Insane	461	438	263 39	403	6,536
Totals, Patients	2,417	2,561	1,883	2,911	35,279

The Halifax City Home, Halifax, N.S., and the Manitoba Psychopathic Hospital, Winnipeg, Man., did not report.

Subsection 3.—Child-Caring Institutions, Refuges for Adults, Homes for Incurables, etc.¹

Although homes for incurables supply maintenance, nursing, medical and surgical aid to persons suffering from chronic and incurable diseases, the nature of the services given is such as to call for a special tabulation. Many hospitals for incurables care not only for those suffering from incurable diseases but also for the aged and indigent, and some even take care of orphans of both sexes.

¹For census material on child-caring institutions, day nurseries and refuges for adults, see 1932 Year Book, pp. 893-895.

In the case of general hospitals the service given both on economic and humanitarian grounds is to restore the patient to working efficiency in the community, as soon as possible. The hospital or home for incurables looks after the patient whose affliction is of a more or less permanent nature incapacitating him from any possibility of earning a living. The movement of population is necessarily slow, discharges being generally due to death. The class of care given differs from that given in general hospitals, owing to the fact that the inmates tend to become institutionalized and need the care of a physician less frequently.

Summarized statistics of the 19 homes and hospitals for incurables reporting for 1931 will be found in Table 7.

7.—Summary Statistics of Homes and Hospitals for Incurables, 1931.

Norn.—Besides these hospitals and homes which are strictly for incurables there are thirteen institutions in the province of Quebec which, although not hospitals for incurables, undertake the care of them.

Item.	New Bruns- wick,	Quebec.	Ontario.	Sas- katche- wan.	Alberta.	British Colum- bia.	Canada.
Numbers of institutions Bed capacities	No. ! 35	No. 6 986	No. 61 826	No. 2 156	No. 3 155	No. 1 180	No. 19 2,338
Salaried physicians Graduate nurses Total personne! Averages, patients per day Admitted during 1931 Totals under treatment during	1 12 34 8	7 4 541 721 365	5 57 360 742 322	1 2 32 152 43	19 131 63	1 4 40 177 65	14 68 1,004 1,957 866
1981	34	888	1,047	195	198	245	2,607
1931 Deaths during 1931	1 8	254 102	92 215	19 25	36 26	26 45	428 421
1931Patients paying wholly for	12,410	260,676	270,454	54,926	45,759	64,672	708,897
Patiente paying part main-	11	265	249	34	8	14	581
tenance. Patients who received free care but were paid for by provincial, municipal and other funds. Indigent patients not recognized by any municipality	9 14	117 325 181	148 616 34	16 99 46	6 176 8	10 155 66	306 1,371 349
Receiers— Government grants and public maintenance re-							
ceipts	500	32,394	463,489	48,763	30,330	7,997	583,473
patients\$ Received from all other	6,983	61,548	106,556	4,320	11,343	63,583	254,333
sources\$ Totals, Receipts \$	11,117 18,600	71,842 165,784	56.079 626,124 t	53,083	3,563 45,236	15,399 8 6,979	158,000 995,806
Expanditures— Salaries and wages\$ Provisions (food)\$ Fuel, power, light and water\$ All other expenditures\$ Totals, Expendi-	3,980 2,110	32,487 49,589 22,405 104,943	196,876 104,588 41,583 202,099	16,283 15,113 3,895 8,328	13,846 14,615 3,393 12,199	43,705 23,600 5,343 16,208	309, 122 211, 485 78, 699 346, 509
tures \$	14,797	209,424	545,116	43,569	44,053	88,856	945,815

¹⁸t. Peter's Infirmary, Hamilton, was incorporated as a home for incurables in November, 1931. It is not included in this report.

CHAPTER XXVII.—JUDICIAL AND PENITEN-TIARY STATISTICS.¹

Canadian Criminal Law and Procedure.—The system under which justice is administered in a State is never rigid. This is neither expedient nor indeed possible. The judicial system must grow and adapt itself to the requirements of the people, and the exact limits of the powers of the Dominion and provincial legislative bodies have required and will still require added definition by the courts.

The exclusive legislative authority of the Parliament of Canada extends to criminal law throughout the Dominion. This law is based on the common law of England, built up through the ages and consisting first of customs and usages and later of principles enunciated by generations of judges and introduced into Canada, as regards criminal law, by Royal Proclamation, 1763.

The judical systems of the provinces as they exist to-day are based upon the British North America Act of 1867. Section 91 provides that "the exclusive legislative authority of the Parliament of Canada extends to... the criminal law, except the constitution of courts of criminal jurisdiction, but including the procedure in criminal matters". In each province (sec. 92, ss. 14), the Legislature may exclusively make laws in relation to "the administration of justice in the province, including the constitution, maintenance and organization of provincial courts, both of civil and of criminal jurisdiction and including procedure in civil matters in those courts" The Parliament of Canada, may however, (Sec. 101) establish any additional courts for the better administration of the laws of Canada.

It is frequently difficult to distinguish between "Law" and "Procedure". Procedure may be interpreted to relate simply to the organic working of the courts, but in a wider sense it may also affect the rights or alter the legal relations arising out of any given set of facts.

The mass of Statutes resulting from the fact that, prior to Confederation, each province had its own criminal jurisprudence, caused great and increasing inconvenience. This led to the adoption of various consolidation Acts, the chief of which are the Criminal Law and Amendment Acts of 1869 and the Criminal Procedure Act of 1886. These Acts dealt exhaustively with procedure in respect of indictable and non-indictable offences, jurisdiction of justices of the peace, juvenile offenders, speedy trials, criminal law, schedules and forms, etc.

In the meantime various efforts had been made in England for the reduction of the criminal law of that country into the form of a code, culminating in a draft code, submitted to the Imperial House of Commons in 1880. The question then arose as to the desirability of codifying the Canadian law. Objections were raised that codification would arrest the development of the law and its gradual adaptation to the habits and wants of the community, and would substitute a fixed, inelastic system for one which possessed the power of adjustment to circumstances. But the advantages of a codification of the law of crimes were finally so manifest that a Bill founded on the English draft code of 1880, Stephen's Digest of Criminal Law,

^t Revised by H. M. Boyd, Acting Chief Statistician on Criminal Statistics, Dominion Bureau of Statistics. The fifty-fifth Annual Report of Statistics of Criminal and Other Offences, for the year ended Sept. 30, 1931, is obtainable on application, from the Dominion Bureau of Statistics.

Burbidge's Digest of the Canadian Criminal Law, and on the Canadian statutory law, and introduced by the then Minister of Justice, Sir John Thompson, passed both Houses and became law July 1, 1893.

Crimes were formerly divided into two main classes: felonies, and misdemeanours. A felony was a crime involving forfeiture of property and of civil rights. The code has abolished this distinction and has classified offences as indictable and non-indictable. The term "indictable" means an offence which is triable on an indictment, that is to say the legal process by which a bill of indictment is preferred to, and presented by, a grand jury. An indictment differs from an information which rests only on presentation by the prosecuting authority, and properly from a presentment, which is an accusation originating with the grand jury. The word is sometimes loosely used, however, to include an information or presentment or both. Many cases of indictable offences are proceeded with, without a formal indictment. Furthermore certain cases triable on indictment may also be disposed of summarily by a magistrate, according to the severity or circumstances of the cases.

Non-indictable offences include cases usually deatt with summarily by police magistrates under the Summary Convictions Act, and comprise breaches of municipal regulations and other minor offences.

According to the provisions of the code, indictable offences are triable by jury but, in cases other than those listed below, the accused is accorded the right of election whether he be tried by jury, or before a judge without the intervention of a jury under the Speedy Trials Act, or before a magistrate under the Summary Trials Act. The jurisdiction of the magistrate is absolute, however, in certain cases and does not depend on the consent of the accused. Cases triable by jury without the consent of the accused are: treason, treasonable offences, assaults on the King, mutiny, unlawfully obtaining and communicating official information, taking of oath to commit certain crimes, seditious offences, libels on foreign sovereigns, piracy, corruption of officers employed in prosecuting offenders, frauds on the Government, breach of trust of public officers, municipal corruption, selling of appointments to any office, murder, attempt to murder, conspiracy to murder, accessory after the fact to murder, manslaughter, rape, attempt to commit rape, defamatory libel, combination in restraint of trade, for conspiring or attempting to commit, or being accessory after the fact to any of the above offences, also for bribery or undue influence, personation or other corrupt practice under the Dominion Elections Act. Also, where an offence is punishable with imprisonment for a period exceeding five years the Attorney General may require the charge to be tried by a iurv.

In the province of Quebec a district magistrate has powers extending beyond those of a magistrate in any other province. He has the same jurisdiction as a county court judge in Ontario, and disposes of cases under the Speedy Trials Act, whereas the jurisdiction of the magistrates of other provinces extends only to the Summary Convictions Act and the Summary Trials Act.

Capital cases for the first twelve or fifteen years after Confederation included, besides murders, death sentences for attempts at murder, piracy, burglary, violation of females and levying war. The list of capital offences is now: levying war, murder, piracy in cases of violence, rape, and treason. This is a drastic modification in

the code from that which obtained a century and a half ago. In 1764, according to Blackstone, there were in England 160 capital offences on the Statute Book. It is stated that there was a strong feeling against the accompanying wholesale hangings and that judges and juries resorted to all sorts of subterfuges to evade the letter of the law. The work of practical reform and modification was slow, however, owing to the opposition of the House of Lords, but the days of the indiscriminating infliction of capital punishment ended with the passage of the Reform Bill in 1832, at which time forty kinds of forgery and many less serious offences were still capital crimes.

The statistics presented in the tables that follow, which are summarized from the Annual Report of Statistics of Criminal and Other Offences, are collected directly from the criminal courts in the different judicial districts throughout the Dominion. There are 159 judicial districts, including 4 sub-districts, divided as to provinces as follows: Prince Edward Island 3, Nova Scotia 18, New Brunswick 15, Quebec 25, Ontario 47, Manitoba 6, Saskatchewan 22, Alberta 14, British Columbia 8 and Yukon 1. The figures for the Northwest Territories are obtained from the reports of the Royal Canadian Mounted Police.

Section 1.—General Tables.

The statistics relate to years ended Sept. 30, the latest report being for 1931. Beginning with the report for 1922, an enlargement of the classification of offences has been adopted, by which offences of juvenile offenders are compiled separately from those of adults. The term "indictable" applies to offences of adults only, similar offences committed by juveniles being termed "major" offences; similarly, "non-indictable" offences of adults are termed "minor" offences when attributed to juveniles. All current tables have been worked out for 1922 and subsequent years in accordance with the new classification, but a comparative historical table, giving the totals for different classes of criminal offences and minor offences including those of juvenile delinquents, is here published (Table 1), together with a more detailed table for recent years (Table 2). consideration of the former it should be remembered that, while the criminal code undergoes little change over periods of time, the figures of summary convictions denend very much upon the changes in the customs of the people, and are apt to increase with the increasing urbanization of the population. The most significant column of Table 1 is the figure of criminal offences per 100,000 of population. Attention may be drawn to the increase in the proportion of both criminal offences and minor offences to population in the past year, convictions for criminal offences having risen from 284 per 100,000 population in 1921 to 425 per 100,000 population in 1931 and convictions for minor offences from 1,732 per 100,000 in 1921 to 3,113 per 100,000 in 1931.

It should be understood that the classification of offences in these general tables is irrespective of the mode of procedure. That is to say, the "criminal" cases include many indictable offences disposed of summarily under the Summary Trials Act. Hence any addition of indictable and major and minor offences, as shown in other tables, will not agree with the figures given in Tables 1 and 2. The object here is to show a broad historical record of criminal and minor offences respectively.

1.—Convictions for Criminal Offences, by Classes, and Total Convictions for Minor Offences, years ended Sept. 30, 1980-31, with Proportions to Population.

Note.—For figures for the years 1876-99 see p. 993 of the 1939 Year Book.

_=											
			Crin	inal Offe	nces.						
	Offer	oces agair	ıst—	Other				l	Total		
Year.	the Person.	Property with Violence.	Property with out Violence.	Felonies and Misde- mean- ours	Total and Ratios of Criminal Offences.			Mii Tots	Criminal and Minor Offences.		
	No.	No.	No.	No.	No.	p.c. of all of- fences.	per 100,000 pop.	No.	p.c. of all of- fences.	per 100,000 pop.	No.
1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1911 1912 1914 1915 1917 1919 1919 1919 1920 1922 1923 1924 1925 1925	4,598 4,698 4,773 5,480 5,919 6,251 6,251 7,379 6,585 12,136 12,136 12,136 12,136 12,136 12,136 12,136 12,136 12,136 12,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 13,136 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81-3 81-3 81-3 81-3 81-3 81-	597 599 609 609 732 828 912 1,000 1,077 1,080 1,214 1,300 1,255 1,558 1,256 1,256 1,256 1,533 1,499 1,549 1,591 1,790	41, 654 42, 148 43, 54, 946 50, 383 54, 946 62, 559 70, 903 79, 170 88, 634 89, 952 102, 906 113, 260 146, 527 173, 138 183, 138 183, 056 123, 791 114, 011 123, 269 130, 019 162, 768 177, 783 177, 783 177, 783 196, 207
1927 1928 1929 1930 1931	8,343 9,140 10,392 11,052 11,773	2,67[2,99] 3,529 4,647 5,288	15, 154 16, 072 17, 271 18, 498 21, 528	2,809 3,856 4,001 6,584 5,475	28,977 32,059 35,193 40,781 44,064	13 · I 11 · 6 10 · 9 11 · 8 12 · 0	301 326 351 400 425	191,285 243,123 286,773 304,860	86·9 88·4 89·1 88·2	1,985 2,472 2,859 2,986 3,113	220,262 275,182 321,966 345,641 367,088

Convictions for Criminal and Minor Offences, by Class of Offence, Compared as to Numbers and Ratios, years ended Sept. 39, 1927-31 (Including Juveniles).

A.-NUMBERS.

Class of Offenco.	1927.	1928.	1929.	1930.	1931.
Offences against the person Offences against property with violence. Offences against property without violence. Other felonies and misdemeanours	No 8,343 2,671 15,154 2,809	No. 9,140 2,991 16,072 3,856	No. 10,392 3,529 17,271 4,001	No. 11,052 4,647 18,498 6,584	No. 11,773 5,288 21,528 5,475
Totals, Criminal Offences	28,977	32,059	35,193	40,781	44,064
Breach of municipal Acts and by-laws. Breach of liquor laws. Drunkenness. Vagrancy Loose, idle and disorderly. Keeping bawdy houses and inmates thereof Miscellaneous minor offences.	110,532 12,487 31,177 7,877 5,649 3,206 20,363	156, 758 15, 279 33, 229 8, 623 5, 556 3, 003 20, 675	181,199 19,339 38,802 11,782 5,044 5,350 25,257	200, 920 18, 139 36, 797 11, 161 7, 641 4, 650 26, 552	226,822 16,193 29,151 15,565 4,128 4,407 26,758
Totals, Minor Offences	191,291	243, 123	286,773	304,860	323,024
Grand Totals	220,268	275,182	321,966	345,641	367,088

Convictions for Criminal and Minor Offences, by Class of Offence, Compared as to Numbers and Ratios, years ended Sept. 30, 1927-31 (Including Juveniles)— concluded.

B.—RATIOS PER CENT OF TOTAL AND PER 100,000 OF POPULA	LATION	J
-------------------------------------------------------	--------	---

	1	927.	11	928.	11	929.	1	930.	19	31.
Class of Offence.	Per cent.	Per 100,000 pop.	Per cent.	Per 100,000 pop.	Per cent.	Per 100,000 pop.	Per cent.	Per 100,000 pop.	Per cent.	Per 100,000 pop.
Offences against the person. Offences against property	3⋅8	87	3-3	93	3.2	104	3.2	108	3.2	113
with violence	1.2	28	1.1	30	1.1	35	1-3	46	1.4	50
Offences against property without violence Other felonies and misde-	6.9	157	5-8	164	5.3	172	5.4	181	5.9	208
meanours	1.2	29	1.4	39	1.3	40	1.9	64	1.5	53
Totals, Criminal Offences	13 - 1	301	11-6	326	10.9	351	11-8	399	12.0	425
Breach of municipal Acts and by-laws Breach of liquor laws Drunkenness Vankenness Loose, idle and disorderly. Keeping bawdy houses and inmates thereol	50·2 5·7 14·2 3·6 2·6	1,146 130 324 82 59	57.0 5.6 12.1 3.1 2.0	1,594 155 328 88 56	56-3 6-0 12-0 3-6 1-6	1,807 193 387 117 50	58·1 5·3 10·4 3·2 2·2 1·3	1,967 178 351 109 75	61-8 4-4 7-9 4-2 1-1	2,186 356 281 150 40
Miscellaneous minor offences	9.2	211	7-6	210	7.9	252	7.7	260	7.3	258
Totals, Minor Offences	86-9	1,985	88-4	2,472	89-1	2,859	88.2	2,986	88.0	3,113
Grand Totals	100 - 0	2,236	100.0	2,798	100.0	3,210	100.8	3,386	100.0	3,539

The recent trend of total convictions, including those of juveniles, and of sentences imposed, is shown by provinces for the years 1925 to 1931 in Table 3. Death sentences, which numbered 28 in 1919 and 26 in 1920, fell to 15 in 1923, rose to 22 in 1924, dropped steadily to 12 by 1927, rose again to 19 in 1928, to 26 in 1929, then dropped to 17 in 1930 and rose to 25 in 1931.

 Convictions and Sentences for all Offences, by Provinces, years ended Sept. 39, 1925-31.

Province.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
	No.	No.	No.	No.	No.	No.	No.
Canada—							
Convictions	177,788	196,207	220,262	275,182	321,966	845,641	367,088
Sentences—					2 504	امسم	0 100
Penitentiary	1,536	1,553	1,739	1,991	2,164	3,013	8,129
Gaol or fine	144,960	163,084	179,863	223,794	263,750	266,777	274,483
Reformatory	1,033	722	865	858	979	943	1,226
Death	18	15	12	19	26	17	25
Other sentences	30,236	30,833	37,783	48,520	55,047	74,891	88,225
Prince Edward Island—			1				010
Convictions	256	365	427	716	845	975	910
Sentences—		İ				_ [^
Penitentiary	1	4	4 [10	. 6	2	6
Gaol or fine	202	324	405	669	814	956	871
Reformatory	6	-	3	-	3	6	•
Death	-	-	-	-			-
Other sentences	47	37	15	37	22	1 1	29
Nora Scotia							4 =45
Convictions	3,830	4,629	5,308	5,710	7,395	7,499	6,725
Sentences—				. 1			-00
Penitentiary	119	131	78	158	144	118	182
Gaol or fine	2.953	3,776	4,553	4,752	6,479	6,720	5,971
Reformatory	98	94	70	59	67	65	45
Death	ī	- 1	- 1				1
Other sentences	659	628	607	741	705 l	595	576

 Convictions and Sentences for All Offences, by Provinces, years ended Sept. 39, 1925-31—concluded.

Province.	1925.	1926.	1927,	1928.	1929.	1930.	1931.
N Democrate	No.	No.	No.	No	No.	No.	No.
New Brunswick—	0 700	0.710	9 000		4 500		e 2000
Convictions	2,766	2,718	3,080	3,617	4,589	4,727	5,380
Sentences—			ا سم	WA.	!	ا ۸۰	
Penitentiary	54	28	25	50	57	49	108
Gaol or fine	2,305	2,412	2,628	3,095	4,091	4, 130	4,524
Reformatory	23	27	47	42	39	53	40
Death	2						
Other sentences	382	251	380	430	402	494	708
Quebec—	** ***					1	
Convictions	30,150	28,952	34,098	35,060	57,302	67,219	106,941
Sentences—	00.		004				
Penitentiary	395	398	394	542	507	754	765
Gaol or fine	24,469	23,986	28, 193	28,853	47,211	51,405	86,729
Reformatory	223	124	215	154	162	67	109
Death	3	3	4	5	9	5	6
Other sentences	5,06 0	4,441	5,287	5,506	9,413	14,988	19,332
Ontario—	_						
Convictions	91,107	101,263	112,364	158,338	165,829	178,795	168,069
Sentences—							1
Penitentiary	515	520	659	685	596	926	834
Gaol or fine	73,260	83,348	89,602	127,140	133,534	135,315	118,674
Reformatory	470	252	303	841	451	430	736
Death	3	2	3	4	6	5	6
Other sentences	16.859	17, 141	21,797	30, 168	31,242	42,119	47,819
Manitoba—			,	4-,	77,	,	_,,,,
Convictions	13,605	17,100	19,626	23,210	30,100	30,540	27,092
Sentences-	20,200		,,		00,500	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,
Penitentiary	142	221	133	199	291	303	528
Gaol or fine	9,749	12,185	13.645	16,016	21,684	19,561	14,787
Reformatory	134	151	144	146	151	176	168
Death		1 4	1 1	ĺ	i	'''	
Other sentences	8,579	4,539	5,703	6.848	7,973	10.500	11,567
Saskatchewan—	0,010	1,000	0,,00	0,0,0	1,410	10,000	11,000
Convictions	9.986	10.944	10,018	11,201	13,677	14,386	13,760
Sentences -	3,000	10,527	10,010	11,201	10,011	11,000	10,100
Penitentiary	54	48	46	45	1 00	115	115
Gaol or fine	9.032	9,927	8.901	9.965	12.317	12,631	11,822
Reformatory	22	°°°°°°	20	27	24	48	35
Death		"	Ϋ́	l "i	<u> </u>	l 3	"1
Other sentences	878	958	1,050	1,163	1,230	1,589	1,787
Alberta-	010	500	1,000	2,100	1,200	1,000	1,10
Convictions	9,368	10, 111	10,635	13.054	16.659	16.080	16,589
Sentences—	6,300	10,111	10,000	10,005	10,005	10,550	10,000
	86	79	162	97	242	424	291
Penitentiary	7.630	8,403	8.876	10,720	13,944	12,936	12,293
	7,000	12	14	26	25	26	12,250
Reformatory	2	12	19	20	20	20	10
Death	1,642	1,617	1,581	2,209	2,447	2.693	3,984
Other sentences	1,042	1,017	1,961	2,209	2,447	2,080	0,904
British Columbia –	10 600	90.024	94 616	94 149	95 490	95 968	91 610
Convictions	16,620	20,034	24,616	24,142	25,430	25,286	21,548
Sentences—	1-0	1	1 497	205	222	322	204
Penitentiary	170	127	237				394
Gaol or fine	15,832	18,638	22,974	22,460	23,544	22,998	18,727
Reformatory	49	51	49	63	57	72	74
Death	16		l !	6	2	1 1	3
Other sentences	1,063	1,212	1,355	1,408	1,605	1,893	2,395
The Territories—			۔۔ ا				
Convictions	95	96	95	134	140	134	164
Sentences—	1	l .	I .	l	l	I	Ι.
Penitentiary		2	1 1		1		1
Gaol or fine	28	91	86	124	132	125	135
Reformatory	-	_	-	l -	ı -	-	-
Death	-	_	-	I	1 -	_	-
Other sentences	67	3	8	10	8	9	2.5

Section 2.—Indictable Offences of Adults.

The progress of a community, from the moral point of view, is often judged by the number of convictions for indictable offences, as these are less affected than non-indictable offences by extraneous circumstances and the varying methods of law enforcement in different areas and in different years. However, in the study of such statistics it is important to have comparable figures over a period of years, and these are set out by provinces for each year since 1900 in Table 4. Again, in Table 5 are shown the numbers of charges and convictions and the percentages of acquittals for the 3 years ended Sept. 30, 1929-31, the figures indicating the percentage of acquittals in the latest years.

It will be noticed that during the thirty-two-year period covered by Table 4 crimes increased from 4,853 to 31,542, or 550 p.c. The increase in the population during the same period was but 95.7 p.c., revealing that the increase in the crime rate was between five and six times that of the population.

4.—Convictions of Persons 16 years of age and upwards for Indictable Offences, by Provinces, years ended Sept. 30, 1900-31.

Year.	P.E.I.	N.S.	N.R.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon.	N.W.T.	Total.
1900	21	257	109	1,279	2,260	221			447	_	259	4,853
1901	14	287	100	1,222	2,169	185		_	401	40	203	4,621
1902	38	368	125	1,222	2,078	185	_ [-	470	47	268	4,801
1903.,,	32	393	131	1,397	2,344	318	- 1	-	443	56	369	5,483
1904	26	368	108	1,614	2,645	408	-	-	365	51	472	6,057
1905	35	342	110	1,861	2,805	534	-	~ .	574.	39	524	6,824
1906	21	269	118.	1,819	3,145	668	- 1	- 1	533	44	693	7,310
1907,	9	402	147	1,827	3,392	773	587	395	532	42	-	8, 106
1908	10	535	202	2,194	4,371	715	637	591	849	26		10, 130
1909	18	463	156	2,136	4,524	784	737	645	799	37		10,299
1910	31	684	164	1,810	4,539	744	896	709	727	23	-	10,327
1911	19	356	123	1,865	5,067	888	957	870	1,015	24	4	11,188
1912	11	657	107	2,052	5,456	1,121	1,204	f, 513	1,532	26	7	18,686
1913	8	598	140	2,336	6,272	1,331	1,594	1,908	1,794	26	-	16,007
1914	18	669	179	2,918	7,479	1,284	1,889	2,235	2, 112	27	-	18,810
1915	12	840	206	2,427	7.112	1,362	1,993	2,082	1,517	24	-	17,575
1916	11	519	241	3,166	6,023	914	1,711	1,895	1,503	20	-	16,003
1917	21	427	228	2,667	4,824	755	1,057	894	1,058	22	-	11,953
1918	12	563	230	2,916	6,111	811	1,067	886	659	11	!	13,266
1919	14	663	241	2,960	6,605	919	1,134	1,028	951	5	1	14,520
1920	4	580	375	2.517	6,707	987	1,467	1,233	1,212	6	l - i	15,088
1921	15	712	313	2.654	7,548	1,159	1,220	1,263	1,282	3	1	16, 169
1922	27	701	322	2.885	7,021	1,188	1,391	1, 171.	1,004	10	-	15,720
1923	13	400	148	2,655	6,886	1.094	1,446	1,424	1,116	6	-	15,188
1924	25	595	224	2,729	7,180	1,160	1,647	1,423	1,265	10	-	16,258
1925	3	624	244	3,084	7,751	1,215	1.654	I,254	1,385	2	3	17,219
1926	14	752	222	3,053	7,248	1,383	2,052	1,463	1,252	3	6	17,448
1927	14	680	287	3,621	7,962	1,457	1,492	1,483	1,833	3	4	18,836
1928	43	891	365	4,299	9,052	1,672	1,761	1,701	1,931	2335		21,720
1929	55	869	358	4.780	9,489	1,988	1,918	2,201	2,425		6	24,097
1930	59	875	354	5.540	11.774	2,272	2,355	2,525	2,694	6	3	28,457
1931	57	1.184	461		t2,000l	3,102	2,716	2.887	3,385	8	5	31,542

¹ The decline after 1906 is due to the formation of the provinces of Saskatchewan and Alberta out of parts of the Northwest Territories.

5.—Charges, Convictions and Percentages of Acquittals for Indictable Offences, by Provinces, years ended Sept. 30, 1929-31.

Norg.—The figures of this table do not include charges or convictions of juvenile delinquents.

		1929.			1930.			1931.	
Province.	Char- ges.	Convic- tions.	Acquit- tals.	Char- ges.	Convic-	Acquit- tals.	Char- ges.	Convio-	Acquit
	No.	No.	p.c.	No.	No.	p.c.	Ño.	No.	p.c.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia The Territories	1, 283 448 5, 919 11, 935 2, 281 2, 117 2, 638 2, 862 21	55 869 358 4,780 9,489 1,988 1,918 2,201 2,425	19-1 32-3 20-1 23-1 20-5 12-9 9-4 16-6 15-2 33-3	7,407 14,218 2,585	875 354 5,540 11,774 2,272 2,355 2,525	22·2 31·6 18·9 25·2 17·2 10·0 15·3 14·3 18·2	75 1, 728 612 7, 255 14, 617 3, 543 2, 996 3, 454 3, 889 20	57 1,184 461 5,737 12,000 3,102 2,716 2,887 3,385 13	24.0 31.4 24.8 20.9 17.9 12.5 6.3 14.4 12.1 26.3
Totals	29,572	24,097	18-5	34,751	23,457	18-1	38,189	31,542	17.9

Classes of Indictable Offences.—Indictable offences are divided under the Canadian system into six main classes, as follows: offences against the person, offences against property with violence, offences against property without violence, malicious offences against property, forgery and other offences against the currency, and other indictable offences. Convictions in all classes except Class V show an increase between 1929 and 1931. Details by offences are given in Table 6 and the details of the disposition of the charges in Table 7, which shows, among other information, that convictions of females numbered 2,607 in 1931 as against 2,660 in 1930, — the first decrease in four years; as recently as 1924 the figure was only 1,826. Details as to occupation, conjugal condition, educational status, age, use of liquors, birthplace, religion and residence of those convicted of indictable offences are given in Table 8.

Indictable Offences, by Classes, years ended Sept. 30, 1923-31.
 Novz.—The figures of this table do not include charges or convictions of juvenile delinquents.

Class and Offence.	19	29.	190	80.	19	31.
Class and Offence.	Charges.	Convic-	Charges.	Convie- tions.	Charges.	Convic- tions.
Class I.—Offences against the Person.	No.	No.	No.	No.	No.	No.
Murder. Murder, attempt to commit	50 20	26 12	54 28	17 12	49 49	2: 3:
Manelaughter	111	59	130	51	144	δ
Abortion and concealing birth of infants.	25	16	42	29	47	3: 48
Rape and other crimes against decency Procuration	681 56	402 34	741 51	458 38	764 65	*0
Bigamy	52	40	55	50	1 03	4
Shooting, stabbing and wounding	185	143	266	182	252	15:
Assault on females incl. assault on wife	221	182	256	232	221	18
Aggravated assault	1,273	892	1,340	910	1,412	90
Assault on police officer	611	557	589 1,780	534 1.358	710 1,860	65: 1.42
Refusal to support family	1,669 318	1,310 193	396	264	430	26
Wife desertion.	24	19	99	7	20	ı ı
Causing injury by fast driving	111	62	114	76	118	8
Various other offences against the person	103	68	167	116	121	8
Totals	5,510	4,015	6,018	4,314	6,324	4,483
CLASS II.—OFFENCES AGAINST PROPERTY WITH VIOLENCE. Burglary, house, warehouse, and shop- breaking	2,526	2,298	3,575	3,268	4,030	3,672
Robbery and demanding with menaces	360	255	569	428	798	655
Totals	2,886	2,553	4,144	3,696	4,828	4,327
CLASS III.—OFFENCES AGAINST PROPERTY WITHOUT VIOLENCE. Bringing stolen goods into Canada Embezzlement. False pretences Feloniously receiving stolen goods.	3 12 1,799 593	3 8 1,513 383	2 11 2,481 745	2 6 2,065 520	2 54 2,822 701	1 48 2,406 539
Fraud and conspiracy to defraud	879	592	880	688	891	647
Horse, cattle and sheep stealing	76	60	123	95	87	64
Theft Theft of mail	10,391	8,777 28	12,405 32	10,540 28	13,668 29	$\frac{11,616}{21}$
Theit of automobile	884	774	919	822	943	807
Totals	14,668	12,138	17,598	14,766	19,197	16,143
Class IV.—Malicious Oppences against Property.						
A TOOM	81	34	86	51	163	86
Malicious injury to horses and cattle, and other wilful damage to property	429	347	108	186	635	482
Totals	514	381	587	432	298	568

6.—Indictable Offences, by Classes, years ended Sept. 30, 1929-31—concluded.

Class and Offence.	193	29.	190	80.	103	31.
Class and Onence.	Charges.	Convic- tions.	Charges.	Convic- tions.	Charges.	Convic- tions.
Class V.—Forgery and Other Op- fences against the Currency.	No.	No.	No.	No.	No.	No.
Offences against the currency	6 790	4 720	16 1,092	8 1, 0 01	16 963	14 885
Totals	796	774	1,168	1,809	979	859
CLASS VI.—OTHER OFFENCES NOT IN- CLUDED IN THE FOREGOING CLASSES.						
Breach of the Trade Marks Act. Attempt to commit suicide. Carrying unlawful weapone. Criminal negligence. Conspiracy Indecent exposure and other offences	24 136 157 177 87	23 97 136 71 52	37 203 163 200 99	36 153 147 90 65	51 182 180 190 373	45 151 159 97 295
against public morals Intimidation Keeping bawdy houses and inmates	141 59	128 35	111 54	96 25	117 43	100 29
thereof. Offences against Gambling and Lottery Acts.	1,471 1,518	1,130 1,387	1,281	923	1,002 2,200	702 2,064
Offences against Opium and Narcotic Orige Act. Orige against revenue laws. Illicit stills. Perjury and subornation of perjury. Prison breach and escape from prison. Riot and affray. Sodomy and bestiality. Various other misdemeanours.	2701 257 290 110 211	220 213 280 70 206 136 71	268 234 361 148 174 201 117 85	217 186 345 75 153 169 101 56	269 228 445 167 206 206 107 97	229 198 428 101 198 168 81
Totals	5,202	4,286	5,296	1,240	6,063	5,122
Grand Totals	29,572	24,097	34,751	28,457	38,189	31,542

See also footnote to Table 10 of this chapter, p. 1021.

7.—Charges, Acquittals, Convictions and Sentences in respect of Indictable Offences, years ended Sept. 30, 1925-31.

Note.—Juvenile delinquencies not included in these statistics.

11012. Valente dell'aggerice del mended il cito beneditati									
Item.	1925.	1926.	1927.	1928.	1929.	1930.	1931.		
	No.								
Charges	21,685 4,441 26	21,976 4,510 18	23,563 4,685 42	26,693 4,970 33	29,572 5,432 43	34,751 6,246 48	38, 189 6, 972 58		
Convictions Males Females	17,219 15,184 2,035	17,448 15,393 2,055	18,836 16,823 2,013	21,720 19,520 2,200	24,097 21,460 2,687	28,457 25,797 2,660	31,542 28,935 2,607		
First conviction Second conviction Reiterated conviction	14,172	14,286 1,365 1,797	14,761 1,632 2,443	17,314 1,955 2,451	18,688 2,396 3,063	21,319 3,051 4,087	23,474 3,159 4,909		
Sentences Option of a fine. Under one year in gaol.	4,712	5,469 4,612	5,606 5,016	6,719 5,737	7,050 5,966	7,473 7,474	8,036 8,794		
One year and over in gaol	1,336	1,309	1,456	1,668	1,715 457 1,781	2,502 115 2,501	2,728 7 2,551		
Five years and over in penitentiary For life in penitentiary Death.	278 14	351 4 15	364 5 12	362 7 19	374 9 26	508 4 17	568 10 25		
Committed to reformatories	370	172 4,318	195 4,812	227 5,359	319 6,400	224 7,639	597 8,226		

Include cases where proceedings were stayed, jury disagreed, etc.

8.—Occupations, etc., of Persons Convicted of Indictable Offences, years ended Sept. 30, 1928-31.

Note.—Juvenile deliquents not included.

Item.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
	No.	No.	No.	No.	No.	No.	No.
Occupation—							٠ ـ .
Agriculture	158	919	1,014	1,320	1,509	1,509	1,78
Lumbering	63	68	112	60 96	98 66	115 77	11
Fishing		56	61		205	289	18
Mining Manufacturing and construction	162 1.316	168	169 1,786	179 1,903	2,298	3,050	3,27
Transportation	522	1,485 735	647	673	765	940	3,24
Trade	1,802	2,258	2,236	2,822	2.807	3,235	3,67
Service	1.786	1.250	1.916	2,302	3.030	3,434	3,46
Professional		84	95	137	222	342	27
Labourers	5.425	5,161	6,058	7,070	7,853	9,974	11,40
Not given	5,045	5,264	4,742	5,158	5,444	5,492	6,3
Totals	17,219	17,448	18,836	21,720	24,087	28,457	31,54
Conjugal condition—							
Married	6,777	5,928	6,559	7,886	8,220	9,587	10,14
Single	8,445	7,712	9,321	10,054	11,997	15,332	15,CH
Widowed	263	198	247	374	336	371	3:
Divorced		l i			2	7	.
Not given	2,734	3,610	2,709	3,406	3,542	3,160	6,00
Educational etatus—		ا					١
Unable to read or write	528	494	641	533	632	711	40
Elementary	13,506	13,066	15,278	17,301	19,290	23,819	26,4
Superior	201	163	215 2,702	268	479	482	4
Not given	2,984	3,725	2,702	3,618	3,696	3,445	4,16
16 years and under 21	3.464	3.192	3,760	4.231	5,909	6,453	7,20
21 years and under 40,	8,238	7,758	9,011	9.640	12,799	14,343	15,8
40 years and over	2.544	2.845	3,110	3,760	4,481	4,901	4.8
Not given	2,973	3,658	2,955	3,089	918	2,760	3,5
Use of liquors—		l '				'	
Moderate	9,518	9.121	10,848	11,629	12,919	17,305	17,78
Immoderate	1,330	1,158	1,399	1,952	1,914	2,167	2, 1
Not given	6,371	7,169	6,589	8,139	9,264	8,985	11.6
Birthplace—						استما	
England and Wales	1,310	1,230	1,335	I,496	1,916	2,246	2,10
Ireland	256	231	235	300	322	433	39
Scotland	389	427	554	638	645	764	94
Canada	9,494	9,237	10,710	12,367	13,930	17,256	18,29
Other British possessions	85	81	136	72	99	163	10
United States	789	711	844	987	1,129	1,094	91
Other foreign countries	1,897	1,962	2,185	2,671	2,926	3,486	2,7
Not given	2,999	3,569	2.837	3,189	3,130	3,016	77
Religion	402	. 000	201	509	601	710	
Baptist	435 5.057	262 5.437	381 5.977	6.938	501	710	68
Roman Catholic					7,784	9,804	10, 14
Church of England	2,429 1,100	2,243 786	2,392 8891	2,327 5731	2,889 630 t	3,213 5781	3,56
Methodist			1,555	1,727		2.387	57
Presbyterian	1,752	1,471 284	530	821	2,084 1,129	1,958	2,82 2,05
United Church	1,596	1,706	2.044	3.007	3.675	3,388	3.69
Other Protestant	354	422	433	592	470	497	8,01 61
Jewish Other denominations	899	999	1.161	1.123	1.237	2,340	8
Not given	3.597	3,838	3,474	3,894	8,698	3,582	4.59
Residence—	9,081	υ,ουο	U, 1/1	0,001	0,000	0,002	1,0
Cities and towns	13.917	14.323	15.393	17,568	18,717	21.986	24.21
Rural dietricts	2,941	2,936	2,816	3,893	5, 118	6.369	6.64
	2,011	189	627	264	262		υ, ψ

Notwithstanding the fact that the United Church of Canada was completely organized in 1926, these persons still reported themselves as Methodists.

Section 3.—Summary Convictions of Adults.

The following statistics relate to "non-indictable" offences committed by adults (persons 16 years of age or over) and disposed of by police magistrates or other justices of the peace, under authority of the Summary Convictions Act. Such convictions numbered 327,778 during the year ended Sept. 30, 1931, as compared with 308,759 in 1930, 290,043 in 1929, 245,763 in 1928, and 193,240 in 1927. This marked increase in the last five or six years has been due almost entirely to

breaches of Traffic Regulations, which have risen from 78,027 in 1926 to 212,361 in 1931, or from 46 p.c. to nearly 65 p.c. of the total convictions. By sexes the summary convictions appear as follows: in 1926, males 159,528, females 10,385; in 1927, males 182,392, females 10,848; in 1928, males 232,554, females 13,209; in 1929, males 274,977, females 15,066; in 1930, males 292,557, females 16,202; in 1931, males 312,111, females 15,667.

Summary convictions are given by provinces from 1900 to 1931 in Table 9, and details of these offences are given for the four latest years in Table 10.

9.—Summary Convictions, by Provinces, years ended Sept. 30, 1966-31.

					<u> </u>							
Year.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon.	N.W.T.	Total.
1900	402	2.270	2,174	8,430	15,650	1,423		-	2,505	1,877	1.154	35,885
1901	321	2,648		7,894	16,268	2,018		-	2,714	1,259	1,223	36,510
1902	311	3,459			16.892	2.049	_	- 1	2,990	947		37,876
1903	400	4,462	2,278		19, 112	2,682	-	-	3,086	922		43,862
1904	421	3,819	2,624	9.662	19,783	4,390	1 - 1	-	2,869	543		48, 192
1905	331	4,234	2,480	11,733	21.634		- 1	- 1	2.874	377		54,935
1906	212	4,763	2,560	12,511	24,046	8,471	-	-	3.386	352		62,811
1907	222	4,659	2,821	13,283	26,520		4.729	4,077	4,766	312		70,060
1908	278	4,562		16,094	29,858	7,794	4,586	5,521	5,684	244		77,288
1909	277	4,348		16,491	31,423	8,279	4,375	6, 181	4,415	256	9	78,503
1910	336	5,338		16,452	36,028		6,340	8,754	6,070	215	17	91,203
1911	375	5,306		17,729	34,871		7,317	9,350	10,380	145		100,633
1912	437	5,920		24,335	42,104	13,985	9,184	15,254	16,472	163	84	130,960
1913	443	6,353		29,714		16,513		17,513	17,882	157	1 -	154,818
1914	498	6,613	2,872	30,563		14,840		16,806	20,481	196		161,597
1915	346	5,774		24,152		11,266		12,331	15,993	143		132,430
1916	405	5,924		20,767	41,732		9,287	9,526	6,344	156		104,631
1917	323	4,700		22,560	42,655	7,065	6,007	5,726	6,768		-	98,452
1918	209	4,794		25,374	46,448		6,536	6,744	6,821	64	- 1	105,899
1919	236	5,533		30,881	44,587	8,128	6,180	5,961	7,638	32	1 -	111,623
1920	340	5,790		40,801	55,049		6,523	7,219	13,996	49	d - i	144,265
1921	873	4,639		45.042	68,874	9,563	6,137	8,571	14,460	37	1 -	155,376
1922	309	3,332		31,441	63,015	9,530	6,876	7,766	11,720	52	-	136,322
1923	321	3,033	2,179	27,563	64,639	11,377	8,346	8,359	11,639	37	1 -!	137, 493
1924	232	3,355		22,803	73,768		7,274	8,342	13,508	29	1 - 1	142,999
1925	235	2,790		25,364	79,470		8,020	7,840	14,875	29 45	61	151,825
1926	345	3,568		24,428	90,061			8, 142	18,337	45	42	169,913
1927	392	4,362		28,732	101,345			8,801	22,292	54	34	193,240
1928	662	4,499		29,302	146,586			10,927	21,598	72	57	245,763
1929	783	6,231		51.099	153,385			13,939	22,499	94	32	290,043
1930	906	6,299		60,098				12,904	21,989	86	39	308,759
1931	838	5,324	4,533	99,381	153, 451	22,625	(10,691)	13,113	17,671	. 80	71	327,778

¹The decline after 1906 is due to the formation of the provinces of Saskatchewan and Alberta out of parts of the Northwest Territories.

10.—Summary Convictions, by Offences, years ended Sept. 30, 1928-31.

Offence.	1928.	1929.	1930.	1931.	Increase or Decrease 1930-31.
Assault Carrying firearms and unlawful weapons.	3,499	4,146	4,177	4,809	+ 632
Carrying firearms and unlawful weapons	383	564	535	592 38	+ 57 + 12
Contempt of court	.28	21	26 320	272	T 15
Cruelty to animals	474 28	390 38	43	30	- 48 - 13
Disturbing religious and like meetings		1,858	2,540	2,420	- 120
Fishery and Game Acts, offences against.	1,599 5,923	8,244	6,565	8,287	+ 1,722
Gambling Acts, offences against	9,923	0, 277	58	47	<u> </u>
Inspection and Sales Act, offences against	198	191	873	180	- 693
Adulteration of Food (Food and Drugs)	190	171	۱ ۰۰۰	100	1
Acts)	221	198	172	119	- 53
Weights and Measures Acts, offences		140			
against.	87	162	176	108	73
Liquor, Prohibition and Temperance	٧	**-			
Acts, offences against	15,263	19,327	18,132	16, 185	- 1,947
Malicious or wilful damage to property	782	896	1,009	859	- 150
Masters' and Servants' Acts, offences		· · · · · · · · · · · · · · · · · · ·			
against	244	321	235	327	+ 92
Non-payment of wages	882	1,484	1,677	1,918	+ 241
Breaches of Traffic Regulations	141,493	166,337	185,584	212,361	+26,777
Breaches of by-laws	14,564	14, 171	14,625	14,351	- 274
Non-support of family and neglecting				+ 000	100
children	1,486	1,708 l	2,098 l	1,909	- 189

16 .- Summary Convictions, by Offences, years ended Sept. 30, 1928-31—concluded.

Offence.	1928.	1929.	1930.	1931.	Increase or Decrease 1930-31.
Contributing to delinquency of children. Opium and Narcotic Drug Act, various	608	720	801	880	+ 79
offences against	3041	3961	242	80	- 162
Profanation of the Lord's Day	1,115	635	944	1.467	+ 523
Railway Acts, various offences against.	917	1,081	1,284	1,709	+ 425
Trespass on railway	1.062	1,283	1,332	1,287	- 45
Stealing ride on railway	633	944	1,638	2,137	+ 499
Revenue laws, offences against	1,069	1,688	1,647	557	- 1,090
Trespass	604	858	989	711	- 278
Vagrancy	8,502	11.648	11,161	15,30t	+4,140
Drunkenness	33,224	38,826	35,789	29, 148	- 6,641
Insulting, abusive and profane language.	568	320	578	298	- 280
Frequenting bawdy houses	2,162	4,220	3,727	3,705	→ 2 2
Loose, idle, disorderly conduct and dis-	- 400	4 007			
turbing the peace	5,490	4,697	7.510	3,999	-3,511
Various other offences	2,311	2,690	2,272	2,180	- 92
Totals	245,763	290,043	308,759	327,778	+19,019

¹Not including 302 convictions in 1928 and 220 in 1929, for selling and possessing drugs; these appear in the indictable offences.

Convictions for Drunkenness.—The number of summary convictions for drunkenness in Canada in 1931 was 29,148 as compared with 35,789 in 1930, 38,826 in 1929, 33,224 in 1928 and 31,171 in 1927, a decrease of 6,641 in 1931 from the figures of 1930. Maximum figures were attained in the years 1913 and 1914; during the War there was an appreciable reduction and since the War, while figures have fluctuated, they have not approximated former high levels. The decline in the last two years would appear to be at least partly due to the depression. Table 11 shows the number of convictions by provinces and years from 1900 to 1931.

11,-Convictions for Drunkenness, by Provinces, years ended Sept. 30, 1900-31.

Year.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon.	N.W.T.	Total,
1900	327	1,255	1,288	3,209	3,370	778		_	1,227	341	422	12,215
1901	241	1.387	1,299	2.973	3,900	834	-	_	1,232	370	491	12,727
1902	230	2.012	1,403	2,783	3,944	1,003		- 1	1,192	371	386	13,324
1903	274	2,726		2,931	5,043	1,466		{	1,356	337	941	16,532
1904	288	2,344	1,676		5,465	2,505	.	_	1,288	242		18,895
1905	172	2,529	1,734	4,781	6,047	3,544		_	1,284	185		21,621
1906	120	2,919	1,843		7,459	3,905		.	1,697	111		25,110
1907	144		2,018		8,959	4,602	1,741	1,459	2,293	108		29,802
1908	184	2,800	1,881	6,843	9,417	3,639	1,318	1,990	2,900	117		31,089
1909	160	2,689	1,694	6,956	10,035	3,590	1,334	2,214	2,314	117		31,105
1910	183	3,131	1,562		10,717	4,289	1.885	3,543	3,085	115		34,068
1911	238	3,149	1,944	6,805	11,347	5,832	2,359	4,041	5,594	63		41,379
1912	309	3,693	2,116	9,863	12,785	6,925	2,462	6,657 7,283	8,275 8,316	72 60	14	53,171
1913	324	3,955	2,073		16,236 17,703	7,493 6,193	2,970	5,710	9,376	61		60,975
1914	342	3,990	1,700	12,776	12,553	4, 154	2,142 1,332	2,802	5,960	60		60,067
1915	231 219	3,436	1,694 1,696	8,939 7,108	11,728	3, 114	1.062	1,809	2,327	53	-	41,161
1916		3,614	1,516		10,945	1.085	770	391	2,372	25	I - I	32,730
1917	207 96	2,546 2,435		6.680	7,932	1,128	434	825	778	19	I -	27,882 21,026
1918	116	2.879	1,350		8,498	1.570	618	1,057	1,004	19		24,217
1919 1920	120	3,140	1,000	11.863	15.021	2,330	919	1,536	2.948	10		39,769
1920	144	2,156	1,264		14,498	1,429	708	1,838	2,379	. 2		34,362
1922	162	1,492			10,063	1.623	816	1,608	1,081	12		25,048
1923	164	1,392	1.074	6.260	11,370	1.680	884	1.277	1,443	12 21	<u></u>	25,565
1924	94	1,456	1,176		12,993	1.948	505	1.464	1.545	Ĩi		27,338
1925	112	1,466	1.171	6,842	11,811	1,948	668	1,374	1,844	- a	6	26,751
1926	168	1.898	1,234	5,364	13.752	1,871	487	1,413	2,114	9 6	Iŏl	28,317
1927	182	2.053	1,397	7,000	14,334	1,889	618	1,182	2,496	26	1	31,171
1928	263	2,176	1,285		15,931	1,863	1,014	1,538	2,758	26 34	-	33,224
1929	400	3,284	1,814	8,328	17,620	1,830	794	1,810	2,898	42	I - I	38,826
1930	393	3,236	1,706	7,649	15,970	1,392	674	1,561	3,183	35	l – 1	35,789
1931	446		1,541	7,461	12,404	1,089	466	1,191	2,372	41	l - [29,148
												,,

¹ The decline after 1906 is due to the formation of the provinces of Saskatchewan and Alberta out of parts of the Northwest Territories.

