CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

REPORT

on the

GENERAL MANUFACTURES

of

CANADA

1928

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MANUFACTURES OF CANADA, 1928.

Ottawa, March, 1930. A Preliminary report on the manufacturing industries of Canada for the year ending 31st December, 1928, is herewith presented, the principal statistical features of which are outlined below:-

Establishments:- The number of individual establishments reporting in 1928 was 23,379 an increase of 443 from the number reported in 1927. The wood and paper products group shows an increase in the number reporting of 479 followed in order by the textile group with 83, the vegetable products groups with 52, the iron and steel group with 11, chemical products group with 11, the miscellaneous products group with 6 and the non-ferrous metal group with 5, The animal products group shows a decrease of 150, central electric stations of 48 and non metallic minerals of 6.

Capital Investment:- The total capital invested in Canadian manufacturing industries rose from $4,337,631,558 in 1927, to $4,780,296,049 in 1928, an increase during the year of $442,664,491 or 10.20 per cent.

Employment:- The number of persons employed in the manufacturing industries of Canada in 1928 was 658,023, of whom 91,243 were salaried employees, and 566,780 wage-earners. Of the salaried employees 69,858 were males and 21,385 were females and of wage-earners 441,189 were males and 125,591 were females. Compared with 1927 there was an increase in the number of salaried employees of 5,760 and in wage-earners of 33,330.

Salaries and Wages paid:- The total payments for labour and service in 1928 amounted to $755,365,772, of which $174,770,879 was paid for salaries, and $580,594,893 for wages. Compared with 1927 there was an increase in the amount paid for salaries of $12,421,901 and in wages of $49,011,643.

Materials used:- The total cost of all materials, whether in the raw or partly manufactured condition, used in the various processes of manufacture during 1928 was $1,950,804,339. Compared with the preceding year there was an increase in the cost of materials of $161,229,735 or over 9 per cent.

Value of products:- The gross value of manufactured products at the point of production amounted to $3,769,847,364 in 1928, which was an increase of $344,348,824 or 10.05 per cent, when compared with 1927. Of the nine groups, all show increases in value of production ranging from $83,711,160 in the iron and steel group to $6,363,392 in the miscellaneous products group. A comparison by provinces show that increases prevailed in seven of the nine provinces, Ontario leading with $191,719,544, Quebec being next with $82,579,296 and Manitoba third with $17,345,416.

The net value of production or the value added by manufacture, which is obtained by deducting the cost of materials from the gross value of products, was $1,819,043,025 in 1928. This added value represented 48.25 per cent of the gross value in 1928 and 47.76 per cent in 1927 or a variation in added value of 11.2 per cent.

MANUFACTURES OF CANADA

1 9 2 8

Comparative Summary of Recent Manufacturing Statistics

A comparative study of the principal statistics of the manufacturing industries of Canada for the past two years is afforded in Table 1. The years for which these statistics are presented, are the annual censuses of 1927 and 1928 and the increase or decrease by percentages of the principal items is also included in the table.

Table 1. - Principal Statistics compared for 1927 and 1928.

Items		1 9 2 7	1 9 2 8		Increase (+) or decrease (-) p. c. 1928 over 1927.
Establishments	No.	22,936	23,379	+	1.93
Capital invested	$	4,337,631,558	4,780,296,049	+	10.20
Average capital per establishment	$	189,919	204,469	+	7.66
Employees on Salaries	No.	85,483	91,243	+	6.74
Salaries	$	162,348,978	174,770,879	+	7.65
Average salaries	$	1,899	1,915	+	.84
Employees on wages	No.	533,450	566,780	+	6.25
Wages	$	531,583,250	580,594,893	+	9.22
Average wages	$	997	1,024	+	2.71
Cost of materials	$	1,789,574,604	1,950,804,339	+	9.00
Average cost of materials per establishment	$	78,025	83,442	+	6.94
Value of products	$	3,425,498,540	3,769,847,364	+	10.05
Average value of products per establishment	$	149,350	161,249	+	7.97
Value added by manufacture	$	1,635,923,936	1,819,043,025	+	11.19

Table 2. - Summary of the Principal Statistics of the Manufacturing Industries of Canada, 1928 - (a) By Provinces
(b) By Groups of Industries