Offences against the Liquor Acts.—Until the Great War, alcoholic liquors were generally sold under specified conditions by licensed hotels or licensed shops. Offences against the Liquor Acts usually represented a breach of the conditions of sale. During the War, prohibition was generally established but in more recent years the tendency has been for the Provincial Governments to take over the sale of liquor, to manage this sale through commissions and derive a revenue therefrom. Eight of the nine provinces now have their liquor commissions, Prince Edward Island being the only province in which prohibition prevails. In these circumstances, the convictions for offences against the Liquor Acts in 1929 reached the highest figure on record, viz., 19,327, but fell off by more than three thousand convictions, to 16,185, in 1931. The number of such convictions in each year since 1900 is given by provinces in Table 12.

12.—Convictions for Offences against the Liquor Acts, by Provinces, years ended Sept. 30, 1900-31.

	Edger or a vertical control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c											
Year.	P.E.I.	N .s.	N.B.	Que.	Ont.	Мап.	Sask.	Alta.	B.C.	Yukon.	N.W.T.	Total.
1900 1901 1902 1903	9 17 38 50 59	153 167 207 422 371	301 329 302 294 375	458 457 600 660 583	749 820 784 1,051 1,028	34 60 50 76 122	1111	11111	115 156 261 169 133	25 83 37 72 47	141 87 237	1,942 2,230 2,366 3,031 3,018
1905 1906 1907 1908 1909	74 37 23 43 38	446 540 490 384 410	327 309 395 372 353	858 858 706 864 710	861 877 1,016 1,140 1,644	85 51 33 75 41	219 121 164	- 193 267 250	254 240 382 274 348	45 21 41 39 35	314 	3,275 3,247 3,498 3,579 3,999
1910 1911 1912 1913 1914	40 38 36 26 72	494 592 551 502 660	367 278 361 447 365	893 1,032 869 791 882	1,701 1,759 2,117 2,167 2,328	46 46 85 166 166	248 240 366 528 404	396 423 605 560 551	430, 818 625 741 394	30 33 40 41 49	16 26 -	4,565 4,775 5,671 5,969 5,871
1915 1916 1917 1918 1919	42 75 36 42 37	633 646 449 412 479	390 352 314 288 387	1,021 1,015 1,076 1,155 1,479	2,018 2,002 2,927 3,410 3,353	124 172 289 230 175	378 967 774 422 434	573 713 885 678 436	246 295 576 812 597	27 11 15 23 6	-	5,452 6,248 7,339 7,472 7,383
1920 1921 1922 1923 1924	23 44 28 39 29	894 362 267 264 293	585 419 366 364 375	1,975 1,384 954 1,724 1,549	4,385 4,938 3,246 3,958 4,678	380 427 392 542 452	452 583 708 997 966	618 907 1,043 990 817	1,427 1,394 1,503 1,196 1,286	8 2 12 14 4	-	10,247 10,460 8,519 10,088 10,449
1925 1926 1927 1928 1929.	51 53 66 69 81	235 499 610 688 804	319 393 271 478 486	1,919 2,104 2,025 2,096 3,392	5,047 6,362 5,620 7,812 9,034	512 786 627 598 1,399	1,078 1,231 1,245 1,174 1,542	758 737 814 944 1,017	1,699 1,345 1,186 1,350 1,556	9 2 13 22 8	9 - 32 8	11,636 13,512 12,477 15,263 19,327
1930 1931	98 52	532 588	469 541	3,043 2,956	8,995 8,044	1,180 1,144	1,392 1,042	970 888	1,432 907	14 13	7 10	18, 132 16, 185

The decline after 1906 is due to the formation of the provinces of Saskatchewan and Alberta out of parts of the Northwest Territories.

Breaches of Traffic Regulations.—Convictions for breaches of Traffic Regulations, which at the beginning of the century numbered only 185 in all Canada (Table 13), have, as a result of the advent of the motor vehicle, become the largest element in the non-indictable offences, numbering 212,361 out of a total of 327,-778 in 1931, or nearly 65 p.c. of the total.

13.—Convictions for Breaches	of Traffic	Regulations,	by Provinces,	, years ended
	Sept. 30	, 1900-31.		

Үеаг.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon.	N.W.T.	Total.
900	2 3	21	7	31	94	5	-	-	17	_	8	185
901	3	12	2	5	128	22	- 1	-	9	ī -	1 1	185
902 903	1	38 47	22	5 40	278 314	24 53		-	6. 43	17 8	12	387 540
904	i	25	14	10	431	142	_ [68.	_°	12 13	704
905	18	47	l ŝ	40	431	360	_	_	53		97	1,057
906		Í6	1Č	226	190	603	_	_	91		40	1,176
907	_	27	7	53	239	290	21	28	135	-	<u>-</u> "	800
908	2	17	13	55	509	176	18	27	453	_	[1,270
909	11	19	5	64	1,929	469	25	21	283	-	l - i	2,828
910	15	38 86 97	10	131	3,515	1,161	28	137	436	-	l - I	5,471
911	19	86	17	267	3,376	1,116	96	139	661	-	l 1	5,777
912	8	97	24	1,806	5,928	1,778	215	838	1,768	-	-	12,462
913	9 7	83	5 69	8,373	6,697	3.030	248	672	1,883	-	-	16,000
914 915	6	176 62	101	2,648 1,509	A,717 4,494	2,419 1,865	410 204	754 503	2,051 1,804		-	13,246 10,549
916	7	228	57	2.146	5,577	1.043	321	380	615	1	_	10,349
917	13	324	54	1.677	9,854	2.619	441	533	813	òt	l [16,338
918	17	523	80	3.505	12,206		418	736		10	i	21.181
919	15	509	62	4,971	13,374	3,123	863	701	1,677	i	_'	25,298
920	129	600		11,499	19,708	4,987	744	1,673	3,780	i	! -	43,170
921	109	443		12.335	26,860	4.995	700	1.845	4,412	2	_	51,788
922	38	289	315	3,344	31,813	4,968	1,112	1,996	4,101	ī	-	47,977
928	36	397	196	1.746	33,402		1,246	2,514	4,095	Ī		49,815
924	49	350	287	8,818	40,530	6,412	1.282	2,301	5,084	-	-	60,063
925	27	200	281	4,976	44,618	5,971	1,375	1,940	4,389	1	! -	63,777
926	64	263	180	5,534	52,727	8,588	1.730	2,059	6,882	•	-	78,027
927,, .	69	402	244	6,418	62,037	10,871	1,610	2,459	12,268	2	I -	96,380
928	228	462	516	6,273	101,356	14,099	2,100	3,481	12,976	2	. I	141, 493
929	152	863		19,427	105,703		8,643	5,612	10,592	2	j 1	166,837
930	212	831		28,633	115,073		3.727	4,903	10,776		1	185,584 212,361
931	95	999	1,200	64,611	1(1,718	10,330	4,259	5,070	7,851	2	-	212,30

¹ The decline after 1996 is due to the formation of the provinces of Saskatchewan and Alberta out of parts of the Northwest Territories.

The greatest percentage increases were recorded between 1908 and 1913. this 5-year period total convictions increased from 1,270 to 16,000. For three years thereafter there was an abrupt decline, but beginning with 1917 another 5-year series of increases brought the total up to 51,788 in 1921; by 1924 the 60,000 mark had been reached, and recent years have witnessed a rapid increase to the 1931 figures. The provincial distribution of the totals indicates that for the last five years Quebec shows the largest percentage of increase. Only Quebec and New Brunswick show increases for 1931 as compared with 1930 but the single increase in the case of Quebec is more than sufficient to offset the decreases of the other seven provinces, substantial though these are in some cases, such as Ontario, Manitoba and British Columbia. For the year 1931, Ontario, which had 47 p.c. of the registrations of motor vehicles in Canada (see p. 686), had nearly 53 p.c. of the total convictions; Quebec in the same year had 15 p.c. of the motor vehicles and 30 p.c. of the convictions. In interpreting the figures in this way, however, it should be pointed out that Traffic Regulations are by no means uniform throughout Canada and no account is taken of the differences in the degrees of urbanization in the two provinces.

Section 4.—Juvenile Delinquency.

Juveniles under 16 years of age to the number of 7,768 were found guilty of various offences in the year ended Sept. 30, 1931, as compared with 8,425 in 1930, 7,826 in 1929, 7,699 in 1928, 8,185 in 1927 and 7,831 in 1926, a decrease of 657 in the latest year. Of the 1931 total, 5,311 were convicted of "major" offences and 2,457

of "minor" offences, terms which correspond very nearly to "indictable" and "non-indictable" offences, as applied to adults. Convictions for "major" offences numbered 5,653 in 1930 and convictions for "minor" offences 2,772. The offences proven against juveniles in 1930 and 1931 are shown by provinces in Table 14 and by chief major offences committed for the years 1925-31 in Table 15.

14.—Juvenile Delinquents Convicted of Major and Minor Offences, by Provinces and Sex. 1939 and 1931.

		Major Of	Tences.		Minor Offences.				
Province.	Ма	les.	Fem	ales.	Mal	Males. Females			
	1930.	1931.	1930.	1981.	1930.	1931.	1930.	1931.	
Prince Edward Island	192 123 993 2,068 818 367 435 408	14 152 155 1,178 1,657 276 422 327	2 11 8 40 87 51 14 8 20	3 11 82 101 59 21 8	109 149 434 859 463 70 203	1 50 185 435 784 349 51 155	18 21 114 94 57 6 5	12 35 129 70 4	
Canada	5,412	5,007	241	304	2,457	2,146	315	31	

Major Offences.—In Table 15 are shown the various major offences for which juvenile deliquents were convicted in 1925 to 1931. It will be observed that theft, house- and shop-breaking with theft, and other wilful damage to property account for the great bulk of the offences; in 1931, 91 p.c. of the major offences were of this character.

15.-Juvenile Delinquents Convicted of Major Offences, by Offences, 1925-31.

Offence.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	Increase or Decrease in 1931.
Manslaughter Rape, carnal knowledge and incest Indecent assault. Aggravated assault and wounding Common assault Endangering life on railway. Other offences against the person Breaking, entering and theft Robbery. Theft and receiving stolen goods. False pretences and fraud. Arson.	37 11 114 40 5 677 17 3,275 12	2 8 22 16 109 60 3 653 6 6 3,462 8	5 28 14 99 28 5 770 2 3,289 22 5	13 43 24 67 35 2 818 6 3,255	10 25 48 93 43 3 972 4 3,081	5 49 10 101 31 31 3 944 7 3,662 24 31	1 8 42 52 119 32 2 948 13 2,139 11 39	+ 1 + 3 + 2 + 42 + 18 + 1 - 1 + 4 + 5 - 523 - 13 + 8 + 47
Other wilful damage to property. Forgery and offences against currency. Immorality. Various other offences. Totals.	581 7 144 48 4,989	553 14 114 30 5,090	793 7 68 21 5,156	620 13 96 44 5.063	679 12 63 46 5,106	702 17 52 15 5,653	749 10 109 37 5,311	+47 - 7 +57 +23

Minor Offences.—Of the 2,457 juvenile deliquents found guilty of minor offences in 1931, 598 were convicted of breaches of municipal by-laws, 430 of disorderly conduct and disturbing the peace, 288 of disobedience and incorrigibility, 297 of trespass, 329 of truancy, 264 of vagrancy and indecent conduct and 251 of other minor offences.

Section 5.—Police Statistics.

In 1931, 150 cities and towns, with populations of 4,000 or over, supplied police statistics to the Dominion Bureau of Statistics. These cities and towns, with an aggregate population of 4,343,457, had 5,321 policemen, who made 285,281 arrests and summonses. The total number of offences committed during the year and made known to the police was 378,226, and the number of prosecutions was 286,896 or 75.8 p.c. of the known offences. Convictions secured in respect of these offences numbered 235,526, being 62.3 p.c. of the known offences and 82.1 p.c. of the prosecutions.

The number of automobiles reported stolen was 11,207, of which 10,757 were recovered. Of 10,468 bicycles stolen, 6,245 were recovered. The value of other lost articles reported to the police was \$2,466,415, of which 52.7 p.c. was recovered.

16.—Police Statistics of Canadian	Cities and Towns, by	Provinces, year ended
	Sept. 30, 1931.	

		N	lumber of-	-		Number of the	Number
Province.	Cities and Towns.	Popu- lation.	Police.	Arrests.	Sum- monses.	Population to each Policeman,	Arrests per Policeman,
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia	34	10,814 181,491 87,480 1,380,364 1,729,472 272,973 142,911 186,747 351,205	10 145 86 2,082 1,876 321 143 200 458	570 5,921 2,939 45,134 35,978 7,065 3,203 3,203 10,234	215 1,411 1,624 18,453 111,486 20,744 3,380 6,362 4,629	1,081 1,252 1,017 663 924 850 999 934 772	55 41 32 21 20 22 22 22 22
Canada		1,343,457	5,321	116,977	168,314	816	2

Section 6.—Penitentiary Statistics.

The Penitentiaries Branch of the Department of Justice is charged with the administration of the various penitentiaries of Canada. Seven institutions are included in the system, the two largest of which are at Portsmouth, Ont., and St. Vincent de Paul, Que., while the other five are at Dorchester, N.B.; Prince Albert, Sask.; Stony Mountain, Man.; New Westminster, B.C. and Collins Bay, Ont. During the fiscal year ended Mar. 31, 1932, the average daily population of these institutions was 3,931 and the total net expenditure for the year was \$2,554,556, compared with 3,434 average daily population and \$3,034,438 total net expenditure for the year 1931.

Female convicts numbered 27 on Mar. 31, 1925, but had increased to 40 on Mar. 31, 1928 and were 32 on Mar. 31, 1929, 38 on Mar. 31, 1930, 44 on Mar. 31, 1931, and 48 on Mar. 31, 1932. They are all kept in the penitentiary at Portsmouth, a suburb of Kingston, where a special wing and staff are maintained for their detention and supervision. A new building to be used for this purpose is under construction.

Tables 18 to 20 give the more important penitentiary statistics as reported by the Superintendent. An increase of 450 is shown in the number of those in 5220-65

custody on Mar. 31, 1932, as compared with the same date in the previous year. The number of paroles, as shown in Table 18 for 1932, is a decrease of 34 compared with the previous year. It has fluctuated considerably between the 566 mark in 1924 and the figure of 379 set for 1932. Table 19, showing the ages of convicts by groups, indicates that since 1925, when the total number in custody reached 2,345, there has been a decrease in the average age of those in custody. In the last five years, the convicts under 30 increased from 1,317 to 2,435 or by 1,118, while the total number in custody increased by 1,684; so that convicts under 30 showed both an actual and a proportional increase. Detailed statistics of nationality, religion, conjugal state and racial origin of convicts are presented in Table 20.

Movement of Population of Penal Institutions.—Penal institutions may be classified under four heads: penitentiaries, with slow turnover, since prisoners have long sentences; reformatories for boys and reformatories for girls, also with rather slow turnovers, but more rapid in the case of boys than in that of girls; and lastly common gaols, where the turnover is extremely rapid. If the average population for the year be the average of the inmates at the beginning and end of the year, and the number discharged be the turnover, the turnover in 1931 was: in penitentiaries, 43 p.c.; in reformatories for boys, 314 p.c.; in reformatories for girls, 99 p.c.; in gaols, no less than 1,379 p.c. Thus the average time spent in gaol was about four weeks. In dealing with these figures it must be borne in mind that common gaol population changes from day to day and is partly made up of accused persons awaiting trial who may be liberated to-day or sent to a penitentiary or reformatory to-morrow.

17.—Population of Penal Institutions, 1929-31.

Note.—Penitentiary statistics until 1919 were supplied directly by each penitentiary and were for the calendar year. For 1920 and subsequent years they have been supplied by the Superintendent of Penitentiaries and are for the fiscal year ended Mar. 31. For other institutions, the figures are as at Sept. 30.

Penal Institutions.	In Custody, beginning of year.	Admitted during year.	Discharged during year.	In Custody, end of year.
1929. Penitentiaries. Reformatories for boys. Reformatories for girls. Gaols	2,435 437	1,383 7,615 465 57,165	1,174 7,328 494 56,715	2,769 2,722 408 3,579
Totals	8,541	66,628	65,711	9,478
1930. Penitentiaries	6022	1,648 9,728 5432 63,672	1,230 9,4691 4972 62,968	
Totals	9,796	75,5913	74,1643	11,223
Penitentiaries Reformatories for boys Reformatories for girls Gaols	3,105 1 648 2	1,899 10,0141 6842 59,358	1,372 9,737 644 ² 59,065	3,714 3,180 932: 4,467
Totals	11,2233	71,955 8	70,8183	12,293

⁴St. John's Industrial School, Toronto, added in 1930. [‡]Alexander Industrial School, Toronto, added in 1930. [‡]See footnotes 1 and 2.

18.-Movement of Convicts, fiscal years ended Mar. 31, 1925-32.

Schedule.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
	No.	No.	No.	No.	No.	No.	No.	No.
In custody, beginning of fiscal year. Received by	2,225	2,345	2,473	2,480	2,560	2,769	3,187	3,714
Forfeiture of parole. Revoked paroles. Recapture. Transfer. Received from gaols, etc	9 16 1 14 928	7 16 1 94 1,014	5 20 3 15 1,003	7 15 - 9 1,171	14 110 1,253	1 23 1 187 1,436	19 19 172 1,699	8 3 145 1,787
Totals	3,193	3,477	3,519	3,682	3,943	4,417	5,086	5,657
Discharged by— Death Escape Expiry of sentence. Order of the Court Pardon. Parole Transfer Deportation. Transfer to provincial gaol and execution Return to provincial authorities.	14 342 31 12 366 11 82	175 64 473 8 9 300 94 92	13 6 3 535 3 7 377 15 80	16 5 12 647 2 11 363 9 70	16 2 3 577 1 10 384 110 61	14 1 559 2 15 363 187 77 2	12 1 654 1 26 413 170 89	16 3 837 19 379 150 83
In Custody, end of fiscal year	2,345	2,473	2,480	2,560	2,769	3,187	3,714	4,164

One from mental hospital. 5 in 1926, 2 in 1928 and 2 in 1929.

²From asylum. ⁸One from asylum. ⁴From provincial institutions: ⁶Includes 1 suicide. ⁶While on temporary ticket-of-leave, 2.

19.—Ages of Convicts, as at Mar. 31, 1925-32.

Age Group.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	193 2.
Under 20 years	No. 240 1,061 591 292 116 45	No. 257 1,087 635 321 126 47	No. 281 1,036 634 364 120 45	No. 338 1,137 587 336 122 40	No. 322 1,274 629 357 141 46	No. 377 1.460 738 395 144 73	No. 484 1,710 842 437 173 68	No. 527 1,908 970 487 196
Totals	2,345	3,473	2,480	2,560	2,769	3,187	3,714	4,164

20.—Convicts in Penltentiaries, Classified by Race, Nationality, Religion, etc., as at Mar. 31, 1925-32.

Item.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	1932.
By Race— African Caucasian Indian. Mongolian East Indian.	No. 54 2,198 50 40	No. 48 2,827 54 44	No. 42 2,354 43 41	No. 43 2,409 50 58	No. 60 2,589 49 71	No. 60° 2,995 52 80	No. 751 3,499 59 81	No. 791 3,923 81 81

For footnote see end of table, p. 1028.

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20.—Convicts in Penitentiaries, Classified by Race, Nationality, Religion, etc., as at Mar. 31, 1925-32—concluded.

Item.	1925,	1926.	1927.	1928.	1929.	1930.	1931.	1932.
By Nationality (Place of Birth)—	No.	No.	No.	No.	No.	No.	No.	No.
British— Canadian English and Welsh Irish Scottish Other British	1,404 170 35 59 25	1,508 183 31 62 24	1,540 177 40 61 29	1,589 197 35 59 28	1,747 209 49 74 36	2,056 240 31 95 33	2,441 292 42 118 30	2,806 309 46 118 41
Foreign — Austrian or Hungarian Chinese Italian Russian United States Other foreign	99 37 58 97 207 154	107 36 65 91 206 160	94 37 77 76 209 140	67 53 75 85 220 120	78 62 66 75 223 156	94 74 60 119 253 132	92 75 64 95 274 191	90 72 74 102 307 199
By Conjugal State— Single	1,411 823 110 1	1,485 871 116 1	1,534 827 115 4	1,597 849 110 4	1,680 965 121 3	1,967 1,088 123 9	2,328 1,240 139 7	2,636 1,352 161 15
By Sex— Male Female	2,318 27	2,439 34	2,441 39	2,520 40	2,729 32	3,149 38	3,670 44	4,116 48
By Social Habits— Abstainers Temperate Intemperate	507 1,374 464	540 1,549 384	475 1,491 514	446 1,611 508	425 1,840 504	611 2,033 543	872 2,338 504	1,076 2,639 449
By religion— Anglican Baptist Buddhist Greek Catholic Lewish Lutheran Methodist Presbyterian Roman Catholic United Church Other creeds No creed	370 92 288 56 51 213 285 1,130	392 118 31 65 53 224 269 1,201 47	381 105 14 61 44 58 192 269 1,281 3 57	409 129 39 43 37 58 - 272 1,272 233 68	480 144 55 49 53 62 284 1,337 233 72	546 158 62 54 62 74 318 1,561 273 79	618 169 68 69 66 83 407 1,810 329 68	678 173 61 54 89 97 458 2,070 353* 131
Totals	2,345 2	2,473	2,480	2,560	2,769	3,187	3,714	4,161

^{&#}x27;All "coloured". Includes 2 Eskimos. Includes 96 persons returned as "Methodist"

CHAPTER XXVIII.—MISCELLANEOUS ADMINISTRATION.

Section 1.—Public Lands.

Table 1, pp. 1032-1033 summarizes the character and disposition of the land area of Canada. Since there are still large areas which have been little explored and a much larger area not surveyed, and therefore not classified with regard to its possibilities, many of the figures given are estimates, although every care has been taken to consult the most competent authorities, Dominion and provincial, in a position to make such estimates. The continued extension of exploration and surveys will enable the governmental authorities to classify more exactly the lands within their jurisdiction.

In this table the areas of occupied and abandoned farms and of farm woodlots are taken from the 1931 census. The totals of the land area of the provinces and territories are the areas as revised by the Topographical Survey, Dominion Department of the Interior, and agree with those appearing in the table on p. 7 of this volume, while the areas of Indian reserves are those reported by the Department of Indian Affairs. For other items, figures supplied by the provinces have been used wherever available; otherwise estimates from Dominion Government sources, chiefly the Forest Service, have been substituted. Between the totals of existing and potential agricultural lands (item 10) and the totals of forest lands (item 18) there is, of course, duplication to the extent of the agricultural lands under forest (item 7). In view of the various sources from which the information is drawn there is satisfactory agreement in the relationship of the items.

Subsection 1.—Dominion Public Lands.

As stated on p. 1019 of the 1931 Year Book, the lands and natural resources lying within the boundaries of the provinces of Manitoba, Saskatchewan, Alberta and British Columbia, which had formerly been administered by the Dominion Government, were transferred to the administration of the provinces concerned at various dates in 1930.

Actual Dominion lands, therefore, now comprise the Northwest Territories, including the Arctic islands and the islands in Hudson bay; Yukon; the National Park areas, Indian reserves, and historic sites in the different provinces throughout Canada; certain small and widely scattered parcels of Ordnance and Admiralty lands which have been held by the Dominion Government since Confederation and are rented, disposed of, or otherwise administered with a view to bringing as many properties as possible to a state of revenue production; and, finally, public lands, at one time alienated, but which have been re-vested in the Crown in the right of the Dominion for various reasons, and upon which public monies have been spent.

The great bulk of the land areas under Dominion administration are those of Yukon and the Northwest Territories, amounting to about 936,680,000 acres or 42 p.c. of the land surface of Canada. The southern border of both Yukon and the Northwest Territories is 60° N. latitude. In Europe, Oslo, Stockholm and Leningrad are near this line, while about three-fourths of Norway, two-thirds of Sweden, all of Finland and a large proportion of Russia are north of it. In Table 1 a distinction

has been made between those Dominion lands which are still freely disposable by the Dominion Government, and those which have been set aside as National Parks, under the National Parks Acts, or as Indian reserves, by Treaty. Only those which are freely disposable at the present time are classified as Dominion Crown lands, but the total Dominion lands can be easily obtained by adding the other items thereto.

Interest in this northern part of the national domain has increased in the past decade and the administration of these lands was placed under a separate branch of the Dominion Government, the North West Territories and Yukon Branch of the Department of the Interior, until 1931, when, on the transfer of the natural resources of Manitoba, Saskatchewan, Alberta and of the Railway Belt and Peace River Block of British Columbia to the respective provincial administrations, it was transferred to the Dominion Lands Administration. The Royal Canadian Mounted Police maintain law and order throughout the Northwest Territories and Yukon. More detailed particulars of the administration of each territory follow:—

The Northwest Territories.—The government of the Northwest Territories is vested in a Commissioner, a Deputy Commissioner, and a Council of five members with Ottawa as the seat of Government. The administration is carried on by the Department of the Interior through the Dominion Lands Administration. The Territories are subdivided for administrative purposes into the provisional districts of Mackenzie, Keewatin and Franklin. The district of Mackenzie is, as yet, the most widely known and developed, trading posts and settlements being located all along the great stretch of inland waterways known as the Mackenzie system. Fort Smith, the headquarters of the Mackenzie district, is located on the Slave river north of the rapids. From this point there is uninterrupted navigation to the Arctic ocean, a distance of approximately 1,369 miles.

The Administration has provided for a government hospital and medical service, grants to the Anglican and Roman Catholic churches for education, an excellent mail service in which river steamboats and aeroplanes co-operate, motor roads and a system of radio stations linking up Fort Smith, Resolution, Simpson and Aklavik with Edmonton, Alberta, and with Dawson and Mayo, Yukon.

The Department of the Interior has set aside certain areas, totalling over 338,916,000 acres, as preserves wherein only the Indian and the Eskimo may hunt. Officers in the field have made investigations into the conditions affecting musk-ox, caribou, and other forms of wild life. The Wood-Buffalo Park in the vicinity of Fort Smith covers an area of 17,300 sq. miles; it has been specially preserved for the protection of the buffalo. The Thelon Game Sanctuary to the east of Great Slave lake is, in its turn, the home of musk-oxen and caribou.

Included in the Northwest Territories are the Arctic prairies, which are capable of supplying pasturage to large numbers of reindeer and caribou. Following investigations, steps have been taken to establish a Government herd of reindeer in a suitable location on the lower Mackenzie. Indications are that this experiment will result in a plentiful meat supply in the future.

Another feature of administration has been the installation of a chain of wireless stations. This has been a great boon to the isolated posts of the Mackenzie district, as the traders and trappers are now able to keep in constant touch with outside markets, a condition enabling them to dispose of their catch to the greatest advantage. In addition to supplying market news, the radio keeps the inhabitants of the North in contact with some of the amenities of civilization.

Exploratory work has been pushed forward throughout the Territories and local surveys made in the Mackenzie and Franklin districts. Mining prospectors

are following in the tracks of the explorers and the aeroplane has been used as the means of transportation to the field of operations. Drilling operations near Norman on the Mackenzie river resulted a few years ago in striking a considerable flow of oil. Exploitation of this resource awaits only the further general development of the area. The Laurentian Shield, which has proved so rich in valuable minerals in Eastern Canada, is continued into the eastern half of the Territories—that portion lying between Great Slave and Great Bear lakes and Hudson bay—and, although little exploration has been carried out to date, valuable mineral finds have been made. The rich native silver and high-grade pitchblende ores which have been lately discovered and are now under active development in the mineral region of Great Bear lake exemplify the possibilities of this vast area. The agricultural land of the Territories lies almost entirely in the extension of the central plain defined by the Mackenzie valley.

It is known that there are many possible water-power sites throughout the Territories; these will no doubt be developed as a consequence of mining enterprises. Much of the upper Mackenzie valley carries a forest cover, which furnishes timber and fuel for local needs. Fishing, agriculture, mining and lumbering are engaged in to some extent, but the principal industry of the Territories is still the taking and export of furs. Many trading posts operate throughout the regions tributary to the Arctic coast, Hudson bay, and the great inland systems of waterways.

Yukon.—Yukon Territory is administered by the Dominion Lands Administration of the Department of the Interior as in the case of the Northwest Territories. The Gold Commissioner, resident at Dawson, is the executive head of a local elective government of three members termed the Yukon Council, with jurisdiction over local matters. The Gold Commissioner acts on instructions from the Governor in Council or the Minister of the Interior. Hospitals, schools, motor roads, and other amenities of modern life have been provided and, in addition to the overland telegraph line, wireless stations at Dawson and Mayo link up with the outside world through the Northwest Territories and Edmonton.

The route ordinarily taken to enter Yukon is from Skagway, Alaska, on the south, thence by the White Pass and Yukon Railway to Whitehorse, and by river boat to Dawson.

Confederation had been consummated for thirty years before Yukon came into meteoric prominence as one of the great mineral areas of the world. This prominence was due to the discovery of the Klondike placer gold fields, the development of which reached its peak in the decade 1897-1906.

Yukon has produced over \$200,000,000 worth of gold since the Klondike rush, but the old placer claims, operated with cradle, pick and shovel, have given place to consolidated holdings worked with hydraulic dredges and other modern machinery. Silver, lead, copper, tungsten and coal are known to exist in paying quantities, and of late years the development of the silver-lead ores of the Mayo district has been one of the major factors in the growth of lode-mining enterprises. There is a hydro-electric installation of 13,200 h.p. in Yukon, but this is only a small proportion of the possible installation which will be developed as required.

Although fishing, agriculture (including fur-farming), and some lumbering are carried on as auxiliary industries, the future of Yukon is inevitably bound up with mining development.

(Areas in thousands of acres.)

_						
No.	Description of Land Areas.	P.E.1.	N.S.	N.B.	Que.	Ont,
_	Classification by Type of Land— Existing and Potential Agricultural Lands—		-			
	Alienated, Patented, Granted, etc.—				· Ì	
1	Occupied farm lands!	1,191 495	4,302 575	4,152 958	17,445 6,080	22,841 9,306
	Improved farm land		845	1,330	8,761	13.293
2	Abandoned farms!	28	323	180	333	574
3	Road allowances6	37	139	130	533	702
4	Totals, Alienated, Patented, Granted, etc. ⁷	1,256	4,764	4,462	18,311	24,117
	Agricultural Land under Forest-	i				
5	Farm woodlots	339 Nil	2,503	2,433	6,085	4,484
6	Unoccupied ²		1.765	6,256	14,460	16,640
7	Totals, Agricultural Land under Forest	339	4,268	8,689	20,545	21,124
8	Dominion Crown Lands suitable for	3711		15		
9	Agriculture Provincial Crown Lands suitable for Agri- culture other than any already included	Nil	2	19	3	8
	in Item 6 ¹⁸	Nil Nil	161	15	10,971 15	25,072 679
10	Totals, Agricultural Lands ²	1,258	8,092	10,718	43,745	65,887
	Existing and Potential Forest Lands-					
	Alienated, Granted, etc.—		l			
11	Timber lands alienated2	140	2,880	3,830	7,763	5,100
12	Farm woodlots ⁵	339	2,503	2,433	6.085	4,484_
13	Totals Alienated, Granted, etc	479	5,383	6,263	13,848	9,584
14	Under lease, licence to cut, timber berths, pulp concessions, etc. (included in Item	ĺ				48 8050
	[16)[Nil Nil	8828	6,8088	51,059* 6	47,2058 72
15 16	Dominion Lands under forest	I KII	16	36	163	873
17	Provincial Lands under forest	Nil	2.281	7.506	225,123	109,500
18	Totals, Forest Lands ¹⁷	464	7,680	15,805	239,040	120,033
19	Waste Landsiz	Nil	1,800	20	72,822	67,767
	Summary Classification by Tenure—		-	_		
20	Alienated, patented, granted, etc."	1,396	7,644	8,4858	24,5359	29,217
21	In process of alienation	Nü	18	200*	4,730	15
22	Dominion Crown Lands ¹¹ including leased	[[
	lands, but not including Indian Reserves or Dominion National Parks	Nil	8	2	1814	103
23	Indian Reserves ⁴ , 10	2	19	38	194	1,009
24	Dominion National Parks ¹⁰	Nii -	Nil	Nil	Nil	4
25	Provincial Crown Lands including leased	1				
	lands, but not including Provincial Parks	Nil	5,334	8,559	301,3508	199,037
26	Provincial Parks	Nii	2718	450 ⁸	4,2358	3, 1308
27	Totals, Land Area	1,398	13,276	17,734	335,662	232,500
79.4	- vivoj amini natov didili di di di di	, .,		,,]	

These figures are preliminary from the 1931 census and should be taken as subject to correction. Figures from the Forest Service, Department of the Interior. Figures from the Topographical Survey, Department of the Interior. For the Northwest Territories and Yukon, they are approximate only. From Annual Report of Department of Indian Affairs, 1932. Woodlots or forested areas of occupied farms as reported in 1931 census. Estimated as 5 p.c. of occupied and abandoned farms, except for the Prairie Provinces which are from the 1930 Year Book, p. 961. This total is not the sum of occupied and abandoned farms and road allowances, except for the Prairie Provinces. Figures are obtained from provincial sources. From the 1930 Year Book, p. 961. This total is not the sum of the items, because of alianated lands in the form of grants to railway companies, grants to the Hudson's Bay Co., school land endowment, etc. These are Dominion Crown lands includes only Ordnance lands and Military lands in the provinces and does not take into consideration Dominion National Parks and Indian reserves which, while Dominion lands and to the Vikon and N.W.T. column, however, areas aggregating 338,916,000 acres, which have been set apart by Order in Council as game preserves and sanctuaries in which only native Indians and Eskimos may bunt, but which have not been permanently dedicated to this purpose by Parliament, are still regarded as Crown lands. Such preserves include: the Arctic Islands Preserve, 281,027,000 acres; Vellowknife Preserve, 481,090,000 acres; Slave River Preserve, 1877,000 acres; Peel River Preserve, 2,112,000 acres; on the addition of the preceding items because the figure obtained from provenilm.

	·····						
Description of Land Areas.	Man.	Saşk.	Alta.	B.C.	Yukon and N.W.T.	Total for Canada.	No.
Classification by Type of Land-					· - · -	_	
Existing and Potential Agricul-		1	İ	ļ			1
tural Lands— Alienated, Patented, Granted,							
etc.— Occupied farm lands!	- 15,132	55,673	38.977	3,542	5	163 260	l 1
Farm land under cropt	5,842	21,951	12.012	450	ìĭ	163,260 57,670	1 1
Improved farm landf	8,522	33,549	12,012 17,749	705	1	85,52(Ι.
Abandoned farms! Road allowances*	J, 168 978	1,024	1,410	249	Nil Nil	5,289	2
Totals, Alienated, Patented,	310	1,469	1,291	114		5,393	. *
Granted, etc.7	22,2794	61,2189	45,4779	3,905	5	185,794	4
Agricultural Land under For-							
Farm woodlots!	1,998	3,449	3,927	1,155	2	26,375	5
Unoccupied2,	1.330	2,960	6,020	2,5608	6,4002	58,391	
Totals, Agricultural Land under Forest	3,328	6,409	9,947	3,715	6,402	84,766	7
Dominion Crown Lands11 suit-							1
able for Agriculture	13	15	16	16	9,0003	9,01319	8
Provincial Crown Lands suit- able for Agriculture other than							
already included in Item 616	8,771	15,896	25,953	16,138	Nil	102,962	•
Grazing Leases (included in Item	748	3,4938	3.3678	729	13	7.07319	
Totals, Agricultural							
Lands ³	32,330	80,074	87,450	22,693	9,005	361,162	10
Existing and Potential Forest							
Lands—							
Alienated, granted, etc.— Timber lands alienated 2	21,389	3,340	8,730	11,620	NiI	64,792	111
Farm woodlots5	1,998	3,449	8,927	1,155	11112	26,375	iż
Totals, Alienated, Granted,				- -			1
etc.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	23,387	6.789	12,657	12,775	2	91,267	13
Under lease, licence to cut, timber berths, pulp conces- sions, etc. (included in Item	l				ľ		1
sions, etc. (included in Item				l	1		
16),	2,488	4608	6218	4,355*	15	113,82819	14
Dominion Lands under forest	15	15	15	15	36,600	36,678.9 2,756	15
Indian Reserves under forest ⁴ Provincial Lands under forest	335 35,200	549 44,500	343 42,2408	439 109, 200	Nil 2	575,550	16 17
Totals, Forest Lands 17	59,520	52,592	81,132	123,267	38,400	787,923	18
Waste Lands ¹²	55,330	26,057	14	81,826	895,677	1,201,2791	19
C	- 		— —				
Summary Classification, by Tenure—					!		
Alienated, patented, granted,				1		!	
etc.18	43,668	64,558	54,207	12,8138	Ni) ⁵	246,52818	20
In process of alienation	*			6,1488	MH	11,07819	41
ing leased lands, but not in-					ŀ		
ing leased lands, but not in- cluding Indian Reserves or	Ι,		٠,				۱
Dominion National Parks	475	30 1,368	66 1,328	103 744	934,353	934,686	22 23
Indian Reserves ⁴ , 10 Dominion National Parks ¹⁰	735	1,308	13,436	1,098	2,320	5,179 18,789	24
Provincial Crown Lands including		-,,,,,,	,			1,	~~
leased lands, but not including	95,742	95 140	90,241	216,3855	Nil	1,001,796	30
Provincial Parks	95,742 Nil	85,148 4	90,241	1,390	Nil	9,482	25 26
Tetals, Land Area	140.623	152,304	159,232	223.98112	336,684	2,212,79013	27
	,,	,		,		, , , , , ,	

vincial sources of 216,385,000 acres for Provincial Crown lands including leased lands is based on a total land area for the province of B.C. of 233,483,200 acres as against 223,980,800 acres estimated by the Topographical Survey.

**About 14,713 acres of this is controlled by the Department of National Defence.

**No estimate available.

**This item is an approximation got by subtracting the sum of items 4, 6 and 8 from item 10. **This item is the total productive and unproductive forest area, by provinces, as estimated by the Forest Service of the Department of the Interior and given, in square miles, on p. 42 of this volume. It should be the addition of items 13, 15, 16 and 17 but is greater than these in certain provinces because item 15 does not include the forested areas of Dominion National Parks for which estimates are not available. Forested areas of Indian reserves are not included in item 15, but see phown separately as item 16. Apart from these exceptions, items 15 and 17 include all Dominion and Provincial lands under forest (Crown lands, National parks, Ordnance lands, Military lands, reserves, etc.).

**This item includes lands in process of alienation where such are not reported under item 21.

For the provinces indicated only.

**There is practically no waste land in New Brunswick.

Subsection 2.—Provincial Public Lands.

In the Maritime Provinces, in Quebec, Ontario and British Columbia (except the Railway Belt and the Peace River Block) the public lands have been administered by the Provincial Governments since Confederation. Owing to the transfer of the natural resources to the Prairie Provinces and British Columbia, as outlined in Chapter XXVII, p. 1019 of the 1931 Year Book, public lands in all provinces are now under provincial administration. In Prince Edward Island, as all the land is alienated, there are no provincial public lands.

Information regarding the amounts of disposable public land and the terms on which it may be secured is regularly given from year to year for each of the provinces in the Canada Year Book. However, since the revisions for the 1933 Year Book have been of a minor character and as there is a heavy pressure upon space, it has been decided to refer those interested in securing provincial public lands to pp. 921 to 927 of the 1932 Year Book, and to the following officials of the respective provinces: Minister of Lands and Forests, Halifax, N.S.; Deputy Minister of Lands and Mines, Fredericton, N.B.; Deputy Minister of Lands and Forests, Quebec, Que.; Minister of Lands and Forests, Parliament Bldgs., Toronto, Ont.; Director of Lands, Department of Mines and Natural Resources, Winnipeg, Man.; Director of Lands, Department of Natural Resources, Regina, Sask.; Publicity Commissioner, Edmonton, Afta.; Deputy Commissioner of Lands, Victoria, B.C.

Section 2.—National Defence.

Before the outbreak of the Great War, the Canadian Militia consisted of a Permanent Force, which on Mar. 31, 1914, numbered 3,000 officers, non-commissioned officers and men, and an Active Militia, which at the same date numbered 5,615 officers and 68,991 non-commissioned officers and men. After the outbreak of war on Aug. 4, 1914, successive contingents of troops of all arms were recruited, equipped, trained and dispatched by the Dominion Government to Great Britain for active service. When hostilities ceased on Nov. 11, 1918, there had been sent overseas, for active service in the Canadian Expeditionary Force, about 418,000 officers, non-commissioned officers and men.² In addition to these several thousand Canadians served with the Royal Air Force.

Organization.—Prior to 1922, three departments of the Canadian Government were concerned with the defence of Canada, viz.: the Department of Militia and Defence; the Department of the Naval Service; and the Air Board.

During the Session of 1922, the National Defence Act was passed, consolidating the Department of Militia and Defence, the Department of the Naval Service and the Air Board into the Department of National Defence. This Act became effective by proclamation on Jan. 1, 1923. Under it, there is a Minister of National Defence and a Deputy Minister of National Defence. To advise the Minister, a Defence Council has been constituted by Order in Council, consisting of a President (the Minister), a Vice-President (the Deputy Minister), and the following members: the Chief of the General Staff and the Chief of the Naval Staff. The Adjutant-General, the Quartermaster-General and the Senior Air Officer, Royal Canadian Air Force, are associate members. There is also a Secretary of the Council.

Revised by H. W. Brown, Asst. Deputy Minister, Department of National Defence.

For the detailed expenditures of the Dominion Government on account of war appropriations in the fiscal years 1915-21, see the Canada Year Book, 1921, p. 798.

Subsection 1.—The Naval Service.

The Naval Service of Canada was established by the Naval Service Act, 1910 (9-10 Edw. VII, c. 43), the main provisions of which were described in the 1910 Year Book, pp. xxvi-xxix.

The Department of Naval Service was amalgamated with the Department of Militia and Defence and the Canadian Air Board, to form the Department of National Defence, in 1922.

The Royal Canadian Navy and its Reserve Forces are under the direction of the Chief of the Naval Staff, who is a member of the Defence Council. The Service consists of:—

- 1. Royal Canadian Navy (permanent).
- 2. Royal Canadian Naval Reserve (non-permanent).
- 3. Royal Canadian Naval Volunteer Reserve (non-permanent).

Administrative and operational staff for all three Forces is provided from the Royal Canadian Navy.

The Royal Canadian Navy.—The Royal Canadian Navy has an authorized complement of 104 officers and 792 ratings. A large majority of the men of the R.C.N. are serving under 7-year engagements. A small proportion consists of specialist gunnery, torpedo, and engine-room ratings, lent from the Royal Navy (in 1933 this proportion amounted to 9 p.c.).

A proportion of the officers of the Royal Canadian Navy serves periodically in ships of the Royal Navy, to acquire experience in capital ships, cruisers, etc., and training courses are arranged for selected officers at the instructional schools of the Royal Navy to qualify in war staff, gunnery, torpedo, wireless and other duties. Courses for selected men in the gunnery, torpedo, wireless telegraphy and mechanical training schools of the Royal Navy are similarly arranged.

The ships of the Royal Canadian Navy are:-

H.M.C.S. Saguenay (destroyer—in commission).

H.M.C.S. Skeena (destroyer—in commission).

H.M.C.S. Champlain (destroyer-in commission).

H.M.C.S. Vancouver (destroyer—in commission).

H.M.C.S. Armentières (minesweeper—in commission).

H.M.C.S. Festubert (minesweeper—in commission).

H.M.C.S. *Ypres* (minesweeper—in reserve).

Naval training establishments, comprising: naval barracks; gunnery drill sheds, with all modern appliances for teaching gun-laying, sight-setting, etc.; torpedo and electrical schools; parade grounds; and other equipment, are maintained at Halifax and Esquimalt. Naval dockyards, with work shops, etc., for refitting and supplying necessary stores to H.M.C. ships, are also maintained at Halifax and Esquimalt.

Royal Canadian Naval Reserve.—The establishment of the Royal Canadian Naval Reserve is 70 officers and 430 men recruited from among sea-faring personnel. Officers have been appointed to act as registrars at Halifax, Charlottetown, Quebec, Montreal, Vancouver.

Officers and men of the Royal Canadian Naval Reserve attend naval training at Halifax and Esquimalt for 42 days for the first year of enrolment and for 14 days

annually or biennially thereafter. They are permitted to volunteer for service afloat up to a maximum of six months during each period of enrolment. period of enrolment in the Royal Canadian Naval Reserve is five years.

Royal Canadian Naval Volunteer Reserve.-The establishment of the Royal Canadian Naval Volunteer Reserve is 70 officers and 930 men, distributed as follows: Halifax (half company); Saint John (half company); Charlottetown (half company); Quebec (half company); Montreal (company); Ottawa (half company); Toronto (company); Hamilton (half company); Winnipeg (company); Saskatoon (half company); Regina (half company); Edmonton (half company); Calgary (half company); Vancouver (half company); Prince Rupert (half company).

Each company or half company is under the immediate command of an officer of the R.C.N.V.R., appointed as company commanding officer. The company commanding officer is assisted by other commissioned officers of the Force.

A petty officer instructor (a highly qualified ex-petty officer of the Royal Navy or of the Royal Canadian Navy) is employed at each company headquarters to give instruction to men of the company in gunnery, torpedo practice, seamanship and other naval subjects.

Each officer and man of the R.C.N.V.R. performs annually a minimum of 30 drills of not less than one hour's duration at company headquarters. In actual practice 40 to 50 drills have been performed annually by each member of the company. Officers and men also attend from two to three weeks naval training annually at the naval bases at Halifax or Esquimalt, or at sea in H.M.C. or H.M. ships.

Officers and men who can obtain the necessary leave of absence are permitted to perform a maximum of four months voluntary service during each period of enrolment, and a large number have availed themselves of this opportunity of gaining extended naval experience under sea-going conditions. The period of enrolment and of re-enrolment in the R.C.N.V.R. is three years.

Subsection 2.—Military Forces.

The Militia of Canada is constituted by the Militia Act. The Active Militia is divided into the Permanent and the Non-Permanent Militia.

Permanent Militia.—The Permanent Force consists of the following units:—

Cavalry.—The Royal Canadian Dragoons; Lord Strathcona's Horse (Royal Canadiane).

Artillery.—The Royal Canadian Horse Artillery Brigade ("A", "B" and "C" Batteries); Royal Canadian Artillery (Nos. 1, 2 and 5 Heavy Batteries and No. 3 Medium Battery).

Engineers.—Royal Canadian Engineers (13 detachments and 1 field company).

Signals.—The Royal Canadian Regiment; Princess Patricia's Canadian Light Infantry; The Royal 22nd Regiment (a French-Canadian regiment).

Army Service Corps.—The Royal Canadian Army Medical Corps (12 detachments).

Medical Corps.—The Royal Canadian Army Medical Corps (12 detachments).

Veterinary Corps.—The Royal Canadian Army Veterinary Corps (8 detachments).

Ordnance Corps.—The Royal Canadian Ordnance Corps (12 detachments).

Pay Corps.—The Royal Canadian Army Pay Corps (12 detachments).

Military Clerks.—The Corps of Military Staff Clerks (12 detachments).

The strength of the Permanent Active Militia is limited by the Amending Act of 1919 to 10,000, but at present the limited establishment is less than 3,800.

Schools of Instruction.-The Canadian Small Arms School is the only school which is an independent unit of the Permanent Force, but at all stations of the Permanent Force in Canada Royal Schools of Instruction are conducted.

Non-Permanent Militia.—The Non-Permanent Militia consists of:—

- 35 Regiments of Cavalry and Mounted Rifles. 69 Field Batteries, Canadian Artillery. 14 Medium Batteries, Canadian Artillery. 11 Heavy Batteries, Canadian Artillery. 3 Anti-Aircraft Sections, Canadian Artillery.

- 5 Field Companies of Engineers.
 2 Fortress Companies of Engineers.
 7 Field Troope of Engineers.
 10 Divisional Signals.
 2 Fortress Signal Companies.

- 7 Signal Troops
- 22 Contingents, Canadian Officers' Training Corps. 123 Battalions of Inlantry.
- 15 Machine Gun Units.
- 12 Divisional Canadian Army Service Corps. 12 Divisions of the Canadian Army Medical Corps.
 11 Detachments of the Canadian Dental Corps.
 11 Detachments of the Canadian Army Veterinary Corps.
 11 Detachments of the Canadian Army Veterinary Corps.
 11 Detachments of the Canadian Ordnance Corps.

- 12 Detachments and 1 Base Post Office of the Canadian Postal Corps.

The total establishment of the Non-Permanent Militia is 9.029 officers and 125,722 other ranks, a total of 134,751, distributed as shown in the following table:-

2.—Permanent and Non-Permanent Active Militia in Canada, 1932.

Arm of Service.	Perm Active		Non-Permanent Active Militia.		
	Personnel,	Horses.	Personnel.	Horses.	
Staff and General List. Cavalry and Mounted Rifles. Field Artillery. Medium Artillery and Anti-Aircraft Sections. Engineers. Signals. Railway Corps. Infantry. Officers' Training Corps. Machine Gun Corps. Machine Gun Corps. Non-Combatants.	415 407 53 242 273 276 - 906	317 1 [2 2 16 - 31 - 46	16, 637 9, 071 2, 012 1, 532 3, 421 4, 567 363 79, 866 4, 303 6, 516 1, 286 5, 177	9,809 4,586 848 45 812 2,220 87 744	
Totals	3,771	524	184,751	19,831	

Reserve Militia.—In addition to the Active Militia, there is also the Reserve Militia, a framework designed to serve as a basis for contingent military organization. Drill and training are voluntary and entail no expense to the public.

The reserve formations of the Active Militia, as distinguished from the Reserve Militia mentioned above, comprise:-

The Reserve of Officers (general list).

Reserve unit for each active unit.

Reserve Regimental Depots (Cavalry and Infantry).

The reserve units of the Active Militia are intended for the purpose of providing for the organization of the officers and men who have completed their service in the Active Militia or who have otherwise received a military training. pletion of service in the Active Militia men are not posted automatically to reserve These units are recruited by specific enlistment.

Military Districts.—For the command, training and administration of the Canadian Militia, Canada is divided into 11 military districts, each under a commander assisted by a district staff.

Militia Appropriations.—The Militia appropriations for the six fiscal years ended Mar. 31, 1928-33, are shown in Table 3.

3.—Money Voted by Parliament for the Militia, fiscal years ended Mar. 31, 1928-33.

Item.	1928.	1929.	1930.	1931.	1982,	1933.
	\$	\$	8	*	\$:
Administration. Cadet Services. Contingencies. Engineer Service and Work. General Stores. Manufacturing Establishments. Non-Permanent Active Militia. Permanent Force Royal Military College. Topographic Survey. Totals. Civil Government.	341,000 500,000 43,000 808,900 682,799 472,395 2,059,800 4,887,500 40,000 10,195,334 808,010	349,000 500,000 44,000 830,000 988,800 587,000 2,309,000 5,038,000 45,000 11,664,866 800,5051	349.000 500.000 44.000 830.000 988,800 687,000 2,301.100 5,045.900 375.000 45,000 11,065,800 850,7551	345.000 500.000 44.000 836.000 1.000,300 587,000 2.324,500 5.011.000 375.000 45,000 11,061,300 849,360	332,000 400,000 44,000 736,000 683,000 550,000 2,006,000 5,050,000 386,000 45,000	320,000 360,000 35,000 327,500 663,500 1,887,400 4,844,600 20,000 20,000 8,817,900
Grand Totals	11,003,404	11,866,345	11,916,555	11,911,660	11,964,230	9,544,935

Department of National Defence.

Subsection 3-Air Service.

Under the Act creating the Department of National Defence, the powers, duties and functions vested in the Air Board by the Air Board Act of 1919 are now administered under the direction of the Minister of National Defence.

The Royal Canadian Air Force is composed of the Permanent Active Air Force, the Non-Permanent Active Air Force, and a Reserve of Officers. The Royal Canadian Air Force administers and controls all military air operations and air operations for civil government departments. The duties of the Royal Canadian Air Force are as follows:—

- (a) To organize, train and maintain an air force for the defence of Canada.
- (b) To assist in the development of civil aviation by-
- (i) Providing advanced flying training to civilian pilots, instructors and commercial pilots.
 - (ii) Initial development of air routes.
 - (iii) Technical supervision of airworthiness and inspection of aircraft belonging to private and commercial operators, and aircraft constructed or overhauled by aircraft manufacturing firms, and acting as consultant in matters pertaining to civil aviation generally.
- (c) The conduct of flying required to assist the several departments of the Dominion Government in the development and conservation of the country's natural resources, and other related services.

Permanent Active Air Force stations and units are located as follows:-

Location.	Duty.
R.C.A.F. Headquarters, Ottawa, Ont.	
R.C.A.F. Station, Camp Borden, Ont	
R.C.A.F. Station, Trenton, Ont	Training.
R.C.A.F. Station, Octawa, Ont.	
R.C.A.F. Station, Winnipeg, Man	ernment air operations.
R.C.A.F. Station, Vancouver, B.C.	
T.C.A.P., Station, Value of C. D.C.	air operations.
R.C.A.F. Station, Dartmouth, N.S.	Care and maintenance hasis
R.C.A.F. Station, High River, Alta	
No. 1 R.C.A.F. Depot, Ottawa, Ont	
R.C.A.F. Photographic Section, Ottawa, Ont.	· · · · · · · · · · · · · · · · · · ·

The following Non-Permanent Active Air Force units are now in process of organization: No. 10 Army Co-operation Squadron, Toronto, Ont.; No. 11 Army Co-operation Squadron, Vancouver, B.C.; No. 12 Army Co-operation Squadron, Winnipeg, Man.

The total strength of the Royal Canadian Air Force on Dec. 31, 1932, was 98 officers and 592 airmen.

Subsection 4.—Civil Aviation.1

The Civil Aviation Branch is under the Controller of Civil Aviation, who is directly responsible to the Deputy Minister. Its duties include the inspection of licences and registration of aircraft, air harbours, commercial and private air pilots, air engineers and air navigators. In addition to these duties, the location and construction of air routes and any matters connected with airship services are administered in this branch.

Civil aviation in the Dominion has had its chief development in connection with the exploration and conservation of the natural resources of the provinces, including forestry protection, air photography, and transport of men and supplies to remote points and mining districts. At the beginning of 1932, 19 regular air mail routes were in operation. Three air mail routes were suspended in the early part of the year so that on Dec. 31, 1932, there were sixteen air mail routes in operation.

On Dec. 31, 1932, there were certificates and licences in force as follows: private air pilots, 356; commercial air pilots, 419; air engineers, 341; registration of aircraft, 348; air-harbour licences, 91.

Subsection 5.—The Royal Military College.

The Royal Military College of Canada was founded in 1876 by the Honourable Alexander Mackenzie, Prime Minister of Canada. Since its foundation, 2,308 gentlemen cadets have been enrolled, and of this number 196 are now in attendance.

The maximum number of cadets who may be in residence at any one time is restricted by Order in Council to two hundred.

The Royal Military College has a very distinguished record in connection with the War. Of the 914 graduates and ex-cadets who served, 353 were granted commissions direct from the College, and 43 enlisted with a view to obtaining commissions; 156 ex-cadets were reported as killed in action, died of wounds, or missing. Ex-cadets of the College won the following honours and decorations: 1 Victoria Cross and 3 recommendations for the Victoria Cross, 106 Distinguished Service Orders, 109 Military Crosses, 2 Distinguished Flying Crosses, 62 other British decorations, 42 foreign decorations. Three Canadian and one Australian divisions were commanded by graduates of the College.

¹See also pp. 692-094.

Ex-cadets who have served in the Army, either in the Regular Forces or during the Great War, include 1 general, 5 lieutenant-generals, 17 major-generals, and 29 brigadier-generals or brigadiers. Eleven knighthoods have been conferred on ex-cadets for distinguished service.

The establishment of the College, as stated in the Act of 1874 (37 Vict., c. 36) was "for the purpose of imparting a complete education in all branches of military tactics, fortifications, engineering and general scientific knowledge in the subjects connected with and necessary to a thorough knowledge of the military profession, and for qualifying officers for command and staff appointments". In addition to the foregoing, the course of instruction is such as to afford a thorough practical and scientific training in civil engineering, surveying, physics and chemistry, English and French. Strict discipline, combined with physical training, riding, drill and outdoor games, forms part of the curriculum.

The College is situated on a beautiful peninsula, one mile from Kingston, with the Cataraqui river emptying into the St. Lawrence river at its junction with lake Ontario on the one side, and Navy bay on the other. The grounds cover about 500 acres. The buildings of the College proper are situated on the abovementioned peninsula, comprising 60 acres. The remainder of the grounds, on which stands the historic Fort Henry, is at the disposal of the College for use as a training area. On the point of the College peninsula is situated Fort Frederick, built in 1837 when Kingston became the capital of Canada, the fort comprising a portion of the defences of Kingston. The College is under the supervision of the Department of National Defence, and is inspected annually by an advisory board composed of leading Canadian citizens, both civil and military, which makes its reports and recommendations to the Minister of National Defence. The staff is composed of a commandant, a staff-adjutant, and a competent staff of civil and military professors and instructors.

A four-year course leads to a "diploma with honours", a "diploma" or a "certificate of military qualification". A number of commissions in the Canadian Permanent Force and the Royal Canadian Air Force, as well as commissions in the British Regular Forces, the Indian Army, and the Royal Air Force, are offered annually to graduates; and for cadets who desire to obtain commissions in the Royal Canadian Navy a limited number of naval cadetships are available each year to cadets who successfully complete the first two years of study and who were under 18 years of age at the time of entry into the College. To those graduates joining the British Army, the privilege of one year's seniority is granted in the British or Indian Armies. This has been arranged in order to equalize the seniority of graduates of the Royal Military College of Canada with those of the Royal Military Academy, Woolwich or the Royal Military College, Sandhurst, since the courses at the latter institutions are shorter than the Canadian.

The principal Canadian universities admit recommended graduates to the fourth year of their civil engineering courses and to the third year of other engineering courses; and some of the universities admit graduates to the third years of arts and science courses.

The R.M.C. diploma is accepted by the Law Societies and Bar Associations of Ontario, Nova Scotia, Quebec, Manitoba, Saskatchewan, British Columbia and Alberta, as the equivalent of a B.A. degree for admission to the study of law. The Dominion Association of Chartered Accountants likewise accepts R.M.C. graduates as registered students under the same conditions as university graduates.

Entrance to the College is on a competitive basis. Candidates are required to pass a rigid medical examination, and to have obtained junior matriculation or an acceptable equivalent. Applications for admission to the College should reach The Secretary, Department of National Defence, Ottawa, before May 31 of each year.

Section 3.—Department of Public Works.1

Since Confederation and before, the constructing department has been known as the Department of Public Works. In 1879 the railways and canals were placed under the control of a new department, the building and maintenance of penitentiaries were transferred to the Department of Justice, the maintenance and construction of lighthouses to the Marine and Fisheries Department, and the smaller drill halls and armouries to the Department of National Defence. The work of the Department of Public Works is now divided into three principal branches, viz., the Engineering Branch, the Architect's Branch and the Telegraph Branch.

Engineering.—The Engineering Branch conducts the construction and repair of wharves, piers, breakwaters, dams, weirs, bank and beach protection works; the improvement of harbours and rivers by dredging; the construction, maintenance and operation of Government dredging plant; the construction and maintenance of graving docks; the construction and maintenance of interprovincial bridges and approaches thereto, also of bridges on highways of national importance in the Northwest Territories; the maintenance of military roads, also hydrographic and ordinary surveys and examinations, inclusive of some precise levelling and geodetic measurements which are required for the preparation of plans, reports and estimates; river gaugings and metering; the testing of cements and materials of construction; the licensing of international and interprovincial ferries; and the control of works constructed in or over navigable waters by authority of the Navigable Waters Protection Act (R.S.C., 1927, c. 140).

Architecture.—The Architect's Branch constructs and maintains Government buildings, post offices, customs houses, examining warehouses, and constructs quarantine, immigration and experimental farm buildings, armouries, military hospitals and drill halls, and telegraph offices.

Telegraphs.—The Telegraph Branch has control of the construction, repair and maintenance of all Government-owned telegraph lines and cables. These lines are located in the provinces of Nova Scotia, New Brunswick, Quebec, Ontario, Saskatchewan, Alberta, British Columbia and Yukon. (See also pp. 721-723.)

Graving Docks.—There are 5 graving or dry docks built and owned by the Canadian Government. The dimensions of these docks are shown in Table 4. The dock at Kingston, Ontario, is under lease to the Kingston Shipbuilding Company. The dock at Lauzon, Quebec, east of the old dock, is 1,150 feet long (divided into two parts 650 and 500 feet respectively) and 120 feet wide, with depth of 40 feet at high water. It cost about \$3,850,000. Under the Dry Dock Subsidies Act, 1910 (9-10 Edw. VII, c. 17), several docks have been subsidized by payments of 3 or $3\frac{1}{4}$ p.c. per annum on the original cost for a given number of years, as shown in Table 5.

Revised by J. M. Somerville, Assistant Secretary, Department of Public Works. 52230—66

4.—Dimensions of Graving Docks Owned by the Dominion Government.

Location.	Length.	Width at— Coping. Bottom. Entrance.			Depth of Water on Sill.	Rise of	Tide.
Lauzon, Que. "Champlain" Lauzon, Que. "Lorne" Esquimalt, B.C. (old dock) Esquimalt, B.C. Kingston, Ont	ft. 1,150 600·3 450·7 1,150 343·6	ft. 144 100 90 149	ft. 105 59-5 41 126 47	ft. 120	ft. 40-0 H.W. 25-8 H.W. 29-0 H.W. 40-0 H.W.	ft. 18 18 7 to 10	ft. 13·3 13·3 3 to 8

-Dimensions and Cost of Graving Docks Subsidized under the Dry Dock Subsidies Act, 1910.

Location.	Length	Width.	Depth over Sill.	Total Cost.	Subsidy.
Collingwood No. 1, Ont	708·3	ft. 59·8 95 77·6	ft. 14·8 19·2 16·2	306,965	3 p.c. for 20 years, 3 p.c. for 20 years, 3 p.c. for 20 years.
naught pert, B.C. (floating dock). Saint John, N.B. North Vancouver, B.C. (floating dock).	601 600 1.150	100 100 133 98	31 · 5 32 40 28	3,000,000 2,199,168 5,500,000 2,500,000	3 p.c. for 35 years. 4 p.c. for 35 years.

Expenditure and Revenue.—Table 6 shows the expenditures and revenues of the Public Works Department of the Dominion Government, for the fiscal years 1927-32. For the fiscal year 1932 the expenditure was \$21,601,009, as compared with \$33,371,613 in 1931—a decrease of \$11,770,604, largely accounted for by reduced expenditures for harbours and rivers, dredging and public buildings.

6.—Expenditures and Revenues of the Public Works Department, fiscal years ended Mar. 31, 1927-32.

EXPENDITURES (exclusive of Civil Government Appropriations).

Item.	1927.	1928.	1929.	1930.	1931.	1932.
Harbour and river works. Dredging plant, etc. Roads and bridges. Airports Public buildings. Telegraphs. Miscellaneous. Unemployment relief works.	\$ 3,835,914 1,918,798 9,717 6,984,720 802,495 199,309	\$ 4,198,995 2,879,559 38,629 84,251 8,252,449 840,451 302,170	5,230,360 3,106,638 38,896 540,976 9,902,676 893,888 236,042	\$ 7,980,558 3,310,953 84,495 780,144 12,304,578 885,871 260,924	\$ 11,785,509 4,305,126 190,383 93,214 15,792,574 928,975 275,832	3 5,000,98 2,520,84 342,336 11,264,11 644,62 235,17 1,592,934
Totals	13,750,953	16,596,414	19,948,576	25,607,523	33,371,613	21,601,60
		REVE	NUÉS.			
Graving docks	120,402 96,815 309,488 108,605 1,048	87,322 101,571 298,663 98,435 1,361	102,065 97,114 356,485 83,311 1,358	121,909 116,697 356,469 67,130 1,318	117,759 103,353 242,441 93,304 2,823	78, 167 179, 958 188, 248 464, 478 2, 868
Totals	635.858	587,352	640,333	463,523	559, 630	913,721

Section 4.—The Indians and Eskimos of Canada.

Subsection 1.—The Indians of Canada.1

The Indians of Canada who are wards of the Department of Indian Affairs number about 108,012, their numbers varying slightly from year to year. A small yearly increase is evident, and the popular notion that the race is disappearing is not in accordance with facts. Before they were subjected to the degenerating effects of European civilization and the devastating results of the many colonial wars, the numbers of the Indians were undoubtedly larger, but any reliable information as to the aboriginal population during either the French or the early British régime is non-existent, and there is no adequate basis for a comparison between the past and present aboriginal populations. An interesting sketch of the progress of the Indians of Canada since Confederation will be found in the Report of the Department of Indian Affairs, 1927.

Administration.²—Reserves have been set aside for the various bands of Indians throughout the Dominion, and the Indians located thereon are under the supervision of the local agents of the Department. The activities of the Department, as guardian of the Indians, include the control of Indian education, health, etc., the development of agriculture and other pursuits among them, the administration of their funds and legal transactions, and the general supervision of their welfare.

The local administration of the Indian bands on the reserves scattered throughout the Dominion is conducted through the Department's agencies, of which there are in all 116. The number of bands included in an agency varies from one to more than 30. The staff of an agency usually includes various officers in addition to the agent, such as medical officer, clerk, farm instructor, field matron, constable, stockman, etc., according to the special requirements of the agency in question. The work of the agencies is supervised by the Department's inspectors, each inspector having charge of a certain number of agencies. Expenditures upon destitute Indians are made by the Dominion Government, either from public funds or from the tribal funds of the Indians themselves.

The Indian Act provides for the enfranchisement of Indians. When an Indian is enfranchised he ceases to be an Indian under the law and acquires the full status of citizenship. In the older provinces, where the Indians have been longer in contact with civilization, many are becoming enfranchised. Great discretion, however, is exercised by the Government in dealing with this problem, as Indians who become enfranchised lose the special protection attached to their wardship, so that it is necessary to guard against premature enfranchisement.

Treaties.—In the older eastern provinces, the history of the Indians has been one of slow development with that of the community. In western Ontario and the Prairie Provinces the situation has been different. There, the rapid spread of civilization made it necessary to take prompt and effective measures to protect

¹Revised by A. F. MacKenzie, Secretary, Department of Indian Affairs, ²For an outline of the early administration, see p. 937 of the 1932 Year Book.

the moral claims of the Indians, which are recognized by the Government. Accordingly, treaties were entered into with the Indians, whereby the latter ceded to the Crown their aboriginal title and interest in the country. In consideration of such cession the Crown agreed to set aside adequate reserves, make cash grants, provide per capita annuities, give assistance in agriculture, stock raising, hunting, trapping, etc., as particular circumstances might require, provide education for the Indian children, and otherwise safeguard the Indians' interests. These treaties have been made from time to time as occasion arose and as new territories were opened up. No treaty has been made with the Indians of British Columbia, but their welfare has received no less attention from the Government on that account.

Government Expenditure.—On Mar. 31, 1932, the capital of the Indian Trust Fund, which a year earlier had amounted to \$13,764,581, had decreased to \$13,644,079. The amounts expended from the Consolidated Revenue Fund were as follows: voted by Parliament for the purposes of the Department, \$4,656,030; annuities by statute, \$224,292.

Statistics.—Statistical tables of population, school attendance, income and agricultural activities of the Indians in Canada follow. In Table 7 the populations for 1871-1931 are compiled from reports of the various censuses since Confederation, while the statistics and other information in the remaining tables are taken from the latest Annual Report of the Department of Indian Affairs. The Department of Indian Affairs takes a quinquennial census of Indians under its control, i.e., those who are wards of the Department, whereas census figures include all persons of Indian origin. For 1929 the Department reported that such Indians increased in number from 104,894 in 1924 to 108,012, or by nearly 3 p.c. in the quinquennium. The figures of the decennial census include some thousands of persons of Indian race who are living off the reserves as ordinary citizens of Canada.

7	_Indian	Papulation a	Canada at fi	he Mecenniai	Censuses of 1871-1931.

Province or Territory.	1871.1	1881.1	18912.	1901.	1911.	1921.	1931.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario	323 1,666 1,403 6,988 12,978	281 2,125 1,401 7,515 15,325	314 : 2,076 1,521 13,361 17,915	258 1,629 1,465 10,142 24,674	248 1,915 1,541 9,993 23,044	235 2,048 1,331 11,566 26,436	23 2, 19 1, 68 12, 31 30, 36
British Columbia. Manitoba Manitoba Alberta. Yukon Northwest Territories.	23,000 } 56,000	25,661 56,239	34,202 51,249	28,949 16,277 26,304 3,322 14,921	20, 134 7, 876 11, 718 11, 630 1, 489 15, 904	22,377 13,869 12,914 14,557 1,390 3,873	24,59 15,41 15,26 15,25 1,54 4,04
Totals	102,358	108,547	120,638	127,941 3	105,492	110,596	122,920

¹Census figures in the organized provinces and estimates for the rest of Canada.

²Racial origin not taken in 1891; the figures have been taken from the report of the Department of Indian Affairs of that year.

²Includes 34,481 "half breeds".

The smaller Indian population of the Northwest Territories in 1921 is to be ascribed to the extension of the boundaries of Quebec, Ontario and Manitoba in 1912. This also accounts for the increase in the 1921 Indian population of these provinces.

Indian Education.—The educational work of the Department is now very extensive. In the fiscal year ended Mar. 31, 1932, a total of 350 Indian schools were in operation, including 80 residential schools for Indians with an enrolment of 8,213, and 261 day schools for Indians with an enrolment of 8,775 Indian pupils, also 9 combined public and Indian schools, with 175 Indian pupils enrolled. The total enrolment in the Indian schools has increased from 12,799 in 1915-16 to 17,163 in 1931-32 and the average attendance from 8,080 to 13,107 or from 63-1 p.c. to 76-4 p.c. of the enrolment. Continuation and high school work is now being taught in several of the day and residential schools. The amount spent on Indian education in the fiscal year ended Mar. 31, 1932, was \$2,004,957.

8.—Enrolment and Average Attendance of Pupils at Indian Schools, fiscal years ended Mar. 31, 1916-32.

	Residential Schools.		Day S	chools.	All Se	<u> </u>		
Fiscal Year.	Enrolment.	Average Attendance.	Enrolment.	Average Attendance.	Enrolment.	Average Attendance.	Percentage of Attendance.	
1916	4,661 4,520 4,692 4,640 4,719	4,029 4,149 4,081 4,014 4,133	8,138 7,658 7,721 7,312 7,477	4,051 4,136 3,797 3,587 3,516	12,799 12,178 12,413 11,952 12,196	8,080 8,285 7,878 7,601 7,649	63 · 1 68 · 0 63 · 6 63 · 6 62 · 7	
1921	4,783 5,031 5,347 5,673 6,031	4,143 4,360 4,696 4,856 5,278	7,775 7,990 8,376 8,199 8,191	3,931 4,308 4,411 4,332 4,601	12,558 13,021 13,723 13,872 14,222	8,074 8,668 9,106 9,188 9,879	64 - 3 66 - 6 66 - 4 66 - 2 69 - 8	
1926 1927 1928 1929 1930 1931 1932	6,327 6,641 6,795 7,075 7,302 7,831 8,213	5,658 5,881 6,043 6,282 6,476 6,917 7,400	8,455 8,069 8,223 8,272 8,441 8,584 8,584	4,940 4,660 4,823 4,976 5,103 8,314 5,707	14,782 14,710 15,018 15,347 15,743 16,415 17,168	10,598 10,541 10,866 11,258 11,579 12,231 13,107	71-7 71-7 72-4 73-4 73-6 74-5	

Recent Economic Progress of the Indians.—The Indians of Canada have made remarkable progress in economic status during the past decade. When the fact is kept in mind that the Indians, unlike the whites, are not increasing rapidly in numbers, the significance of the figures which follow will be better appreciated. The area of the land under cultivation by Indians was 236,761 acres in 1932, as compared with 173,198 acres in 1916. Their live stock in 1931 included 37,255 horses and 50,198 cattle, as compared with 35,315 horses and 37,188 cattle in 1916. The total income of the Indians was \$6,500,257 in 1931, as compared with \$6,241,497 in 1916. Information showing the acreage and value of Indian lands in 1932, the crops raised in 1931, the live stock owned by Indians in 1931, the sources and values of the income of Indians in 1931, is given by provinces in Tables 9 to 12.

9.—Acreage and Value of Indian Lands, by Provinces, 1932.

Province.	Total Acreage of Reserves.	Lands Cleared but not under Cultivation.	Cultimation	Value of Lands.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon and N.W.T	1,009,089 474,653 1,368,562 1,280,437 744,259	acres. 424 2,605 1,149 19,715 75,632 124,979 767,631 868,763 277,587	acres. 318 789 402 11.607 60.341 14.392 52.313 68.890 27.675	\$ 20,000 103,075 76,048 1,523,704 4,968,748 3,043,382 14,219,331 17,723,566 32,880,990
Totals	5,131,301	2,138,544	236,761	54,558,840

10.-Areas and Yields of Principal Field Crops of Indians, by Provinces, 1931.

Province.	Whe	Wheat.		8.	Other Grains.	
Prince Edward Island Nova Scotia New Brunswick Quebee Ontario Manitoba Saskatchewan Alberta British Columbia Yukon and N.W.T	acres. 18 - 141 1,087 3,002 17,644 19,096 2,279	bush. 160 1,342 15,684 18,277 199,387 129,471 44,673	acres. 60 59 109 1,784 11,659 2,450 11,740 9,275 3,672	bush. 1,200 928 1,665 31,343 286,871 22,035 116,815 158,809 73,524	acres. 2 15 301 2,738 1,899 2,265 615 250	bush. 40 200 3,672 56,433 8,738 9,079 10,864 3,412
Totals	43,267	408,994	40,808	693, 190	8,085	92,438

Province.	Peas, Beans, etc.		Potatoes.		Other	Fodder, Hay Culti- vated, Wild, etc.	
Prince Edward Island. Nova Scotia. New Brunswick Quebec. Ontario. Manitoha. Saskatchewan. Alberta British Columbia.	acres. 15 9 127 959 20 60 -	bush. 131 95 640 18,092 130 4,797	acres. 25 101 72 849 1,718 601 261 273 1,912	bush. 1,200 4,123 4,105 17,107 70,711 47,192 17,743 16,072 178,627	acres. 1 22 17 55 987 56 81 39 493	bush. 250 695 1,752 2,338 19.751 712 1,725 2,246 30,043	tons. 90 482 168 4,358 29,534 20,780 35,673 19,931 22,747
Yukon and N.W.T	1,679	15 34,863	5,843	1,349 358,229	1,766	621	133,818

11 .- Numbers of Farm Live Stock of Indians, with Total Value, by Provinces, 1931.

Province.	Horses.	Cattle.	Poultry.	Value of Live Stock and Poultry.
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Sackatchewan Alberta British Columbia Tukon and N.W.T.	No. 14 46 14 691 3,986 2,309 5,885 13,904 10,405	No. 28 201 56 3,525 10,828 4,094 8,266 10,201 12,993 6	No. 150 615 308 9.954 74,531 6,165 12,215 5,293 28,675 20	\$ 1,500 11,975 5,610 115,703 570,424 264,117 527,211 528,648 795,209
Totals	37,255	50,138	137,926	2,820,397

	Value of-	-	Rø-	Earned by—			Total		
Province.	Farm Products, Including Hay.	Beef Sold or Used for Food.	Wages Earned.	ceived from Land Rentals.	Fishing.	Hunting and Trapping.	Other Indus- trice.	Income of Indians. ¹	
	\$	8	\$	\$	*	\$	\$	•	
P.E.I. Nova Scotia. New Brunswick Quebec. Outario. Manitoba. Saskatchewan. Alberta. British Columbia. N.W. Territories.	1,700 10,845 7,585 64,191 361,594 125,992 231,600 164,418 388,722 6,312	250 2,410 155 22,172 31,290 25,569 57,184 55,577 79,685	850 28,400 20,200 144,886 565,380 108,005 67,564 74,859 444,346 7,925	106 75 9,546 25,158 921 3,308 19,191 32,536	800 3,050 4,700 3,996 219,565 63,895 22,255 9,396 379,145 57,650	400 3,165 1,910 105,875 226,489 159,915 147,181 93,257 141,255 241,900	3,000 17,480 4,600 26,082 198,583 48,108 35,681 44,861 90,560 3,951	7,000 67,245 42,730 398,917 2,029,166 614,197 717,050 660,313 1,627,161 336,478	
Totals	1,362,959	274,292	1,462,415	90,839	764, 452	1,121,347	472,986	6,500,257	

12 .- Sources and Values of Income of Indians, by Provinces. 1931.

Subsection 2.—The Eskimos of Canada.¹

The Eskimos are a littoral race, dwelling on the northern and northeastern mainland coasts and on islands in the Arctic archipelago and in Hudson bay. Though nomads, they never go far from the sea except to hunt caribou, the skin of which animal is required for winter clothing. They subsist largely on marine animals and They inhabit chiefly the Northwest Territories and Yukon and the Ungava district of Quebec. According to the census of 1931 the total Eskimo population of Canada was 5,979, made up as follows: Northwest Territories 4,670, Yukon 85, Alberta 3, Manitoba 62, Quebec 1,159. The administrative care of those Eskimos outside of the organized provinces devolves upon the Department of the Interior, which has done much for them by providing medical attention, by setting aside wild-life preserves for the protection and conservation of game resources, by importation of reindeer, distribution of buffalo hides and caribou skins for bedding and clothing, and the establishment of permanent stations in the eastern, central, and western Arctic, from which regular patrols are made.

Section 5.—Pensions and other Provision for War Veterans.²

Pensions Division.—This Division is responsible for the administration of returned soldiers' affairs under the Pensions and National Health Act and the War Veterans' Allowance Act. It is also responsible, by the direction of the Board of Pension Commissioners for Canada, for all payments under the Pension Act.

The Annual Report for the fiscal year ended Mar. 31, 1932, shows a decrease in the number of ex-members of the Forces who received in-patient hospital treatment, the number being 14,267, as against 15,519 in 1930-31 and 12,939 in 1929-30. The Department maintains eight hospitals, situated in the following centres: Halifax, Saint John, Ste. Anne de Bellevue, Toronto, London, Winnipeg, Calgary and Vancouver. The sheltered employment workshops are still operated at Hamilton. Montreal and Halifax and one shop by the Red Cross Society at Victoria.

Includes income received from timber and appuities earned as interest on Indian trust funds.

¹ Revised by H. E. Hume, Chairman, Dominion Lands Board, Dominion Lands Administration, Department of the Interior, Ottawa.

² Revised by E. H. Scammell, Secretary, Pensions Division, Department of Pensions and National Health. See also 1930 Year Book, pp. 982-983.

The number of veterans' care cases showed an increase of 27, the total at the end of the fiscal year being 198. The issue of orthopædic and surgical appliances has been maintained with a slight increase. The number of pensioners who have been granted relief was 12,303 in 1931-32, as compared with 8,811 in 1930-31, 5,548 in 1929-30 and 4,647 in 1928-29. The expenditure in 1931-32 was \$2,082,052, as compared with \$907,010 in 1930-31, \$517,947 in 1929-30 and \$367,231 in 1928-29. During the year, 36 cases were taken on for vocational training and 6 for probational training.

The provision under which the Department assumes responsibility in respect of accidents sustained by pensioners of 25 p.c. and upwards while engaged in industry has been continued. During the fiscal year under review, the number of claims was 200, being 8 more than during the previous year. The expenditure was \$49,878, as against \$45,142 in 1930-31. This expenditure is largely governed by the number of fatal and serious accidents.

The following is a summary statement of the manner in which the funds appropriated by Parliament have been dealt with and also sets forth the costs of administration and the adjudication of pensions in amount and percentage.

COST OF ADMINISTRATION, FISCAL YEAR 1931-32.

Direct payments to men and dependants	54,833,059,55 4,472,558,90 36,868,41 67,049,98 185,816,42
Revenue—Insurance premiums \$ 1.643,456 53 " Casual 186,744.54	59, 595, 348.26 1, 830, 201.07
Administration expenses	61,425,549.33 1,511,594.90
Expense of Board of Pension Commissioners, Veterans' Bureau, Pension Tribunal and Pension Appeal Court	62, 937, 144.23 1, 058, 126.24
\$	63,995,270.47
DEPARTMENTAL ADMINISTRATIVE EXPENSE.	
General departmental administration	1,511,594.90 2-362 p.e.
ADJUDICATION OF PENSIONS.	
Board of Pension Commissioners \$ 480,850.29 Veterans' Bureau 205,894.85 Pension Tribunal 329,908.15 Pension Appeal Court 41,472.95	1,058,126 24
Percentage—Adjudication of pensions	1.653 p.c.
Total administration and adjudication expense	2,569,721.14 4-015 p.c.

The Board of Pension Commissioners for Canada.—The Board of Pension Commissioners is responsible for the adjudication and award of pensions in respect of disabilities connected with military service and the award of pensions to the dependants of those who have died. It consists of three members and operates under the authority of the Pension Act. The following statements illustrate the growth of the activities of the Board of Pension Commissioners:—

The number of disability awards in force at Mar. 31, 1932, shows an increase of 9,209 as compared with those in force a year previous and of 18,882 as compared with the figures for 1930, being due, in the main, to the reinstatement, as provided

by the 1930 Amendments to the Statute, of awards in cases in which final payments had been accepted. A decrease of 368 took place in the number of dependent pensions in force.

The number of medical examinations for pension purposes carried out during the fiscal year was 32,737, representing an increase of 1,529, which to a large extent was due to reinstatement of awards in final payment cases.

The total liability in respect of pensions under the Pension Act for the fiscal year ended Mar. 31, 1932, was \$41,858,377, which is an increase of \$1,646,651 over the liability for the preceding fiscal year.

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	Depen	dants.	ants.) Disabilities.		Totals.		
Fiscal Year,	No. of Pensions.	Liability.	No. of Pensions.	Liability.	No. of Pensions.	Liability.	
1918 1919 1920	16,753 17,823	9,593,056 10,841,170	15,335 42,982 69,203 51,452	\$ 3,105,126 7,470,729 14,835,118 18,230,697	25,823 59,685 87,026 70,661	\$ 7,273,728 17,063,785 25,176,288 31,184,838	
1921 1922 1923 1924 1924	19,606 19,794 19,971	12,687,237 12,279,621 12,037,843	45, 138, 43, 263 43, 300 44, 598	17,991,535 18,142,145 18,787,206 19,816,380		30,678,772 30,421,766 30,825,049 31,621,205	
1926 1927 1928 1929	29,005 19,999 19,975	11, 608, 530 11, 419, 276 11, 209, 351	46,385 48,027 50,635 54,620	21,456,941 22,811,373 24,874,502 26,095,150	66,390 68,026 70,610 74,622	33,065,471 34,230,649 35,583,853	
1930 1931 1932	19,644	10,742,518 10,985,518	56, 996 66, 669 75, 878	27,059,992 29,226,208	76,640, 86,845 95,186	37,802,510 40,211,720	

13.—Pensions in Force as at Mar. 31, 1918-32.

The following are the figures of disability and dependent pensions of beneficiaries under the Pension Act as at Mar. 31, 1932:—

Total number of disability pensioners	75,878
Widows. Others	8,768 10,540
Total	95.186

Number of persons in receipt of benefits under the Pension Act as at Mar. 31, 1932:—

Disability pensioners. Disability pensioners' wives Disability pensioners' children. Disability pensioners' other relatives. Disability pensioners (Widowers, Sec. 22-9 Pension Act).	Number. 75,878 56,064 98,161 1,902 298	Total.
Dependent pensioners	19,308 5,100 1,678	232,303 26,086
SUPPLEMENTARY AWARDS.		20,000
Disability— Militia Pension Act (Sees. 48 and 49 Pension Act) Supplementary to awards paid by Great Britain (Sees. 45 and	28	
47 Pension Act)	27L 3	302
Dependent— Militia Pension Act (Secs. 48 and 49 Pension Act) Supplementary to awards paid by Great Britain (Secs. 46	6	004
and 47 Pension Act)	t). 61	
Supplementary to awards paid by France (Sec. 46 Pension Act). Supplementary to awards paid by Italy (Sec. 46 Pension Act)	32 2	
-	····-	102
Grand Total		258,793

Rates of pensions for all ranks were published in tables on pp. 960-962 of the 1925 Year Book, to which the reader is referred.

Pension Tribunal.—The Pension Tribunal, appointed in accordance with the Amendments to the Pension Act, passed in 1930, came into operation on Oct. 1, 1930, by the appointment of a chairman and eight members. During 1931, three temporary members were added.

During the year ended Mar. 31, 1932, the tribunal dealt with applications as follows:—

Old applications remaining to be completed from former fiscal year New applications listed at hearings	149 4,619
Total	4, 768
Decisions given favourable to the applicant. Decisions given unfavourable to the applicant. Applications withdrawn. Applications under consideration at 31-3-32. Applications standing adjourned. Applications standing postponed. Disagreements as to decision.	1,866 2,293 108 41 252 204 4
Total	4,768

Preliminary hearings were also conducted in 188 applications.

Pension Appeal Court.—This Court was not fully constituted until the middle of January, 1931, so that sittings were not commenced until the first week in February. The following statement sets forth the activities of the Court between that date and Mar. 31, 1932.

		, - + +
	$\substack{1,672\\12}$	Appeals heard to Mar. 31, 1932
	1,660	Decisions rendered to Mar. 31, 1932
798	386 26 268 118	Appeals taken by Commission Counsel— Allowed on merits. Allowed on jurisdiction. Disallowed Remitted for re-hearing. Appeals taken by Applicant— Allowed on merits.
862	16 16 806 14	Allowed on question of jurisdiction of Tribunal to limit date from which pension should be paid. Allowed on question of jurisdiction of Tribunal to entertain application. Disallowed. Remitted for re-hearing.
1,660		
	1.890 68	Appeals filed by commission counsel to Mar. 31, 1932 Withdrawn
1,822	1,379 12	Appeals filed by applicant to Mar. 31, 1932
1,367		Net
3,189		Total net
	_	

Veterans' Bureau.—Pursuant to legislation passed in 1930, a Veterans' Bureau was organized as a branch of the Department and came into active operation on Oct. 1, 1930. The duties of the Bureau were set forth on p. 945 of the Canada Year Book, 1932. Briefly stated, the Bureau was created and is operated to assist

applicants for pension in the preparation and presentation of their cases. There is a Chief Pensions Advocate with his staff at Ottawa, and Pensions Advocates have their offices in all the principal cities of Canada.

War Veterans' Allowances.—A synopsis of the War Veterans' Allowance Act, which came into force on Sept. 1, 1930, appeared on p. 946 of the Canada Year Book, 1932. The following statistics show the activities of the War Veterans' Allowance Committee for the fiscal year ended Mar. 31, 1932.

NUMBER OF CASES HANDLED DURING YEAR.

Number of new applications dealt with		. 4,442 1,105
Total number of cases dealt with during year		5,547
NUMBER OF RECIPIENTS.		
Veterans' allowance payments in force Mar. 31, 1931		Annual Liability. 738,485 662,101
TotalCancellations, account of death, etc	4,253 428	1,400,586 148,252
Payments in force Mar. 31, 1932	3,825	\$ 1,257,334
ANALYSIS OF AWARDS MADE FROM SEPTEMBER,	1930, TO I	MAR. 31, 1935
Approved over sixty years of age		A 150
Approved under sixty years of age Cancelled by death, etc		2,175
Total in receipt of allowance on Mar. 31, 1932		1,650

Returned Soldiers' Insurance.—The Returned Soldiers' Insurance Act of 1920 was placed under the jurisdiction of the Board of Pension Commissioners for Canada. The Board confines itself, however, to the issue of policies and to the supervision and adjudication of claims. All collections and payments are made through the Department. No applications under the Statute could be received after Sept. 1, 1923, but its operation has been extended from time to time and applications may now be received until Aug. 31, 1933.

During the fiscal year ended Mar. 31, 1932, 1,463 applications for policies were received, of which 1,351 were accepted and 92 refused. The number of policies issued, including some in which applications had been accepted prior to the commencement of the period under review, was 1,373.

The total number of policies in force on Mar. 31, 1932, was 28,426 representing an insurance of \$62,680,341. During the fiscal year the premium income was \$1,643,457, interest was \$379,797, making a total of \$2,023,254. Expenditure during the year, in respect of death claims, cancelled insurance and surrendered policies, amounted to \$919,514. The total number of death claims to Mar. 31, 1932, was 2,759, amounting to \$7,278,184. The balance on hand as at Mar. 31, 1932, was \$10,352,976.

Section 6.—Soldier and General Land Settlement.1

Soldier settlers and other settlers under the jurisdiction of the Soldier Settlement of Canada have, in common with Canadian farmers generally, been confronted with adverse agricultural conditions during the year under review. In view of this situation the Department has continued its general policy of reasonable leniency to all settlers who are making an honest effort to handle their farms efficiently and to live within their means. The fact that no settler has been dispossessed of his farm during the past two years, by action of the Department, because of inability to meet his payments, is the best evidence of adherence to this general policy.

At the present time the Soldier Settlement of Canada is administering 22,986 farm properties, made up as follows: soldier settlers, 11,535; civilian settlers, 5,475; British families, 2,274; reverted farms, 3,702; total, 22,986.

The total number of soldier settlers established with loans was 24,715. Gross charges, including interest, to soldier settlers' and British Family settlers' accounts amounted to \$148,438,358.68 at the close of 1932. Reduction of this amount to the present net investment of \$63,862,224.68 is accounted for as follows:

Repayments by settlers (principal and interest)\$	50,868,695 - 17
Remedial legislative reductions. Losses on security sold.	21,703,845.77 12,003,593.06
Total.,\$	84,576,134.00

In addition to the \$21,703,845.77 actually written off soldier settlers' accounts these settlers have benefited to the extent of \$10,269,108.87 in interest not charged to their accounts, in accordance with legislation passed in 1922.

During the past three years the annual administration costs of soldier and general land settlement have been reduced by \$557,121.86. The administrative expenditure for the fiscal year 1929-30 was \$1,362,121.86, while the administration cost for the fiscal year ended Mar. 31, 1933, is estimated at \$805,000. This reduction in annual administration cost is due to complete re-organization of the Department, including Head Office, district offices and field staff, resulting in the elimination of three district offices; termination of the services of 158 former members of the staff, including 16 senior executive officers; elimination of 43 motor cars and curtailment in travelling and other expenses. The annual cost of soldier land settlement is now \$567,000, which is less than 1 p.c. of the net loan investment.

Of the settlers who have retired from the scheme 4,952 have repaid their loans in full (2,385 by cash repayment, 2,567 by sale of properties).

In 1932 the Department leased 2,065 properties to local farmers and effected the sale of 456 properties.

Under the British Family Scheme 3,346 families were accepted for settlement. Of these 175 withdrew from the scheme before receiving advances, and 1,165 withdrew after contracting loans, making a total of 1,340 withdrawals. There are now 1,981 families operating farms under the Three Thousand Family Scheme. Thirteen families have repaid their loans; twelve families have not yet received loans.

Under the New Brunswick British Family Scheme 359 families were accepted for settlement. Of these 293 are still on the land; 62 have withdrawn, 57 after contracting loans, five before contracting loans; four have not yet received loans.

¹Revised by C. W. Cavers, Soldier Settlement of Canada. Figures are as at Dec. 31, 1932.

As a result of the Back-to-the-Land Movement inaugurated by the Minister in 1930, the Soldier Settlement of Canada has, since October of that year, placed 9,514 single men in farm work and settled 1,279 families on vacant soldier settlement farms, exclusive of those placed by the railways, bringing the total by railways and Department in co-operation up to 22,803 single men and 10,486 families. Under the Relief Land Settlement Plan instituted by the Dominion Government in 1932, 1,706 families have been settled on the land under Dominion-Provincial agreements. On the basis of five to a family a total of 84,763 individuals has been absorbed into agriculture.

The Soldier Settlement of Canada is equipped to deal with certain phases of the work of several other departments and is rendering assistance to the War Veterans' Allowance Committee and the Board of Pension Commissioners, and to the Department of the Interior. The work involved in this connection is with respect to applications for relief by unemployed pensioners, with respect to special pension cases, pension and war veterans' allowance applications arising in rural districts, together with reports on applications for patent. From Sept. 1, 1930, to Dec. 31, 1932, 12,605 investigations of the type referred to have been carried out.

Section 7.—Department of the Secretary of State.1

The Department of the Secretary of State was constituted in its present form in 1873, through the merging of the previously-existing offices of the Secretaries of State for Canada and for the provinces. The Secretary of State is the official mouthpiece of the Government as well as the medium of communication between the Dominion and Provincial Governments, all correspondence between the Governments being conducted by him with the Lieutenant-Governors. He is also the custodian of the Great Seal of Canada and the Privy Seal as well as the channel by which the general public may approach the Crown.

The Secretary of State is also the Registrar-General, registering all proclamations, commissions, licences, warrants, writs, and other instruments issued under the Great Seal and the Privy Seal. He is further charged with the administration of the Boards of Trade Act, the Companies Act, the Canada Temperance Act, the Copyright Act, the Naturalization Act, the Patent Act, the Trade Unions Act, the Ticket of Leave Act, the Unfair Competition Act. The following information on these subjects has been secured in the course of administration.

Charters of Incorporation.—The number of companies incorporated under the Companies Act and amending Acts during the fiscal year 1931-32 was 760 with a total capitalization of \$294,770,312. Supplementary letters patent were granted during the year to 197 companies, 43 of which increased their capital stock by the aggregate amount of \$27,981,750; 44 decreased their capital stock by \$52,773,617; the remaining 110 were granted supplementary letters patent for various purposes, such as changing names, extending powers, etc. The total capitalization of new companies plus the increase of capital of existing companies amounted to \$322,751-062.

In Table 14 will be found the number and capitalization of companies incorporated during the years 1900-32.

¹ Revised by Thomas Mulvey, B.A., K.C., Under-Secretary of State, Department of the Secretary of State.

14.—Number and Capitalization of Companies Incorporated under the Companies Act and Amending Acts, calendar years 1900-07, and fiscal years ended Mar. 31, 1908-32.

	New C	ompanies.	Old Cor	npanies.	Gross Increase	Old Cor	npanies.	Net Increase
Year,	Number.	Capital- ization.	Number.	Increase in Capital.	in Capital- ization.	Number.	Decrease in Capital.	of Capital- ization.
1900	55 126 187 206 293 374 378 64 450 454 575 835 647 461 534	\$ 9,558,906 7,662,552 51,182,850 83,405,340 80,597,752 99,910,900 180,173,075 132,686,300 121,624,875 301,788,300 447,626,999 645,212,300 361,708,567 208,283,633 157,342,800		\$ 3,351,000 3,420,000 5,055,000 5,055,000 5,854,520 3,366,000 9,685,000 9,685,000 72,293,000 66,589,500 24,715,600 42,933,000 64,715,600 42,939,000 63,599,003 26,650,000	\$ 12,909,900 11,082,652 6,227,850 89,259,340 83,963,752 109,596,900 212,576,075 151,778,200 493,317,870 483,131,400 490,566,996 62,200 425,307,570 224,933,838,800		\$ - - - - - - 670,660 10,650,000 17,880,800 11,861,381 3,290,000 6,840,000 4,811,700	\$ 12,909,900 11,082,552 56,237,850 89,259,34C 83,963,752 109,595,900 212,576,075 151,778,200 472,481,400 472,688,199 669,100.31,4164,000 472,481,400 472,481,400 472,2017,570 228,093,633 221,527,100
1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1931	574 512 991 862 875 752 604 663 801 1,102 1,202 1,280 598	207, 967, 810 335, 982, 400 214, 326, 000 603, 210, 850 752, 962, 683 331, 555, 900 314, 603, 055 204, 646, 283 231, 044, 900 692, 540, 900 692, 540, 900 1,346, 138, 367 562, 613, 797 64, 686, 412	41 699 88 135 43 45 58 47 48 70 82 128 127 75	293,496,890 153,524,400	405,303,800 281,909,825 688,398,600 831,865,683 369,830,900 360,711,550 219,999,088 246,594,372 386,646,300 726,084,900	4 11 10 17 13 30 27 28 47 40 31 40 35	46,955,000 50,604,555	403 419 500 279 793 640 668 868 600 824 167 383 364 709 450 349 960 427 162 054 628 202 730 740 842 848 520 709 159 855 680 639 659 1,770,397,127 1,592,880,167

Naturalizations.—The naturalizations effected under the Naturalization Act (R.S.C., 1906, c. 77) for the calendar years 1908-17 inclusive, were given on p. 594 of the Year Book for 1919. Since Jan. 1, 1918, the only method of obtaining naturalization has been under what is known as the "Imperial" Naturalization Act, which came into force on Jan. 1, 1915. This Act was known under the title of the Naturalization Act, 1914, until July 7, 1919, when it was repealed and the Naturalization Act, 1919, came into force. On July 1, 1920, the Naturalization Act, 1919, was repealed, and the Naturalization Act, 1914, was revived and amended under the title of the Naturalization Acts, 1914 and 1920. By an amendment passed by Parliament in 1923, the restriction by which persons of alien enemy birth were ineligible to receive certificates of naturalization for a period of 10 years after the termination of the War was removed, and at the present time any alien may apply for naturalization, regardless of his nationality. All these Acts have been consolidated in R.S.C., 1927, c. 138. Since Jan. 15, 1932, women British subjects on marrying aliens may by declaration retain their British nationality, if they have not by marriage acquired their husband's nationality, and the wives of aliens no longer become British subjects through their husbands' naturalization. They must apply to the Secretary of State.

Table 15 shows the number of naturalization certificates issued to single persons or heads of families under these Acts during the calendar years from 1923 to 1931. The total number of persons naturalized during the fiscal year ended Mar. 31, 1932, was 32,519, including (except as stated above) the wives and minor children of those to whom naturalization certificates were issued.

15.—Naturalizations in Canada, by Principal Nationalities, under the Naturalization Act, calendar years 1923-31.

Nationality.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.
Alghans	-	-	_		-	. .	-		1
Albanians	5	3 -	12	4	8 -	1 1	9	4	
Argentinians	1	- 100	1	- 1	2	2	1	4	
Austrians	606	1,108	1,021	1,195	925	728	890	1,004	1,050
Austro-Hungarians	10	15	9	4	7	2	5	4	
Austrians (Serbian) Austrians (Ukrainian)	_	1	_	1	-	_	_	_	
Belgians	129	157	192	204	157	169	264	274	257
BoliviansBrazilians	4	_	- 1	2	<u>-</u>	2	3	ī	_
Bulgariane	32	74	76	58	69	46	64	41	87
Chilians	10	60	50	$\frac{1}{32}$	29	28	24	2 23	. 22
Colombians	-	-		-	ĩ		-	l -	-
Cubana Czechoslovaks	64	115	60	47	38	57	287	2 287	646
Danes	93	79	108	105	116	132	208	217	249
Danzigers Dutch	51	- I 85	67	75	1 79	1 164	112	143	200
Egyptians	î	2	-	2	1	-	1	1	_
Estonians Finns	74	152	184	119	2 128	8 133	9 288	10 276	14 319
French	96	105	107	140	128	98	118	119	154
GermansGreeks	144 268	346 384	246 292	229 167	183 161	171 153	288 173	420 180	449 92
Greeks (Albanian) Greeks (Turk)		- 1	-		î	100	1.5	-	-
Greeks (Turk)	24	112	1 71	69	37	45	184	396	780
Icelanders	_	5	10	15	15	į7	12	17	30
Italiana	886	1,366	1,258	1,589	1,270	1,146	1,739	1,186	1,183
Italians (Greek)	29	92	53	88	17	35	18	33	1
Latviana	-	<u>-</u> .	-	- 1	17 46	30 55	25 55	25 46	29 130
LithuaniansLuxemburgers	5	;	5	6	2	5	34	2	130
Macedonians	- 1		_	-	-	-	- 1	1	
Mexicans	i	ī	2	2	1 2	_ 1	1 2	3	
Montenegrins	_	207	188	192	202	5 197	7 424	2 381	1
Norwegians	1 5 1 5	207	160	3	2	4	726	6	412
Persians	i	4	. 5	8	2	3	1	4	
Persians (Armenian)	_		1 -	_	<u>-</u>	_	_	1 1	_
Poles.,	654	926	749	1,339	1,189	962	1,295	1,218	2,623
Poles (Ukrainian) Portuguese	12	- 1	1	1	1	ī	1	3	_
Roumaniane	475	620	561	626	570 981	437 858	671 1.687	588	614 2.527
Russians Serb-Croat-Slovenes	1,206 80	1,240 119	989 117	1,119 116	80	78	295	1,910 404	2,52
Spaniards	5 188	10	- 8	12	5	10	7	8	
Subjects of Allied Powers Swedes	188 226	284	262	274	258	242	295	310	443
Swiss	48	42	48	31	9	18	26	38	27
Syrians Turkestan	_	-	_	_	-	ī			53
Turks	8	22	25	10	17	24	24	24	20
Turks (Armeniau) Turks (Bulgariau)	79 -	69	35 1	35 -	22	23	46	58	25
Turks (Greek)	7	2	12	11	4]	1	3	1	1
Turks (Mesopotamian) Turks (Palestinian)	2	- 1	l L	_	_	- 1	<u>-</u>	_ [_ ·
Turks (Syrian)	125	137	118	128	93	80	87	91	
U.S. CitizensVenezuelans	989 1	888	927	1,070	963	939	1,073	1,104	1.65
Section 61 Nationality undetermined	2	2	1	3	2	-	ì	2	
Nationality undetermined No nationality	- 3	4	1 -	-	_	1	_	1	
2-0 April Contactory		8,843	7,873	9,130	7,828	7,619	10,734	l	11,75
Tetais	6,795							10,906	

^{*}Under Section 6 of the Naturalization Act the Secretary of State is authorized, in his discretion, to grant a special certificate of naturalization to any person with regard to whose nationality as a British subject a doubt exists.

*Citizens of the Lebanese Republic.

Canada Temperance Act.—Under Parts I and II of this Act, provision is made for the prohibition of the sale of intoxicating liquors in counties and cities. The last vote taken under these parts was in the County of Compton, Quebec, on April 28, 1930, in response to a petition for the repeal of the Act in that county. The vote resulted in favour of the repeal, which became effective on June 14, 1930. Part III of the Act relates to penalties and prosecutions, Part IV to the prohibition of the importation and exportation of intoxicating liquors into and from the provinces, while Part V enacts provisions in aid of provincial legislation for the control of the liquor traffic.

Section 8.—The Royal Canadian Mounted Police.

The R.C.M. Police is a constabulary maintained by the Dominion Government. When organized in 1873 it was known as the North West Mounted Police; in 1904, its name was changed to the Royal North West Mounted Police and in 1920, to the Royal Canadian Mounted Police.

The Force is controlled and administered by a Minister of the Crown (at present, the Minister of Justice) and may be employed anywhere in Canada.

It is primarily responsible for the maintenance of law and order in Yukon, the Arctic regions, the unorganized Northwest Territories and, for a variety of services, for the Dominion Government in all provinces of the Dominion. A large number of the Dominion Departments utilize its service in investigations and in administrative work.

Amongst the many services rendered for the Dominion Government, the repression of the traffic in noxious drugs, the protection of Government buildings and dockyards, the enforcement of Dominion laws and the duties of the Preventive Service for the Department of National Revenue may be mentioned.

Under the R.C.M. Police Act, any province may enter into an agreement with the Dominion Government for the services of the R.C.M. Police to enforce provincial laws upon payment for its services.

In addition to the Dominion duties referred to, the Force at the present time has agreements with the Provinces of Prince Edward Island, Nova Scotia, New Brunswick, Manitoba, Saskatchewan and Alberta, whereby the R.C.M. Police is responsible for the enforcement of the Criminal Code and Provincial Statutes in those provinces.

The Force is divided into 14 divisions of varying strength distributed over the entire country. The term of engagement is 5 years for recruits with re-enlistment for 1 year or 3 years. The officers are commissioned by the Crown.

Recruits are trained at Regina, Saskatchewan. The course of training covers six months and consists of drill, both mounted and foot, and general instructions in police duties. The Force is distributed from Halifax to Vancouver and from Bache Peninsula, on Ellesmere island, in the far north, to the International Boundary between Canada and the United States.

The Force, which is commanded by a Commissioner whose Headquarters are at Ottawa, Ontario, had a strength of 2,348 on Sept. 30, 1932, including masters and seamen employed with the Preventive Service for the prevention of smuggling at sea, distributed as follows:—

16.—Strength and Distribution of the Royal Canadian Mounted Police as at Sept. 30, 1932.

Place.	Commissioner	Deputy Commissioner	Asst. Commissioners.	Superintendents.	Inspectors.	Surgeons.	Asst. Vet.	Staff Sergeants.	Sergeants.	Corporals.	Constables.	Special Constables.	Total Personnel.	Saddle Horses.	Team.	Total Horses.	Dogs.
P.E.I. N.S. N.B. Que Eastern Ont. Western Ont. Man Sask. Alta. "K" Division N.W.T "G" Division. B.C. Yukon	1	- - - - - - 1	2 2 1 1 1 1 7	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	176649366294442	1	1	1 4 2 12 2 7 9 4 1 3 1 1 46	2 17 9 6 33 7 26 27 3 11 4	3 28 19 21 46 12 18 44 37 11 15 7	15 122 78 111 280 51 147 269 182 60 101 29	11 14 2 11 43 37 22 12 5	83 341 127 156 401 78 208 407 299 102 147 49 2,348	35 3 15 75 73 38 2 241	3 2 15	38 5 15 90 73 38 4 263	200 36

Section 9.—The Civil Service of Canada.

Organization. Prior to 1882, appointments to the Civil Service were made directly by the Government. In that year, a Board of Civil Service Examiners was appointed to examine candidates and issue certificates of qualification to those successful at examinations. Appointments, however, were still made by the Government of the day.

The Royal Commission of 1907, appointed to inquire into the Civil Service Act and its operation, reported in favour of the creation of a Civil Service Commission. In 1908 this body was appointed; it consisted of two members appointed by the Governor in Council and holding office during good behaviour, but removable by the Governor General on address of the Senate and House of Commons. The Civil Service was classified into three divisions under the Deputy Heads of Departments, each division consisting of two subdivisions, each of these having its scale of salaries. The Commission was charged with the organization of and appointments to the Inside Service (at Ottawa), certain appointments to be made after open competition and others after qualifying tests, also with holding qualifying examinations for the Outside Service (the Service apart from Ottawa) to obtain lists from which selections could be made by the various Departments. All British subjects between 18 and 35 years of age who had resided in Canada for three years were eligible to try these examinations.

Revised by Wm. Foran, Secretary, Civil Service Commission, Ottawa.

In 1918 a third member of the Civil Service Commission was appointed, and by the Civil Service Act of that year the principle of appointment after open competition was applied to the Outside as well as the Inside Service. The Act also provided for the organization by the Commission of the various Government Departments, for a classification of all positions in the Service on a duties basis, for the establishing of new rates of compensation, and for the principle of promotion by merit whenever consistent with the best interests of the Service. Provision was also made for preference, in the matter of appointment to the Service, to be given to qualified applicants who had served in the Great War.

Civil Service Statistics.¹—From April, 1924, a monthly return of personnel and salaries has been made by each Department to the Dominion Bureau of Statistics, according to a plan that ensures comparability between Departments and continuity in point of time. The institution of this system was preceded by an investigation back to 1912, the summary results of which are presented in Table 17.

During the war years, as will be seen from Table 17, the number of employees increased very rapidly, as a result of the enlargement of the functions of government and the imposition of new taxes, necessitating additional officials as collectors. Such new services as the Department of Pensions and National Health and the Soldier Settlement Board were also created. The maximum was reached in January, 1920, when 47,133 persons were employed; this number has since decreased to 43,778 in January, 1932. It may be added that, out of 44,002 in March, 1932, 1,200 in the Income Tax Branch and 2,750 in the Department of Pensions and National Health, or 3,950 in all, were engaged in services of outstanding importance which had no existence before the War. Further, an additional 11,676 persons were, in March, 1932, employed in the Post Office Department, performing services of an industrial rather than of a governmental type, and receiving their salaries out of the payments of the public for services immediately rendered, rather than out of taxation. This postal service alone accounted for \$2,801,137 of the \$7,520,833 paid in salaries in March, 1932, or 37.25 p.c. of the total.

The statistics of numbers of employees and of salaries, now being secured monthly, are more comprehensive than those previously published, as a result of the inclusion of various classes of employees, largely "part-time", "seasonal" and "fees of office" employees, who were not included in the report published in 1925. These employees are largely in the Departments of Marine, Fisheries and Public Works. There remain, however, many persons in the "non-enumerated classes" whose numbers cannot be supplied monthly by the departmental officials but whose compensation is included in the monthly figures of expenditure on personnel, as shown in Table 18.

Revised by Col. J. R. Munro, Chief of the Finance Branch of the Bureau of Statistics, Ottawa.

17.—Summary of Civil Service Employees (Permanent and Temporary) of the Government of Canada, together with Total Salaries, in the mouth of January of the years 1912-22, inclusive.

Year,	Employees.	Salaries.	Bonus.	Salaries and Bonus.
	No.	\$		8
12	20,016	1,519,778	16,413	1,536,1
B.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	22,621	1,780,703	22,569	1,803.
14 , , , , ,	, 25,107	1,960,238	27,971	1,988.
15		2,268,700	82.167	2,300.
[6, , . , , , , , , , , , , , , , , , , ,	, 29,219	2,400,068	31,431	2,431,
! 7	32,435	2,673,767	29,167	2,702.
l 8 	38,369	3,147,461	94,321	3,241,
19	4(,825	3,552,686	557,882	4.110.
x0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		4,423,157	965,538	5.388.
21	41,957	4,414,669	861,973	5,276,
1 2		4,369,509	616, 105	4.985
:8 ,,		4,268,357	463,470	4.731.
4	38,062	4,297,467	449.228	4,746.
251 _{• • • • • • • • • • • • • • • • • • •}	38,645	4,473,470	166,461	4,639,
261,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	39,097	4,699,076	_	4,699,
271	39,440	4,786,615	-	4,786
281		5, 161, 558		5, 161,
291		5,428,058	-	5,428,
801,		5.543.749	- 1	5.543.
31	45,167	5,757,554	[5.757.
321,,		5,652,132	-	5,652.

¹Figures for January, 1925-32 are not comparable with those for preceding Januaries, because monthly records now being published include various classes of employees not included in the historical record for the 13 years 1912-24. In Table 21 will be found comparable figures of employees in the various Departments in March, 1931, and March, 1932.

Table 18, which gives statistics by Departments, with a further classification by principal branches where such are recorded, is included to give comparable figures for the latest months. In the month of March, 1932, the total number of employees in the enumerated classes was 44,002, and the total expenditure in wages and salaries for all classes of employees was \$7,520,834, as compared with 45,581 employees and \$7,895,591 respectively in March, 1931.

18.—Total Numbers of Civil Service Employees, by Departments and Principal Branches ("Non-Enumerated Classes" Excluded), and Total Expenditures on Salaries and Wages of all Employees ("Non-Enumerated Classes" Included), March, 1931, and March, 1932.

Dangatana	Ma	rch, 1931.	March, 1932.		
Department.	No.	Expenditure.	No.	Expenditure.	
I. Agriculture— Main Department. Experimental Farms Health of Animals.	1,152 482 613	\$ 162,125 123,085 105,859	1,259 507 619	\$ 178, 190 139, 908 107, 249	
Totals, Agriculture	2,247	391,069	2,385	420,344	
2. Archives	83 211 176 7	18,363 33,314 22,746 ² 958	81 220 155 4	13,176 33,811 21,855 568	
Main Department. The High Commissioner's Office. Canadian Legation, Washington. Canadian Legation, Paris. The League of Natione. Canadian Legation, Tokyo, Japan.	77 37 16 13 5	11,542* 5,763* 4,531* 2,351* 1,426* 2,036*	76 38 16 14 5	11,935 6,098 3,929 2,541 1,514 2,926	
Totals, External Affairs	155	27,6493	160	28,943	

For footnotes, see end of table, p. 1061.

18.—Total Numbers of Civil Service Employees, by Departments and Principal Branches ("Non-Enumerated Classes" Excluded), and Total Expenditures on Salaries and Wages of all Employees ("Non-Enumerated Classes" Included), March, 1931, and March, 1932—continued.

D-saut-sut	Ma	гс ћ, 1931.	March, 1932.		
Department.	No.	Expenditure.	No.	Expenditure.	
7. Finance. 3. Royal Canadian Mint. 9. Fisheries. 10. Governor General's Secretary*	405 382 10	\$ 48,440* 104,181 2,875	461 75 362 10	\$ 53,65 12,81 116,23 2,80	
II. House of Commons— Clerk of the House Sergeant-at-Arms	289 310	42,246 22,001	236 221	45,78 20,37	
Totals, House of Commons	599	64,247	457.	66,16	
12. Immigration and Colonization	883 696	115,444 66,019	781 698	105, 95 67, 84	
Educational Branch	378	23,645	379	23, 93	
Totals, Indian Affairs	1,074	89,664	1,077	91,78	
4. Insurance	40 2 2,037 5	7,563 535 320,592 2,393	41 2 1,125 5	7,91 54 193,57 2,39	
Main Department Clemency Branch Purchasing Agent's Office. Penitentiaries. Supreme Court	46 12 7 722 22	9,520 2,178 990 91,498 4,008	43 15 6 777 23	8,63 2,41 89 99,30 4,13	
Exchequer Court	10 819	1,947	10 874	117,30	
18. Labour— Main Department. Annuities. Technical Education. Dominion Unemployment Relief.	118 22 3	18,932 2,943 437	116 18 2 61	19,64 2,72 37 10,30	
Totals, Labour	143	22,312	197	33,04	
9. Library of Parliament	25	4,456	25	4,87	
Main Department	3,672 570	509,158 19,782	3,189 578	367,30 23,10	
Totals, Marine	4,242	528,940	3,767	390,50	
21. Mines. 22. National Defence— General Defence Administration. Militia Services. Naval Services. Air Services. Air Services. Military Topographic Surveys. Royal Military College. Dominion Arsenal, Quebec, inc. Ammun, Inspection.	532 6 274 596 159 165 27 78 59	150,912 39,310 54,396 35,351 18,558 5,147 10,477 27,097	394 274 592 156 164 28 79 59	72,85 40,46 54,05 39,46 18,6 5,35 10,71 27,75	
Totals, National Defence	1,358	190,336	1,352	196,87	
23. National Revenue	5,153 1,156	746,265 158,986	5,060 1,200	756,90 167,37	
Totals, National Revenue	6,309	905,251	6,260	924,27	
24. Pensions and National Health— Pensions Board of Pension Commissioners Health Pensions Appeal Court Pensions Tribunal	2,222 199 340 11 76	266,829 38,924 52,849 3,103 18,371	2, 125 204 325 10 86	261, 87 34, 55 58, 61 3, 13 18, 76	
Totals, Pensions and National Health	2,848	370,076	2,750	374,94	

18.—Total Numbers of Civil Service Employees, by Departments and Principal Branches ("Non-Enumerated Classes" Excluded), and Total Expenditures of Salaries and Wages of All Employees ("Non-Enumerated Classes" Included), March, 1931, and March, 1932—concluded.

Description	Ma	rch, 1981.	March, 1982.		
Department.	No.	Expenditure.	No.	Expenditure.	
25. Post Office— Civil Government	944 11,017	\$ 123,510 2,777,003	931 10,745	\$ 124,665 2,676,472	
Totale, Post Office	11,961	2,900,513	11,676	2,801,137	
26. Privy Council 27. Public Printing and Stationery 28. Public Works—	18 721	4,080 111,096	18 709	3,980 114,356	
Civil Government. Outside Service. Government Telegraph Service.	338 3,183 529	59,066 367,651 40,887	326 3,209 415	57,355 328,156 34,068	
Totals, Public Works	4,050	467,604	3,950	419,577	
29. Railways and Canals. Board of Railway Commissioners. 30. Royal Canadian Mounted Police. 31. Secretary of State. Patente and Copyrights. 32. Senate. 33. Soldiers' Settlement Board. 34. Trade and Commerce.	1,330 211 78 114 106 126 504	306, 428 23, 611 105, 607 14, 929 15, 308 16, 534 83, 904	1,095 108 88 113 101 123 369	247, 680 25, 103 133, 633 14, 894 14, 785 16, 292 58, 345	
Headquarters and Miscellaneous Branches. Board of Grain Commissioners Dominion Bureau of Statistics. Weights and Measures. Electricity and Gas. Commercial Intelligence Service. Motion Picture Bureau. Exhibitions. Canadian Government Elevators.	160 861 318 125 99 91 24 30 162	29,382 137,192 36,129 19,647 16,860 44,592 3,610 9,941 21,172	178 882 1,035 124 98 99 26 23 167	33,676 136,155 99,088 19,549 16,995 44,936 3,960 7,968 22,033	
Totals, Trade and Commerce	1,870	318,525	2,632	384,300	
Grand Totals	45,581	7,895,591	44,002	7,520,834	

Including Commissioners and their salaries. ²Refund of \$297 has been deducted. ³Including living allowance. ⁴Refund of \$1,440 has been deducted. ⁵Salaries of A.D.C.'s are included, but not their number. ⁶The actual number of employees was 402. The salaries of 130 seasonal temporary employees engaged for varying periods throughout the year were charged to this month.

Section 10.—Harbour Commissions.

The administration of the Harbour Commissions continues to be as outlined at p. 1013 of the Year Book for 1930. The recommendations in the report of Sir Alexander Gibb and Partners, referred to in last year's Year Book, which, if put into effect, will call for a very considerable change in the present method of administering the harbours that are placed under the Commission form of administration, are still under study by the Government but no definite action has as yet been announced as a result of this study.

Section 11.—Race Track Betting.

By an amendment to Section 235 of the Criminal Code, passed in 1920, the supervision of race track betting, under the pari-mutuel system, was placed in the hands of the Minister of Agriculture. The actual supervision is carried out by officers of the Royal Canadian Mounted Police and operated for the first time during the racing season of 1921. Statistics are available from the year 1924 and are shown in Table 19 for the Dominion as a whole, while Table 20 shows the operations by provinces for the fiscal year ended Mar. 31, 1931.

19.—Race Track Betting in Canada, 1924-31.

Fiacal Year.	Number of Associ- ations.	Number of Days Racing.	Amounts Wagered.	Pari- Mutuel Receipts Retained.	Prize Money.
1924 1925 1926 1927 1927 1928 1928 1929 1930	30 33 32 31 32 30 30 30	354 344 322 354 350 335 332 326	\$ 52,600,633 49,867,765 44,346,672 47,915,828 45,580,845 36,007,146 33,377,786	\$ 3,496,891 2,359,708 3,018,358 3,278,179 3,154,644 8,104,456 2,657,059 2,379,558	\$ 2,023,665 1,925,735 1,807,780 2,034,587 1,973,730 1,886,800 1,802,095 1,564,945

28.—Race Track Betting in Canada, by Provinces, 1931.

Province.	Number of Associ- ations.	Number of Days Kacing.	Amounta Wagered.	Pari- Mutuel Receipts Retained.	Prize Money.
Quebec. Ontario. Manitoba. Saskatchewan. Alberta. British Columbia.	9 2	84 119 28 6 34 55	\$ 5,237,716 20,009,700 3,101,504 179,702 1,350,907 3,498,257	\$ 383,590 1,393,140 229,222 13,540 100,954 259,112	\$ 303,300 857,900 145,100 10,000 75,145 173,500
Totals	30	326	32,377,786	2,879,558	1,661,945

Section 12.—The Advisory Board on Tariff and Taxation.

As indicated at p. 958 of the Year Book for 1932, provision was made by the present Government (c. 55 of the Statutes for 1931) for the appointment of a new Tariff Board. Part I of the Act defined the constitution, duties and powers of the Board, while Part II provided for the exercise, by the Tariff Board, of the duties of the Board of Customs and the substitution of the former for the latter body.

The functions of the Board were somewhat widened following the Imperial Economic Conference held in Ottawa in July, 1932, and it was announced that the Board would be responsible for seeing that the spirit and the letter of the undertakings then made with the United Kingdom are carried out. British manufacturers have the right to appear before the Board.

On Feb. 6, 1933, the following members were appointed to the Board: The Hon. George Herbert Sedgewick, a Justice of the High Court of Ontario, Toronto, Chairman; Milton Neil Campbell, Esq., M.P., Pelly, Sask., Vice-Chairman; and Charles Herbert, Esq., B.A., Montreal. The first hearing of the Board was scheduled to take place on July 13, 1933.

Section 13.—Other Miscellaneous Administration.

In previous editions of the Canada Year Book this chapter has been brought to a close with outlines of Dominion Government administration as follows:—

The International Joint Commission.

The Geodetic Survey of Canada.

The Topographical Survey.

The Dominion Observatories.

No material change has taken place in the functions of these organizations and the reader is referred to pp. 1014-1017 of the 1930 Year Book for this information.

CHAPTER XXIX.—SOURCES OF OFFICIAL STATISTICAL AND OTHER INFORMATION RELATIVE TO CANADA.

The chief source of information on the current state of the country is the Dominion Bureau of Statistics, organized as the central statistical bureau for Canada, and described in the first part of this chapter; a list of its publications, which cover almost the whole field of the national statistics, is given in Section 1.

The second section of the chapter contains a list of the Acts of Parliament administered by the several departments of the Dominion Government, and the third section a bibliography of the publications of these departments. This is followed, in Section 4, by a bibliography of the publications of Provincial Governments.

Section 1.—The Dominion Bureau of Statistics.1

The Dominion Bureau of Statistics was set up by Statute in 1918 as a central statistical department for Canada (8-9 Geo. V, c. 43). The Act was a consolidation of all previous statistical legislation and was based on the report of a Commission on Statistics, appointed in 1912, which recommended (a) a series of specific reforms and enlargements in Canadian statistics, and (b) a policy of statistical co-ordination for the Dominion, under central direction. In 1915, following the recommendations in this report, the office of Dominion Statistician was created.

The Bureau has been constituted by the transfer or absorption, by Orders in Council, of the following work and branches: (1) the Census and Statistics Office (covering the census, and also agriculture, general manufactures and criminal statistics), (2) Fisheries Statistics, (3) Mining Statistics, (4) Forestry Statistics, (5) Dairying and Fruit Statistics, (6) Water- and Electric-Power Statistics, (7) the Railways and Canals Statistical Branch of the Department of Railways and Canals, (8) the Trade Statistical Branch (exports and imports), (9) Grain Trade Statistics, (10) Live-Stock Statistics, (11) Prices Statistics, and (12) Employment Statistics. In addition four new branches were created, dealing respectively with Public Finance, Internal Trade, Vital Statistics, and Education. Subsequently the statistical activities of the Fuel Controller and the Board of Commerce were absorbed. Modifications of the Bankruptcy, Public Health and Railway Acts, and of the regulation re franking privileges were also made, with a view to facilitating the collection of statistics.

The Bureau has completed the plans for a unified, nation-wide statistical system, covering every important phase of social and economic activity, and has carried them out to a considerable degree.

The main achievement of the Bureau has been in the organization of the several subjects in correlation with each other in accordance with this general plan, and the consequent establishment of a comprehensive viewpoint of the country as a "going concern" In addition, there has been created what is frequently called a central "thinking office" in statistics, continuously in touch with general conditions and the line of probable developments.

¹A more complete account of the formation and activities of the Bureau of Statistics will be found on pp. 961-964 of the 1922-23 Year Book.

The final concept in the organization of the Bureau of Statistics is that of a national laboratory for social and economic research. Statistics are not merely a record of what has been, but are for use in planning what shall be; it is the duty of a statistical bureau to assist directly in the day-to-day problems of administration, as well as to provide their theoretic background. One of the most significant of recent developments in administration is the extent to which statistical organization has been increased as a guide to national policy. Though its usefulness has only begun, the Dominion Bureau of Statistics has laid the foundations for a service comparable with the increasingly important position taken by Canada in the economic and political world.

Publications of the Bureau.—The first annual report of the Dominion Statistician contained a full description of the organization of the Bureau and of its subject matter.1 The main Branches of the Bureau are as follows; I. Administration; II. Population—Census and Vital Statistics; III. Agricultural Statistics; IV. Fisheries, Furs and Dairy Products; V. Mining, Metallurgical and Chemical; VI. Forestry and Allied Industries; VII. General Manufactures; VIII. External Trade (Imports and Exports): IX. Internal Trade; X. Transportation; XI. Financial Statistics; XII. Statistics of Administration of Justice; XIII. Education Statistics: XIV. General Statistics. The publications of the several Branches are as follows:-

ADMINISTRATION—

Annual Report of the Dominion Statistician.

POPULATION---

Census-

Census of Population and Agriculture, 1931.

Bulletins of the Seventh Census of Canada, 1931, as follows:-

 Population:—Preliminary Bulletins.—(1) to (3) Cities, Towns and Villages. (4) Ontario Villages. (5) Montreal Island. (6) Cities, Towns and Villages. (7) Villages of Manitoba, Saskatchewan and Alberta. (8) Villages of Quebec. (9) Cities, Towns and Villages. (10) Maritime Provinces by Federal Electoral Districts. (11) Ontario by Federal Electoral Districts. (12) Prairie Provinces by Federal Electoral Districts. (13) Quebec by Federal Electoral Districts. (14) British Columbia by Federal Electoral Districts; Yukon and Northwest Territories. (15) Canada by Provinces. (16) Cities probaging Census Bulletins 1, 2, 3, 5 and 6 Electoral Districts. (13) Quebec by Federal Electoral Districts. (14) British Columbia by Federal Electoral Districts; Yukon and Northwest Territories. (15) Canada by Provinces. (16) Cities replacing Census Bulletins 1. 2. 3, 5 and 6. (17) Towns replacing Bulletins 1. 2, 3, 5, 6 and 9. Final Bulletins.—(I) New Brunswick. (II) Nova Scotia. (III) Manitoba. (IV) Canada by Provinces. (IVa) Canada by Provinces, replacing IV. (V) Saskatchewan. (VI) Alberta. (VII) Quebec. (VIII) Ontario. (IX) British Columbia. (X) Prince Edward Island. (XI) Rural and Urban Population. (XII) Yukon and Northwest Territories. (XIII) Cities, Towns and Villages in Canada by Provinces. (XIV) Religions by Provinces. (XV) Birthplaces by Provinces. (XVII) Ages by Provinces. (XVII) Conjugal Condition by Provinces. (XVIII) School Attendance and Literacy by Provinces. (XIX) Radio Sets in Canada, 1931. (XX) Population of Canada, 1931, by Provinces, Electoral Districts and Subdistricts. (XXI) Population of Canada, 1931, by Religious Denominations. (XXII) Population of Canada, 1931, by Religious Denominations. (XXII) Population of Canada, (XXV) Number and Percentage Single, Married, Widowed or Divorced of the Total Population, by Sex and Provinces, 1911, 1921 and 1931. (XXVII) Age Distribution by Single Years of Age for Canada, by Provinces, 1931. (XXVII) Immigrant Population Classified by Sex, Country of Birth, Province of Residence, Years of Arrival in Canada and Citizenship of the Foreign Born, 1931. (XXVIII) Gainfully Employed Ten Years of Age and Over Classified According to Occupation and Sex for Cities of 30,000 and Over, 1931. (XXIIX) Birthplace of the Population Classified According to Nativity of Parents for Canada and Provinces, 1931. Unemployment and Wage Earner Bulletins: (I) Saint John, N.B.; (II) Winnipeg, Man.; (III) Kitchener, Ont.; (IV) Ottawa, Ont.; (V) Vancouver, B.C.; (VI) Hamilton, Ont.; (VII) Calgary, Alta.

This report for the year ended Mar. 31, 1919, is now out of print.

POPULATION—concluded.

Census---

- (2) Census of Institutions:—Preliminary Bulletin.—(1) Mental Institutions.
- (3) Agriculture:—Preliminary Bulletins.—(1) Number of Occupied Farms by Counties or Census Divisions 1931 and 1921; and the Number of Vacant or Abandoned Farms
 1931. Preliminary Acreage: (1) Prince Edward Island. (2) New Brunswick. (3)
 Saskatchewan. (4) Manitoba. (5) British Columbia. (6) Ontario. (7) Nova (8) Quebec. (9) Alberta. (10) Canada. Live Stock by Counties: (11) dward Island. (12) Nova Scotia. (13) New Brunswick. (14) Ontario Scotia. (8) Quebec. (9) Alberta. (10) Canada. Live Stock by Counties: (11) Prince Edward Island. (12) Nova Scotia. (13) New Brunswick. (14) Ontario Preliminary Acreage by Counties. (15) Manitoba Live Stock by Census Divisions. (16) New Brunswick Preliminary Acreage by Counties. (17) Alberta Live Stock by Census Divisions. (18) Saskatchewan Live Stock by Census Divisions. (19) British Columbia Live Stock by Federal Electoral Districts. (20) Quebec Live Stock by Counties. (21) Ontario Live Stock by Counties. Farm Holdings by Size for Provinces, Counties or Census Divisions. Farm Facilities by Provinces. Total Number of Farms, Farm Tenure, Farm Acreage, Farm Values, Mortgage Debt and Farm Expenses by Provinces. Farms Reporting Live Stock by Kinds and Total Number of Animals Reported for Each Kind. Final Bulletins.—Area and Yield of Field Crops 1930 and 1920: (22) Prince Edward Island; (23) Nova Scotia; (24) New Brunswick: (25) Ontario; (26) Quebec. Live Stock on Farms by Provinces. Tenure of Farm Lands by Provinces, Counties or Census Divisions. Number of Farm Workers, Weeks and Cost of Hired Labour, 1930. Fruit Trees on Farms, by Provinces. 1931 and 1921. Vegetables.—Area in 1931 and Area, Production and Value in 1930, by Provinces. Animal Products on Farms, by Counties: (1) Prince Edward Island; (11) Nova Scotia; (111) New Brunswick; (117) Manitoba; (V) Saskatchewan; (VI) Alberta; (VII) Ontario; (VIII) Quebec; (IX) British Columbia. Live Stock on Farms, by Counties: (X) Prince Edward Island; (XI) Nova Scotia; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (XIII) Manitoba; (Prince Edward Island. (XV) Alberta; (XVI) British Columbia; (XVII) Ontario.

Census of Population and Agriculture, 1921.

Bulletins of the Sixth Census of Canada, 1921, as follows:-

- Bulletins of the Sixth Census of Canada, 1921, as follows:—

 Population: (a) Population of Canada, 1921, by Provinces, Electoral Districts, Cities, Towns, etc. (b) Religions of the People, 1921. (c) Origins of the People, 1921. (d) Dwellings and Families, 1921. (e) Birthplaces of the People, 1921. (f) Citizenship of the Foreign-born, 1921. (g) Year of Immigration, 1921. (h) Ages of the People, 1921. (i) Conjugal Condition of the People, 1921. (j) Language Spoken and Mother Tongue, 1921. (k) Literacy, 1921. (l) School Attendance, 1921. (m) Occupations, 1921. (n) Children in Gainful Occupations, 1921. Also bulletins on population by provinces as follows: (a) Population of Nova Scotia—Electoral Districts, etc. (b) Population of Prince Edward Island—Electoral Districts, etc. (c) Population of New Brunswick—Electoral Districts, etc. (d) Population of Ouebee—Electoral Districts, etc. (e) Population of Ouebee—Electoral Districts, etc. (e) Population of Ouebee—Electoral Districts, etc. (e) Population of Ouebee—Electoral Districts, etc. (e) Population of Ouebee—Electoral Districts, etc. (e) Population of Ouebee. Districts, etc. (c) Population of New Brunswick—Electoral Districts, etc. (d) Population of Quebec—Electoral Districts, etc. (e) Population of Ontario—Electoral Districts, etc. (f) Population of Manitoba—Electoral Districts, etc. (g) Population of Saskatchewan—Electoral Districts, etc. (h) Population of Alberta—Electoral Districts, etc. (i) Population of British Columbia—Electoral Districts,
- (2) Agriculture: (a) Field Crops of Prairie Provinces, 1921. (b) Agriculture of Canada —General Summary. (c) Pure-bred Domestic Animals, 1921. (d) Agriculture of Nova Scotia, 1921. (e) Agriculture of Prince Edward Island, 1921. (f) Agriculture of New Brunswick, (921. (g) Agriculture of Quebec, 1921. (h) Agriculture of Ontario, 1921. (i) Agriculture of Manitoba, 1921. (j) Agriculture of Saskatchewan, 1921. (k) Agriculture of Alberta, 1921. (l) Agriculture of British Columbia 1921. umbia, 1921.

Reports of the Sixth Census of Canada, 1921, as follows:—
Vol. I. Introduction—Number, Sex and Distribution—Racial Origins—Relig-

- Vol. II. Ages-Conjugal Condition-Birthplace-Birthplace of Parents-Year of Immigration and Naturalization—Language Spoken and Mother Tongue—Literacy—School Attendance—Blindness and Deaf-Mutism. (Out of print.)
- Vol. III. Families—Dwellings—Ownership of Homes—Rentals—Earnings. (Out of print.)
- Vol. IV. Occupations and Employment.
- V. Agriculture. Farm Holdings by size, tenure, value, etc.—Farm Products—Field Crops—Vegetables—Fruits—Forest Products—Live Stock—Animal Products—Statistics of Operators.

POPULATION—concluded.

Census—

Census Monographs, 1921.

Illiteracy and School Attendance in Canada.

Origin, Birthplace, Nationality and Language of the Canadian People.

III. Census of Population and Agriculture of the Prairie Provinces, 1926.

Report of the Census of Population and Agriculture of the Prairie Provinces, 1926.

Census of Manitoba-Population and Agriculture.

Census of Saskatchewan-Population and Agriculture.

Census of Alberta-Population and Agriculture.

Preliminary Bulletins as follows: (a) Population of Manitoba-Electoral Districts, etc. (b) Population of Saskatchewan—Electoral Districts, etc. (c) Population of Alberta—Electoral Districts, etc. (d) Animals on Farms in the Prairie Provinces, 1926. (e) Farm Lands and Crops in the Prairie Provinces, 1926.

IV. Intercensal Estimates of Population.

Births, Deaths and Marriages—

V. Vital Statistics.

Annual Report on Vital Statistics of Canada by Provinces and Municipalities. Preliminary Annual Report on Vital Statistics of Canada.

Preliminary Quarterly Report on Vital Statistics of Canada.

Monthly Report of Births, Deaths and Marriages registered in Cities. Report of Conference on Vital Statistics, held June 19-20, 1918, pp. 1-48.

Special Report on Contributory Causes of Death, 1926, Order of Birth in the Registration Area of Canada, 1925.

Physicians' Pocket Reference to the International List of Causes of Death.

PRODUCTION—

I. General Summary of Production.

Including and differentiating (gross and net) (1) Primary Production (Agriculture, Fishing, Furs, Forestry and Mining) and (2) Secondary Production, or General Manufactures.

II. Agriculture.

(1) Agricultural Production.

Monthly Bulletin of Agricultural Statistics. The official record of current statistical data relating to agriculture. (Contains reports on agricultural conditions, prices, weather, etc.—estimates of areas, yields, quality and value of field crops—value of farm lands-wages of farm help-number and values of farm live stock and poultry-statistics of fruit and floriculture-dairying-tobacco-hives and honeymaple syrup and sugar—clover and grass seed—miscellaneous crops—stocks of grain—annual summary of value of agricultural production—index numbers of agricultural prices, yields and values—international agricultural statistics.)

Advance Summaries of Agricultural Statistics.

Telegraphic Crop Reports (between the first of June and the first of September, weekly for the Prairie Provinces and every two weeks for the rest of Canada). Agricultural Statistics by Counties and Crop Districts, 1922-24 and 1925-29. Annual Statistics of Fruit and Florieulture, latest issue, 1932.

Handbook of Instructions to Crop Correspondents, and Summary of Annual Agricultural Statistics, 1931.

[See also Censuses of Agriculture above.]

(2) Grain and Grain Products.

(a) Annual Report on the Grain Trade of Canada; (b) Monthly Review of the Wheat Situation; (c) Canadian Grain Statistics—weekly report on grain supplies and movements; (d) Canadian Milling Statistics—monthly; (e) List of Mills with Capacity; (f) The Grain Situation in the Argentine—monthly; (g) The Production and Distribution of Coarse Grains; (i) Barley.

(8) Live Stock and Animal Products. (a) Annual Report on Live Stock and Animal Products Statistics; (b) Monthly Reports on Stocks in Cold Storage; Advance, Preliminary and Final; (c) Annual Estimates of the Consumption of Meats, Butter, Cheese, Eggs and Poultry in Canada.

(4) Other. Monthly Report on Raw and Refined Sugar (visible supply, meltings, shipments, exports and imports).

PRODUCTION—continued.

Advance Summary of Fur Farm Statistics. Annual Report on Fur Farms.

Advance Summary of Statistics of the Production of Raw Furs.

Annual Report on the Production of Raw Furs, comprising the pelts taken by trappers and those sold from fur farms.

Annual Report on Fisheries Statistics.

Advance Summaries on Fish Caught and Marketed, by Provinces.

V. Forestry

Annual Summary of the Value, etc., of Forest Production. (Covers operations in the woods for saw-mills, shingle mills, pulp and paper mills, etc., production of mining timber, production of poles and cross ties, and farm production (decennial) of firewood, posts, etc.)

[See also Reports on Manufactures of Forestry Products listed under "Manufactures" Section VII, subsection (5).]

VI. Mineral Production: (Mining and Metallurgy.)

(1) General.

(a) Annual Report on the Mineral Production of Canada; (b) Preliminary Reports (semi-annual) on the Mineral Production of Canada; (c) Monthly Reports on Leading Minerals.

(2) Coal.

- (a) Annual Report on Coal Statistics for Canada; (b) Monthly Summary Report on Coal and Coke Statistics for Canada; (c) Quarterly Report on Coal and Coke Statistics for Canada.
- (3) Annual Bulletins on Mining as follows:-
 - Metals—(a) Arsenic; (b) Cobalt; (c) Copper; (d) Gold; (e) Lead; (f) Nickel;
 (g) Metals of the Platinum Group; (h) Silver; (i) Zinc; (j) Miscellaneous Metals,
 including Aluminium, Antimony, Chromite, Iron Ore, Manganese, Mercury, Molybdenum, Tin, Tungsten.
 - Non-Metallic Minerals—(a) The Abrasive Industry; (b) The Asbestos Mining Industry; (c) The Feldspar and Quartz Mining Industry; (d) The Gypsum Mining Industry; (e) The Iron Oxides (Ochres) Mining Industry; (f) The Mica Mining Industry; (g) The Salt Industry; (h) The Tale and Soapstone Mining Industry; (i) The Crude Petroleum Industry; (j) The Natural Gas Industry; (k) Miscellaneous Non-Metallic Minerals—Actinolite, Barytes, Bituminous Sands, Fluorspar, Graphite, Magnesite, Bog Manganese, Mineral Waters, Peat, Phosphate, Silies Brick Sodium Carbonate Sodium Sulphate Sulphar Phosphate, Silica Brick, Sodium Carbonate, Sodium Sulphate, Sulphur.
 - 3. Structural Materials—(a) Cement; (b) Clay and Clay Products; (c) Lime; (d) Stone.
- (4) Annual Bulletins on Mining Industries as follows:-
 - Metal Mining—(a) Gold Mining Industry (including Alluvial Gold Mining, Auriferous Quartz Mining, and Copper-Gold-Silver Mining); (b) Silver-Cobalt and Silver-Lead-Zinc Mining Industries. (c) Nickel-Copper Mining, Smelting and Refining Industry; (d) The Non-Ferrous Smelting and Refining Industry, and also separate bulletins on the Canadian production of copper, metals of the platinum group, and miscellaneous metals.

[See also Reports on Iron and Steel and their Products, Manufactures of Non-Ferrous Metals, and Chemicals and Allied Products, listed under "Manufactures", Section VII, Subsections (6), (7), (8) and (9).]

VII. Manufactures.

- (1) General—General Summary for Canada, also for the Provinces and Leading Cities (industrial groups classified by component materials, purposes and origins of products—comparative statistics); Alphabetical List of Products; Quantity of Manufacturing Production in Canada, 1923-29.
- (2) Manufactures of Vegetable Products—General Report. Annual Bulletins as follows:

 (a) Coffee, Tea and Spices; (b) Fruit and Vegetable Preparation, including canning, evaporating and preserving and Pickles, Sauces, Vinegar and Cider; (c) Flour and Grist Mill Products; (d) Bread and other Bakery Products; (e) Biscuits and Confectionery including Cocoa and Chocolate; (f) Macaroni and Vermicelli; (g) Liquors, Distilled; (h) Liquors, Malt; (i) Liquors, Vinous; (j) Rubber Goods and Rubber Boots and Shoes; (k) Prepared Breakfast Foods; (l) Sugar Refineries; (m) Tobacco Products; (n) Linseed Oil and Oil Cake; (e) The Canned Foods Industry; (p) Ice Cream; (q) Pack of Fruits and Vegetables; (r) Barley and Its Production; (s) Mixed Feed Trade in Canada.

PRODUCTION—continued.

(3) Animal Products and their Manufactures—Annual Reports and Bulletins as follows:
(a) The Dairy Factory Industry; (b) Slaughtering and Meat Packing and Sausage and Sausage Casings; (c) Fish and Fish Products; (d) Leather Tanneries; (e) Harness and Saddlery, Leather Belting, Trunks and Valises, Miscellaneous Leather Goods; Boot and Shoe Findings, Leather; (f) Leather Boots and Shoes; (g) Leather Gloves and Mitts; (h) Fur Goods, Fur Dressing. Monthly Report on Boot and Shoe Production. Monthly Report on Concentrated Milk Products. Monthly Report on Creamery Butter Production.

[See also Reports on Live Stock, etc., listed under "Agriculture".]

- (4) Textile and Allied Industries—General Report on The Textile Industries of Canada. Annual Bulletins as follows: (a) Cotton Textiles (cloth, yarn, thread and waste): Amula Bulletins as follows: (a) Cotton Textiles (cloth, yarn, thread and waste); (b) Woollen Textiles (cloth, yarn, waste, carpets, etc., and woollen goods, n.e.s.); (c) The Silk Industry; (d) Clothing, Men's Factory; (e) Clothing, Women's Factory; (f) Hats and Caps; (g) Hosiery and Knitted Goods; (h) Men's Furnishings, n.e.s.; (l) Olled Clothing and Waterproofs; (j) Cordage, Rope and Twine; (k) Corsets; (l) Cotton and Jute Bags; (m) Dyeing, Cleaning and Laundry Work; (n) Dyeing and Finishing of Textiles; (o) Production and Distribution of Raw Wool in Canada.
- (5) Manufactures of Forestry Products—Printed Annual Reports as follows: (1) The Lumber Industry; (2) The Pulp and Paper Industry; (3) Wood-Using Industries; (4) Paper-Using Industries. Mimeographed Preliminary Annual Reports as follows: (a) The Lumber Industry; (b) Lumber Distribution in Canada and the United States (biennial); (c) The Pulp and Paper Industry; (d) Planing Mills, Sash and Door Factories; (e) Hardwood Flooring; (f) Furniture; (g) Boxes, Baskets and Crates; (h) Carriages, Wagons and Materials; (i) Cooperage; (j) Coffins and Caskets; (k) Sporting Goods; (l) Boatbuilding; (m) Lasts, Trees and Shoe Findings; (n) Handles, Spools and Woodturning; (o) Woodenware; (p) Excelsior; (q) Miscellaneous Wood-Using Industries; (r) Printing and Publishing; (s) Printing and Bookhinding; (t) Lithographing; (u) Engraving, Electrotyping, Stereotyping and Blueprinting; (v) Trade Composition; (w) Paper Boxes and Bags; (x) Stationery and Envelopes; (y) Roofing Paper and Wallboard; (z) Miscellaneous Paper Goods Mimeographed Monthly Reports—(a) Asphalt Roofing; (b) Rigid Insulating Board
- (6) Iron and Steel and Their Products—Annual Report. Annual Bulletins as follows:

 (a) Primary Iron and Steel;
 (b) Castings and Forgings;
 (c) Boilers, Tanks and Engines;
 (d) Agricultural Implements;
 (e) Machinery;
 (f) Automobiles;
 (g) Automobile Supplies;
 (h) Railway Rolling Stock;
 (i) Wire and Wire Goods;
 (j) Sheet Metal Products;
 (k) Hardware and Tools;
 (l) Bridge Building and Structural Steel;
 (m) Miscellaneous Iron and Steel Products. Monthly reports on (a) Iron and Steel;
 (b) Automobile Statistics; Commodity bulletins on the production of Pig Iron;
 Washing Machines;
 Cream Separators;
 Warm Air Furnaces;
 Galvanized Sheets;
 Wire Nails;
 Wire Rope and Cable;
 Steel Wire;
 Wire Fencing;
 Stoves, etc.
- (7) Manufactures of Non-Ferrous Metals—Report issued biennially. Annual Bulletins as follows: (a) Aluminium Products; (b) Brass and Copper Products; (c) Lead, Tin. and Zinc Products; (d) Jewellery and Silverware; (e) Electrical Apparatus and Supplies; (f) Miscellaneous Non-Ferrous Metal Goods. Quarterly Report on Production and Sales of Radio Sets. Commodity Bulletins on the Production of Batteries; Silverware; Vacuum Cleaners, etc.
- (8) Manufactures of the Non-Metallic Minerals—Report issued biennially. Annual Bulletins as follows: (a) Aerated Waters; (b) Asbestos Products; (c) Cement; (d) Cement tins as follows: (a) Aerated Waters; (b) Aspessos Products; (c) Cement; (a) Centent Products; (e) Coke and Gas; (f) Glass (blown, cut and ornamental, etc.); (g) Lime; (h) Petroleum Products; (i) Products from Domestic Clays; (j) Products from Imported Clays; (k) Salt; (l) Sand-lime Brick; (m) Dressed Stone; (n) Artificial Abrasives and Abrasive Products; (o) Miscellaneous Non-Metallic Mineral Products, including Carbon Electrodes—Gypsum Products—Mica Products—Magnesite Products—Non-Metallic Minerals, n.e.s. Also special report on the Consumption of Coke in Canada. Monthly Report on Coke Statistics.
- (9) Chemicals and Allied Products—Annual Report. Annual Bulletins as follows: (a) Coal Tar Distillation; (b) Acids, Alkalies and Salts; (c) Compressed Gases; (d) Coal Tar Distillation; (b) Acids, Alkalies and Salts; (c) Compressed Gases; (d) Explosives, Ammunition and Fireworks; (e) Fertilizers; (f) Medicinal and Pharmaceutical Preparations; (g) Paints, Pigments and Varnishes; (h) Soaps, Cleaning Preparations and Washing Compounds; (i) Toilet Preparations; (j) Inks; (k) Adhesives; (l) Polishes and Dressings; (m) Flavouring Extracts; (n) Wood Distillation; (e) Miscellaneous Chemical Products, including Baking Powder; Boiler Compounds; Cellulose Products; Insecticides; Sweeping Compounds; Disinfectants; Matches; Dyes and Colours; Chemical Products, n.e.s. Special Report on the Fertilizer Trade in Canada. Commodity Bulletins on Sulphuric Acid, Ammonium Sulphate, etc. Special Report—Directory of Chemical Industries in Canada. as of Sulphate, etc. Special Report-Directory of Chemical Industries in Canada, as of July 1, 1932.

PRODUCTION—concluded.

- (10) Miscellaneous Manufactures—General Report. Annual Bulletins as follows: (a) Brooms, Brushes and Mope; (b) Musical Instruments (including pianos, organs and phonographs) and Musical Instrument Materials and Parts; (c) Buttons; (d) Beds, Springs and Mattresses.
- N.B.—For statistics of Water Power and Central Electric Stations, see under heading "Public Utilities".
- VIII. Construction.—(a) Building Permits—Monthly and Annual Record.

EXTERNAL TRADE (IMPORTS AND EXPORTS)—

- (1) Annual Report of the Trade of Canada, for the fiscal year ended Mar. 31 (showing summary historical tables, analyses of current trends, detailed tables by items, group analyses according to component material, origin and degree of manufacture, and purpose, and comparisons of the volume of trade).
- (2) Condensed Preliminary Report of the Trade of Canada, for the fiscal year ended Mar. 31.
- (3) Annual Report of the Trade of Canada for the calendar year.
- (4) Advance Preliminary Statement regarding the Trade of Canada during the calendar year.
- (5) Quarterly Report of the Trade of Canada (showing statistics of imports and exports by months and cumulative quarters).
- (6) Monthly Summary of the Trade of Canada (for latest month and 12 months).
- (7) Monthly Bulletins on Trade Statistics as follows: General—(a) Abstract of Imports, Exports, and Duty Collected (by latest month, accrued period, and latest 12 months); (b) Summary of Canada's Imports for latest month; (c) Summary of Canada's Exports for latest month. Special.—(d) Imports and Exports of Asbestos; (e) Imports and Exports of Footwear (except Rubber); (f) Summary, Exports of Grain and Flour; (g) Exports of Lumber; (h) Imports of Lumber; (i) Exports of Meats and Lard; (j) Imports of Meats and Lard; (k) Exports of Milk, Milk Products and Eggs; (l) Imports of Milk, Milk Products and Eggs; (l) Imports of Milk, Milk Products and Eggs; (l) Imports of Paints and Varnishes; (a) Exports of Paints and Varnishes; (p) Imports of Paints and Varnishes; (q) Exports of Pulp Wood, Wood Pulp and Paper; (r) Exports of Rubber Goods and Insulated Wire; (s) Imports of Rubber Goods; (l) Imports of Vehicles of Iron (Automobiles, Bicycles, Railway Cars, etc.); (u) Exports of Petroleum and Its Products; (v) Imports of Petroleum and Its Products; (x) Exports of Farm Implements and Machinery; (z) Imports of Coffee and Tea.

INTERNAL TRADE—

- (1) Retail and Wholesale Trade.—Decennial Census of Merchandising and Service Establishments. Bulletins on the Retail Trade of Cities with a population of 10,000 and over showing number of establishments, kind of business, type of organization, employees, wages, sales, etc. Bulletins on the Retail Trade of Provinces by Counties or Census Districts. Bulletins on the Retail Trade of the Dominion. Bulletins on the Wholesale Trade of the Dominion, Provinces and Chief Cities, including the business of Agents of Distribution, such as Brokers, Sales Agents, Importers, and others, as distinguished from Wholesalers Proper. Survey of Chain Stores. The analysis of these Census data includes Special Studies such as: Channels of Distribution between Manufacturer and Consumer, Hotels, Co-operative Associations, Breakdown of Commodity Sales according to Kind of Business, etc. Monthly Index Numbers of Retail Sales. Monthly Retail Sales of Automobiles. Monthly figures of Automobile Financing.
- (2) Prices Statistics.—Annual and Monthly Reports on Wholesale and Retail Prices and Price Indexes in Canada, the British Empire and Foreign Countries. Index Numbers of Average Cost of Living in Canada. Monthly and Weekly Index Numbers (Speculative) of Security Prices. Monthly and Weekly Index Numbers (Investment) of Security Prices. Monthly and Weekly Index Numbers of Mining Stocks. Prices and Price Index Numbers of Services (Street Cars, Telephones, Electricity, Natural and Manufactured Fuel Gas, Hospitals, Doctors' Fees, etc.). Interest and Exchange Rates. Index Numbers of Import and Export Valuations. Special Bulletine as follows: (a) Post-War Sugar Prices; (b) Post-War Prices of Raw Cottons; (c) Post-War Silver Prices; (d) Post-War Tin Prices; (e) Post-War Lead Prices; (f) Coffee Prices; (g) Post-War Rubber Prices; (h) Price Trends and Geonomic Conditions in Germany (May, 1927); (i) Price Trends and General Economic

INTERNAL TRADE—concluded.

Conditions in France (May, 1927); (1) Price Trends and General Economic Conditions in Great Britain (May, 1927); (k) Wholesale Prices in the British Empire and Foreign Countries, and Exchange Rates in 1925 (with reference to important trade tendencies in the leading countries); (l) Trend of Commodity Prices in Canada, Past and Future; (m) Recent Movements in Canadian Living Costs; (n) Exchange, 1931; (o) Price Movements, 1932.

- (3) Capital Movements.—Annual Records and Estimates of Capital Investments by Foreigners in Canada and of Canadian Investments in Foreign Countries.
- (4) Record of Branch Plant Development in Canada.—Lists of New Concerns Locating in Canada in Recent Years. Bulletin on Branch and Subsidiary Industries in Canada.
- (5) Balance of International Payments.—Compilation of Canada's Annual Balance of Payments. Estimation of the Invisible Items in Canada's Trade Balance (Receipts and Payments for Interest, Freight, Insurance, Non-Commercial Remittances, Government Expenditures, Capital of Immigrants and Emigrants, etc.).

TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES-

- (1) Railways and Tramways.—(a) Annual Report on Railway Statistics; (b) Annual Report on Electric Railway Statistics; (c) Annual Summary of Monthly Railway Traffic Report; (d) Monthly Bulletin on Railway Revenues, Expenses, Incomes and Operating Statistics; (e) Monthly Statement of Traffic of Railways; (f) Weekly Report of Car Loadings of Revenue Freight.
- (2) Express.—Annual Report on Express Statistics.
- (3) Telegraphs.—Annual Report on Telegraph Statistics.
- (4) Telephones.—Annual Report on Telephone Statistics.
- (5) Water Transportation.—(a) Annual Report on Canal Statistics; (b) Monthly Report on Canal Statistics.
- (6) Electrical Stations.—(a) Annual Report on Central Electric Stations in Canada;
 (b) Report on Index Numbers of Electric Light Rates;
 (c) Monthly Report on Electric Energy Generated.
- (7) Motor Vehicles.—(a) Annual Report on Motor Vehicle Registrations; (b) Highways —Annual Report on Highway Mileage Open for Traffic, Construction and Expenditures on Construction and Maintenance.

FINANCE-

- (1) Municipal.—(a) Annual Municipal Statistics of Urban Municipalities of 10,000 Population and Over. (b) Municipal Statistics of Urban Municipalities of 1,000 to 5,000 Population, 1922. (c) Annual Bulletins on Assessed Valuations by Provinces, Municipal Bonded Indebtedness, etc.
- (2) Dominion.—(a) Statistics of the Civil Service of Canada—Annual Report; (b) Statement of Civil Service Personnel and Salaries in the Month of January, 1912-1924.
- (5) Provincial.—Annual Report.—Financial Statistics of Provincial Governments. Bonded Debt and Treasury Bills of Provincial Governments, 1916-30.

JUSTICE—

- (1) Criminal Statistics.—Annual Report (covering convictions, sentences, prison statistics, police statistics, pardons, commutations and executions). Preliminary Report on Criminal Statistics.
- (2) Juvenile Delinquency.—Annual Bulletin.

EDUCATION-

- Report of Dominion-Provincial Conference on Education Statistics, held October, 1920.
- (2) Historical Statistical Survey of Education in Canada (1921). (Out of print.)
- (3) Illiteracy and School Attendance in Canada—A Study of the Census of 1921 with Supplementary Data.
- (4) Annual Survey of Education in Canada. Published yearly since 1921, covering the following:—(a) Provincially-controlled schools; (b) Universities and colleges; (c) Private schools; (d) Schools for Indians; (e) Organizations and societies of provincial or Dominion scope directly connected with the above-listed institutions.
- (5) Survey of Canadian Libraries, 1931.
- (6) Reports on special subjects in the field of education are issued from time to time.

GENERAL ...

- (1) National Wealth and Income.—Estimates of the National Wealth of Canada, by Provinces, Industries, etc.—Summary of Income Tax Receipts.
- (2) Employment.—Monthly and Annual Reports on Employment, with Index Numbers of Employment by Localities and Industries.
- (3) Commercial Failures.—Monthly and Annual Reports.
- (4) Bank Debits.—Monthly and Annual Reports of Bank Debits to Individual Accounts at the Clearing-House Centres of Canada.
- (5) Business Statistics.—The Monthly Review of Business Statistics (a statistical summary, with charts and text, of current economic conditions in Canada). Special Report—Twelve Years of the Economic Statistics of Canada, 1919-30. Monthly Indexes of the Physical Volume of Business in Canada, 1919-32.
- (6) Divorce.—Annual Report.
- (7) Liquor Control.—Annual Report on the Control and Sale of Liquor.
- (8) Tourist Trade.-Annual Report.
- (9) The Canada Year Book.—The official statistical annual of the Physiography, Resources, History, Institutions and Social and Economic Conditions of the Dominion, with a Statistical Summary of the Progress of Canada, maps, diagrams, etc.
 - Contents: I. Physical Characteristics of Canada (Geographical Features; Geological Formation; Seismology; Flora; Faunas; Natural Resources; Climate and Meteorology). II. History and Chronology. III. Constitution and Government (Constitution and General Government of Canada; Provincial and Local Government in Canada; Parliamentary Representation in Canada). IV. Population (Growth and Distribution). V. Vital Statistics. VI. Immigration. VII. Survey of Production. VIII. Agriculture. IX. Forestry. X. Fur Trade. XII. Fisheries. XII. Mines and Minerals. XIII. Water Powers. XIV. Manufactures. XV. Construction. XVI. External Trade. XVII. Internal Trade. XVIII. Transportation and Communications (Government Control over Transportation and Communications; Steam Railways; Electric Railways; Express Companies; Roads and Highways; Motor Vehicles; Air Navigation; Canals; Shipping and Navigation; Telegraphs: Telephones; Radio; Post Office). XIX. Labour and Wages. XX. Prices. XXI. Public Finance (Dominion Public Finance; Provincial Public Finance; Municipal Public Finance; National Wealth and Income). XXII. Currency and Banking; Loan and Trust Companies. XXIII. Insurance (and Government Annuities). XXIV. Commercial Failures. XXV. Education. XXVI. Public Health and Benevolence. XXVII. Judicial and Penitentiary Statistics. XXVIII. Miscellaneous Administration (Public Lands; National Defence; Public Works, etc.). XXIX. Sources of Official Statistical and Other Information Relative to Canada. XXX. The Annual Register (Dominion Legislation; Principal Events of the Year; Extracts from The Canada Gazette, re Official Appointments, Commissions, etc.). Appendices.

(Issues of the Canada Year Book for 1921, 1924, 1926, 1930, 1931 and 1932 are available.)
(10) Canada.—The Official Handbook of Present Conditions and Recent Progress, published annually.

Section 2.—Acts Administered by Dominion Departments.

List of the Principal Acts of Parliament administered by Departments of the Government of the Dominion of Canada, as compiled from information supplied by the respective Departments.

(Numbers within parentheses, unless otherwise indicated, denote chapters of the Revised Statutes of Canada, 1927—R.S.C., 1927.)

Note.—Copies of individual Acts of Parliament may be obtained from the King's Printer at prices of from 10 cents to \$1 per copy according to number of pages.

Agriculture.—Experimental Farm Stations (61); Fruit (80); Dairy Industry (45); Cold Storage (25); Seeds (185); Feeding Stuffs (67); Live Stock Pedigree (121); Live Stock and Live Stock Products (120); Animal Contagious Diseases (6); Meat and Canned Foods (77); Destructive Insect and Pest (47); Fertilizers (69); Root Vegetables (181); Section 235, Criminal Code (Race Track Betting) (36); Inspection and Sale (100); Maple Sugar Industry (20-21 Geo. V. c. 30); Agricultural Pests Control (5).

Auditor General.—Consolidated Revenue and Audit (21-22 Geo. V, c. 27).

Civil Service Commission.—Civil Service (22), as amended 1932, c. 40,

External Affairs.—The functions and duties of this Department are defined by the Department of External Affairs Act (65) and by the International Boundary Waters Treaty Act, 1911 (1-2 Geo. V, c. 28), as amended by the Statute of April 3, 1914 (4 Geo. V, c. 5),

Finance.—Appropriation; Bank (12); Bills of Exchange (16); Board of Audit (10); Canadian Farm Loan (66); Civil Service Superannuation (24); Consolidated Revenue and Audit (21-22 Geo. V, c. 27); Contingencies (31); Currency (40); Dept. of Finance and Treasury Board (71); Dominion Notes (41); Federal District Commission (Stats. 1926-27, c. 55); Finance (70); Interest (102); Ottawa Mint (134); Penny Bank (13); Provincial Subsidies (192); Quebec Savings Banks (14); Special War Revenue (179) (in part); Gold Export (1932, c. 33).

Fisheries.—Fisheries (73); Fish Inspection (72); Meat and Canned Foods (77) (so far as it relates to fish or shellfish); Deep Sea Fisheries (74); Northern Pacific Halibut Fishery Protection (75); Pelagic Sealing (153); Customs and Fisheries Protection (43) (in part); Navigable Waters Protection (140) (in part); The Biological Board Act (18) is also administered by the Minister of Fisheries.

Immigration.—The Immigration Act and Regulations, 1910 (93); the Chinese Immigration Act and Regulations, 1923 (95).

Indian Affairs.—Indian (98).

Insurance.—Department of Insurance (22-23 George V, c. 45); Canadian and British Insurance Companies, 1932 (22-23 George V, c. 46); Foreign Insurance Companies, 1932 (22-23 George V, c. 47); Loan Companies (28); Trust Companies (29).

Interior.—Forest Reserves and Parks Act (78); Seed Grain Act (87); Seed Grain Sureties (88); Department of the Interior Act (103); Irrigation Act (104); Dominion Lands Act (113); Public Lands Grants Act (114); Ordnance and Admiralty Lands Act (115); Railway Belt Act (116); Dominion Lands Survey Act (117); Land Titles Act (118); Manitoba Supplementary Provisions Act (124); Migratory Birds Convention Act (130); Northwest Game Act (141); Northwest Territories Act (142); Reclamation Act (175); Saskatchewan and Alberta Roads Act (180); Soldier Settlement Act (188); Dominion Water Power Act (210); Railway Belt Water Act (211); Yukon Act (215); Yukon Placer Mining Act (216); Yukon Quartz Mining Act (217); Lac Seul Conservation Act (18–19 George V, c. 32); The National Parks Act (20–21, George V, c. 33).

Justice.—Department of Justice (106); Solicitor-General's (107); Northwest Territories (142); Yukon (215); Royal Canadian Mounted Police (160); Judges (105); Supreme Court (35); Exchequer Court (34); Admiralty (33); Petition of Right (158); Criminal Code (36); Penitentiary (154); Prisons and Reformatories (163); Identification of Criminals (38); Ticket of Leave (197); Fugitive Offenders (81); Extradition (37); Juvenile Delinquents (108).

King's Printer and Controller of Stationery.—Public Printing and Stationery (162); The Publication of Statutes (2).

Labour.—Labour Department (111); Conciliation and Labour (110); Industrial Disputes Investigation (112); Fair Wages Resolution of the House of Commons, 1900; Employment Office Co-ordination (57); Technical Education (193), as amended 1929, c. 8; The Vocational Education Act, 1931 (21-22 Geo. V, c. 59); Government Annuities (as amended by Geo. V, c. 33) (7); Combines Investigation (26); Old Age Pensions (156) (as amended by 21-22 Geo. V, c. 42); White Phosphorus Matches (128); Fair Wages and Eight-Hour Day (20-21 Geo. V, c. 20); Unemployment Relief, 1930 (21 Geo. V, c. 1); Unemployment and Farm Relief Act, 1931 (21-22 Geo. V, c. 58); Relief Act, 1932 (22-23 Geo. V, c. 36).

Marine.—Government Harbours, Piers and Breakwaters (89); Shipping of Live Stock (122); Marine and Fisheries Department (125); Maritime Conventions (126); Navigable Waters' Protection (140); Quebec Harbour and River Police (169); Canada Shipping (186); Radiotelegraph (195); Government Vessels Discipline (203); Belleville Harbour Commission (1889, c. 35); Halifax Harbour Commission (1927, c. 58); Hamilton Harbour Commission (1912, c. 98); Montreal Harbour Commission (1884, c. 42; 1909, c. 24; 1912, c. 35; 1913, c. 32; 1914, c. 42); North Fraser Harbour Commission (1913, c. 165); Quebec Harbour Commission (1899, c. 34) (1905, c. 33); Saint John, N.B., Harbour Commission (1927, c. 67); Three Rivers, Que., Harbour Commission (1923, c. 71); Trenton, Ont., Harbour Commission (1922, c. 50); Toronto Harbour Commission (1911, c. 26); Vancouver Harbour Commission (1913, c. 54); Winnipeg and St. Boniface Harbour Commission (1912, c. 55); Chicoutimi Harbour Commission (1926, c. 6).

Mines.—Geology and Mines (83); Explosives (62); The Domestic Fuel (17 Geo. V. c. 52).

National Defence.—Department of National Defence Act (136); Naval Service Act (139); Naval Discipline Act; Militia Act (132); Militia Pensions Act (133); Royal Military College Act (18-19 Geo. V, c. 7); Sec. 85 and 86 Criminal Code; Army Act; Regimental Debts Act; Aeronautics Act (3); Air Force Act; Visiting Forces, British Commonwealth, 1933.

National Revenue.—Customs Tariff (44); Customs (42); Canada Shipping (in part) (186); Animal Contagious Diseases (in part) (6); Destructive Insect and Pest (in part) (47); Export (63); Copyright (in part) (32); Petroleum and Naphtha (159); Excise (60); Special War Revenue, 1915 (179); Income War Tax, 1917 (97); Agricultural Pests Control (in part) (5); Customs and Fisheries Protection (in part) (43); Explosives (in part) (62).

Pensions and National Health.—Pensions—Department of Pensions and National Health (Part I) (18-19 Geo. V, c. 39); War Veterans' Allowance (20-21 Geo. V, c. 48); Pension (157); Returned Soldiers' Insurance (10-11 Geo. V, c. 54, and Amendments). The two latter Acts are adjudicated upon by the Board of Pension Commissioners. National Health.—Department of Pensions and National Health (Part II) (18-19 Geo. V, c. 39); Quarantine (168); Public Works Health (91); Leprosy (119); Canada Shipping (Sick and Distressed Mariners) (186); Proprietary or Patent Medicine (151); Opium and Narcotic Drug (144); Food and Drugs (including Honey Act) (76).

Post Office.—Post Office (161); Special War Revenue (in part) (179).

Public Works.—Public Works (166); Government Harbours and Piers (s. 589); Navigable Waters Protection (140); Telegraphs (194); Dry Dock Subsidies (191); Act to authorize the payment of a subsidy to the Collingwood Shipbuilding Co., Ltd. (2 Geo. V. 1912, c. 17); Government Works Toll Act (167); Act to incorporate the National Gallery of Canada (3-4 George, V. 1913, c. 33); Act to authorize the payment of a subsidy to the Western Dry Dock and Shipbuilding Co., Ltd. (3-4 Geo. V. 1913, c. 57); Act to extend an Agreement for one year between His Majesty the King and the Corporation of the City of Ottawa (22-23 Geo. V, c. 11); Ferries Act (68), transferred by Order in Council, June 3, 1918, for administration by Public Works Department. Act Regulating Vehicular Traffic on Dominion Property (20-21 Geo. V, c. 47).

Railways and Canals.—Department of Railways and Canals (171); Government Railways (173); Intercolonial and P.E.I. Railway Employees' Provident Fund (6-7 Edw. VII., c. 22 and amending Acts); Acts to amend the National Transcontinental Railway Act (4-5 Geo. V, c. 43 and 5 Geo. V, c. 18); Canadian National Railways (172) and amending Acts 1918, c. 13; 1929, c. 10 and 1931, c. 6; Canadian National Railways Branch Lines (14-15 Geo. V, cc. 14-32; 15-16 Geo. V, cc. 5, 6 and 7; 17 Geo. V, cc. 12-26; 18-19 Geo. V, cc. 18-36); Government Employees Compensation (30) and amending Act, 1931, c. 9; Canadian National Refunding, 1927 (17 Geo. V, c. 27); The Canadian National Refunding Act, 1929 (19-20 Geo. V, c. 11); Canadian National (Central Vermont) Financing, 1930 (20-21 Geo. V, c. 7); Canadian National Refunding, 1930 (20-21 Geo. V, c. 8); Grand Trunk Pacific Securities, 1927 (17 Geo. V, c. 7); Canadian National Steamships, 1927 (17 Geo. V, c. 29); Canadian National Railways Pension Act (19-20 Geo. V, c. 4); Canadian National Montreal Terminals Act, 1929 (19-20 Geo. V, c. 12); Maritime Freight Rates Act (79).

The "Railway Act" (Compensale) confere certain powers upon the Minister of the

The "Railway Act" (Companies) confers certain powers upon the Minister of the Department. In the case of subsidized railways, the authorizing Acts are carried out under the Department, which also has certain jurisdiction where Government guarantee has been given.

Secretary of State.—Companies (27); Naturalization (138); Patents (150); Copyright (32); Unfair Competition (22-23 Geo. V. c. 38); Canada Temperance (196); Boards of Trade (19); Ticket of Leave (197); Trade Unions (202); Treaties of Peace.

Trade and Commerce.—Canada Grain (86) (20-21 Geo. V, c. 5); Copper Bars and Rods Bounty (13-14 Geo. V, c. 40); Electricity and Fluid Exportation (54); Electricity Inspection (55); Electric Units (56); Gas Inspection (82); Hemp Bounty (13-14 Geo. V, c. 50), Inland Water Freight Rates (208); Precious Metals Marking (84) (18-19 Geo. V, c. 40) (19-20 Geo. V, c. 53); Statistics (190); Weights and Measures Inspection (212); Act to place Canadian Coal used in the Manufacture of Iron or Steel on a Basis of Equality with Imported Coal (20-21 Geo. V, c. 6).

Section 3.—Publications of Dominion Departments.

List of Principal Publications of the Departments of the Government of the Domiulon of Canada as Compiled from Information Supplied by the respective Departments.

Note.—A catalogue of the official pu'lications of the Parliament and Government of Canada, stating prices, is issued regularly once a year with supplements when required; copies may be obtained from the King's Printer, Ottawa.

Agriculture.—Annual Reports of the Minister, of the Experimental Farms and Stations and of the Veterinary Director-General. Bulletins, pamphlets and circulars of the Experimental Farms Branch on a great variety of agricultural subjects, including publications of the following Divisions: Field Husbandry; Animal Husbandry; Horticulture; Cereal; Chemistry; Forage Plants; Botanical; Poultry; Tobacco; Economic Fibre; Bacteriology; Bees; and Illustration Stations. Bulletins of the Dairy and Cold Storage Branch relating to the dairying and cold storage industries in Canada, the making of butter and cheese, dairying experiments, co-operation, etc. Reports, bulletins, pamphlets, etc., of the Live Stock Branch on sheep, swine, poultry, marketing of eggs, wool, etc. Bulletins of the Health of Animals Branch, with Regulations as to contagious abortion; rabies; sheep

scab; actinomycosis; anthrax; glanders; hog cholera; maladie du coît; tuberculosis; foot-and-mouth disease; quarantine; and meat inspection. Bulletins and reports of the Seed Branch as to seed-testing, the production and use of seed grains, the Seed Control Act, the Feeding Stuffs Act and the Fertilizers Act. Bulletins and circulars of the Entomological Branch, Household insects, Vegetable insects, Locust control, etc., and instructions to importers of nursery stock. Reports of the Canadian Seed Growers' Association. Fodder and Pasture Plants, by George H. Clark, B.S.A., and M. Oscar Malte, Ph.D., 143 pages, 27 plates, price \$1. Farm Weeds, by Clark and Fletcher, 180 pages, noxious weeds and seeds in natural colour, price \$2.

Dominion Experimental Farms.—(1) Report of the Director (contains summary of reports of Divisions, Farms and Stations); (2) Animal Husbandry Division; (3) Bee Division; (4) Botanical Division; (5) Chemistry Division; (6) Field Husbandry Division; (7) Illustration Stations Division; (8) Poultry Division; (9) Tobacco Division; (10) Horticultural Division; (11) Cereal Division; (12) Forage Crops Division; (13) Economic Fibre Division and (14) Division of Bacteriology. Experimental Farms and Stations Reports.—Agassiz, B.C.; Indian Head, Sask.; Nappan, N.S.; Charlottetown, P.E.I.; Invermere, B.C.; Sidney, B.C.; Brandon, Man.; Morden, Man.; Cap Rouge, Que.; Scott, Sask.; Swift Current, Sask.; Kapuskasing, Ont.; La Ferme, Que.; Kentville, N.S.; Leanorville, Que.; St. Anne de la Pocatière, Que.; Rosthern, Sask.; Lethbridge, Alta.; Lacombe, Alta.; Summerland, B.C.; Farnham, Que.; Fredericton, N.B. Experimental Sub-Stations.—Beaverlodge, Alta.; Fort Vermilion, Alta.; Fort Resolution, N.W.T.; Salmon Arm, B.C.; Fort Providence, N.W.T.; Betsiamites, Que.; Fort Smith, N.W.T.

A pamphlet entitled "List of Publications" contains a list of the publications of the Department, numbering more than 400. These publications include, in addition to the reports, bulletins and pamphlets, on field crops, live stock, dairying, orchard and garden insect and plant diseases, poultry, household and miscellaneous topics. With few exceptions, the publications of the Department are free on application to its Publications Branch.

Auditor General.—Annual Report.

Board of Railway Commissioners for Canada.—Annual Report. Pamphlet containing Judgments, Orders, Regulations and Rulings, issued fortnightly.

Civil Service Commission.—Annual Report, including lists of permanent appointments, promotions and transfers; Classification of the Civil Service of Canada, revised up to Dec. 1, 1930; Regulations of the Civil Service Commission; How Appointments are made in the Public Service; Examinations for Clerks, Stenographers and Typists; Examinations for Customs Service; Examinations for Postal Service; Examinations for Junior Trade Commissioners.

Dominion Fuel Board.—The Dominion Fuel Board was created in 1922 primarily to instigate a thorough study of the underlying causes of recurring fuel shortages in Canada and of the methods by which they may be counteracted. It is composed of officers of the Departments of Mines and of the Interior, and the co-operation of both Departments is given to the Board in its investigations. The following reports and publications have been issued: Interim Report of the Dominion Fuel Board, 1923; Central and District Heating—Possibilities of Application in Canada, by F. A. Combe, 1923; Coke as a Household Fuel in Central Canada, by J. L. Landt, 1925; Smoky River Coal Field, by James McEvoy, 1925; Why Yon Should Insulate Your Home, by G. D. Mallory, 1927; Dominion Fuel Board, Second Progress Report, 1928; Humidity in House Heating, by E. S. Martindale, 1929; Cards bearing instructions on "How to Burn Coke".

Publications of Mines Branch, Department of Mines, in co-operation with Dominion Fuel Board.—Coking experiments on Coals from the Maritime Provinces, by B. F. Haanel and R. E. Gilmore, 1926: Tests of Various Fuels to Determine their Relative Heating Efficiency, by E. S. Malloch and C. E. Baltzer, 1927; Instructions for Burning Coal, Coke and Peat, 1927; Industrial Fuel and Power Statistics for Ontario, Calendar Year 1925, by E. S. Malloch and C. E. Baltzer, 1928.

Publication of the National Development Bureau, Department of the Interior, in co-operation with Dominion Fuel Board.—The Insulation of New and Old Houses, by G. D. Mallory, 1932.

External Affairs.—Annual Report, Annual Treaty Series.

Finance.—Annual Report on the Public Accounts of the Dominion of Canada. Monthly Statements of the Chartered Banks of Canada. Estimates.

Fisheries.—(Publications marked * are available in either English or French.)

*Annual Report including Fish Culture Report. Annual Statistical Report (contains both English and French sections). Fish Culture Report (separately). A Popular Account of Some Canadian Fishes—A. Halkett. *Canada's Fisheries. Map of the Atlantic Coast Provinces showing fishing grounds. Statistics of the Haddock Fishery in North American Waters—A. W. H. Needler. Statistics of the Cod Fishery—O. E. Sette. Fisheries Investi-

gation in Hudson and James Bays in 1914—Melville, Lower and Comeau. Discoloration, Smut or Blackening of Canned Lobsters—Harrison and Hood. Historical Account of the Lobster Canning Industry—R. H. Williams. *Fish Canning in Canada. Fish and Chip Shops. *Fisheries News Bulletin (monthly). Quarterly Bulletin of Sea Fisheries Statistics. *The Salmon Fishery of British Columbia. Report on Fisheries Investigations in Hudson Bay, 1930. *Summary of the Report by Messrs. Cockfield, Brown and Company, Ltd., on the Marketing of Canadian Fish and Fish Products. *Qyster Farming on the Atlantic Coast of Canada. Hardening Mud Bottoms for Oyster Culture (mimeographed bulletin). *Red Discoloration of Cured Codfish. *Factors in the Shipment of Live Lobsters from Eastern Nova Scotia. Investigation into the Natural History of the Herring—Hjort. Fish and How to Cook It (cook book, price 10c).

Various reports and bulletins of the Biological Board of Canada, dealing with fisheries research, are also available for distribution by the Department of Fisheries, but it is necessary that in asking for papers of this group applicants should indicate explicitly the particular

research questions in which they are interested.

Geographic Board of Canada.—18th Report, containing all decisions to Mar. 31, 1924; 19th Report, containing all decisions from April 1, 1924, to July 31, 1927, with supplements numbers 1 to 12. "Place-Names of Alberta", 1928, 25c.; "Place-Names of Manitoba", 1931; "Meaning of Canadian City Names", 1922; "Place-Names on Magdalen Islands, Quebec", 1922; "Place-Names of Prince Edward Island with Meanings", 1925, 25c.; "Place-Names in Thousand Islands, St. Lawrence River", 1916; "Place-Names on Anticosti Island, Quebec", 1922; Catalogue and Graphical Index of Maps in the Geographic Board Library, two volumes, 1922, supplement, 1925.

Indian Affairs.—Annual Report. Indian Act. (c. 38, R.S.C., 1927). Schedule of Indian Reserves, 1928, price \$1. Indian Treaties and Surrenders, Vols. I, II, III, price \$15. Census of Indians in Canada, 1929.

Insurance.—Quarterly Statement showing List of Registered Companies. Annual Abstract of Statements of Insurance Companies in Canada (subject to correction). Annual Reports of the Insurance Department, Vol. I (Fire and Miscellaneous), Vol. II (Life Companies and Fraternal Benefit Societies). Annual List of Securities held by Insurance, Trust and Loan Companies in Canada, with Department's Valuation thereof. Abstract of Statements of Loan and Trust Companies in Canada. Annual Report of Loan and Trust Companies incorporated by the Dominion.

Interior.—Annual Report. The Department of the Interior issues publications dealing with the work of the following branches: National Parks Branch, including Historic Sites, Migratory Birds, and Tourist Information Bureau. Dominion Forest Service. Topographical and Air Survey Bureau. Dominion Water Power and Hydrometric Bureau. Geodetic Survey of Canada. International Boundary Commission. Dominion Lands Administration, including Northwest Territories and Yukon. Dominion Observatory, Ottawa. Dominion Astrophysical Observatory, Victoria. The publications of the Department were published in detail at pp. 970–978 of the 1932 Year Book. Reports on the work of the above branches may be had, if available, upon application to the Department, Ottawa, Canada.

International Boundary Commission.—Reports.—Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada from the source of the St. Croix River to the St. Lawrence River, 1925, \$5; Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada from the Western Terminus of the Land Boundary along the 49th Parallel, on the west side of Point Roberts, through Georgia, Haro and Juan de Fuca Straits, to the Pacific Ocean, 1921, with accompanying chart, \$5; Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada along the 141st Meridian from the Arctic Ocean to Mount St. Elias, 1918, \$5; Report of the International Waterways Commission upon the International Boundary between the Dominion of Canada and the United States, through the River St. Lawrence and the Great Lakes, 1915, with full set of 30 maps, \$7.50; Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada from the Northwesternmost Point of Lake of the Woods to Lake Superior, \$5. Maps.—From the source of the St. Croix River to the Atlantic Ocean, 18 sheets except sheet No. 13, not yet printed; various scales, sizes 26 by 38 inches, 50c. each; from the St. Lawrence River to the source of the St. Croix River, 61 sheets and index sheet, various scales, 26 by 38 inches, 50c. each; from the St. Lawrence River at St. Regis to the head of Pigeon Bay in Lake Superior, 29 sheets and index sheet, International Waterways Commission, various scales 29½ by 36 inches, 50c. each; Northwesternmost Point of Lake of the Woods to the head of Pigeon Bay in Lake Superior, 36 sheets and index sheet, various scales, 26 by 38 inches, 50c. each; 49th Parallel, Northwesternmost Point of the Lake of the Woods to the head of Pigeon Bay in Lake Superior, 36 sheets and index sheet, various scales, 26 by 38 inches, 50c. each; 49th Parallel, Northwesternmost Point of the Lake of the Woods to Point Roberts, 59 sheets, index and profile sh

Mount St. Elias, 13 sheets 25 by 29 inches, scale 1:250,000, sheets 1 and 2 not yet published. 50c. each; Preliminary Map—Head of Portland Canal to Stikine River, scale 1:250,000, 24 by 33 inches, 25c. each; 141st Meridian from the Arctic Ocean to Mount St. Elias, 30 sheets, scale 1:62,500 with profile sheets, index sheet and special Arctic Coast sheet, size 18 by 27½ inches, 25c. each; Mount St. Elias to White River Sheet, scale 1:250,000, size 19 by 28 inches, 25c.

These reports or maps may be obtained on application to the International Boundary Commission, Department of Interior, Ottawa. Cheques should be made payable to the Receiver General of Canada.

Justice.—Annual Report of the Superintendent of Penitentiaries.

King's Printer and Controller of Stationery.—The Canada Gazette, published weekly, with occasional supplements and extras; subscription in Canada and United States, \$8 per annum payable in advance, single copies 20c. each, other countries \$10 per annum and 25c. per single copy. Judgments of the Board of Railway Commissioners, semi-monthly, \$3 per annum, single copies, 20c. Canada Law Reports, published monthly, yearly subscriptions, \$6. Revised Statutes of Canada, 1927 (5 vols.), \$10. Annual Statutes, 1928-32, \$5 each. Acts, Public and Private, with Amendments to date, 10c. to \$1 per copy. Canadian Postal Guide, \$1 paper cover, \$1.50 cloth cover; including supplements, additional 25c. Parliamentary Debates, "Hansard", issued daily during session, French and English, \$3 per session each for House of Commons and Senate Debates; single copies, 5c. Prices of bluebooks are in nearly every case printed upon the front cover and are based practically on cost. They may be ordered direct from the King's Printer, Ottawa. A catalogue of official publications of the Parliament and Government of Canada is issued regularly once a year with supplements when required and copies may be obtained from the King's Printer, Ottawa.

Labour.—Monthly.—The Labour Gazette (published in English and French) at a subscription price of 20c. per annum. Annually.—Report of the Department of Labour (including: Reports of Proceedings under the Industrial Disputes Investigation Act, Conciliation and Labour Act, Employment Offices Co-ordination Act, Technical Education Act, Government Annuities Act, Combines Investigation Act, Old Age Pensions Act, Fair Wages and Eight-Hour Day Act, Unemployment Relief Act, 1930, and Unemployment and Farm Relief Act, 1931). Labour Legislation in Canada as existing on Dec. 31, 1928 (a supplementary report thereto on Labour Legislation is published annually in February or March). Labour Organization in Canada. Organization in Industry, Commerce and the Professions in Canada. Wages and Hours of Labour in Canada. Prices in Canada and other Countries. Strikes and Lockouts in Canada and other Countries. General Reports.—Report of Royal Commission on Industrial Relations, bound with Report of Proceedings and Discussions of National Industrial Conference, 1919. Hours of Labour in Canada and other Countries, 1923. Report of Commission appointed under Order in Council (P.C. 1929), Sept. 22, 1923, to inquire into the Industrial Unrest among the Steel Workers at Sydney, N.S. Report of Provincial Royal Commission on Coal-Mining Industry in Nova Scotia, January, 1926. Judicial Proceedings respecting Constitutional Validity of the Industrial Disputes Investigation Act, 1907, and Amendments of 1910, 1918, 1920 and 1925. Legal Status of Women in Canada. The Employment of Children and Young Persons in Canada. Reports of Investigations under the Combines Investigation Act.—(1) Investigation into Alleged Combine in the gations under the Combines Investigation Act.—(1) Investigation into Alleged Combine in the Distribution of Fruits and Vegetables in Western Canada, 1925; (2) Investigation into Alleged Distribution of Fruits and Vegetables in Western Canada, 1925; (2) Investigation into Alleged Combine amongst Coal Dealers at Winnipeg and other places in Western Canada. 1925; (3) Investigation into Alleged Combine limiting Competition in the Marketing of New Brunswick Potatoes, 1925; (4) Investigation into Alleged Combine in the Manufacture and Sale of Bread in the City of Montreal, 1926 (out of print); (5) Investigation into Alleged Combine in the Distribution of Fruits and Vegetables produced in Ontario, 1926; (6) Investigation by Registrar into the Proprietary Articles Trade Association, 1926; (7) Investigation by Commissioner into the Proprietary Articles Trade Association, 1927; (8) Report of the Commissioner on the Amalgamated Builders' Council, 1929; (9) Report of Commissioner on the Electrical Estimators' Association, 1930; (10) Report of Registrar into Alleged Combine in the Bread-Baking Industry in Canada, 1931; (11) Report of Commissioner on Alleged Combine in the Motion Picture Industry in Canada. Bulletins in Industrial Relations Series.—(1) Joint Councils in Industry: (2) Report of a Conference on Industrial Relations, 1921; (1) Joint Councils in Industry; (2) Report of a Conference on Industrial Relations, 1921;
 (3) Joint Conference of the Building and Construction Industries in Canada; (5) Canada and the International Labour Conference; (7) Canadian Railway Board of Adjustment, No. 1, Second Report; (8) National Conference Regarding Winter Employment in Canadia; (9) Canadian Railway Board of Adjustment, No. 1, Third Report; (10) Canadian Railway Board of Adjustment, No. 1, Fourth Report; (11) Government Intervention in Labour Disputes in Canada.

Marine.—Annual Report. List of Canadian Shipping. Reports of Expeditions to Hudson Bay, Northern Waters and Arctic Archipelago. Canadian Port Directory. List of Lights, etc., in Canada: (a) Pacific Coast; (b) Atlantic Coast; (c) Inland Waters.

Charts and Publications of the Canadian Hydrographic Service.—Catalogue of Marine Charts, Sailing Directions, Tidal Information and other Canadian Government publica-

tions of interest to mariners (free). Pilots.—(price \$1 per copy payable in advance by P.O. order, express order or marked cheque, only) St. Lawrence Pilot (below Quebec), comprising sailing directions from cap des Rosiers to Quebec, 5th edition, 1929. Supplement No. 2 to above 1933. St. Lawrence River Pilot, Quebec to Montreal and Richelieu River, 1931. Supplement No. 1 to the above, 1933. St. Lawrence Pilot, Montreal to Kingston and Ottawa River, 1933. Great Lakes Pilot Vol. I (Lake Huron & Georgian Bay) 1933. Great Lakes Pilot, Vol. II (Lake Huron & Georgian Bay) 1933. Great Lakes Pilot, Vol. II (Lake Huron & Georgian Bay) 1933. Great Lakes Pilot, Vol. II (Lake Huron & Georgian Bay) 1933. Batton and St. Clair Rivers, 1933). Sailing directions for the Canadian shores of lake Superior, 1st edition, 1922. Supplement No. 2 to the above, 1931. Sailing directions for lake Melville and approaches (Coast of Labrador), 1931. Sailing directions for The Hudson Bay route, 1933. British Columbia Pilot, Vol. I, southern portion of the coast of British Columbia from Juan de Fuea strait to cape Caution including Vancouver I. and inner passages, 1st edition 1933. British Columbia Pilot, Vol. II, northern portion of the coast of British Columbia from cape Caution to Portland inlet and Queen Charlotte islands, 1st edition, 1930. Navigating charts. Reports of the International Waterways Commission.—On the International Boundary Line through the St. Lawrence river, Great Lakes and con-On the International Boundary Line through the St. Lawrence river, Great Lakes and connecting waters, 1915. Tidal and Current Survey Reports.—(issued free of charge)—Currents in the gulf of St. Lawrence including the Anticosti region, Cabot strait and Northumberland strait. Currents of the southeastern coasts of Newfoundland (out of print). Currents in Belle Isle strait (temporarily out of print). Currents in the entrance to the St. Lawrence estuary. Tables of hourly directions and velocity of currents and time of slack water in the bay of Fundy. Tide levels and datum planes on the Pacific coast of Canada. Tide levels and datum planes in Eastern Canada; giving the levels in 86 harbours and other localities. Tides at the head of the bay of Fundy, with diagrams. Tidal investigations and results; Arctic tides, with map. Tides and tidal streams; a general description of the various types of tide and the behaviour of currents, with plates. Temperatures and densities of the waters of Eastern Canada, with maps. Tide Tables.—(issued free of charge) Tide tables for the Pacific coast of Canada including: Juan de Fuca strait, the strait of Georgia, and the northern coast with data for slack water in the navigable passes and narrows and information on currents. Tide Tables for the Atlantic coast of Canada, including: the river and gulf of St. Lawrence, the Atlantic coast, the bay of Fundy, Northumberland and Cabot straits, and information on currents. Abridged edition for Quebec, berland and Cabot straits, and information on currents. Abridged edition for Quebec, Father point and the St. Lawrence river. Abridged edition for Saint John, N.B., and the bay of Fundy (with time of high water at Windsor, N.S.). Abridged edition for Halifax, N.S. and Sydney, N.S. Abridged edition for Charlottetown, P.E.I., Pictou, N.S., St. Paul I. with tidal differences for north shore of Prince Edward I., Sydney, Northumberland strait, Cape Breton, Magdalen Is., etc. Abridged edition for Vancouver, Sand Heads and the strait of Georgia, B.C. Abridged edition for Prince Rupert, B.C., with tidal differences for the northern coasts of British Columbia. Slack water tables for the strait of Canso and Great Bras d'Or lake, N.S., Slack water tables for first Narrows, Vancouver harbour, Active pass and Turn point, B.C. (Mimeograph copies of tide tables for Churchill harbour. Port Nelson. Hudson bay and Moosonee. Moose River James hav.) harbour, Port Nelson, Hudson bay and Moosonee, Moose River, James bay.)

Charts of the Canadian Hydrographic Survey.—(Price 50 cents each.) Nearly four hundred charts and plans are published of the Atlantic coast and its harbours, Hudson bay, Hudson strait and harbours and anchorages, the St. Lawrence river, the Ottawa river, lake Ontario and harbours, lake Erie and harbours, lake Huron and Georgian bay and harbours, lake Superior and harbours, lake of the Woods, lake Winnipeg, Nelson river, Great Slave lake, Pacific coast and harbours. There is also a number of International Waterways Commission charts, not intended for navigation.

Radiotelegraph Branch.—Maps showing the Radiotelegraph and Radiotelephone coast stations in the Dominion of Canada. Postmaster-General's Handbook for Radiotelegraph Operators (Instructions re handling of traffic, etc.). Radiotelegraph Act and Regulations issued thereunder. Circular letter to Canadian Broadcast Listeners re Interference from the Regenerative Receiving Set. Official List of Radio Stations in Canada (price 25 cents).

Mines.—The scientific and investigatory work of the Department of Mines, which is chiefly concerned with the development of the Dominion's mineral industries, is carried on by the Department's four principal branches—the Geological Survey, the Mines Branch, the National Museum of Canada and the Explosives Division.

The Geological Survey carries on areal and economic investigations and research work in geology and mineralogy: the Mines Branch carries on field, laboratory, and industrial investigations covering the various phases of the mining and metallurgical industries from the primary occurrence of the ores to the utilization of the finished products; the National Museum of Canada carries on scientific investigations in all branches of natural history; and the Explosives Division, under the provisions of the Explosives Act (R.S.C., 1927, c. 62) has supervision of the manufacture, testing, storage and importation of explosives and issues the licences and permits authorized by the Act.

The Department of Mines publishes an annual administrative report covering the activities of the whole Department, and occasional pamphlets illustrating the services rendered the mining and metallurgical industries. Each of the branches publishes annual reports in addition to memoirs and bulletins on special investigations and districts.

The Geological Survey Branch.—From 1842 to 1904, published annual volumes. From 1904 to 1910, upwards of 80 reports were issued, all separately. Since then the publications have consisted of memoirs and bulletins appearing at irregular intervals, an annual summary report and miscellaneous publications, including geological and topographical maps, geological guide books and handbooks. The subjects dealt with include areal and economic geology of particular districts, mineralogy, palæontology and related topics. In 1926 the first volume of a new Economic Geology Series was published, and further volumes of this series have since been issued. A list of the reports published by this branch may be obtained on application to the Director, Geological Survey, Ottawa.

The National Museum of Canada has published a series of Museum Bulletins in many branches of natural history. A list of these may be obtained on application to the Director,

National Museum of Canada, Ottawa.

The Mines Branch, since its inception in 1908, has published annual summary reports covering the investigations of the Divisions of Mineral Resources, Ore Dressing and Metallurgy, Fuels and Fuel Testing, Ceramic and Road Materials and Chemistry. More detailed and comprehensive reports have also been published by this branch, dealing with the technology of most of the economic minerals of Canada. A list of the Mines Branch reports may be had on application to the Director, Mines Branch, Ottawa.

The Explosives Division has published annual reports since 1919 and a number of pamphlets on the proper care and handling of explosives. Copies may be obtained on application to the Chief Inspector of Explosives, Department of Mines, Ottawa.

The publications of the Department of Mines cover all phases of mining from preliminary explorations and surveys of unmapped territory through the mining, milling, smelting and refining of the ores to the marketing and utilization of the finished product. Most of these reports and maps may be obtained free of charge by those interested on application to the Deputy Minister of Mines, Ottawa, or to the Directors of the Branches concerned, whose addresses are given above. Many of these reports may be had in French trans-

National Defence.—Annual Report, Militia and Air Services; Annual Report, Naval Service; Report on Civil Aviation; List of Officers, Defence Forces of Canada, Naval, Military and Air Services; Canadian Navy List; Naval General Orders; General Orders, Militia and Air Services; Militia Orders; Air Regulations.

National Research Council.—Annual Reports.—Reports of the National Research Council for the years 1917-18 to 1931-32. Technical Reports.—(For Nos. 1 to 21 see p. 1042 of the 1927-28 Year Book. Nos. 4, 6 and 12 are now out of print.) No. 22, An Experimental Study of Sieving, by J. B. Porter, Ph.D., D.Sc.; No. 23, The Storage of Apples in Air-cooled Warehouses in Nova Scotia, by S. G. Lipsett, Ph.D., covering investigation by Associate Committee on Fruit Storage; No. 24, The Drying of Wheat, covering an investigation by the Associate Committee on Grain Research; No. 25, The Drying of Wheat (Second Report), by E. Stansfield and W. H. Cook, covering an investigation under the Associate Committee on Grain Research; No. 26, Weed Survey of the Prairie Provinces, by J. M. Manson, prepared under the auspices of the Associate Committee on Weed Control; No. 27, Weeds and Their Control, a popular account prepared under the auspices of the Associate Comprepared under the auspices of the Associate Committee on Weed Control; No. 27, Weeds and Their Control, a popular account prepared under the auspices of the Associate Committee on Weed Control, by G. P. McRostie, L. E. Kirk, G. Godel, W. G. Smith and J. M. Manson; No. 28, Report on Comparative Feeding Values for Livestock of Barley, Oals, Wheat, Rye and Corn, by E. W. Crampton. Bulletins.—(For Nos. 1 to 12, see p. 1042 of the 1927-28 Year Book, Nos. 3, 4, 6, 7, 9, and 11 are now out of print.) No. 13, Interim Report on Protein Content as a Factor in Grading Wheat, prepared by the Associate Committee on Grain Research; No. 14, Report on Inquiry in Europe Regarding the Feasibility of Using Protein Content as a Factor in Grading and Marketing Canadian Wheat, by R. Newton, Ph.D.: No. 15, Review of Literature dealing with Health Hazards in Spray Painting, submitted by the Associate Committee on Spray Painting. Periodical—Canadian Journal of Research, published monthly since May, 1929. of Research, published monthly since May, 1929.

National Revenue.—Annual Report, containing statements relative to Imports, Exports, Excise and Income. Annual Report of Shipping. National Revenue Review (monthly).

Pensions and National Health.—(2) The Canadian Mother's Book; (3) How to Take Care of the Baby; (4) How to Take Care of the Mother; (5) How to Take Care of the Children; (6) How to Take Care of the Father and the Family; (7) Beginning a Home in Canada; (8) How to Build the Canadian House; (9) How to Make the Canadian Home; (10) How to Make Outpost Homes in Canada; (11) How to Avoid Accidents and Give First Aid; (12) Canadians Need Milk; (13) How we Cook in Canada; (14) How to Manage Housework in Canada; (15) How to Take Care of Household Waste; (16) Household Cost Accounting in Canada; (19) Athlete's Foot; (23) Venereal Diseases—Diagnosis and Treatment; (24) Information for Men—Syphilis and Gonorrhea; (25) Information for Young Women about Sex Hygiene; (26) Information for Parents—Teaching of Sexual Hygiene to Children; (27) Prevention of Blindness in Babies; (28) Periodic Medical Examinations; (29a) Goitre—Facts for the General Public; (30) How to Build Sound Teeth; (31) What (3) How to Pensions and National Health.—(2) The Canadian Mother's Book:

You Should Know About Tuberculosis; (32) Smallpox and Vaccination; (33) Narcotism in Canada; (41) Keep the Family Well; (43) Rickets; (51) Be Prepared to Prevent Infantile Paralysis; (53) Maternal Care.

(Note.—Publications 23 and 28 are for the Medical profession only.)

Post Office.—Annual Report of the Postmaster General. Official Postal Guide. Regulations as to Rural Mail Delivery. Booklet of Postal Information.

Public Works.—Annual Report.

Railways and Canals.—Annual Report of the Department; Canals of Canada; The Trent Canal System; Canal Rules and Regulations; Port Colborne Elevator Tariff and Regulations; Prescott Government Grain Elevator Tariff.

Secretary of State.—Annual Report. The Arms of Canada.

Trade and Commerce. (Norn.—Requests for those publications marked with an asterisk should be addressed to the King's Printer; the remaining publications may be obtained from the Deputy Minister, Department of Trade and Commerce.)

*Annual Report of the Dept. of Trade and Commerce, 25c.; *Annual Report of the Board of Grain Commissioners for Canada, 25c.; *Annual Report of Electricity and Gas, 25c.; *Annual Report of Weights and Measures, 10c.; Annual Reports, Dominion Grain Research Laboratory, 1923-29-30-31; *Canada-West Indies Conference, 1925, with text of Canada-British West Indies-Bermuda-British Guiana-British Honduras Trade Agreement (1925), \$1; Electrical Standards and their application to Trade and Commerce; *List of Licensed Elevators, etc., 50c.; Motion Pictures (catalogue of), 25c.; Precious Metals Marking Act, Office Consolidation, 10c.

Publications of the Commercial Intelligence Service.—Commercial Intelligence Journal Weekly (in English and French), containing Reports of Trade Commissioners and other Commercial Information. Annual subscription: In Canada, \$1; single copies, 5c. Outside Canada, \$3.50; single copies, 10c. (Norz.—Subscribers to the Commercial Intelligence Journal are entitled to receive all other publications of the Commercial Intelligence Service free of charge); Australian Market for Fish Products (1931); Denmark as a Market for Canadian Products (1926) 25c.; Foreign Markets for Canadian Certified Seed Potatoes (1930) 25c.; French-Canadian Homespun Industry; Greece as a Market (1931) 25c.; Indian Empire as a Market for Canadian Products (1922) 25c. Invoice Requirements—Leaflets covering the following countries: Argentina, Australia, Belgium, Bolivia, Brazil, Central American Republics, Chile, China, Colombia, Cuba, Denmark, Ecuador, Finland, France, Greece, Holland, India, Italy, Japan, Mexico, Netherlands East Indies, New Zealand, Norway, Peru, South Africa, Switzerland, Turkey, Uruguay, and Venezuela. Yugoslavia as a Market (1930) 25c.; Map of the World showing Trade Routes (1930 Edition); Markets of Central America (1929) 25c. Points for Exporters—Leaflets covering the following countries: Australia, Belgium, the Bahamas, Brazil, British Honduras, China, Colombia, Cuba, Egypt, France, Germany, Haiti, Hong Kong, India, Jamaica, Japan, Mexico, British Malaya and Siam, Netherlands, Netherlands East Indies, New Zealand, Panama, South Africa, British West Indies, Venezuela and the United Kingdom. Republic of Chile: Its Economic Condition and Trading Opportunities (1923) 25c.; Switzerland as a Market (1929) 25c.; Trade of the African Sub-Continent (1928) 25c.; Trade Possibilities of the Baltic States (1929) 25c.; Trade of the African Sub-Continent (1928) 25c.; Trade Possibilities of the Baltic States (1929) 25c.; Trade of the African Sub-Continent (1928) 25c.; Trade Possibilities of the Baltic States (1929) 25c.; Trade of the Af

Dominion Bureau of Statistics.—For the publications of the Dominion Bureau of Statistics see pp. 1064 to 1071.

Section 4.—Publications of Provincial Governments.

PRINCE EDWARD ISLAND.

Journal of the Legislative Assembly. Statutes. General Index of Statutes of P.E.I., 1869-1928. Royal Gazette. Annual Reports of the Provincial Auditor on Public Accounts, Departments of Public Works and Highways, Education, Agriculture, Falconwood Hospital (for the Insane) and Provincial Infirmary, Vital Statistics and Public Health.

NOVA SCOTIA.

Royal Gazette. Statutes, Journal and Proceedings of the House of Assembly. Journal of Education. Manual of the Public Instruction Acts and Regulations of the Council of Public Instruction. Annual Reports on Public Accounts, Public Health—Vital Statistics, Statistics of Incorporated Towns and Municipalities, Education, Fire Marshal, Mines, Provincial Museum. Rural Telephones, Humane Institutions, Public Charities (including

reports of hospitals and the Sanatorium), Penal Institutions, Child Welfare, Temperance, Printing, Legislative Library, Public Utilities Board and Workmen's Compensation Board, Provincial Secretary, Department of Agriculture (including Factory Inspector), Department of Highways, Department of Lands and Forests, and the Power Commission. Special Report of Royal Commissioner on the Apple Industry. Duncan Coal Commission. Special Report on Gaols.

NEW BRUNSWICK.

Royal Gazette. Statutes. Annual Reports of the Auditor-General, of the Board of Health, of the Department of Education and Agriculture (including Horticulture). Annual Reports on Public Works, Crown Lands, the Hospital for the Insane, Report of the Jordan Memorial Tuberculosis Sanatorium at River Glade, Report of Women's Institutes, Report of the Workmen's Compensation Board, Report of Public Utilities Commission, Report of N.B. Hydro-Electric Power Commission, Boys' Industrial Home, Saint John, Report and N.B. Liquor Control Board Report.

OUEBEC.

Nove.—The titles of publications available in the English language are printed in English.

Attorney General.—Annual List of Public Officers of the Province of Quebec.

Municipal Affairs.—Annual Report of the Minister of Municipal Affairs, Municipal Bulletin (monthly); List of Municipal Corporations (annual); List of School Municipalities, Schools and Teaching Staff (annual); Statistical Year Book; Education Statistics; Financial Statistics of School Corporations; Municipal Statistics (annual); Judicial Statistics (annual); Statistics of the Penal Establishments (annual); Statistics of the Benevolent Institutions (annual).

Provincial Secretary.—Annual Report of the Secretary and Registrar; Annual Report of the Provincial Bureau of Health; The Official Gazette of Quebec, bilingual (weekly); The Statutes of the Province (annual); Revised Statutes of the Province (1925); Rapport de l'Archiviste (annual); Monuments commémoratifs de la province de Québec. P.-G. Roy; Report of the Director of Public Charities.

Treasury.—Annual Statement of Public Accounts; Annual Estimates; Annual Budget Speech; Annual Report on Insurance Companies; Annual Report on Mutual Benefit Associations; Annual report on Trust Companies.

Bureau of Revenue.—Annual Report of the Quebec Liquor Commission; Annual Report on Motor Vehicles Registrations; Statistics of Automobile Accidents.

Lands and Forests.—Annual Report of the Minister; La Forêt, Fernow, 1905; Dictionnaire des lacs et rivières de la province de Québec, Eugène Rouillard, 1914; Circular No. 1. La rouille vésiculaire du pin blanc, G.-C. Piché; Nomenclature of the Geographical Names in the Province of Quebec, Quebec Geographical Commission; Dictionnaire des Lacs et Rivières; Annual Report of the Quebec Streams Commission; Notes on the Forests of Quebec, G.-C. Piché; Forêts et chutes d'eau de la province de Québec; Rapport du Service de Protection; Tableau des forces hydrauliques concédèes de 1867 à 1923 (Supplément 1923 au 7 avril 1930); Forests and Waterfalls; Quebec, Natural Resources.

Agriculture.—Annual Reports.—Department of Agriculture: Competition for Agricultural Merit; Dairymen's Association: Pomological Society: Society for Protection of Plants. Journal of Agriculture and Horticulture, illustrated, monthly. Bulletins.—(1) Plans for Cheese and Butter Factories; (15) Culture du blé-d'Inde; (55) Poultry Raising in Towns and Villages; (63) La culture des arbres fruitiers; (40) How to plant your Fruit Trees; (43) Bean Culture; (44) Vegetable Culture; (45) List of Presidents and Scoretaries of Agricultural Societies; (67) Insects nuisibles aux animaux de la ferme; (69) Enemies of Gardens and Orchards; (72) Nos érablières; (73) Instructions to School Farmers; (78) Farm Gas Engines; (83) L'élevage des dindons; (84) L'élevage des oies et canards; (87) La culture des pommes de terre; (89) The drainage of Farm Lands; (90) Experiments with Grain Crops; (92) The Corn Borer; (95) Comptabilité Agricole; Farm Account Book; (96) La remise à fumier: (100) Soils Drainage; (101) La luxerne; (102) Les conserves; (103) Les mauvaises herbes; (104) Les engrais chimiques; (106) Améliorer une ferme; (107) Maladies du bétail laitier. (108) Maladies du cheval; (109) Elevage du porc à bacon; (110) La pomme de terre; (111) Les abeilles; (112) Les bonnes semences: (113) Teinturerie domestique. Circulars.—(42) Sélection des troupeaux de volailles; (125) Guide des cercles de fermières; (65) Common weeds and their control; (66) Alfalfa growing in Quebec; (72) Loi des mauvaises herbes. Miscellaneous.—(107) Ventilation des étables; (108) Orientation de la culture maratchère; (117, 118, 119) Plans de poulaillers; (136) Lois sur l'agriculture; (138) Lois-Conseil d'Agriculture; (159) Brochure—Mangeons du fromage; (164) Dairy farming; (165) Statuts et règlements des co-opératives; (184) Tableau des mauvaises herbes; (291) Cent poules par ferme; (293) The Maple, Pride of Quebec.

Highways.—Nore.—Publications marked (1) are bilingual; (2) Separate French and English editions; (3) English only.

(1) Amual Report of the Minister of Highways; (2) An Act Respecting the Roads Department (1931); (2) Official Bulletin of the Roads Department (issued semi-monthly during the summer season and monthly during winter); (1) Official Highway and Tourist Map (1932); Tours in Quebec (80 pp. guide illustrated); (3) Laurentian Tours (32 pp. guide illustrated); (3) Montreal-Quebec (12 pp. illustrated); (3) The Eastern Townships (12 pp. illustrated); (3) Lake St. John and National Park (12 pp. illustrated); (3) The Old World at your Door; (3) The Gaspé Peninsula (32 pp. de luxe booklet); (3) Quebec, the Good Roads Province; Quebec, the Holiday Seeker's Playland (16 pp. illustrated booklet); (2) Gaspé Peninsula (260 pp.—complete guide—illustrated); (2) Along Quebec Highways (900 pp.—illustrated—price \$2).

Mines Branch.—Esquisse géologique et minéraux utiles de la province de Québec (1927); Iron Ores of the Province of Quebec, by P. E. Dulieux (1915); Extracts from Reports on the District of Ungava, by T. C. Denis (1915); Report on the Copper Deposits of the Eastern Townships, by J. Austen Bancroft (1910); L'industrie de l'amiante dans la province de Québec (1917); Report on Gold Deposits of Lake Demontigny, by Ad. Mailhiot (1922); Geological Sketch and Economic Minerals of the Province of Quebec (1924); Annual Reports on Mining Operations in the Province of Quebec.

Colonization, Game and Fisherles.—Annual Report of the Minister; Report on Repatriation; Fisherman's Paradise; The Laurentide National Park; Elevage du rat musqué; Fur Farming in the Province of Quebec, 1921; Le Guide du colon, 1932; Quebec Ready Reference, 1931.

Labour.—Minister's Report; Workmen's Compensation Act; Annual Report of the Workmen's Compensation Commission; Report of the Quebec Social Insurance Commission.

Public Works.—Minister's Report: Statistics of Fire Losses in the Province.

Public Instruction.—Code scolaire (1927); School Law (1927); An Act respecting the Department of Education (1925); Regulations of the Catholic Committee (1930); Regulations of the Protestant Committee (1926); Memoranda of Instructions to Teachers for Intermediate and High Schools (1925); Annual Report: Financial Statement of the Superintendent of Public Instruction (annual); Mon premier livre (1st and 2nd parts) (1900), a fresh edition of which is printed every year; l'Enseignement primaire; Educational Record; Yearly circulars containing Instructions to School Boards and School Inspectors; Course of English and French for English Catholic Schools (1926); Manual respecting the course of study in the Protestant Elementary Schools; List of authorized text books.

Legislative Council.—Agenda Paper of the Legislative Council; Votes and Proceedings of the Legislative Council; Journals of the Legislative Council; Rules and Regulations of the Legislative Council.

Legislative Assembly.—Agenda Paper of the Legislative Assembly; Votes and Proceedings of the Legislative Assembly; Journals of the Legislative Assembly; Sessional Papers, Departmental Reports and Returns to Orders and Addresses of the Legislative Assembly; Report of the Clerk of the Crown in Chancery on Elections (published after every general election); Report of the Librarian of the Legislature; Annotated Rules and Standing Orders of the Legislative Assembly of Quebec (a manual containing the rules relative to); Government and Legislature; List of the Chairmen and Members of the Committees of the Legislative Assembly.

ONTARIO.

Agriculture.—Annual Reports.—Minister of Agriculture; Agricultural College and Experimental Farm; Agricultural and Experimental Union; Stallion Enrolment Board; Agricultural Statistics; Bee-keepers' Association; Vegetable Growers' Association; Entomological Society: Agricultural Societies; Horticultural Societies; Annual Report of Ontario Veterinary College. Bulletins.—(337) Parasites Injurious to Sheep; (338) Hints on Judging Live Stock, Poultry, Grains, Grasses and Roots; (342) Fire Blight; (343) New Fruits; (344) Fruit Tree Diseases; (346) Fungus and Bacterial Diseases of Vegetables; (346) Hardy Alfalia; (347) Hay and Pasture Crops; (348) Amateur Dramatics; (350) Warble Fly; (352) Potatoes; (354) The Pear; (355) The Raspberry and Blackberry; (356) Insects attacking Fruit Trees; (357) Top Working and Repair Grafting, including Budding; (358) The European Corn Borer; (359) Insects attacking Vegetables; (361) Farm Water Supply and Sewage Disposal; (363) Parasites injurious to Poultry; (364) Manures and Fertilizers; (365) Horses; (366) Soy beans in Ontario; (367) Pork on the Farm; (368) Farm Poultry; (369) Vegetable Gardening; (370) Testing Milk, Cream, and Dairy by-products; (371) Butter-making on the farm; (372) Soft Cheese and Cheddar Cheese; (373) Dairy Cattle; (374) Use More Ontario Honey; (375) Ontario-Grown Head Lettuce; (For previous bulletins, see p. 1046 of the 1927-28 Year Book.) Specials (without serial numbers).—Food for the Family.

Attorney General.—Reports of Inspectors: Legal Officers; Registry Offices; Insurance: Division Courts. Annual Reports of Liquor Control Board and Commissioner of Provincial Police. Powers and Duties of Justices of the Peace in Ontario (handbook).

Education.—Annual Report of the Minister of Education. School Acts. Regulations and Courses of Study: (1) Public and Separate Schools; (2) Continuation Schools; (3) High Schools and Collegiate Institutes; Courses of Study and Examinations in Schools Attended by French-speaking Pupils; School Cadet Corps; General Announcement of Summer courses; Text Book Regulations, including list of text books authorized and their prices; The list of school manuals with their prices; Summer Schools for Training of Teachers; English-French Training Schools; Syllabus of Normal School Courses and Regulations for First and Second Class and Kindergarten-Primary Certificates; List of Teaching Days of High, Continuation, Public and Separate Schools; Recommendations and Regulations for Vocational Schools, etc.; Recommendations and Regulations for Agriculture and Household Science Departments; High School Entrance Examination Regulations; Announcement re the Carter Scholarships; The Penny Bank of Ontario; The School Attendance Acts and the Recommendations and Regulations and the Part Time Courses; The Consolidation of Rural Schools; Suggestions for Teachers of Subnormal Children; Accommodation, Equipment and Grants for Auxiliary Training Classes; Literature Selections for Departmental Examinations; Regulations, Medical and Dental Inspection, Public and Separate Schools.

Game and Fisheries.—Annual Report, Department of Game and Fisheries: Ontario Game and Fisheries Laws; Summary of the Ontario Game and Fisheries Laws; Practical Observations on the Fox and Proven Treatments of Common Ailments; The Mink in Captivity; Report of the Special Fish Committee, 1928-30; Report of the Special Game Committee, 1931-33; The Small-mouthed Black Bass and its Conservation; The Maskinonge and its Conservation; The Speckled Trout and its Conservation.

Health.—Acts.—The Public Health Act and The Vaccination Act; The Venereal Diseases Prevention Act; The Cemetery Act; The Public Hospitals Act: The Private Hospitals Act; The Sanatoria for Consumptives Act; The Maternity Boarding House Act. Regulations.—Regulations for the Control of Communicable Diseases; Regulations Respecting Venereal Diseases; Regulations Respecting the Manufacture of Non-Intoxicating Beverages, Distilled and Mineral Water, and the Manufacture of Syrup, Wines and Brewed Beer; Regulations for the Sanitary Control of Lumber and Mining Camps; Regulations Governing the Construction and Management of Swimming Pools; Regulations re Cross Connection of Water Supplies. Publications.—Numerous pamphlets on The Baby, Cancer, General Clinic Service, Habit Training, Home Training, Speech Training, Special Problems and Venereal Diseases, may be obtained from the Director of Hospital Services, Ontario Department of Health, Toronto. A full list of these is published annually in the Health Almanac.

Highways.—Annual Report; Annual Proceedings, Ontario Good Roads Associations; (15) Highway Traffic Act and Regulations; (16) General Specifications for Concrete Highway Bridges, 1920; (17) General Specifications for Steel Highway Bridges, 1923; (19) General Plans for Steel Highway Bridges, 1917; (22) Report on Street Improvement, 1917; (34) The Planting and Care of Roadside Trees, 1923; (35) Public Commercial Vehicles Act, 1931; Public Vehicle Act and Regulations; Consolidated Highway Improvement Act, 1931; Official Government Road Maps of Ontario, price 25c. each.

Labour,—Legislation.—Department of Labour Act; Factory, Shop and Office Building Act; Steam Boiler Act; Canadian Interprovincial Regulations for the Construction and Inspection of Boilers, Tanks and Appurtenances; Operating Engineers Act and Regulations Governing the Issuance of Certificates; Employment Agencies Act and Regulations Governing Employment Agencies; Apprenticeship Act and Regulations Governing the Training of Apprentices in the Building Trades; Regulations Respecting the Protection of Persons Working in Compressed Air; Regulations Respecting the Protection of Persons Working in Tunnels or Open Caissons; Minimum Wage Act; Orders of the Minimum Wage Board. Reports.—Annual Report of the Department of Labour, including the reports of the General Superintendent of the Ontario Government Offices of the Employment Service of Canada, Chief Inspector of Factories, Chief Inspector of Steam Boilers, Chairman of the Board of Examiners of Operating Engineers, and of the Inspector of Apprenticeship; Annual Report of the Minimum Wage Board. Booklets.—Department of Labour of Ontario; Why Certificates for Stationary and Hoisting Engineers?; Boilers, Engines, Turbines and Condensers; Beginners' Book on Power Plant Operation; Survey of Industrial Welfare in Ontario.

Lands and Forests.—(Free distribution.) Annual Report. Folder on Northern Ontario Settlers' Lands and Colonization. Folder on Summer Homes, Tourists and Campers in Ontario. The Forest Trees of Ontario (25c.), Woodlots of Ontario. Tree Planting, Ontario. Water Powers of Ontario (50c.), The Ferguson Highway. The Sault Ste. Marie-Pembroke Road. Forestry in Ontario. Gathering Pine Cones. Trees for Schools. Northwestern Ontario Highways and Tourist Attractions (50c.). Forest Resources of Ontario.

Mines.—The Mining Act, R.S.O., 1927, with Amendments from 1928 to 1932 inclusive. Handbook—Ontario's Mines and Mineral Resources, Fifth Edition, 1931. Bulletin 88, Preliminary Report of the Mineral Production of Ontario in 1931; Report of Royal Ontario Nickel Commission, 1917; Report of Ontario Iron Ore Committee, 1923; Volume XXX, Part II, Ontario Gold Deposits; Volume XXXIII, Part II, 1924, Porcupine Gold Area; Final Report of Joint Peat Committee, 1925; Volume XXXVII, Part II, 1928, Kirkland Lake Gold Area; Volume XLI, Part I, 1932, Statistical Review and Mines of Ontario in 1931; Bulletin No. 25, List of Publications (Third Edition), giving all reports issued up to March, 1932; Bulletin No. 80, Money and the World Crisis; Bulletin No. 83, Twenty-five Years of Ontario's Mining History.

Premier.—Reports of the Hydro-Electric Power Commission of Ontario and the Temiskaming and Northern Ontario Railway Commission. Tourists' Handbook. Report of the Queen Victoria Niagara Falls Park Commission.

Provincial Secretary.—Annual Reports: Ontario Board of Parole; Prisons and Reformatories; Annual Report of the Secretary and Registrar of the Province of Ontario (this report is presented to the Legislative Assembly each year, but has not been printed for several years). The Companies Act, including the Extra-Provincial Corporations Act. The Mortmain and Charitable Uses Act and the Companies Information Act. The Cooperative Credit Societies Act. The Marriage Act. Vital Statistics Act. Physicians' Pocket Reference to the International List of Causes of Death. Annual Report of Births, Marriages and Deaths. The Physicians' Pocket Reference to the International List of Causes of Death is published by the Dominion Bureau of Statistics but copies are kept in this Branch for purposes of distribution.

Public Works.—Annual Report of the Minister, with reports of the Deputy Minister, Architect's Engineer, Statements of Secretary and of Accountant.

Treasury.—Annual Statements: Main, Supplementary and Further Supplementary Estimates of Expenditure; Public Accounts: Budget Address of Treasurer delivered in the Legislative Assembly; Auditors' Report; Bureau of Archives Report; Roport of the Board of Censors of Motion Pictures.

MANITOBA.

Agriculture.—Booklets.—Annual Crop and Live Stock Reports; Map of the Province; Calendar of the Manitoba Agricultural College. Bulletins and Circulars.—Alfalfa and Sweet Clover Growing in Manitoba; Sweet Clover; The Trench Silo; Making Silage in Manitoba: The Canada Thistle; Leafy Spurge; Noxious Weeds Act; How to Kill Couch Grass; Dealing with the Weeds Problem in Manitoba; Questions and Answers about the Sow Thistle; Control of Wild Oats; Preparing Grain for Exhibition Purposes; Good Seed Pays; Perennial Sow Thistle and What Can be Done to Control It; The Root Crop in Manitoba; Forage Crop Calendar; Prevention of Cereal Smuts; Growing Better Potatoes; Milk and Cream Tests; The Nutrition of the Family; Cream Profits; Farm Butter-Making; Cheese-Making on the Farm; The Cream Separator on the Farm; Home Made Brooders; Fattening, Killing, Dressing and Marketing Chickens; Horses in Manitoba; Sheep in Manitoba; Have You Dehorned your Market Cattle?; Standards for Flower Judging; The Peony; The Gladiolus; Strubs for Manitoba; Success in Growing Annuals: Growing Vegetables in Manitoba; Vegetable Insects and their Control; Growing Better Rhubarb; The Gladiolus for Exhibition; Debates and Public Meetings; Meat Curing Recipes; Help for the Home Dressmaker; Fitting and Alteration of Dress Patterns.

Education.—Annual Report; Empire Day Booklet; Consolidation of Schools; Program of Studies, Elementary and Senior; Public School Act; Regulations.

Municipal Commissioner.—Statistical information respecting the Municipalities of the Province; Tax Arrears and other Information, and list of names and addresses of administrative and health officials of each Municipality. Report of Municipal and Public Utility Board. Manitoba Tax Commission.

Public Works.—Annual Report, included in Sessional Papers. Report of Insurance.

Attorney-General.—Annual Report. Government Liquor Commission. Workmen's Compensation Board. Annual Report of Manitoba Telephone System.

Provincial Treasurer.—Public Accounts; Estimates; Budget Speech; Report of Manitoba Farm Loan Association.

Provincial Secretary.—Manitoba Gazette; Journals and Sessional Papers. Statutes of the Province.

Mines and Natural Resources.—Manitoba Mines and Minerals; Mining Maps; Sectional Land Maps.

Health and Public Welfare.—Annual Report; Manitoba Mother: Monthly Pre-natal and Post-natal letters; Manitoba Baby; Manitoba Child; Child Study Material for small community groups; Patterns for Infants' Layettes (10c.); Regulations re Boarding Homes for Children, Maternity Homes, and Day Nurseries; Quarantine Regulations; The Common Cold; Measles; Scarlet Fever; Diphtheria; Diphtheria Immunization: Whooping Cough; Trachoma; Typhoid Fever; Health Training Material for Teachers; Report of the Royal Commission on Child Welfare Division; Report on the Poliomyelitis (Infantile Paralysis) Epidemic in Manitoba, 1928. Report on Hospitals and Nurses Training Schools in Manitoba—May 1929.

Publications issued by the Dominion Department of Pensions and National Health, The Canadian Council on Child Welfare, The Canadian National Institute for the Blind,

also used in educational service.

SASKATCHEWAN.

Agriculture.—Annual Report of the Department of Agriculture. Annual Reports of Branches, etc.: Dairy, Live Stock, Field Crops, Statistics, Extension Department of College of Agriculture. Commission Reports: Live Stock Marketing, Better Farming, Wheat Marketing. Bulletins and leaflets on Live Stock, Field Crops, Dairying, Farm Buildings, Tillage Methods, etc.

Other Publications.—Sessional Papers. Annual Reports: Department of Railways, Labour and Industries; Department of Education; Department of Highways; Department of Municipal Affairs; Department of Provincial Secretary; Department of Public Works; Department of Public Health; Department of Telephones; Department of Natural Resources; Local Government Board; Public Accounts; Cancer Commission; Research Foundation: Mental Hospitals: The Saskatchewan Gazette. By Bureau of Publications: Weekly News Bulletin; Pamphlets on Saskatchewan—Legislation, Natural Resources, etc.

ALBERTA.

Agriculture.—Annual Report of the Department of Agriculture; The Ploughing Match; Summer-fallow in Southern Alberta; Sowing Good Seed; Weeds of Alberta; Weeds Poisonous to Live Stock; Soil Cultivation; Destruction of Gophers; Sheep in Alberta; School Fairs' Calendar; Agricultural Schools' Calendar; Growing Feed in Southeastern Alberta; Turkey Breeding and Management; Fur-bearing Animals and their Management.

Attorney-General.—Annual Report on Dependent and Delinquent Children.

Education.—Annual Report; Courses of Studies for Elementary Schools; Regulations re Public School Leaving Examinations; Regulations re Examinations for Secondary School Grades; Handbook for Secondary Schools; Promotion Tests for Grades V, VI, VII, VIII and IX; Departmental Examinations for Grades X-XII; Pamphlets on Picture Study; Architecture and Sculpture; Summer School Announcement; Course of Studies and Examinations for Commercial Diplomas; Normal School Announcement; Night Class Instruction in Mining Centres; Technical Education in Mining Centres; Bulletin and Regulations covering School Buildings in Rural and Village School Districts: Series of Plans and Specifications for Teachers' Residences; Series of Plans for one- and two-roomed Schools, with Specifications; The Certification of Teachers in Alberta; Annual Announcement of the Provincial Institute of Technical High Schools; School Act; Geography Manual for High Schools; Physical Education for Rural Schools; Physical Education for Secondary Schools; Rural Education in Alberta; High Schools Civics; Seat Work Problems for Junior Grades.

Lands and Mines.—Annual Report; Annual Report of the Chief Inspector of Mines; Alberta Oil Conditions, 1932; Handbook for information of public containing information on the following: the Survey System, Homestead Entries, Grazing on Provincial Lands. Hay Permits, Cultivation Permits, Irrigation, Leasing for Recreation Grounds or Exhibition Sites, Timber Licences and Permits, Timber Permit Berths, Fire-killed Permit Berths, Damaged Timber Berths, Liability of Persons cutting Timber without Authority, Permit Dues, Telegraph and Telephone Poles, Mining Timber Dues, Persons Exempted from Timber Dues, Timber for Homesteads, Fur-Farming Leases, Issue of Permits to Mine Coal, Coal-Mining Leases, Petroleum and Natural Gas Regulations, Carbon-black Permits, Placer Mining, Quartz Mining, Permits to remove Sand, Stone and Gravel from Beds of Rivers and Lakes, Dredging Leases, Disposal of Bar-Diggings, Alkali-mining Regulations, Potash Regulations, Regulations for disposal of Bituminous Sand Deposits, Regulations for Leasing of Lands containing Limestone, Granite, Slate, Marble, Gypsum, Marl, Gravel, Sand, Clay, Volcanic Ash or any Building Stone, Forest Reserve Regulations, Fishing Regulations, Schedule of Fees.

Municipal Affairs.—Annual Report of Department; List of Alberta Municipalities; Report of the Alberta Assessment Commission Triennial Assessment, 1931-33.

Public Health.—Annual Report of Department; Annual Report on Vital Statistics. Bulletins issued monthly on various health subjects. Pamphlets regarding infectious diseases—Diphtheria, Scarlet Fever, Measles, Whooping Cough, Smallpox, etc. (in different languages). Public Health Bulletin for Teachers; Alberta Mother's Book; Mouth Health; "What you should know about Cancer" (book); General Information regarding Tonsils; Health Rules for School Children; Hints on Home Nursing; Goitre: Systems of State Medicine (book).

Public Works.—Annual Report.

Publicity.—Official Highway Map of Alberta; Statistics of Progress, 1906-28; Alberta tourist literature.

Treasury.—Budget Speech containing extracts from Public Accounts and other financial statements: Public Accounts.

Other Publications.—Annual Reports are also issued by the following Departments and Branches: Railways and Telephones, Treasury (Insurance Branch), Board of Public Utilities, Labour Bureau, Lands and Mines.

BRITISH COLUMBIA.

Agriculture.—Dairying.—(5) Varying Butter-fat Tests; (71) Butter-making on the Farm; (2) Farm Cheese; (12) Rules Governing Cow-testing Associations in B.C.; (4) Clotted Cream; (17) The Story of Feed Unit; (20) First List of Dairy Sires; (6) Care Саге of Milk and Cream; (22) Certified Milk and Butter-fat Records, 1932; (1) Ropy Milk in B.C.; (13) A Farm Dairy Sterilizer; (9) Dairy Farm Sterilizing Equipment. Diseases and of Milk and Cream; (22) Certified Milk and Butter-fat Records, 1932; (1) Ropy Milk in B.C.; (13) A Farm Dairy Sterilizer; (9) Dairy Farm Sterilizing Equipment. Diseases and Pests.—(45) Anthracnose; (39) Apple Aphides; (4) Apple-scab; (34) Woolly Aphid of the Apple; (38) The Lesser Appleworm; (32) Cabbage-root Maggot; (37) The Imported Cabbage-worm; (2) Colorado Potato-beetle in B.C.; (35) Currant Gall-mite; (68) Diseases and Pests of Cultivated Plants; (66) Fire-blight; (63) Locust-control; (61) Making Lime-sulphur at Home; (36) The Onion-thrips; (41) The Oyster-shell Scale; (31) Peach-twig Borer; Field Crop and Garden Spray Calendar; Fruit Spray Calendar; (40) Soap Solutions for Spraying; (68) Oil Sprays; (71) Dust Sprays; (33) Strawberry-root Weevil. Field Crops.—(6) The Jerusalem Artichoke: (10) Cercal Smuts; (9) Production and Preparation of Grain; (8) Field Corn; (3) Kale and Rape Crops; (86) The Potato in B.C.; (7) Rootseed Production; (98) Roots and Root-growing. (104) Weeds and their Control; (4) Noxious Weeds. Fruits and Vegetable Growing.—(67) Blackberry Culture; (69) Cantaloupe-growing in B.C. Dry Belt; (70) Celery Culture; (56) Currant and Gooseberry Culture; (43) Gardening on a City Lot; (34) Loganberry Culture; (51) Orchard Cover Crops; (53) Selection of Orchard Sites and Soils; (62) Planting Plans and Distances; (60) Pruning Fruit-trees; (55) Raspberry Culture; (67) Rhubarb Culture; (58) Strawberry Culture; (69) Tomato-growing in B.C.; (42) Top-working of Fruit-trees and Propagation; (64) Varieties of Fruit recommended for Planting in B.C. Live Stock.—(67) Care and Feeding of Dairy Cattle; (64) Goat-raising in B.C.; (60) Swine-raising in B.C.; (69) Care and Management of Sheep. Poultry.—(27) Breeding-stock Hints; (32) Fattening Young Ducks; (15) Profitable Ducks; (25) Hints on Egg Hatching; (93) Feeding for Egg Production; (12) Management of Geese; (31) The Goose; (33) Management and Rearing of Guinea-fowls; (39) Natural and Artificial Incubation and Brooding; Poultry-breeders' Directory; (63) Pr Standards of Perfection; (48) Recommendations and Suggestions to Fall Fair Associations; Farm Account Book; The Farmers' Institutes of B.C.; Farmers' Institute By-Laws; Farmers' Institute Rules and Regulations; Board of Horticulture Rules and Regulations; (47) Use of Water in Irrigation; (45) Judging Domestic Science and Women's Work, with Hints to Exhibitors; List of Publications; (35) How to Pack Nursery Stock; (83) Preservation of Food; (66) Silos and Silage; Women's Institute By-laws; Women's Institute Rules and Regulations. Reports. - Agricultural Statistics, 1932; Climate of B.C., 1932; Department of Agriculture Reports.

Lands.—Forest Branch.—Circulars: "How to Obtain a Timber Sale" and "Forests and Forestry in British Columbia"; Grazing Regulations.

Mines.—Comprehensive annual reports, special bulletins, preliminary reports, etc. obtainable on application to the Department of Mines.

Bureau of Provincial Information.— The Manual of British Columbia; Come to British Columbia; British Columbia invites you to the Land of the Golden Twilight; Alluring British Columbia: Picturesque Highways of British Columbia: Rod and Rifle in British Columbia; British Columbia, Canada; Synopsis of Hunting and Fishing Regulations, 1933-34. Lands Series of Bulletins.—(1) How to Pre-empt; (2) Some Questions and Answers regarding British Columbia; (3) British Columbia—Northern and Central Interior; (5) British Columbia—Southern Interior; (6) British Columbia Coast, Lower Mainland; (7) British Columbia Coast, Toba Inlet to Queen Charlotte Strait; (8) British Columbia Coast, Queen Charlotte Strait to Milbanke Sound; (9) British Columbia Coast, Milbanke Sound to Portland Canal; (10) Crown Lands, Purchase and Lease; (11) Cariboo Land Recording Division; (12) Kamloops Land Recording Division; (13) Similkameen Land Recording Division; (14) Vancouver Island: (15) Queen Charlotte Islands; (16) Cranbrook and Fernie Land Recording Division; (17) Yale Land Recording Division; (18) Osyoos Land Recording Division; (19) Nicola Land Recording Division; (20) Nelson and Slocan Land Recording Division; (21) Revelstoke and Golden Land Recording Division; (22) Skeena Land Recording Division; (23) Stikine and Atlin Land Recording Division; (24) Hazelton Land Recording Division; (25) Peace River District; (26) Omineca District, Nation Lakes, etc.; (27) New Westminster Land Recording Division; (28) François-Ootsa Lakes; (29) Endako and Nechako Rivers; (30) Stuart and Babine Lakes; (31) Vicinity of the Pacific Great Eastern Railway (Clinton to 52nd Parallel); (33) Central Lillooet Division; (34) The Chilcotin Plateau; (35) Fort George Land Recording Division, Central and Western Portions; (36) South Fork of the Fraser and Canoe River Valleys; Mount Garibaldi Park; Mount Robson Park; Strathcona Park, Vancouver Island.

CHAPTER XXX.—THE ANNUAL REGISTER, 1932.

Section 1.—Dominion Legislation, 1932.

Finance and Taxation.—Four Appropriation Acts were passed during the session, viz., cc. 1, 2, 3 and 57, c. 1 applying to the fiscal year ended Mar. 31, 1932, cc. 2 and 3 to the fiscal year ended Mar. 31, 1933, and c. 57 to both years. C. 1 granted \$1,059,474.33 towards defraying the general charges and expenses of the Public Service as per the Schedule accompanying the legislation. C. 2 granted the further sum of \$33,018,718.84, being one-sixth of the amount of each of the several items to be voted in the Estimates, and a further \$2,236,407.85, being one-fourth of the several items set forth in the Schedule to the Act. By c. 3, a further one-twelfth of each of the several items to be voted in the Estimates, viz., \$16,554,359.42, was granted and an additional sum of \$1,688,000, which was one-sixth of the amount of the several items set forth in the Schedule to that Act.

The Appropriation Act No. 4, 1932, c. 57, provided for \$146,707,826.92 to cover one-half of votes Nos. 35, 36, 45, 186, 207, 209-11, and 286 and the remaining three-fourths of the amount of each of the other items less deductions, as voted on in the Estimates and set forth in Schedule A appended to the Act. Further grants were made under this chapter of: \$2,242,474.83 as detailed in Schedule B; \$8,440,000, being five-sixths of the amount of each of the several items set forth in Schedule C; and \$6,620,472.95 as per Schedule D. Under this same chapter, the Governor General in Council was empowered to raise a loan of \$200,000,000 for public works and general purposes under the provisions of the Consolidated Revenue and Audit Act of 1931.

By c. 18 of the Statutes of 1932, debts due the Crown by any municipality, corporation, or public or private person or company may be retained by the Minister of Finance by way of deduction or set off out of any sums due or payable in the right of Canada to any such persons or bodies.

A payment from the Bank Circulation Redemption Fund of the amount at the credit of the Eastern Bank of Canada was authorized under c. 29.

Under the Gold Export Act (c. 33), the export of gold whether as coin or bullion may be prohibited by Regulations to be published in the Canada Gazette, except under licences to be issued by the Minister of Finance. The penalty for infringement of such Regulations is a sum not exceeding \$1,000, or imprisonment not exceeding two years or both fine and imprisonment.

The Income War Tax Act was amended by cc. 43 and 44. By c. 43 the general clause in former legislation providing for the 20 p.c. reduction was struck out and the rate of tax applicable to corporations and joint stock companies was increased; an additional rate of tax was made applicable to all persons including corporations and joint stock companies in receipt of income in excess of \$5,000; the exemption was reduced in the case of married and other persons with dependants; income derived from Dominion Government annuities, contracted for after the coming into force of the Amendment, was made exempt from income tax to the extent of \$1,200 only; Section 22 of the Income War Tax Act, as amended in 1930, permitting the organization of family corporations, was repealed; other amendments included the assessment of omitted income at double the amount and the revision of the

provisions for the making of returns by corporations. By c. 44 a special income tax of 10 p.c. was imposed on the salaries of the judiciary and commissioned officers of military, naval and air forces and of the R.C.M.P. for the fiscal year ended 1933.

Part III of the Special War Revenue Act, dealing with insurance premiums other than life and marine, is amended by c. 54 of the Statutes of 1932, as regards the tax imposed on net premiums received by certain insurance companies, the definition of premiums so regarded and the returns to be made by the insurance companies. Part IV, regarding a tax on cable, telegraph and telephone messages, and Part V, legislating for a tax on pullman seats, berths and other sleeping accommodation, are inserted in the Act after Part III.

Agriculture.—By c. 19, the Destructive Insect and Pest Act was amended to permit the Governor in Council to make Regulations to prevent the introduction or admission into Canada, or the spreading therein or shipment beyond her borders, of any insect, pest or disease destructive to vegetation. Health certificates may be granted, after inspection, for vegetable or other matter before export to any foreign country or for domestic use.

An Act respecting the incorporation of live-stock record associations—the Live-Stock Pedigree Act—is the subject of c. 49. This Chapter sets out the conditions to which applicants for the incorporation of such associations must conform, the corporate organization of these bodies, the certification of pure-bred live stock, the keeping of proper records and the penalties for false statements, etc.

Civil Service.—The Civil Service Act was amended by cc. 40 and 52. The amendments of c. 40 cover: rates of compensation on promotion, the deputy ministers' power to grant increases, the period of residence required of candidates at examinations, vacation leave, the payment of a gratuity in lieu of retiring leave, etc. A new section is added removing from the provisions of the Act postmasters of offices of which the annual revenue does not exceed \$3,000. The retirement from office of the then Civil Service Commissioners was provided for, and the subsection dealing with tenure of office of Commissioners was revised. By c. 52—the Salary Deduction Act—provision was made for the deduction of 10 p.c. from the compensation received by members of the public service of Canada for the fiscal year ending Mar. 31, 1933; the basis of superannuation benefits, however, was not to be changed.

Fisheries.—The Fish Inspection Act was amended by c. 31 as regards the kinds of domestic fish to which it applies, and the inspection of containers used for packing and marketing such fish and fish imported into Canada.

An amendment and consolidation of the Fisheries Act was carried out under c. 42. The new Act, known as the Fisheries Act, 1932, co-ordinates former legislation dealing with: fishery leases and licences; the regulation of whale fishing, seal fishing, salmon fishing, lobster fisheries, the possession of fish, construction of fishways, powers of fishery officers, protection of fishermen, penalties, etc.

Insurance, Loan and Trust Companies.—C. 45 is an Act respecting the Department of Insurance necessitated by the decisions of the Privy Council re the respective jurisdiction of the Dominion and the provinces in the matter of insurance. This Department is thereby officially re-constituted under the Minister of Finance and its duties defined. The deputy head is to be known as the Superintendent of Insurance and is appointed by the Governor in Council. Neither the Superintendent nor any officer of the Department is to be interested, directly or indirectly, in any insurance company coming under the jurisdiction of the Department. (See also p. 925).

Legislation governing Canadian, British and foreign insurance companies doing business in more than one province in Canada, defining the status and powers of such companies, and providing for a system of returns and inspection to safeguard policy-holders, is the subject of cc. 48 and 47—the Canadian and British Insurance Companies Act, 1932, and the Foreign Insurance Companies Act, 1932, respectively.

Interior.—C. 5, an Act respecting the boundary of Alberta and British Columbia, defines the boundary exactly as laid down by a survey made jointly by the Dominion and the two provinces concerned between 1915 and 1924.

The Yukon Quartz Mining Act is amended by c. 23 as regards the granting of relief in the way of a moratorium on the annual representation of work done which must be shown in accordance with the original Act, due to the low price of metals. The Mining Recorder is empowered to refuse right to obtain entry, or a certificate of work, for misrepresentation or the removing of posts or marks placed under the provisions of the Act.

Under c. 35 the Governor in Council upon recommendation of the Minister of the Interior is authorized to make refunds of monies representing dues, fees, guarantee deposits, credit balances, trust funds, etc., received in connection with the administration of the natural resources of the western provinces prior to the transfer thereof to the respective Provincial Governments.

By c. 55, Waterton Lakes National Park is made a part of the Waterton Glacier International Peace Park.

Justice.—The Admiralty Act was amended by c. 4 of the Statutes as regards the scope of the Rules which the President of the Exchequer Court of Canada may make, and the extent and effect thereof. Cc. 7, 8, 9 and 28 are Amendments of the Criminal Code. C. 7 relates to the passing of cheques without sufficient funds on deposit and the procedure to be followed in certain provinces; c. 8 prohibits the conveyance of prohibited articles for use in connection with lotteries; c. 9 is an Amendment in connection with the procedure governing summary trials in certain cases; and c. 28 re-defines the term "trustee"

The Marriage and Divorce Act was amended by c. 10, which permits marriage with a deceased's wife's sister or a daughter of a sister or brother of a deceased wife, or a deceased husband's brother or a son of a brother or sister of a deceased husband.

- Cc. 16 and 48 are Amendments to the Judges Act, the first in its relation to travelling allowances and the second as regards the removal of judges of Circuit Court, district of Montreal.
- C. 17 amended the Juvenile Delinquents Act and rules that, in the prosecution of cases of parents or adults aiding delinquency, it shall be no defence if the child does not become delinquent.

Labour.—The provisions of the Unemployment and Farm Relief Act of 1931 were extended until May 1, 1932, under c. 13, known as the Unemployment and Farm Relief Continuance Act, 1932.

Legislation respecting relief measures in the form of the Relief Act, 1932, is the subject of c. 36. This Act authorizes Agreements with provinces respecting relief, outlines the forms which such relief may take, and permits the Governor in Council to take all measures necessary, in his discretion, to protect the credit of the Dominion or any province. The power to make Orders and Regulations to facilitate the carrying out of the intention of the Act is also granted.

National Revenue.—The Excise Act was amended in several minor respects by c. 30. These included: the definition of 'Provincial Analyst', the power to refuse or suspend licences under the Excise Act, the recovery of penalties or forfeitures incurred under the Act, procedure in regard to penalties, conditions governing spirits entered for consumption, excise duties on screened malt, etc.

The Customs Tariff was amended by c. 41 with respect to repair parts, wool and hides listed as items 409, 549 and 599 of Schedule A.

Radio.—C. 51 of the Statutes is the Canadian Radio Broadcasting Act, 1932. It authorized the appointment of the Canadian Radio Broadcasting Commission and outlined its organization and powers, including the making of Agreements regarding broadcasting and the acquisition of property or the expropriation and compensation proceedings which may be taken. The expenditures of the Commission must not exceed the estimated revenue from receiving licences and must be appropriated by Parliament and audited by the Auditor-General in the same manner as other public moneys. (See also pp. 731-733.)

Trade and Commerce.—The use of the terms 'Board of Trade' and 'Chamber of Commerce' and the organization of other boards where there are existing boards are restricted under c. 14—an Act to amend the Boards of Trade Act. Any Board of Trade, duly registered, may become affiliated with the Canadian Chamber of Commerce on complying with certain requirements.

The Patent Act is amended by c. 21 of the Statutes in regard to conflicting applications for and infringements of patents, and the records and statements of applicants.

C. 22 amended the Petroleum and Naphtha Inspection Act as regards the tests applied to petroleum.

The Companies Act Amendment Act, 1932, is the subject of c. 27 of the Statutes. This Amendment deals with the registration of mortgages and charges, the maintenance of registration and transfer offices, and records.

The Trade Agreement between Canada and New Zealand assented to on May 13, 1932, is dealt with in c. 34. The Schedule accompanying the Act defines the scope of the Agreement in ten Articles. The new detailed tariff schedule agreed upon is appended to the Schedule.

The Unfair Competition Act, c. 38 of the Statutes, safeguarded the proper use of trade marks duly registered in Canada and limited the general form of design which may be adopted for trade-mark purposes and the registration thereof.

C. 39 amended the Bankruptcy Act in several respects including: proof of debt etc., appointment and powers of the interim receiver, the procedure in the case of bankrupt farmers whose liabilities exceed \$500, the proper registration of assignments, conditions governing the appointment of the trustee and custodian, the licensing and powers of a trustee, the ranking of claims, court procedure, and the records to be promptly forwarded to the Superintendent of Bankruptcy and the Dominion Statistician.

The Winding-up Act as it applies to Insurance Companies (Part III) was amended by c. 56, which re-defines the term 'assets' as it applies to such companies and describes when a company shall be deemed insolvent. Other important matters dealt with are: the order of priority for the payment of claims, the re-insurance of contracts by the liquidator without the consent of the policy-holders, and the duties of the liquidator as regards the making of reports and returns.

Transportation and Communications.—Cc. 6 and 25 of the Statutes of 1932 are Acts to authorize the additional provision of moneys to meet expenditures and indebtedness incurred on behalf of the Canadian National Railways during 1931 and 1932 respectively. The Acts grant the power to borrow for this purpose and outline the method of financing by securities which are to be issued by approval of the Governor in Council. The principle of competitive bids for the sale of such securities is laid down. Cc. 15 and 26 are Acts to authorize the guarantee by the Canadian Government of the securities to be issued under cc. 6 and 25 respectively. An extension of time for the completion of the construction of certain lines of railway by the Canadian National Railways is granted by c. 24.

Under c. 50—an Act to amend the Montreal Harbour Commissioners' Act, 1894—the original legislation is amended so that all harbour property, movable and immovable, "heretofore acquired or held" is vested in the Crown and shall be deemed to have been so vested since July 1, 1867.

Miscellaneous.—The Minister of Public Works was authorized, under c. 11, to extend for one year the provisions of the then existing Agreement with the Corporation of the City of Ottawa, for certain civic services in return for a fixed annual payment, in addition to payment for water. The Government is to undertake the upkeep of works in the vicinity of Parliament Hill.

By c. 12, Orders in Council or Regulations made by the Governor in Council under authority of the Forest Reserves and Parks Act or the Dominion Lands Act were declared to have the same force and effect as if approved by Parliament as required by those Acts.

The Opium and Narcotic Drug Act was amended by c. 20, which contains a new Schedule mentioning the substances recognized as "drugs" under the Act and re-defines "opium" An amendment is also made regarding the forfeiture of seized drugs.

The Royal Canadian Mounted Police Act is amended regarding the appointment of officers and the delegation of authority by c. 37. A new subsection is added extending the powers possessed by members of the Force in connection with the prevention of offences against the revenue laws of Canada. Amendments are also made regarding pensions and allowances to the personnel of the Force.

C. 53 amends the Soldier Settlement Act, permitting the transfer of lands which have not been sold by the Board to the municipality in which such land is situated, or the sale of lands in certain specified cases at prices not less than the estimated costs to a settler.

Section 2.—Provincial Legislation.

A list of the public Acts of the Provincial Legislatures usually appears under this section of the Year Book. In order to conserve space, it was decided last year to refer the reader to the different provincial authorities for information in this connection. The same procedure is followed this year. It is felt that whatever is lost to those readers who are interested in having all provincial legislation brought together and listed under one head, is more than offset by the information of more general interest which it has been possible to include in the limited space available, but which would otherwise have had to be omitted.

Section 3.—The Imperial Economic Conference, 1932.1

The year 1932 witnessed a notable event in the history of the Dominion—the holding of the Imperial Economic Conference in Ottawa from July 21 to Aug. 20. Thirty-eight years previously Ottawa had acted as host to an assembly of delegates from the British Empire. That, however, was a Colonial, not an Imperial Conference, and was both restricted in its powers and incomplete in its representation. The 1932 meeting in Ottawa may, in fact, be considered as the first Imperial Conference which has met outside the United Kingdom. It is, therefore, an important landmark in Imperial development.

The origin of the Conference may be found in the previous Imperial Conference of 1930. That Conference unanimously adopted the following Resolution:

"I. The Imperial Conference records its belief that the further development of intra-Imperial markets is of the utmost importance to the various

parts of the Commonwealth.

"II. Inasmuch as this Conference has not been able, within the time limit of its deliberations, to examine fully the various means by which intra-Imperial trade may best be maintained and extended, it is resolved that the Economic Section of the Conference be adjourned to meet at Ottawa on a date within the next twelve months to be mutually agreed upon, when that examination will be resumed with a view to adopting the means and methods most likely to achieve the common aim; provided that this reference is not to be construed as modifying the policy expressed on behalf of any of the Governments represented at this Conference.

"III. The agenda for the meeting referred to in the previous resolution

will be agreed between the several Governments".

At the concluding meeting of the 1930 Conference the Prime Minister of Canada, in accordance with the above Resolution, moved that the Economic Section of the Conference adjourn to Ottawa, to meet within the next twelve months at a date to be mutually agreed upon. This motion was carried unanimously.

To implement the above Resolution the Canadian Government entered into. negotiations with the other Governments of the Empire. It was not possible to hold the proposed meeting within the twelve months specified in the Resolution, but toward the middle of January, 1932, the Canadian Government formally invited the Governments of the United Kingdom, the Irish Free State, the Union of South Africa, Australia, New Zealand, India, Newfoundland and Southern Rhodesia to attend an Imperial Economic Conference at Ottawa in July, 1932. It was understood that this Conference would, in its organization and procedure, follow the wellestablished lines laid down at previous Imperial gatherings. The agenda, as finally agreed upon, was as follows:-

A. General Trade Questions.—

1. Examination of aspects of general trade and tariff policy and administration affecting Empire trade, including, inter alia, the following sub-

(a) Recognition of the principle of reciprocal tariff preferences within the

Commonwealth;

(b) General application of existing and future tariff preferences within the Commonwealth;

(c) Extension to other parts of the Commonwealth of tariff advantages accorded foreign countries;

(d) Determination of percentage of "Empire Content" necessary to secure preferential tariff treatment; (e) Export bounties and anti-dumping duties within the Commonwealth.

Prepared in the Department of External Affairs, Ottawa.

- Commercial Treaty policy with respect to foreign countries, including, inter alia:—
 - (a) Relation of intra-Imperial preferences to concessions to foreign countries;
 - (b) Interpretation of most-favoured-nation clause, particularly with reference to the development of regional preferences and of systems of import quotas.
- Consideration of the appropriate basis and means of effecting intra-Imperial
 economic co-operation, including review of existing agencies, examination
 of the report of the Imperial Economic Committee on Industrial Cooperation, and discussion of communications and of research and standardization.

B. Monetary and Financial Questions-

Consideration of existing inter-relationships of the various currencies and monetary standards of the Empire, and of the desirability and feasibility of taking steps to restore and stabilize the general price level and to stabilize exchange.

C. Negotiation of Trade Agreements.

PREPARATORY WORK.

The Canadian Government was responsible, not only for the preparation of economic data for the use of the Canadian delegation to the Conference, but also for the compilation, in convenient form, of general economic information which would be helpful to the visiting delegations. It was responsible, also, for the organization of a Conference Secretariat and the provision of accommodation and facilities for the business sessions of the Conference.

By direction of the Prime Minister, and under supervision of a Cabinet Committee, a General Preparatory Committee was set up to supervise the detailed work of preparation and to co-ordinate the activities of the various Departments of Government in connection with the Conference. Subordinate inter-departmental committees were constituted as follows:—

A Tariff Preparatory Committee, responsible for the preparation of complete tariff data, including studies of Canadian products on which tariff concessions in the other parts of the Commonwealth would be most beneficial, and of the tariff concessions which could be most easily granted in return; the examination of tariff classifications or other governmental laws or regulations tending to restrict the expansion of Canadian trade with other parts of the Commonwealth, and other tariff problems likely to be discussed at the Conference.

A General Economic Committee to undertake the preparation of exhaustive data on general economic subjects, including statistical studies of the trade of the Commonwealth, the tariff preferences already in force, the effects of such preferences on the development of trade, Empire content, import quotas, import boards or central buying or selling organizations, cartels, embargoes, steamship services, merchandise marks, preference in government contracts, industrial co-operation and specialization within the Commonwealth, and similar economic matters of intra-Imperial interest.

A Monetary Committee to prepare financial and monetary material, including: information on the discussions of monetary problems at previous Imperial Conferences, the evils of monetary instability, export credits, the international gold

standard, the re-monetization of silver, the balance of indebtedness, the movement of prices, and other monetary and financial questions likely to be of interest to the Conference.

An Administrative and Staff Committee, whose duty it was to arrange for office accommodation and supplies for delegates and their advisers, suitable meeting places for the various committees and for plenary sessions of the Conference; to organize clerical, filing, stenographic, and messenger services; to arrange for facilities for the press; and in general to make arrangements to facilitate the smooth functioning of the business sessions of the Conference.

A Government Hospitality Committee, responsible for the arrangements for the reception and accommodation of the visiting delegations and for official entertainments during the Conference. The work of this committee continued during the Conference, and there is every reason to believe that its work lived up to the fine traditions for hospitality established in London at previous Conferences.

The above committees were organized early in the spring of 1932, and in the following months a very great deal of intensive study and research was undertaken. It was evident that, in view of the special economic conditions both intra-Imperial and international under which the Conference would meet, it would require a completely new documentation on a much wider basis than for the Conference of 1930. As the preliminary and final reports of the various committees were turned in, they were studied by a Committee of the Cabinet, under the Chairmanship of the Prime Minister, and the broad lines of Canadian policy at the Conference faid down.

REPRESENTATION AT THE CONFERENCE.

The Conference opened on July 21, with the Governments represented by the following delegates:—

CANADA.

THE RT. HON. R. B. BENNETT, K.C., M.P., Prime Minister and Secretary of State for External Affairs.

THE RT. HON. SIR GEORGE H. PERLEY, K.C.M.G., M.P., Minister without Portfolio.

THE RT. HON. ARTHUR MEIGHEN, K.C., Minister without Portfolio. THE HON. HUGH GUTHRIE, K.C., M.P., Minister of Justice. THE HON. EDGAR N. RHODES, K.C., M.P., Minister of Finance.

THE HON. H. H. STEVENS, M.P., Minister of Trade and Commerce.

THE HON. Dr. R. J. MANION, M.C., M.P., Minister of Trade and Collinerce.
THE HON. Dr. R. J. MANION, M.C., M.P., Minister of Railways and Canals.
THE HON. E. B. RYCKMAN, K.C., M.P., Minister of National Revenue.
THE HON. ARTHUR SAUVÉ, M.P., Postmaster-General.
THE HON. C. H. CAHAN, K.C., M.P., Secretary of State of Canada.
THE HON. ALFRED DURANLEAU, K.C., M.P., Minister of Marine and Acting Minister of Fisheries.

The Hon. Maurice Dupré, K.C., M.P., Solicitor General.
The Hon. W. A. Gordon, K.C., M.P., Minister of Labour, Minister of Mines and Acting Minister of Immigration and Colonization.

THE HON. ROBERT WEIR, M.P., Minister of Agriculture.

UNITED KINGDOM.

THE RT. HON. STANLEY BALDWIN, M.P., Lord President of the Council. THE RT. HON. NEVILLE CHAMBERLAIN, M.P., Chancellor of the Exchequer. THE RT. HON. J. H. THOMAS, M.P., Secretary of State for Dominion

THE RT. HON. THE VISCOUNT HAILSHAM, Secretary of State for War.

THE RT. HON. SIR PHILIP CUNLIFFE-LISTER, G.B.E., M.C., M.P., Secretary of State for the Colonies.

THE RT. HON. WALTER RUNCIMAN, M.P., President of the Board of Trade. THE RT. HON. SIR JOHN GILMOUR, Bt., D.S.O., M.P., Minister of Agri-

culture and Fisheries.

COMMONWEALTH OF AUSTRALIA.

THE RT. HON. S. M. BRUCE, C. H., M.C., M.P., Minister without Portfolio. THE HON. H. S. GULLETT, M.P., Minister of State for Trade and Customs.

NEW ZEALAND

THE RT. HON. J. G. COATES, M.C., M.P., Minister of Public Works, Transport and Employment.

THE HON. W. DOWNIE STEWART, M.P., Minister of Finance and Customs,

UNION OF SOUTH AFRICA.

THE HON. N. C. HAVENGA, M.P., Minister of Finance. THE HON. P. G. W. GROBLER, M.P., Minister of Lands.

THE HON. A. P. J. FOURIE, M.P., Minister of Mines and Industries.

IRISH FREE STATE.

Mr. Sean T. O'Kelly, T.D., Vice-President of the Executive Council, Minister of Local Government and Public Health.

MR. SEAN LEMASS, T. D., Minister for Industry and Commerce. DR. JAMES RYAN, T.D., Minister for Agriculture.

NEWFOUNDLAND.

THE HON. F. C. ALDERDICE, Prime Minister.

THE HON. L. E. EMERSON, K.C., Minister of Justice.

INDIA.

SIR ATUL C. CHATTERJEE, K.C.S.I., K.C.I.E., Member of the Council of India. SIR HENRY STRAKOSCH, G.B.E., Member of the Council of India. SIR GEORGE SCHUSTER, K.C.S.I., K.C.M.G., C.B.E., M.C., Member of Council of Governor-General of India.

SIR GEORGE RAINY, K.C.S.I., K.C.I.E., I.C.S., Late Member of Council of Governor-General of India.

SIR PADAMJI PESTONJI GINWALA, Kt.

MR. R. K. SHANMUKHAM CHETTY, M.L.A., Deputy President, Indian Legislative Assembly.

Sahibzada Abdus Šamed Khan, C.I.E., Prime Minister, Rampur State.

SETH HAJI ABDOOLA HAROON, M.L.A.

SOUTHERN RHODESIA.

(As Observers.)

THE HON. H. U. MOFFAT, C.M.G., M.L.A., Premier. THE HON. P. D. L. FYNN, C.M.G., M.L.A., Treasurer.

There were in addition attached to each delegation advisers, secretaries and other assistants.

The Secretariat General of the Conference was composed of Canadian civil servants, together with one representative of each of the visiting delegations as follows:-

SECRETARY TO THE CONFERENCE.

DR. O. D. SKELTON, Under-Secretary of State for External Affairs.

DEPUTY SECRETARY TO THE CONFERENCE.

MR. J. E. READ, K.C., Legal Adviser, Department of External Affairs.

Administrative Secretary.

LT.-Col. H. J. Coghill, Sergeant-at-Arms, House of Commons.

SECRETARIES NOMINATED BY DELEGATIONS.

Canada.-MR. J. S. MACDONALD, Second Secretary, Department of External Affairs.

United Kingdom.—MR. R. B. Howorth, C.B., C.M.G., Deputy Secretary, Cabinet Office.

Commonwealth of Australia. - MR. J. F. MURPHY, Prime Minister's Department.

New Zealand.-MR. A. D. PARK, C.M.G., Secretary to Treasury.

Union of South Africa. -MR. G. P. JOOSTE, Private Secretary to the Minister of Finance.

Irish Free State.-MR. J. V. FAHY, Secretary of the Department of External Affairs.

Newfoundland .- MR. W. J. CAREW, Secretary to the Prime Minister.

India.-MR. H. A. F. LINDSAY, C.I.E., C.B.E., I.C.S.

Southern Rhodesia.-MR. F. M. C. Stokes, Private Secretary to the Premier.

On the opening of the Conference the Secretariat General took over the purely administrative side of its activities, including arrangements for the organization and meetings of committees and sub-committees, the circulation of Agenda, the drafting of reports of proceedings of the various committees and sub-committees and of the Conference itself and their distribution to the various delegations. The visiting delegations were generous in their acknowledgment of the manner in which these duties were carried out, and of the assistance of the Secretariat in the solution of the problems before the Conference.

OPENING OF THE CONFERENCE.

The Conference was opened by His Excellency the Governor General of Canada who first delivered a gracious message from His Majesty the King, which was in the following terms:—

"My thoughts and prayers are with the delegates of my Governments who are gathered in Conference to-day, to explore the means by which they

may promote the prosperity of the Peoples of this great Empire.

"At this Conference you are opening a new page of history, on which within a few weeks will be written the record of a determined effort to solve the difficulties weighing so heavily, not only on us, but upon the whole world. It is my earnest hope that when this Conference rises there will be a record of results worthily reflecting the frankness, the sincerity, and the spirit of help-fulness with which, I feel confident, your deliberations will be conducted.

"The British Empire is based on the principle of co-operation, and it is now your common purpose to give the fullest possible effect to that principle in the economic sphere. By so doing you will set in motion beneficial forces within the British Commonwealth which may well extend their impulse also to the world at large. I pray that you may be given clear insight and strength of purpose for these ends.

GEORGE R.I."

July 21, 1932.

His Excellency, on behalf of the Government and people of Canada, then welcomed the delegations who had come from Overseas.

On the motion of the Leader of the Delegation of the United Kingdom, seconded by the Leader of the Delegation of Australia, the Prime Minister of Canada was asked to take the Chair at the meetings of the Conference and of the Heads of Delegations. As its first official act, the Conference placed on record a resolution of respectful devotion to His Majesty the King, which was moved by the Prime Minister of Canada as Chairman of the Conference and seconded by the Leader of the Delegation of India, and passed unanimously.

ORGANIZATION.

The opening meeting of the Conference was held in the House of Commons Chamber, in the Parliament Buildings. It was found convenient, however, to conduct the work of the Conference at meetings of the Heads of Delegations and other Delegates, held in the Railway Committee Room and in Room 216 in the Centre Block, Parliament Buildings. These meetings were attended by the Heads of the Delegations, together with other Delegates.

It was decided to divide the matters which were under consideration by the Conference into five principal divisions, and to refer the matters comprised in each division to a committee for examination and report. These divisions included matters relating to the promotion of trade within the Commonwealth, matters relating to customs administration, matters relating to commercial relations with foreign countries, matters relating to monetary and financial questions and matters relating to methods of economic co-operation.

Committees were appointed in all instances by the meetings of Heads of Delegations and sub-committees were constituted by all of the five principal committees.

The total number of meetings was: Plenary Conference, 5; Heads of Delegations, 5; Committees and Sub-Committees, 49.

In addition to the committees and sub-committees of the Conference six groups were constituted made up of representatives of those Dominions which were interested in: (1) dairy products (including poultry and eggs); (2) meat (including live cattle and pig products); (3) fruit and vegetables; (4) cereals (including flour); (5) metals and minerals; (6) tobacco.

These groups held numerous meetings and their activities were of great assistance in connection with the bi-lateral negotiations between the United Kingdom and certain of the Dominions.

PUBLICITY.

The arrangements for publicity followed those adopted at previous Conferences. The Honourable R. J. Manion, M.C., M.P., Minister of Railways and Canals, Canada, was charged with responsibility for the general supervision of the publicity arrangements and acted as Minister in charge of Press Relations. He was assisted by the following press officers: L. B. Pearson, First Secretary, Department of External Affairs; A. W. Merriam, Private Secretary to the Prime Minister of Canada; A. Lalonde, Solicitor, Post Office Department of Canada. As evidence of the widespread interest which the Conference evoked it may be stated that 253 press representatives from Great Britain, the Dominions, the United States, France, Germany, Italy and Denmark, were given credentials.

CONCLUSIONS AND RESULTS.

The results of the Conference are to be found in (1) certain Intra-Imperial Trade Agreements, and (2) in the reports of the five committees previously referred to, which were submitted to and accepted by the Conference.

INTRA-IMPERIAL TRADE AGREEMENTS.

The following Trade Agreements were signed at the closing session of the Conference:—

- I. United Kingdom-Australia.
- II. United Kingdom-Union of South Africa.
- III. United Kingdom-New Zealand.
- IV. United Kingdom-India.
- V. United Kingdom-Newfoundland.
- VI. United Kingdom-Southern Rhodesia.
- VII. United Kingdom-Canada.
- VIII. Canada-Irish Free State.
 - IX. Canada-Union of South Africa.
 - X. Canada-Southern Rhodesia.
 - XI. Union of South Africa-Irish Free State.

The United Kingdom-Canada Agreement.—The most important of these Agreements, from the Canadian point of view, is that between the United Kingdom and Canada. It may be summarized as follows:—

Article 1.—By this the free entry of Canadian products into the United Kingdom under the Import Duties Act of 1932 is continued after Nov. 15, 1932, when it otherwise would have lapsed. This is subject, however, to the following reservation: "As regards eggs, poultry, butter, cheese and other milk products, free entry for Canadian produce will be continued for three years certain. His Majesty's Government in the United Kingdom, however, reserve to themselves the right, after the expiration of the three years, if they consider it necessary in the interest of the United Kingdom producer to do so, to review the basis of preference so far as relates to the articles above enumerated and, after notifying His Majesty's Government in Canada, either to impose a preferential duty on Canadian produce whilst maintaining preferential margins, or in consultation with the Canadian Government to bring such produce within any system which may be put into operation for the quantitative regulation of supplies from all sources in the United Kingdom market".

Article 2.—Provides for the imposition by the United Kingdom of the following duties on foreign goods in place of the duties, if any, previously levied:—

"Wheat in grain Butter Cheese Apples, raw (excluding apples consigned direct to a registered cider manufacturer for use in making	15 /-per cwt. 15 p.c. ad valorem.
cider)	4/6d. per cwt.
Pears, raw	4/6d. per cwt.
Apples, canned	3/6d. per cwt. in addition to the duty in respect of
	sugar content.
Dried fruits, now dutiable at 7/	10/6 a. per cwt.
(a) Not exceeding 14 lbs. in weight per great	
hundred	1 / per great hundred.
(b) Over 14 lbs., but not exceeding 17 lbs	1/6d. "
(c) Over 17 lbs	1/9d. "
Condensed milk, whole, sweetened	5/- per cwt. in addition to duty in respect of sugar content.
Copper, unwrought, whether refined or not, in ingots, bars, blocks, slabs, cakes, and rods	2d. per lb.

Article 3.—The United Kingdom undertakes that the general ad valorem duty of 10 p.c. imposed by the Import Duties Act of 1932 on the foreign goods specified below shall not be reduced except with the consent of the Canadian Government:—

"Timber of all kinds imported into the United Kingdom in substantial quantities from Canada, in so far as now dutiable.

"Fish, fresh, sea. Salmon, canned. Other fish, canned. Asbestos. Zinc. Lead."

Article 4.—"It is agreed that the duty on either wheat in grain, copper, zinc or lead as provided in this Agreement may be removed if at any time Empire producers of wheat in grain, copper, zinc and lead respectively are unable or unwilling to offer these commodities on first sale in the United Kingdom at prices not exceeding the world prices and in quantities sufficient to supply the requirements of the United Kingdom consumers."

Article 5.—Provides for the modification of the conditions at present governing the import into the United Kingdom of live cattle from Canada.

Article 6.—Declares that in the proposed quantitative regulation of the supplies of bacon and hams coming on to the United Kingdom market provision will be made for the free entry of Canadian bacon and hams of good quality up to a maximum of 2,500,000 cwt. per annum.

Article 7.—Secures for Canada the existing margin of preference over foreign tobacco over a period of ten years so long as the duty does not fall below 2/0½d. per lb., in which event the margin of preference shall be equal to the full duty.

Article 8.—Provides for the extension to Canada of any preference which may for the time being be accorded to any other part of the British Empire by the non-self-governing Colonies and Protectorates as well as new or additional preferences by the Colonies on a specified list of commodities and at rates shown in that list.

Article 9.—Provides for the alteration of the Canadian Customs duties on a specified list of commodities, with a proviso that nothing in the Article shall preclude the Canadian Government from reducing the duties specified in the said list so long as the margin of British preference is preserved or from increasing the rates under the intermediate or general tariff set out in the said list.

This Article of the Agreement includes the main concessions made to the United Kingdom by the Canadian Government; 225 Canadian tariff items are affected, on 223 of which the margin of British preference is increased. This result is secured in the following ways:—

(a) By reduction of the British preferential rate on 81 items;

(b) By increase in the intermediate or general rate, or both, on 89 items;

(c) By reduction in the British preferential rate accompanied by increases in the other rates, 49 items;

(d) By reduction in all rates, 2 items;

(e) By increase in all rates, 1;

(f) By reduction in the British preferential and intermediate rates, 1.

By major groups, the tariff changes mainly concern iron and steel, drugs and chemicals, textiles, leather goods, glass, vegetable oils, as well as a wide list of miscellaneous commodities.

As regards iron and steel, the changes aim to give a material widening of the preference on primary forms such as steel plates; black, galvanized and tinned sheets; boiler plates; and various kinds of strip and hoop steel. The preference is also widened on steel tires, rullway axles, wire products, steel chains, certain machinery, cutlery and small tools. Duties are removed entirely on poundage steel in bars; large bars for shafting; casement sections; rust and heat resisting steels; certain special steels; tramway rails; heavy structural shapes; forgings; automobile engines of heavy rating; telephone and radio apparatus, etc. Automobiles, motor trucks and motorcycles are also given free entry.

The British preference has also been widened in the field of drugs and chemicals, flat glass, and on manufactured leathers such as belting, sole leather, pig and morocco leathers, and all leather further finished than tanned.

So far as textiles are concerned, the changes made on cotton goods cover a wide group of textile products from yarns to clothing, and the specific duties are generally reduced by one-third, though the domestic industry is still substantially protected. Piece cottons are made free of duty, while a wider preference is given mercerized cotton yarns and other cotton products. The specific duties on woollen goods—from yarns to clothing—are reduced by at least one-quarter on every item where such duties were operative. On blankets and carpets the specific duty is cut in half, and hair yarns, lusters, linings and light weight grey fabrics and articles not made in Canada and certain jute fabrics are given free entry.

Increased preferences were also granted on anthracite coal, alcoholic liquors, vegetable oils, and other miscellaneous commodities.

Article 10.—The Canadian Government "undertake that protection by tariffs shall be afforded against United Kingdom products only to those industries which are reasonably assured of sound opportunities for success"

Article 11.—"His Majesty's Government in Canada undertake that during the currency of this Agreement the tariff shall be based on the principle that protective duties shall not exceed such a level as will give United Kingdom producers full opportunity of reasonable competition on the basis of the relative cost of economical and efficient production, provided that in the application of such principle special consideration shall be given to the case of industries not fully established."

Articles 12, 13, 14 and 15.—Provide for the establishment of a Tariff Board in Canada and outline some principles by which it will be guided.

Article 16.—"His Majesty's Government in Canada undertake that Customs administration in Canada shall be governed by such general principles as will ensure (a) the avoidance, so far as reasonably possible, of uncertainty as to the amount of Customs duties and other fiscal imposts payable on the arrival of goods in Canada; (b) the reduction of delay and friction to a minimum; and (c) the provision of machinery for the prompt and impartial settlement of disputes in matters appertaining to the application of tariffs."

Article 17.—"His Majesty's Government in Canada undertake that all existing surcharges on imports from the United Kingdom shall be completely abolished as soon as the finances of Canada will allow. They further undertake to give sympathetic consideration to the possibility of reducing and ultimately abolishing the exchange dumping duty in so far as it applies to imports from the United Kingdom."

Article 18.—"His Majesty's Government in Canada undertake to modify the existing Regulations governing the importation of pedigree stock from the United Kingdom into Canada in a manner already agreed upon in principle between themselves and His Majesty's Government in the United Kingdom."

Article 19.—Provides for the extension to the non-self-governing Colonies, Protectorates and Mandated Territories of the preferential rates of Canadian duties shown in a prescribed list and under certain conditions.

Article 20.—Provides that "nothing in the Agreement shall prejudice or diminish any of the benefits enjoyed by any of the parties thereto under the Canada-West Indies Trade Agreement dated the 6th of July, 1925".

Article 21.—"This agreement is made on the express condition that, if either Government is satisfied that any preferences hereby granted in respect of any particular class of commodities are likely to be frustrated in whole or in part by reason of the creation or maintenance directly or indirectly of prices for such class of commodities through State action on the part of any foreign country, that Government hereby declares that it will exercise the powers which it now has or will hereafter take to prohibit the entry from such foreign country directly or indirectly of such commodities into its country for such time as may be necessary to make effective and to maintain the preferences hereby granted by it."

Article 22.—"This Agreement between His Majesty's Government in the United Kingdom and His Majesty's Government in Canada is to be regarded as coming into effect as from the date hereof' (subject to the necessary legislative or other action being taken as soon as may be practicable hereafter). It shall remain in force for a period of five years, and if not denounced six months before the end of that period shall continue in force thereafter until a date six months after notice of denunciation has been given by either party."

Article 23.—"In the event of circumstances arising which, in the judgment of His Majesty's Government in the United Kingdom or of His Majesty's Government in Canada, as the case may be, necessitate a variation in the terms of the Agreement, the proposal to vary those terms shall form the subject of consultation between the

two Governments."

The Canada-South Africa Trade Agreement.—This Agreement places the commercial relations between these two Dominions on a treaty basis for the first time. It covers the principal commodities which each Dominion can sell to the other, but is naturally somewhat more limited in scope than the trade agreements concluded earlier with Australia and New Zealand. A considerable extension of the preferred list of commodities has been obtained for Canada. Special consideration has been given to corn from South Africa, although fruits in certain seasons, peanuts, sugar and molasses are also given consideration. Wheat, canned goods, motor cars, electrical appliances, rubber goods and paper products are the chief items on which concessions are made to Canada.

Canada-Irish Free State Trade Agreement.—This Agreement secures for all goods the produce and manufacture of Canada imported into the Irish Free State the benefits of the lowest rates of duty accorded to similar products of any country. In return, goods the produce or manufacture of the Irish Free State, when imported into Canada, will be accorded the same tariff treatment as similar goods imported from the United Kingdom.

Canada-Southern Rhodesia Trade Agreement.—Provision is made in this Agreement for the exchange of preferential treatment on selected lists of commodities. In addition, other goods not enumerated in the schedules continue to enjoy the benefits of existing and future British preferences. Indian corn, citrous fruits and peanuts are given free entry by Canada, whereas Southern Rhodesia gives important concessions on farm machinery, boots and shoes, and wood and paper products.

In commending these Trade Agreements to the Governments of the several parts of the Empire, the Conference recorded its conviction that by the lowering or removal of barriers among themselves provided for in these Agreements the flow of trade between the various countries of the Empire would be facilitated, and that by the consequent increase of purchasing power of their peoples the trade of the world would also be stimulated and increased. Further, that the conclusion of these Agreements was a step forward which should in the future lead to further progress in the same direction and which would utilize protective duties to ensure that the resources and industries of the Empire were developed on sound economic lines.

In addition to the four Agreements with the United Kingdom, the Union of South Africa, the Irish Free State, and Southern Rhodesia, conversations took place with the delegations from Newfoundland, India, Australia and New Zealand which served to provide an opportunity for examining the openings for mutual trade and, with regard to Australia and New Zealand, discussions were held on the supplementing of the Trade Agreements of 1931 and 1932 respectively.

August 20, 1932.

THE REPORTS OF THE COMMITTEES.

The conclusions and recommendations of the Conference based on these reports may be summarized as follows:—

Resolutions Regarding Customs Administration.—The Conference recommended that the aims to be kept in view should be:—

- (i) The avoidance of uncertainty as to the amount of duty which would be payable on the arrival of goods in the importing country;
- (ii) The reduction of friction and delay to a minimum:
- (iii) The provision of facilities for the expeditious and effective settlement of disputes relating to all matters affecting the application of the Customs Tariff;

and that any measures which Customs Administrations might take to safeguard themselves against evasion should be consistent with these principles.

Statement Regarding Commercial Relations with Foreign Countries.—The Conference considered two broad groups of questions affecting the commercial relations of the several members of the Commonwealth with foreign countries.

In the first place, the Conference discussed the general question of the relationship between intra-Commonwealth preferences and the most-favoured-nation clause in commercial treaties with foreign powers. Each Government will determine its particular policy in dealing with this matter, but the representatives of the various Governments on the Committee stated that it was their policy that no treaty obligations into which they might enter in the future should be allowed to interfere with any mutual preferences which Governments of the Commonwealth might decide to accord to each other, and that they would free themselves from existing treaties, if any, which might so interfere. They would, in fact, take all the steps necessary to implement and safeguard whatever preferences might be so granted.

In the second place, attention was drawn to recent tendencies in foreign countries to conclude regional agreements between themselves for the mutual according of preferences which were designed as being exclusive, and not to be extended to countries which were not parties to, or did not adhere to the agreements. On this point, there was a general agreement that foreign countries which had existing treaty obligations to grant most-favoured-nation treatment to the products of particular parts of the Commonwealth could not be allowed to override such obligations by regional agreements of the character in question.

The Conference recognized that the fact that rights are accorded by most-favoured-nation treatment did not preclude a foreign country from seeking the consent of the various Governments of the British Commonwealth to the waiver of their rights in particular cases, and that these Governments must be guided by consideration of their individual interests in deciding whether or not to meet the wishes of the foreign country concerned, so long, however, as the general principle that rights of this kind cannot be arbitrarily withdrawn was fully and carefully preserved.

The Conference, in addition, recommended that where two or more Commonwealth Governments shared a common interest in any proposal for the waiver of particular treaty rights, they should consult together with a view to arriving, in so far as possible, at a common policy.

Resolutions and Statements Regarding Monetary and Financial Questions.—The Conference agreed that a rise throughout the world in the general levels of wholesale prices was in the highest degree desirable, and that for dealing with the problem in its widest aspects international action was urgently necessary.

The Conference also considered what action should be taken by the nations of the Commonwealth to help toward raising prices. In this connection the Chancellor of the Exchequer made the following statement on behalf of the United Kingdom:—

"His Majesty's Government desire to see wholesale sterling prices rise. The best condition for this would be a rise in gold prices and the absence of a rise in gold prices inevitably imposes limitations on what can be done for sterling. A rise in prices cannot be effected by monetary action alone, since various other factors which have combined to bring about the present depression must also be modified or removed before a remedy is assured. His Majesty's Government nevertheless recognize that an ample sapply of short-term money at low rates may have a valuable influence, and they are confident that the efforts which have successfully brought about the present favourable monetary conditions can and will, unless unforeseen difficulties arise, be continued."

The Conference in welcoming this statement recommended that the other countries of the Commonwealth should act in conformity with the line of policy as set out in it.

The Conference, further, recognized the great importance to traders of stability of exchange rates over as wide an area as possible. The complete solution of this problem was, however, dependent on the restoration of conditions for the satisfactory working of an international standard. In the meanwhile, and pending such a solution, the Conference considered the possibility of achieving valuable results in two directions—first by creating an area of stability among countries regulating their currencies in relation to sterling; and secondly, by avoiding wide day-to-day fluctuations between sterling and gold.

As regards the latter, the Conference noted with satisfaction that the United Kingdom had already established machinery aimed at preventing wide fluctuations in the gold value of sterling caused by speculative movements. As to the former, the Conference recognized the value of the countries within the Commonwealth whose currencies were linked to sterling maintaining stability between their exchange rates and looked to a rise in the general level of wholesale prices as the most desirable means for facilitating this result.

The Conference recognized that the ultimate aim of monetary policy should be the restoration of a satisfactory international monetary standard. Such a standard should so function as not merely to maintain stable exchange rates between all countries, but also to ensure the smooth and efficient working of the machinery of international trade and finance.

This postulated international agreement among the great trading nations of the world, and while certain of the States represented held very definite views on the question of the most desirable standard, the Conference refrained from making any recommendations on the subject in view of the fact that the question was shortly to be discussed at an international conference. It was agreed, however, that there were several conditions precedent to the re-establishment of any international monetary standard. The most important among them was a rise in the general level of commodity prices in the various countries to a height more in keeping with the level of costs, including the burden of debt and other fixed and semi-fixed charges;

and an adjustment of the factors political, economic, financial and monetary, which caused the breakdown of the gold standard in many countries, and which, if not adjusted, would inevitably lead to another breakdown of whatever international standard might be adopted.

Resolutions and Statements Regarding Methods of Economic Co-operation.—The Committee considering the question of methods of economic co-operation set up sub-committees on Industrial Standardization, Grading and Standards of Agricultural Products, Industrial Co-operation, Films and Radio, and on the Existing Machinery for Economic Co-operation. The resolutions accepted by the Conference on these subjects were based on the reports of the above sub-committees.

1. Resolutions Concerning Industrial Standardization.—The Conference recommended the observation of certain enumerated principles with a view to assisting the co-ordination of national standardization. In respect of steel, timber, industrial chemical products and replaceable parts of agricultural implements and machinery, it was recommended that immediate steps should be taken by the central standardizing bodies in those parts of the Commonwealth affected to secure a greater degree of uniformity in standard specifications and trade practices.

In order to maintain closer liaison in standardizing matters, the Conference recommended that the central standardizing bodies in the different parts of the Commonwealth should be authorized to call together, periodically or otherwise, representatives in their respective countries of the corresponding bodies, or persons otherwise designated for the purpose.

- 2. Grading and Standards of Agricultural Products.—The Conference recommended various measures designed to further the adoption of improved grading and standardization. It was felt that the British Commonwealth of Nations should work towards the adoption of uniform standards for those agricultural products which experience had shown most readily lend themselves to standardization. In order to facilitate the unification of Commonwealth grade-standards arrangements should be made for the exchange of memoranda describing in detail the grade-standards in existence in the different countries concerned.
- 3. Resolutions Concerning Industrial Co-operation.—The Conference felt that the object of co-operation in this field was not to arrest change, but wisely to direct and facilitate its course. The object of any policy of industrial co-operation within the Commonwealth should be to secure the best division of industrial activities among the several parts of the Commonwealth and the ordered economic development of each part, with a view to insuring the maximum efficiency and economy of production and distribution.

The precise nature and extent of the co-operation to be achieved in any particular industry must largely depend upon effective consultation between those engaged or proposing to engage, in that industry in any two or more parts of the Commonwealth.

The Conference therefore recommended to the various industries in which conditions were suitable for the purpose, the desirability of making arrangements for such consultation at the earliest possible date; but it recorded its belief that such consultation, to be fully effective, should be conducted between responsible persons or bodies adequately representative of the industry in each part of the Commonwealth concerned.

The Conference further recommended that the Governments concerned should facilitate and assist such consultations by all available means.

4. Resolutions Concerning Films and Radio.—The Report of the Sub-Committee on this subject, which was commended to the consideration of Governments, emphasized the need for the continued development of radio and film facilities throughout the Commonwealth, and the connection of these forms of instruction and entertainment not only with the commercial development but with the cultural development and the general outlook of the peoples of the Commonwealth. Gratification was expressed at the substantial progress made in the exhibition of Commonwealth

films not only in respect to quantity but in respect to quality. In some parts of the Commonwealth this was ascribed to the quota system which required that a stipulated proportion of such films be exhibited. It was recommended that close contact should be maintained between Commonwealth producers and the censorship authorities in the different countries, in order that the former might know the conditions of censorship obtaining in each part.

In respect to radio, closer liaison between the responsible bodies controlling radio in all parts of the Commonwealth was urged. It was felt that this would assist towards the ideal of ensuring accessibility to the whole Commonwealth of all material and programs of general interest.

5. Resolutions Concerning Existing Machinery for Economic Co-operation.—The Conference, having discussed the question of Economic Consultation and Co-operation within the Commonwealth, and having considered a report prepared for it on the constitution and functions of existing agencies, recommended that a Committee should be appointed forthwith, consisting of not more than two representatives of each of the participating Governments, to consider the means of facilitating economic consultation and co-operation between the several Governments of the Commonwealth, including a survey of the functions, organization and financial bases of the agencies specified in the annex report, and an examination of what alterations or modifications, if any, in the existing machinery for such co-operation within the Commonwealth were desirable.

The Conference further recommended that the Committee should report to the several Governments represented thereon not later than May 31, 1933, with a view to the consideration of their report by the several Governments not later than September, 1933.

The Committee referred to above met in London in February, 1933, and has submitted its Report to the various Governments.

Resolutions and Statements Regarding the Promotion of Trade within the Commonwealth.—1. Empire Content.—No definite understanding could be reached in the time allotted as to percentage of Empire content necessary to secure preferential tariff treatment, but the Conference drew the attention of the several Governments of the Commonwealth to the importance of this subject, and recommended that it should be investigated, bearing in mind the following principles:

- (i) That though it must rest with each Government to decide what standard it will require, a greater degree of uniformity throughout the Commonwealth was desirable;
- (ii) The standard required should not be such as to defeat or frustrate the intention of the preferential rate of duty conceded to any class of goods.
- 2. Export Bounties and Anti-Dumping Duties.—The Conference recognized that export bounties and exchange depreciation adversely affected the value of tariff preferences within the Commonwealth, and expressed the hope that with a rise in the level of commodity prices and with stabilized exchanges such bounties and the special duties which had been adopted as a means of adjusting the situation so created might be withdrawn.

Section 4.—Principal Events of the Year.

Subsection 1.-The Economic and Financial Year.

The situation in respect of international trade and finance showed steady deterioration throughout 1932, largely as the result of the general lack of confidence, the scramble for gold, the increases of tariffs to prohibitive levels, the establishment of quotas and the restrictions imposed by many countries on foreign exchange. In this stress of circumstances, most countries tried by every means in

their power to hold the gold in their possession, with the result of further immobilizing the existing gold supply and giving to gold a scarcity value which was very acceptable to the gold producers as tending to encourage production, but was much less satisfactory to the commercial world in general. Thus we find that the aggregate gold value of the recorded international trade of the world, which in 1929 had been in the neighbourhood of \$5 billions per month, was reduced in the last quarter of 1932 to about \$2 billions per month. Under these conditions, the exports of debtor countries were quite inadequate to meet the interest due on their obligations and the result in many cases was defaults occasioning a further decline of confidence in the ability of countries other than one's own to meet their engagements.

While the depression brought the value of world trade in 1932 down to about 39 p.c. of the value of 1929, yet this was largely the result of the scarcity of gold, the quantity of world trade in 1932 being estimated by the League of Nations at 73·5 p.c. of what it was in 1929 as compared with 84·5 p.c. in 1931 and 93 p.c. in 1930. This disproportion between gold values and physical quantities has been mainly responsible for the abandonment of the gold standard by most of the countries of the world, including in recent months the United States. While it is recognized that gold is by far the most suitable commodity for use in settling international balances, it is felt that there is nothing particularly sacrosanct providing that the weight of the gold dollar or the gold sovereign shall remain for all time to come what they were before the War or between 1925 and 1930. The restoration of the gold standard on a modified and equitable basis is one of the objects of the World Economic Conference sitting at London in June, 1933.

For Canada, indeed, and for the other newer countries of the British Empire, the prospects appeared more favourable than for their competitors outside the Empire. The Empire includes the United Kingdom, the largest importer in the world, which, as the result of the Agreements entered into at the Imperial Economic Conference described in the preceding section, admits the great bulk of Empire products free of duty while imposing customs duties upon the products of foreign countries. The Imperial Conference Agreements gave to Canada an assured market in the greatest importing country in the world and thus tended to promote recovery from the depression.

Agriculture.—Although the farm production of 1932 was notably larger than in the previous year, the continued fall in prices much more than offset this advantage and the total value of production declined further. Since prices of farm products continued to fall slightly faster than the prices of goods necessary to the farmer, the purchasing power of the farmer again declined slightly. The gross agricultural revenue of Canada in 1932 is estimated at \$711,898,000 compared with \$814,930,000 in the previous year. The net revenue declined from \$538,192,000 in 1931 to \$428,829,000 in 1932. Acreages under crop increased slightly and there was more uniformity of crop production throughout the country than has been apparent for some years. The western provinces harvested an average wheat crop, which was a large factor in maintaining their farm income, despite lower prices. The average price received by growers for their wheat was 7 to 8 cents lower than for the 1931 crop.

The movement of wheat into world trade has been very slow and there will evidently be a considerable increase in year-end stocks. The more favourable exchange and freight situation has encouraged a better trade in live stock and meats with the United Kingdom. Encouragement is also to be derived from the

improvement of prices since the late months of 1932. The wholesale all-commodity index on a 1926 base rose from $64\cdot0$ in December 1932 to $66\cdot9$ in May 1933, while the index of farm products rose from $42\cdot7$ to $51\cdot2$ in the same period, thus giving one more instance where farm prices rise first and most rapidly as the country moves out of depression.

Forest Products.—The production of the products of the forest, both in the form of lumber and of pulp and paper, has been greatly curtailed during the current depression. The cut of lumber, which in 1930 amounted to 3,989,421 M ft. b.m.. declined to 2,497,553 M ft. b.m. in 1931. While figures are not yet compiled for 1932, an indication of a further serious decline in the latest year is given by the reported quantities of timber scaled in British Columbia, which were 2,332 million bd. ft. in 1930 and declined to 1,710 million bd. ft. in 1931 and to 1,442 in 1932. Pulp and paper production in Canada expanded greatly in the post-war period due to the immense resources of spruce forests and readily available water powers. The productive capacity of Canadian newsprint mills increased from 2,630 tons per day in 1920 to 12,630 tons per day in 1930. Newsprint production was 2,497,952 tons in 1930 and 2,227,052 in 1931, while a preliminary estimate for 1932 indicates a further decline to 1,907,566 tons. The decrease in building operations and the decline in newspaper and other forms of advertising, as a result of the depression, have curtailed the demand for the products of these industries. Furthermore, a large proportion of the annual Canadian production of these forest products is normally exported, so that the industries have been affected by the serious decline in world trade and in world prices. A disturbing factor in the world markets for agricultural and forest products in recent years has been the great increase in the quantities of these commodities exported by Russia. This re-appearance of Russia as a large exporter in direct competition with Canada has seriously reduced both the quantities exported and the prices received by Canadian exporters of these goods, and has been an important element in causing the present curtailment of production in Canada.

Mineral Production.—Canada's mining industry is in excellent condition to take advantage of any rise in the price of metals. During no time in recorded history have the prices of copper, lead and zinc and silver been so low as in the past year and at no time in Canadian history has Canada been better able to produce these metals; large metallurgical plants with the latest equipment were about completed when the decline in prices began. That they have been able to operate successfully is due in large part to efficient management and to successful low-cost metallurgical treatment. Continuous development work has maintained the ore reserves and operating companies are in a position to enlarge their outputs at the first indication of improvement in demand. In 1932 there was a decrease in quantity and a larger decrease in value in all metals except gold and in nearly all non-metallic minerals. The drop in prices of all other metals has been accompanied by a corresponding increase in the price of gold. The exchange situation has also assisted the gold mines and they have been able since September, 1931, to sell the product under extremely favourable conditions. In 1929, Canada's total mineral production was \$310,850,246; in 1931 it had declined to \$228,029,018 and in 1932 to \$182,-320,150, a drop of 41 p.c. from 1929. On the other hand, gold production rose from a total of \$39,861,663 in 1929 to \$63,061,103 in 1932, an increase of 57 p.c., and the impetus gained by its increase in value, enhanced by the premium, has led to the development of new properties and the discovery of new reserves in old mines. these factors indicate a larger production of gold during the next few years.

The level of employment in the mines was lower than in 1931, but the reduction in personnel was not so pronounced as in some other industrial groups. The employment index in mining, based on the 1926 average as 100, stood at 99.2, compared with 107.7 in the preceding year, while the number of persons on the pay rolls of the co-operating mine operators averaged 44,800 in 1932. Employment in the extraction of metallic ores was maintained in good volume, although activity was rather less than in 1931; coal mining showed a moderate falling-off from the level of the preceding year, while other non-metallic mineral mines were adversely affected by the general dullness in construction.

Hydro-Electric Power.—Although no new water-power development of any size was started during 1932, projects under way at the beginning of the year and completed during the year increased the total installed capacity to 7,045,260 horse-power, or by 378,923 horse-power. More than half of the total has been developed during the past nine years and almost two-thirds of it since the end of 1918. Work is well under way on three large projects totalling 700,000 horse-power, the major part of which should be completed in 1933. The output of both water and fuel electric power plants in Canada during 1932 amounted to 16,007,119,000 kilowatt hours. This was a decrease from the 1931 output of 323,748,000 kilowatt hours, but the decline of 567,135,000 kilowatt hours in exports to the United States more than accounted for this decrease, indicating an increased consumption in Canada. Canada was second only to the United States in the production of electric energy by central electric stations. In Canada 98 p.c. of the output was produced by water power, whereas the ratio in the United States was 40 p.c.

Manufactures.—In spite of the general curtailment in manufacturing since 1929, certain groups of industries have maintained a fairly high level of activity. This is particularly the case with the food and clothing industries. Thus the index of employment (1926=100) in manufactures of edible plant products was 110.9 for 1929 and 94.6 for 1932, of edible animal products, 113.8 in 1929 and 101.5 in 1932, and of textile products, 107.2 in 1929 and 97.0 in 1932. This is more or less to be expected since industries providing many of the necessaries of life are included in these groups. Moreover, these same groups did not expand in production during the period from 1923 to 1929 (see pp. 409-410 of this volume) to anything like the same extent that groups producing luxuries and equipment did. On the other hand, nearly all branches of the iron and steel industry have been severely affected by the depression. In the primary section of the industry, the production of pig iron, which reached a high record at 1,080,000 long tons in 1929, dropped to 420,038 tons in 1931 and to 144,130 tons in 1932, while the production of steel, which reached a total of 1,378,000 long tons in 1929, was 672,109 tons in 1931 and 342,788 tons in 1932. In appraising this curtailment, it should be remembered that in 1929 the industry was more actively employed than in any other peace-time year. Since that time the contraction of operations in the construction industry, the drastically reduced expenditures on improvement and equipment forced upon the railways by falling revenues, and the greatly reduced demand for industrial equipment, agricultural machinery and motor vehicles, have all had a depressing effect upon the volume of operations in the primary iron and steel industry. As indicated. this has been partially due to a falling-off in the activity of the secondary iron and steel industries. The index of employment (1926=100) in the agricultural implement industry dropped from an average of 115.6 for 1929 to 37.2 for 1931 and 26.0 for 1932, as a direct result of the reduced purchasing power of the agricultural

population. The production of motor vehicles in Canada reached a high record in 1929 with a total of 262,625 cars and trucks, but declined to 82,621 in 1931 and 60,816 in 1932, a smaller total than in any year during the period of observation commencing in 1917. This has been the result not only of reduced purchases of cars in the domestic market due to the hard times, but to a large falling-off in exports, which amounted to 102,382 in the calendar year 1929 and only 13,022 in 1932.

Construction.—The decline in construction which was in evidence during 1931 was still more pronounced during 1932. The value of construction contracts awarded during the year was \$132,872,000 compared with \$315,482,000 in 1931 and \$456,999,600 in 1930, a decline of 57.9 p.c. from the 1931 total and 70.9 p.c. from that of 1930. The total was the lowest since 1918. The smallest declines as compared with 1931 occurred in the contracts awarded for public garages, office buildings and warehouses, while residential building showed the greatest falling-off in this comparison. The building permits issued by 61 cities declined from \$166,379,325 in 1930 to \$112,222,845 in 1931 and \$42,319,397 in 1932, or by 74.6 p.c. in the two years.

External Trade.—The external trade of Canada has been affected during the past three years, so far as exports are concerned, by the smaller crops from 1929 to 1931 and the much lower prices obtained for them, as well as by the general trade depression throughout the world. The decline in imports in 1932-33 has been greater than that of exports, the normal position for Canada in a time like the present, when, with heavy interest payments to make abroad, there is no large inflow of foreign capital taking place. Exports during the fiscal year 1933 were \$480,713,797 compared with \$587,565,517 in 1932 and \$1,388,896,075 in 1929, the record year since the War. Imports in the fiscal year 1933 amounted to \$406,271,329, compared with \$578,503,904 in 1932 and \$1,265,679,091 in 1929, which was the peak year for imports.

Railway Transportation.—The passenger traffic of railways in Canada has shown a more or less steady decline during the past decade, but the decline has been greatly accelerated during the past three years and for 1932 it was less than half of the 1929 traffic. Freight traffic has also suffered and would have been considerably less but for the fairly steady flow of grain from the western provinces which was affected less than any other class of freight by the world-wide stagnation. Compared with 1929 traffic the tonnage of agricultural products was reduced by 3.1 million tons, or 14.3 p.c.; animal products was reduced by 0.8 million tons, or 27.2 p.c.: mine products by 22.9 million tons, or 54.0 p.c.; forest products by 9.6 million tons, or 63.4 p.c. and manufactures and miscellaneous freight by 17.7 million tons, or 55.2 p.c. Although the rates on grain are very low, the long haul brings the average revenue per ton up to around \$3.40 as against \$3.50 for all freight. Gross revenues of the railways, however, were greatly depleted and for 1932 the principal railways showed a decrease of \$64,000,000, or 18 p.c., compared with 1931 revenues. Although drastic reductions were made in operating expenses by cutting wages and otherwise, certain maintenance and other expenses had to be maintained irrespective of traffic and net operating revenues were down by \$843,000. Car loadings for the first 23 weeks in 1933 were below 1932 loadings by 171,358 cars, or 17.9 p.c., but were improving during May and June, the decrease at the middle of April being 20.2 p.c.; with a large stock of grain in the western country elevators (97 million bushels on June 9) to be moved to make room for the new crop and indications of improvement in other classes of freight, car loadings should pass the 1932 records before the end of the year.

Canal Traffic.—Canal traffic, unlike most of the indexes, showed an increase in 1932, largely owing to the stimulus given by the opening of the Welland Ship Canal. Total freight carried in 1932 was 17,960,650 tons, as compared with 16,189,074 and 14,803,334 tons in 1931 and 1930 respectively. The increases were mainly in the traffic on the Welland and the St. Lawrence canals, and appear to be not unconnected with the decline in railway freight traffic.

Currency and Banking.—The impact of the depression in Canada was much less severe in the purely financial sohere than in the economic, the soundness of the Canadian banking structure being undoubtedly one of the most important in dividual factors in saving the Dominion from the worst consequences of the depression. The maintenance of confidence in the solvency of the banks is indicated by the fact that the total of notice deposits was larger at the end of December, 1932. than a year earlier, a total of \$1,377,520,000 compared with \$1,360,042,000 at the end of 1931. The downward trend of current loans during 1932 forms a sharp contrast with the relative stability of notice deposits. Current loans amounted to \$964,024,000 at the end of 1932 compared with \$1,082,097,000 at the end of 1931. The surplus of notice deposits over current loans at the close of 1932 was consequently \$413,496,000 compared with \$277,945,000 at the end of 1931. increased to \$486,519,000 (\$1,399,542,000 - \$913,023,000) at April 30, 1933. Owing to the diminished demand for credit caused by the low level of business operations and the deflation of wholesale prices, the banks have added to their holdings of bonds and high grade securities until the amount at the end of April, 1933, was greater than at any other time in the history of Canadian banking, viz., \$805,-893,000. The extensive purchase of government bonds by the banks during the current period has been one of the most constructive factors toward counteracting the influence of the depression. The absence of hoarding of currency shows the confidence of the people of Canada in their currency and banking system. During 1932 the total notes in the hands of the public varied only between \$139,500,000 in November and \$154,900,000 in June. The latest available figure is \$153,150,000 in April, 1933.

Interest Rates.—As the interest rate on current and call loans in Canada is fairly well stabilized, the trend of interest rates may be determined by the prices of high-grade bonds and those of the Ontario Government have been used as representative, its bonds having been subject to the Dominion's war income tax throughout. The yield on Ontario Government bonds reached a high point at 5·00 p.c. in May and September, 1929, and declined to 4·50 p.c. in December, 1930. There was a further decline to 4·40 p.c. by September, 1931, after which the rate rose steeply to 5·20 p.c. in December, 1931, and 5·74 p.c. in January, 1932. A declining trend was in evidence again in 1932, the rate in the final month being 4·92 p.c., falling still farther to 4·70 p.c. in May 1933.

Prices.—The general trend of prices during 1932 was downward, though the decline was not so steep as in 1931. The index number of wholesale prices, on the base of 1926 equals 100, fell from 70·4 in December, 1931, to 64·0 in December, 1932. A reversal of trend was apparent in the early months of 1933, the index number rising from 63·4 in February to 67·6 in June; this rise is generally considered to indicate the arrival of better times.

Subsection 2.—Other Principal Events of the Year.

Provincial General Election.—The Eighteenth Legislature of the Province of Manitoba was dissolved on May 7, 1932, and a general election took place on June 16, 1932, resulting in the retention of the Bracken Government in power. The voting in the city of Winnipeg was conducted by the method of proportional representation.

St. Lawrence Deep Waterway Treaty.—A Treaty providing for the construction of a deep waterway not less than 27 feet in depth for navigation from the interior of the continent of North America through the Great Lakes and the St. Lawrence river to the sea, with the development of the water power incidental thereto, was signed in Washington by the Canadian Minister in Washington and the Secretary of State of the United States on July 18, 1932. This Treaty had not been ratified by the United States Senate up to the end of June, 1933.

Official Opening of the Welland Ship Canal.—The new Welland Ship Canal was officially opened by the Governor General of Canada on Aug. 6, 1932, during the Imperial Economic Conference. The Heads of the various Delegations to the Conference joined in congratulating Canada on this great engineering achievement.

The general dimensions of the new canal are as follows: length, lake to lake, 25 miles; width at water line, 310 feet; width at bottom, 200 feet; depth of canal, 25 feet; depth at lock sills, 30 feet; number of lift locks, 7; usable length of locks, 820 feet; usable width, 79 feet; lift of each lock, 46.5 feet; total lift, 325.5 feet.

As the result of the construction of the canal, the largest vessels on the upper lakes are now able to go down into lake Ontario and down the St. Lawrence river as far as Prescott where a large elevator has been constructed to handle grain on its way to the sea.

Subsection 3.--Obituary.

1932.—(See also pp. 1003-1004 of the 1932 Year Book.) June 3, Lt.-Col. Alex. Montgomerie, C.B.E., Halifax, N.S., former M.L.A. for Halifax. June 6, Hon. Henry Miles, Montreal, P.Q., former member Legislative Council for Victoria. June 7, Thomas McMillan, Stratford, Ont., M.P. for South Huron. June 13, Frederick W. Babington, Ottawa, Ont., B.Sc., F.C.I.C., F.C.S., former Chief Analyst, Department of Customs. July 1, Arthur Gilbert, former M.P. for Drummond-Arthabaska, Que. July 3, Chas. T. Thornton, Otono, Ont., former M.P. for Durham. July 6, C. Noel Wilde, Mexico City, Mexico, Canadian Trade Commissioner to Mexico. July 10, Hon. H. A. McKeown, Westfield, N.B., late Chairman of the Board of Railway Commissioners and former Chief Justice of the Supreme Court of N.B. July 11, Michael Manson, M.L.A. for Mackenzie, B.C. July 19, Hon. Vernor W. Smith, Edmonton, Alta., Minister of Railways and Telephones in the Government of Alberta; Col. Allison H. Borden, Grand Pré, N.S., Commander of the Nova Scotia Highland Brigade during the Great War. July 27, Russell T. Ferrier, M.A., Ottawa, Ont., Superintendent of Indian Education, Department of Indian Affairs. Aug. 1, Hon. John Fosbery Orde, K.C., Toronto, Ont., Justice of the Court of Appeal in the Supreme Court of Ontario; Hon. W. B. Willoughby, Moose Jaw, Sask., Senator for Moose Jaw. Aug. 7, Hon. Napoleon Antoine Belcourt, K.C., LL.M., LL.D., Ottawa, Ont., Senator for Ottawa. Aug. 23, Dr. David Warnock, former M.P. for Macleod, Alta. Sept. 7, Col. W. R. Smyth, O.B.E., Rydal Bank, Ont., former M.P. for East Algoma. Sept. 18, Hon. Frank Egerton Hodgins, B.C.L., Toronto, Ont., Justice of the First Appellate Court and Judge of the Admiralty Court. Sept. 23, Hugh Bolton Morphy, K.C., Listowel, Ont., former M.P. for North Perth. Sept. 26, Philip Thomas Ahern, Ottawa, Ont., Private Secretary to the Solicitor-General; Louis Euclide Côté, Ottawa, Ont., Chief Engineer of the Department of Marine; Sir Percy Girouard, Montreal, P.Q., former Director-General of Munitions supply for the British forces. Oct. 10, Charles E. Hanna, Belleville, Ont., former M.P. for South Hastings. Oct. 20, Dr. Edward Archibald Robertson, Montreal, P.Q., Head Examiner of the Board of Pension Commissioners. Oct. 21, Hon. Mr. Justice James Gordon Forbes, Toronto, Ont., Member of the New Brunswick Bench. Oct. 24. Francis Joseph Plant, Ottawa, Ont., Chief of the Labour Intelligence Branch, Department of Labour. Nov. 7, Dr. Dugald Stewart, Bridgewater, N.S., former M.P. for Lunenburg. Nov. 8, Frank H. Phippen, K.C., Toronto, Ont., former Justice of the Appeal Court of Manitoba. Nov. 10, James John Edmund Guérin, M.D., Montreal, P.Q., ex-M.P. for St. Ann; Hon. Andrew Haydon, Ottawa, Ont., Senator for Lanark. Nov. 11, Hon. William Patterson, Montreal, P.Q., Judge of the Supreme Court of Quebec. Nov. 15, R A. Tison, Montreal, P.Q., Deputy Registrar of the Bankruptcy Court and Deputy Prothonotary of the Superior Court of Quebec and former Editor-in-Chief of the Canada Gazette. Nov. 18, Hon. Narcisse Perodeau, Montreal, P.Q., former Lieutenant-Governor of the Province of Dec. 14, Hon. James Hamilton Ross, Moose Jaw, Sask., Senator for Moose Jaw. Dec. 27, Hon. Irving R. Todd, Milltown, N.B., Senator for Charlotte; W. H. Blow, M.D., C.M., Vancouver, B.C., former M.L.A. for South Calgary, Alta. 1933.—Jan. 1, Hon. D. Inglis Grant, Toronto, Ont., Justice of the Court of Appeal of the Supreme Court of Ontario. Jan. 11, Hon. J. W. Daniel, Saint John, N.B., Senator for Saint John. Jan. 14, Maximilian D. Cormier, Edmundston, N.B., M.P. for Restigouche-Madawaska. Jan. 17, Hon. W. E. Perdue, Winnipeg, Man., former Chief Justice of the Manitoba Court of Appeal. Jan. 23, Hon. Jacques Bureau, K.C., Montreal, P.Q., Senator for La Salle. Feb. 4, Joseph Savoie, Sherbrooke, P.Q., M.L.A. for Nicolet. Feb. 7, C. E. Therrien, Montreal, P.Q., Sheriff of Sherbrooke and former M.L.A. Mar. 2, Rt. Hon. Francis Alexander Anglin, K.C., LL.D., Ottawa, Ont., retired Chief Justice of the Supreme Court of Canada. 14, Sir Henry W. Thovnton, K.B.E., New York, U.S.A., former President of the Canadian National Railways. Mar. 29, Joseph Girouard, Montreal, P.Q., former M.P. for Two Mountains. Mar. 31, Hon. Thomas Fortin, Sainte Rose, Que., retired Judge of the Superior Court of Quebec and former M.P. for Laval; William M. German, Welland, Ont., former M.P. for Welland; Hon. Frank Oliver, Ottawa, Ont., former Minister of the Interior and Railway Commissioner. April 14, Sir Daniel McMillan, K.C.M.G., LL.D., C.B.E., M.D., Winnipeg, Man., former Lt.-Gov. of Manitoba. 'April 15, Col. Lorne Drum, Assistant Director of Medical Services, C.E.F. April 16, Hon. Achille Bergevin, Montreal, P.Q., former member of the Legislative Council and Legislative Assembly of Quebec. April 18, Judge W. W. Wells, Ottawa, Ont., former Judge of the County Court of Westmorland and April 23, Kenneth A. Blatchford, Edmonton, Alta., former Kent, N.B. M.P. for East Edmonton. April 26, William H. Walker, C.M.G., I.S.O., B.A., Assistant Under-Secretary of State, Department of External Affairs. May 2, Michael J. Walsh, Montreal, P.Q., former M.L.A. for St. Ann. May 3, Mrs. Mary Ellen Smith, Vancouver, B.C., former M.L.A. for Vancouver and Minister without Portfolio in the Oliver Cabinet; W. J. O'Hearn, K.C., Halifax, N.S., Judge of the County Court of Halifax and former Attorney-General of Nova Scotia.

May 11, Daniel Strath, Sceptre, Sask., M.L.A. for Happyland. May 14, Richard D. Ponton, Belleville, Ont., Judge of the County Court of Victoria and Haliburton: D. W. Warner, Edmonton, Alta., former M.P. for Strathcona. Samuel W. Huston, North Battleford, Sask., M.L.A. for Battleford. May 28. Hon. Helma H. Bryn, Montreal, P.Q., Consul General for Norway. May 30, Thos. M. Cayley, Norwich, Ont., M.P. for Oxford South; Dr. A. F. Rykert, Dundas, Ont., former M.L.A. for North Wentworth, June 4, W. J. McCart, Toronto, Ont., former M.L.A. for Stormont. 'June 6, Major-Gen. the Hon. Justice W. A. Logie, C.B., V.D., Toronto, Ont., of the High Court Division of the Supreme Court of Ontario; Thos. S. Davidson, Paris, Ont., former M.L.A. for North Brant. June 12, Joseph Octave Réaume, M.D., former Minister of Public Works for Ontario. June 13, Archie Esplen, Dauphin, Man., former M.L.A. for Dauphin. Hume Cronyn, K.C., London, Ont., former M.P. for London. June 20, Hon. Philippe J. Paradis, Quebec, Que., Senator for Shawinigan. June 22, Matthew J. Butler, Sydney, N.S., former Deputy Minister of Railways and Canals. David W. Bole, Winnipeg, Man., former M.P. for Winnipeg. July 2, Alexander Rogers, Hopewell Hill, N.B., former M.P. for Albert.

Section 5.—Extracts from the Canada Gazette—Official Appointments, Commissions, etc.

Note.—This list is in continuance of that at pp. 1007-1011 of the 1932 Year Book.

Lieutenant-Governors, 1932.—Oct. 25, Colonel Herbert Alexander Bruce, R.A.M.C., M.D., F.R.C.S. (Eng.), Toronto, Ont.; to be, from Nov. 1, 1932, Lieutenant-Governor of the Province of Ontario.

Senators, 1932.—Oct. 6, Albert Joseph Brown, K.C., Montreal, P.Q. Joseph Hormisdas Rainville, B.A., LL.B., St. Lambert, P.Q.

New Members of the House of Commons, Seventeenth Parliament, 1932.—June 27, Joseph Jean, K.C., elected for Maisonneuve (Island of Montreal) Que.; Hon. George Burpee Jones, elected for Royal, N.B. Oct. 3, William H. Golding, elected for Huron South, Ont.

Official Appointments, 1932.—July 26, Samuel J. Hungerford, Esq., Montreal, P.Q., Vice-President of the Canadian National Railway Company; to be a Director of the Canadian National Railway Company. Aug. 23, Dr. J. G. Fitzgerald, Director, School of Hygiene and Connaught Laboratories, Toronto, Ont.; to be re-appointed a member of the Dominion Council of Health, to date from Sept. 1, 1932. Sept. 14, William J. Reilly, Esq., Toronto, Ont., Registrar in Bankruptcy at the Supreme Court of Ontario; to be Superintendent of Bankruptcy for the Dominion of Canada. Oct. 5, The Rt. Hon. Sir George H. Perley; to be Acting Secretary of State, during the absence of the Secretary of State of Canada. Hector Willoughby Charlesworth, Esq., Toronto, Journalist; Thomas Maher, Esq., Quebec, Engineer; and Lt.-Col. William Arthur Steel, M.C., Ottawa; to be members of the Canadian Radio Broadcasting Commission, the said Hector Willoughby Charlesworth to be Chief Commissioner and Chairman and Thomas Maher to be Vice-Chairman. Oct. 6, Alphonse Raymond, Esq., Montreal; to be a member of the Board of Harbour Commissioners of Montreal, vice Joseph H. Rainville, resigned. Oct 8, George Samuel Horace Barton, D.Sc.A., Dean of Macdonald College, Ste. Anne, P.Q.; to be Deputy Minister of Agriculture. Oct. 13, Harold Wigmore McGill, M.C., M.D., Calgary, Alta.; to be Deputy Superintendent-General of

Indian Affairs. Oct. 24, William Clifford Clark, Esq., M.A., Kingston, Ont.; to be Deputy Minister of Finance and Receiver-General. Oct. 25, Frank McKenna, Esq., Montreal, P.Q.; to be a member of the Dominion Council of Health, effective from Sept. 1, 1932. Nov. 2, Lt.-Col. Léo Richer LaFlèche, D.S.O., A.D.C., to be Deputy Minister of National Defence. Nov. 7, The Hon. Robert Smith, · one of the Judges of the Supreme Court of Canada; to be a Deputy of His Excellency the Governor General. Nov. 24, Andrew William Argue, M.A., M.D., Grenfell, Sask.; Campbell Laidlaw, B.A., M.D., F.R.C.P.C., Ottawa, Ont.; and Frank B. Patterson, M.D., F.R.C.S. (Edin.), Vancouver, B.C.; to be Members of the Medical Council of Canada for four years from Nov. 26, 1932. 1933.—Jan. 17, Hon. Edouard F. Surveyer, Judge of the Superior Court, Montreal; to be a member of the Historic Sites and Monuments Board of Canada, vice Mr. Maréchal Nantel, resigned. Feb. 6. The Hon. Geo. Herbert Sedgewick, a Justice of the High Court of Justice of Ontario, Toronto, Ont.; Milton Neil Campbell, Esq., M.P., Pelly, Sask.; Charles Hébert, Esq., B.A., Montreal, P.Q., wholesale grocer; to be members of the Tariff Board, Mr. Justice Sedgewick to be Chairman and Mr. Milton Neil Campbell, Vice-Chairman. Feb. 11, The Hon. of the City of Ottawa, and Felix Desrochers, Esq., K.C., of the City of Montreal; by joint commission to be Librarians of Parliament, the Honourable Martin Burrell to be Parliamentary Librarian and Felix Desrochers to be the General Librarian. Feb. 25, Elmer Bigelow Hosmer, Esq., Montreal, Que.: to be a member of the Board of Trustees of the National Gallery of Canada. vice Newton MacTavish, Esq., resigned. April 3, Charles Heber Bland, B.A., Ottawa, Ont.; to be a member of the Civil Service Commission of Canada from April 1, vice Newton MacTavish, Esq., retired. April 15, The Hon. John Alexander Mathieson, Chief Justice of the Supreme Court of Prince Edward Island; to be administrator of the Government of the said Province during the absence of the Honourable the Lieutenant-Governor from April 15. April 26, The Hon. Horace Harvey, Edmonton, Chief Justice of Alberta: to be administrator of the Government of the Province of Alberta from May I during the absence of the Hon. the Lieutenant-Governor. May 1, Dr. G. S. H. Barton, Deputy Minister of Agriculture, Ottawa, Dr. Charles Camsell, Deputy Minister of Mines, Ottawa, Dr. A. L. Clark, Dean, Faculty of Applied Science, Queen's University, Kingston. Ontario, Dr. A. Frigon, Dean, Ecole Polytechnique, University of Montreal, and Dr. Julian C. Smith. Shawinigan Water and Power Company, Montreal, P.Q.; to be members of the National Research Council for a period of three years expiring Mar. 31, 1936. May 31, Mrs. Helen Hooper, 13 Pine Street, Saint John, N.B.; to be a member of the Dominion Council of Health. June 9, Madame Marie Gérin-Lajoje, 30 Elmwood Ave., Outremont, Quebec; to be a Member of the Dominion Council of Health. Mrs. Helen Vincent, 5 Garden St., Saint John, N.B., to be a Member of the Dominion Council of Health, vice Mrs. Helen Hooper, resigned.

Honorary Aides-de-Camp, 1932.—April 28, Lieut.-Colonel F. A. S. Dunn, Alberta University Contingent Canadian Officers Training Corps, Edmonton, Alta. Dec. 3, Assistant Commissioner (Hon. Lieut.-Colonel C.M.) G. L. Jennings, O.B.E., Royal Canadian Mounted Police, effective Nov. 30, 1932. Dec. 9, Lt.-Col. L. R. LaFlèche, D.S.O., resigns as Honorary Aide-de-Camp with effect from Nov. 11, 1932, on appointment as Deputy Minister, Department of National Defence. 1933.—June 2, Colonel H. C. Osborne, C.M.G., V.D., Reserve of Officers, effective May 30, 1933.

Judicial Appointments, 1932.—May 31, Alexander B. Campbell, Esq., Jasper, Alta.; to be Stipendiary Magistrate within Jasper National Park. David Gray Wilson, Esq., Banff, Alta.; to be Stipendiary Magistrate within Banff National Park. June 3, His Honour Judge Thomas Gallant, Gravelbourg; to be District Court Judge for the Judicial District of Assiniboia, Sask. His Honour Judge Cecil Howard Bell; to be District Court Judge for the Judicial District of Battleford, June 8. The Hon. Joseph Andrew Chisholm, Chief Justice of the Supreme Court of Nova Scotia; to investigate certain complaints bearing on the conduct of His Honour Judge Martell, County Court Judge for District 4, Nova Scotia. 16, Major David Livingstone McKeand of Ottawa, Ont., Officer in Charge of the Expedition to the Northern Archipelago; to be a Justice of the Peace in and for the Northwest Territories with the powers and authorities of two Justices of the Peace under any law or ordinance, civil or criminal, in force in the said Territories. 17, James M. Douglas, Esq., of Edmonton, Alta.; to be a Stipendiary Magistrate for the Northwest Territories. Aug. 23, The Hon. Mr. Justice Joseph Charles Walsh, of the City of Montreal, a Puisne Judge of the Superior Court for the Province of Quebec; to be a Puisne Judge of the Court of King's Bench for the said Francis Joseph Curran, Esq., of the City of Montreal; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. Wilfred Laliberté, Esq., of the Town of Victoriaville, Quebec; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. Herbert Warren Sangster, Esq., Windsor, N.S.; to be a Judge of the County Court for District No. 4 comprising the Counties of Kings, Hants and Colchester in the Province of Nova Scotia. Aug. 26. Arthur Courtney Kingston, Esq., of the City of St. Catharines, Ont.; to be a Judge of the High Court of Justice for Ontario. Sept. 21, Joseph Léon St. Jacques, Esq., Montreal, P.Q., to be a Puisne Judge of the Court of King's Bench in and for the Province of Quebec. The Hon. Joseph Mathias Tellier, a Puisne Judge of the Court of King's Bench in and for the Province of Quebec; to be Chief Justice of the Court of King's Bench of the said Province. The Hon. Oswald Smith Crocket, a Puisne Judge of the King's Bench Division of the Supreme Court of N.B.: to be a Puisne Judge of the Supreme Court of Canada. Sept. 27, Patrick Kerwin, Esq., Guelph, Ont.; to be a Judge of the High Court of Justice for Ontario. Hon, Mr. Justice Ward Chipman Hazen Grimmer, Judge of the Appellate Division of the Supreme Court of New Brunswick; to be Judge of the Court of Divorce and Matrimonial Causes of New Brunswick. Oct. 31, Richard D. Ponton, Esq., Belleville, Ont., one of His Majesty's Counsel learned-in-the-law; to be Judge of the County Court of the Counties of Victoria and Haliburton, and a local Judge of the High Court of Justice for Ontario, effective Dec. 1, 1932. Dec. 1, Finlay Ewart Perrin, Esq., London, Ont., one of His Majesty's Counsel learned-in-the-law; to be Judge of the County Court of the County of Oxford in the Province of Ontario, and to be a Local Judge of the High Court of Justice of Ontario. Dec. 2, Errol Malcolm William McDougall, Esq., of Montreal, P.Q., one of His Majesty's Counsel learnedin-the-law; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. Dec. 7, His Honour Judge Frank M. Field, a Junior Judge of the County of York, in the Province of Ontario; to be Local Judge in Admiralty of the Exchequer Court for the Toronto Admiralty District. 1933 .- Jan. 5, Henry Hague Davis, Esq., K.C., Toronto, Ont.; to be a Justice of the Court of Appeal and ex officio a Judge of the High Court of Justice for Ontario. Jan. 17, Noel Belleau, Esq., K.C., Lévis, P.Q.; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. Jan. 24, William Edward Fisher, Esq., Prince Rupert, B.C., barrister-atlaw; to be Judge of the County Court of Prince Rupert in the said Province and a Local Judge of the Supreme Court of B.C. Jan. 30, Andrew M. Harper, Esq., Vancouver, B.C., barrister-at-law; to be Judge of the County Court of Vancouver and a Local Judge of the Supreme Court of B.C. Feb. 1, The Hon. Mr. Justice Joseph Archambault, Puisne Judge of the Superior Court of the Province of Quebec, for the District of St. Francis; to be a Puisne Judge for the District of Montreal, succeeding the Hon. Mr. Justice Louis Edmond Panneton, resigned. Verret, Esq., K.C., of Coaticook, P.Q.; to be a Puisne Judge of the Superior Court of the Province of Quebec for the Judicial District of St. Francis. Feb. 25, Percy John Jennings, Superintendent, Banff National Park, and Joseph Luke Horsfall, Principal Clerk. Banff National Park; to be Justices of the Peace for the purposes of the National Parks Act. Mar. 17, The Rt. Hon. Mr. Justice Lyman Poore Duff, one of the Puisne Judges of the Supreme Court of Canada; to be Chief Justice of Canada. Eric Armour, Esq., K.C., Toronto, Ont.; to be a Judge of the High Court of Justice for Ontario. Mar. 28, Fawcett Gowler Taylor, Esq., K.C., Portage la Prairie, Man.; to be a Judge of His Majesty's Court of King's Bench for Manitoba. Joseph Lawrence Ryan, Esq., Bathurst, N.B., barrister-at-law; to be Judge of the County Court for the Counties of Northumberland, Gloucester and Restigouche, N.B., effective April 15, 1933. June 2, The Honourable Charles Dow Richards, Fredericton, N.B., one of His Majesty's Counsel learned-in-the-law; to be a Judge of the King's Bench Division of the Supreme Court of New Brunswick. Henry Walter Whitla, Esq., Winnipeg, Man., one of His Majesty's Counsel learned-in-the-law; to be Senior Judge of the County Court for the Eastern Judicial District of the Province of Manitoba. Joseph Bernier, Esq., Winnipeg, Man., barrister-at-law; to be Junior Judge of the County Court for the Eastern Judicial District of the Province of Manitoba, effective June 15, 1933.

Commissioners, 1932.—June 22, Stanislas Albert Baulne, Montreal, Que., Civil Engineer; to be a Commissioner to inquire into all matters pertaining to an explosion in the drydock of the Maisonneuve plant of the Canadian Vickers, Ltd., on Friday, June 17, 1932. July 13, A. S. Black, Esq., Principal Postal Clerk, Vancouver, B.C.; to be a Commissioner to administer the Oath of Allegiance and of Office to employees of the Vancouver Post Office. July 20, Colin Fraser Elliott, Esq., K.C., Ottawa, Ont.; to be Commissioner of Income Tax. July 26, C. A. Pariseault, Esq., Montreal, barrister; to investigate such charges of political partizanship against Dominion Government employees in the Province of Quebec as may be referred to him. 14, John Hascoll Frederick English, Esq., Canadian Trade Commissioner, Dublin, Irish Free State; to be a Commissioner to administer oaths and take affidavits, declarations and affirmations in the Irish Free State, concerning any proceedings had or to be had in the Supreme Court of Canada and any other such oaths as may be competent for His Excellency in Council to authorize within the I.F.S. Sept. 27, The Hon. Mr. Justice Frank Ford, a Puisne Judge of the Supreme Court of Alberta; to make inquiries into the circumstances respecting the alleged misbehaviour of His Honour Lewis St. George Stubbs, Judge of the County Court for the Northern Division of the Eastern Judicial District in the Province of Manitoba. John Campbell MacGillivray, Esq., Canadian Trade Commissioner, Rotterdam, Holland; to be a Commissioner to administer oaths and to take and receive affidavits, declarations and affirmations in the Kingdom of Holland in or concerning proceedings in the Supreme or Exchequer Court of Canada and such other oaths, etc., as it may be competent for His Excellency in Council to authorize within the Kingdom of Holland. Nov. 30, His Excellency the Governor General in Council has been pleased

to authorize the issue of a Writ of Supersedeas cancelling the Commission appointing the Hon. Mr. Justice Frank Ford, a Puisne Judge of the Supreme Court of Alberta, dated Sept. 27, 1932, to make inquiries and report respecting certain complaints against the conduct of His Honour Lewis St. George Stubbs, a Judge of the County Court in Manitoba: and has been pleased to authorize the issuance of a new Commission to the Honourable Mr. Justice Ford to investigate any and all complaints against His Honour Judge Lewis St. George Stubbs, by Judges of the Supreme Court of Manitoba or the Attorney-General of the said Province from the date of his appointment as a County Judge up to and including Nov. 29, 1932. Dec. 7, Charles Prescott Dunn, Esq., Postmaster at Yarmouth, N.S.; to administer the Oath of Allegiance and of Office to employees of the Post Office Department at Yarmouth. Dec. 17, John Cormack, Esq., Canadian Trade Commissioner at Dublin, Irish Free State; to be a Commissioner to take and receive affidavits, declarations and affirmations in the Irish Free State concerning proceedings in the Supreme and Exchequer Courts of Canada and any other such oaths, etc. as may be competent for His Excellency in Council to authorize within the Irish Free State. J. C. Martineau, Esq., Lévis, P.Q.; to administer the Oath of Allegiance and of Office to new employees entering the Lévis Post Office. 1933.—Jan. 5. Robert Wakefield Ward, Esq., Postmaster, Lethbridge, Alberta; to administer the Oath of Allegiance and of Office to new employees entering the Lethbridge Post Office. Jan. 24, His Excellency the Governor General in Council has been pleased to cancel the Commission dated Dec. 17, 1932, issued by error in the name of John Cormack, Esq., described as Dominion Trade Commissioner at Dublin, I.F.S., and authorizing him to administer oaths concerning actions in the Supreme and Exchequer Courts of Canada and to direct the issue of a new Commission appointing James Cormack, Esq., Dominion Trade Commissioner at Dublin, I.F.S., to administer the aforesaid April 8, Ralph McDonald Spankie, Esq., K.C., Deputy Registrar of the Exchequer Court of Canada; to be a Commissioner to administer oaths and to take and receive affidavits, declarations and affirmations in any proceedings in the Supreme and Exchequer Courts of Canada. April 8, Paul C. Quinn, Esq., Saint John, N.B.; to be a Commissioner to investigate such charges of political partizanship against Government employees as may be referred to him.

Day of General Thanksgiving.—Monday, Oct. 10, 1932, was appointed by proclamation as a "day of general thanksgiving to Almighty God for the bountiful harvest and other blessings with which Canada has been favoured this year"

APPENDIX I.

Immigration in the fiscal year 1932-33.

During the fiscal year ended March 31, 1933, the immigrants into Canada, classified as in the summary table appearing on p. 187 of this volume, were as follows: From U.K., 3,097; from U.S.A., 13,196; from other countries, 3,589; total, 19.872.

Canadians returned from the United States during the fiscal year ended March 31, 1933, classified as in the table on p. 200, were as follows: Canadian-born, 16,320; British-born with Canadian domicile, 757; naturalized Canadian citizens, 548; total, 17,625.

2.—External Trade of Canada in the fiscal year 1932-33.

Preliminary figures of the external trade of Canada for the fiscal year ended Mar. 31, 1933, show a grand total trade of \$886,985,126, as compared with a figure of \$1,166,069,421 in the preceding year, or a decrease of \$279,084,295. The decrease in the imports was \$172,232,575. Domestic exports decreased by \$102,544,347, and foreign exports by \$4,307,373. Figures by industrial groups are given in the following table, where the figures of imports and exports may be compared with the totals given for previous years in the tables on pp 516, 524-525 of this volume.

Imports and Exports of Canada, fiscal year ended Mar. 31, 1933.

Industrial Group.	Imports.
	\$
Agricultural and vegetable products. Animals and animal products. Fibres, textiles and textile products Wood, wood products and paper. Iron and its products and paper. Non-ferrous metals and their products. Non-metallic minerals and products. Chemicals and allied products. Miscellaneous commodities.	88, 220, 851 15, 438, 57 61, 214, 824 20, 489, 244 59, 336, 76 17, 684, 955 87, 658, 006 25, 455, 485 30, 772, 668
Total Imports	406,271,329
Total, Dutiable Imports Total, Free Imports Duty Collected	256,349,685 149,921,644 77,028,992

Imports and Exports of Canada, fiscal year ended Mar. 31, 1933—concluded.

Industrial Group.	Exports.
Agricultural and vegetable products Animals and animal products Fibres, textiles and textile products. Wood, wood products and paper Iron and its products. Non-ferrous metals and their products. Non-metallic minerals and products. Chemicals and allied products. Miscellaneous commodities.	4,781,094 120,886,796 17,277,099 42,642,318 9,215,837
Total, Domestic Exports	473,799,955 6,913,842
Total Exports	480,713,797
Grand Total, External Trade	886,985,126

APPENDIX II.

Miscellaneous Statistics of the Census of Agriculture.1

Table 1, following, gives final results of the Census of Agriculture taken as of June 1, 1931, regarding occupied farms, farm areas and values, mortgage indebtedness and farm expenditures. The outstanding feature of the table is the decrease shown in the number of owned farms and the large increases in the other two classes "partly-owned, partly-rented" and "occupied by tenants" as compared with 1921 census. The percentage of all farms fully owned for the whole of Canada has decreased from 86.52 p.c. in 1921 to 80.05 p.c. in 1931. The large acreage in the "partly-owned, partly-rented" type in the western provinces is due to the fact that most ranches are composed of small acreages actually owned and additional large acreages of pasture leased from the governments.

Farm values, when compared with 1921, show that for Canada as a whole they have decreased by 20·33 p.c. and most of this decrease has been suffered by land and live stock, the former accounting for 74·9 p.c. of the total decrease and the latter 21·8 p.c. Generally speaking the eastern provinces show a smaller decline in values than the Prairie Provinces.

Statistics covering mortgage indebtedness were compiled for the first time for Canada in 1931. Every farm owner was asked for a statement of the mortgage debt on his farm. The instructions to enumerators read as follows: "The mortgage debt to be reported includes not only the debt secured by an instrument called a 'mortgage' but also debts protected by deeds of trust, judgments or by any other legal instrument that partakes of the nature of a mortgage and which has the same legal effect. It has reference only to a debt secured by a mortgage, or by an equivalent legal instrument on lands and buildings". This, however, does not represent all the farmers' obligations as it covers only land operated by the owners themselves. The total mortgage debt reported on owned farm land in Canada amounted to \$671,776,500 on June 1, 1931. This amount was distributed among the provinces as follows: Ontario 29.74 p.c., Saskatchewan 26.16 p.c., Alberta 16.00 p.c., Quebec 14.35 p.c., Manitoba 8.82 p.c., British Columbia 2.26 p.c., Nova Scotia 0.98 p.c., New Brunswick 0.97 p.c., and Prince Edward Island 0.72 p.c.

In order to state the ratio of the mortgage debt to the value of the farms, only the "fully-owned" farms were considered, because in the case of the "partly-

¹ This material has been revised by E. S. Macphail, Chief, Demography Branch, Dominion Bureau of Statistics.

owned, partly-rented" farms the value of the farm was stated as a whole, consequently it is impossible to determine the value of the part which was owned. Since the number of fully-owned farms represents over 79 p.c. of the total, the sample is sufficiently large to be representative of the whole. For the Dominion as a whole 35.56 p.c. of the fully-owned farms reported mortgage debts. This percentage was distributed as follows: Prince Edward Island 33.49 p.c., Nova Scotia 10.35 p.c., New Brunswick 17.61 p.c., Quebec 31.74 p.c., Ontario 40.82 p.c., Manitoba 39.68 p.c., and British Columbia 25.88 p.c. The ratio of the mortgage debt to the value of the mortgaged farm is as follows: Canada 40.86 p.c., Prince Edward Island 33.74 p.c., Nova Scotia 40.45 p.c., New Brunswick 38.26 p.c., Quebec 38.27 p.c., Ontario 44.79 p.c., Manitoba 49.46 p.c., Saskatchewan 38.11 p.c., Alberta 38.75 p.c., and British Columbia 34.76 p.c.

Statistics of farm expenditures are also given in Table 1. The figures of taxes are for farms occupied by owners only and therefore do not represent the whole amount of taxes paid. There are no comparable figures for previous censuses, since this information was first asked for on the schedules in 1931.

The expenditure for feed has decreased generally in all the provinces from 1921 to 1931, but the indications are that the decreases are not in the quantities bought but in the prices which prevailed. There has been an increase in the use of fertilizers since 1921. This increase has taken place mostly in Ontario and the Maritime Provinces and may be associated with the growing of potatoes and fruits.

Information was obtained for the first time in 1931 relating to cash expenditure for electric light and power and for spraying chemicals.

The amount of money expended for labour may be taken as an index of the changes which have taken place in methods of farming during the period 1921-31. Compared with 1921 there has been an increase in money spent for hired labour in the Maritime Provinces, where specialized farming requiring manual labour has been developed during the past decade. There was, however, a decrease in labour costs in most of the other provinces where improved machinery has done away to a large extent with the necessity of using manual labour.

1.—Miscellaneous Agricultural Statistics of the Census of 1931 (Covering Occupied Farms, Farm Areas and Values, Mortgage Indebtedness and Farm Expenditures).

					
Item.	Prince Edward Island.	Nova Scotia.	New Brunswick.	Quebec.	Ontario.
Numbers of occupied farms, 1931. No Occupied by owner!	12,865 12,091	39,444 37,176	34,025 31,933	135,957 126,563	192, 174 157, 427
" part owner, part tenant" tenant"	540 234	1,213 1,055		4,305 5,089	13,283 21,514
FARM AREAS, 1931.					
Areas of occupied farmsacre Occupied by owner	1, 191, 202 1, 108, 258	4,302,031 4,061,333	4, 151, 596 3, 849, 881	17, 445, 089 16, 184, 602	22,840,898 18,554,741
tenant " tenant "	69,348 13,596	161,783 78,915	207,414 94,301	780, 906 529, 581	2,216,009 2,070,148
FARM VALUES, 1931.			ļ		
Totals	58,332,029 23,233,900 19,686,500 8,115,900 7,295,729	105,877,410 88,824,000 43,890,500 10,554,100 12,808,810	38,380,300 38,680,500 18,252,500	426,213,000 257,917,800	1,397,665,762 585,837,900 487,009,300 151,928,200 172,890,362
Mortgage Indeptedness, 1931.	i				
Totals of mortgage debt ²	4,866,700	6,570,000	6,485,400	96,409,400	199,755,100
gage debt	4,250	4,049	5,912	41,923	70,818
cupied farms p. c Mortgage indebtedness on fully- owned farms? 1931— Number of farms reporting	33 ∙03	10.27	17.38	30-84	36-85
mortgage debt	4,049	3,848	5,628	40, 167	64,263
Proportions of total numbers of fully-owned farmsp.c.	33 - 49	10-35	17-61	81.74	40-82
Acreages of farms reporting mortgage debtacre	390,681	509,670	818,929	5,565,961	7,559,555
Value of farm property (land and buildings)	18,731,000 4,632,700	14,742.000 5,962,500		239,856,800 91,781,800	403,096,300 180,543,500
Ratios of mortgage debt to valuep.c	33.74	40-45	38-26	38-27	44 - 79
Average values of farm property per acre	35 · 14	28 92	19-48	43-09	53.32
Average amounts of mortgage debt per acre	11.85	11.70	7 - 45	16-49	23 - 88
FARM EXPENDITURES, 1930.					
Taxes ⁴ . \$ Rents ⁵ . \$ Expenditures for feed. \$ Numbers of farms reporting. No Expenditures for fertilizer. \$ Numbers of farms reporting. No Expenditures for seed. \$ Numbers of farms reporting. No Expenditures for feetric light and	198,740 47,260 321,640 5,634 950,250 9,065 227,370 9,142	154,036 2,782,426 28,426 879,546 18,504 368,126 17,108	122,710 1,810,310 19,526 1,495,830 17,431 472,490 19,192	1,051,750 10,785,280 84,166 1,302,200 30,480 2,705,840 81,005	5,787,970 15,096,760 104,410 2,997,060 43,741 4,595,550 111,555
power	14.740 449	3,267	2,229	17,907	24,367
and board)	1,071,210 5,566 110,368	10,991	10,879	38,323	29,674,820 85,890 451,341

Include farms occupied by managers. ² Include mortgage debt on owned parts of farms only.

The term "fally-owned" as employed here means the owners who own all of their farms and does not include the owned part of the farms partly owned and partly rented.

Include taxes on owned farm property only.

This item represents "cash" paid in each case and does not include the values of products paid by share tenants.

1.—Miscellaneous Agricultural Statistics of the Census of 1931 (Covering Occupied Farms, Farm Areas and Values, Mortgage Indebtedness and Farm Expenditures) —concluded.

-concuided.					
Item.	Manitoba.	Saskat- chewan.	Alberta.	British Columbia.	Total, Nine Provinces.
Numbers of occupied farms, 1931. No. Occupied by owner!	54, 199 37, 973	136,472 90,691	97,408 71,060	26.079 21,385	728, 623 586, 299
tenant	6,369 9,857	24,737 21,044	14,540 11,808	1,841 2,853	67,942 74,382
FARM ARBAS, 1931.					
Areas of occupied farmsacre Occupied by owner!	15,131,685 9,272,776 2,974,227		21,423,004	2,489,933	168, 254, 959° 107, 184, 148 36, 031, 933
tenant"	2,884,682	8,242,504	5,817,679	307, 472	20,038,878
FARM VALUES, 1931.					
Totals	388,142,128 200,270,300 88,389,200 54,847,200 44,635,428	1,272,662,978 765,349,000 228,794,500 185,510,500 98,008,978	869,431,858 534,092,700 137,331,700 116,300,600 81,706,858	98,356,900 46,224,300	5,247,753,468 2,710,358,000 1,342,924,300 650,664,000 543,807,168
Mortgage Indertedness, 1931.					
Totals of mortgage debt ²	59,223,400	175,770,300	107,519,000	15,177,200	671,776,500
gage debt	18,710	55,955	35,003	6,230	242,850
Proportions of total numbers of oc- cupied farmsp.c Mortgage indebtedness on fully- owned farms ³ , 1931— Number of farms reporting	34.52	41.00	35-93	23.89	3 3-33
mortgage debt No	15,067	41,757	28, 152	5,534	208,460
Proportions of total numbers of fully-owned farmspc	39.68	46.04	39-62	25-88	35-56
Acreages of farms reporting mortgage debtacre	4,342,019	15,801,350	9,144,892	569,841	44,702,898
Value of farm property (land and buildings)	95,353,700 47,162,800			36,886,800 12,821,800	
Ratios of mortgage debt to valuep.c	49-46	38-11	38-75	34 - 76	40-86
Average values of farm pro- perty per acre\$	21-96	21.79	24-20	64 · 7 3	30-99
Average amounts of mortgage debt per acre	10-86	8:31	9-38	22.50	12.66
FARM EXPENDITURES, 1980.					
Taxes* \$ Rents* \$ Expenditures for leed \$ Numbers of farms reporting No Expenditures for fertilizer \$ Numbers of farms reporting No Expenditures for seed \$ Numbers of larms reporting No Expenditures for leetric light and	4,514,580 056,760 2,222,570 19,020 16,950 191; 1,264,110 18,455	4,921,110 34,787 22,360 199 3,556,670 41,609	7,621,450 1,145,910 3,697,580 23,387 16,950 22,323,520 31,409	1,370,710 1,044,490 5,645,940 15,962 440,590 5,225 529,030 13,331	54,184,640 11,037,230 47,283,610 385,318 8,121,730 125,058 16,042,700 342,806
Numbers of farms reporting No. Expenditures for farm labour (cash	73,080 1,230	1,908	101,070 1,654	224,650 5,730	2,377,980 58,741
and board)	9,564,000 23,134 23,185	23,408,040 57,047 40,841	16,608,260 39,454 40,762	5,841,750 9,760 118,134	100,425,980 281,044 1,276,990

¹ Include farms occupied by managers. ² Include mortgage debt on owned parts of farms only.
³ The term "fully-owned" as employed here means the owners who own all of their farms and does not include the owned part of the farms partly owned and partly rented. ¹ Include taxes on owned farm property only. ³ This item represents "cash" paid in each case and does not include the values of products paid by share tenants. "Occupied farm lands in the Northwest Territories and Yukon have an area of approximately 5,000 acres. (See Table 1, pp. 1032–1033.)

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