	No. of Establishments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Gross Value of Products
			Male	Females	Salaries	Male	Female	Wages		
	No.	$	No.	No.	$	No.	No.	$	$	$
(a) By Provinces										
CANADA, Totals.	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,594,893	1,950,804,339	3,769,847,364
Prince Edward Island	277	3,121,568	151	31	185,976	1,121	732	528,969	2,747,292	4,445,160
Nova Scotia	1,167	138,809,331	1,383	395	2,850,760	14,008	3,436	12,987,634	44,168,441	84,948,608
New Brunswick	794	114,660,886	1,313	375	3,130,601	12,656	3,619	11,551,90[illegible]	39,750,561	67,410,742
Quebec	7,231	1,583,350,884	20,109	5,137	49,485,152	131,279	48,434	168,568,72[illegible]	510,580,872	1,073,162,291
Ontario	9,900	2,275,921,056	36,204	12,958	94,376,781	213,754	57,813	296,999,166	1,034,501,240	1,949,724,119
Manitoba	871	159,721,124	3,169	829	7,545,721	17,540	3,628	25,023,502	88,284,693	159,435,094
Saskatchewan	737	44,622,135	1,269	236	2,589,414	4,201	467	5,414,163	34,186,731	59,125,280
Alberta	778	92,190,476	1,810	458	4,020,520	8,915	1,644	11,382,772	59,398,697	100,744,401
British Columbia and Yukon	1,624	367,898,589	4,450	966	10,587,954	37,715	5,810	48,138,049	137,185,812	270,851,669
(b) By Industrial Groups										
CANADA, Totals.	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,594,893	1,950,804,339	3,769,847,364
Vegetable products	4,845	531,918,725	9,035	2,755	22,902,282	48,675	23,299	65,217,060	439,922,128	756,995,585
Animal products	4,542	243,550,121	8,764	2,008	16,892,279	41,627	15,378	45,058,352	351,324,498	485,021,994
Textiles and textile products	1,885	365,721,591	6,517	3,234	19,085,001	41,156	62,817	84,366,324	223,730,616	415,402,464
Wood and paper products	7,290	1,158,651,534	15,351	4,601	40,361,890	126,820	11,233	138,882,808	293,159,913	682,546,865
Iron and its products	1,159	702,931,186	11,488	3,314	30,207,217	101,159	3,238	138,012,821	309,618,074	609,632,999
Non-ferrous metal products	406	253,367,370	5,003	1,749	12,746,626	24,692	4,124	34,749,216	98,746,019	237,966,927
Non-metallic mineral products	1,178	298,693,122	2,996	654	6,983,637	24,251	749	30,152,814	93,683,873	206,082,141
Chemicals and chemical products	572	148,939,920	3,294	1,217	8,579,680	8,826	2,793	11,710,737	74,163,334	146,975,837
Miscellaneous industries	453	119,602,877	2,407	642	6,451,109	14,342	1,960	18,650,099	35,090,248	85,530,097
Central electric stations	1,049	956,919,603	5,003	1,211	10,459,158	9,641	-	13,794,662	31,365,636	143,692,455

Table 3. - Principal Statistics compared by Groups of Industries, 1927 and 1928.

Groups of Industries	Establishments	Capital	Employees on Salaries			Wage-Earners			Cost of Materials	Value of Products
			Male	Female	Salaries	Male	Female	Wages		
	No.	$	No.	No.	$	No.	No.	$	$	$
1928										
Vegetable Products	4,845	531,918,725	9,035	2,755	22,902,282	48,675	23,299	65,217,060	439,922,128	756,995,585
Animal Products	4,542	243,550,121	8,764	2,008	16,892,279	41,627	15,378	45,058,352	351,324,498	485,021,994
Textile and textile Products	1,885	365,721,591	6,517	3,234	19,085,001	41,156	62,817	84,366,324	223,730,616	415,402,464
Wood and Paper Products	7,290	1,158,651,534	15,351	4,601	40,361,890	126,820	11,233	138,882,808	293,159,913	682,546,865
Iron and Steel Products	1,159	702,931,186	11,488	3,314	30,307,217	101,159	3,238	138,012,821	309,618,074	609,632,999
Non-ferrous metal Products	406	253,367,370	5,003	1,749	12,748,626	24,692	4,124	34,749,216	98,746,019	237,966,927
Non-metallic mineral Products	1,178	298,693,122	2,996	654	6,983,637	24,251	749	30,152,814	92,683,873	206,082,141
Chemicals and chemical Products	572	148,939,920	3,294	1,217	8,579,680	8,826	2,793	11,710,737	74,163,334	146,975,837
Miscellaneous Industries	453	119,602,877	2,407	642	6,451,109	14,342	1,960	18,650,099	35,090,248	85,530,097
Central Electric Stations	1,049	956,919,603	5,003	1,211	10,459,158	9,641	-	13,794,662	31,365,636	143,692,455
TOTAL	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,594,893	1,950,804,339	3,769,847,364
1927										
Vegetable Products	4,793	494,176,054	8,456	2,446	21,201,169	46,169	21,229	60,629,565	429,325,105	712,700,080
Animal Products	4,692	233,113,872	9,090	1,930	16,913,119	41,543	15,818	44,493,899	325,455,482	457,716,038
Textiles and textile Products	1,802	346,512,165	5,954	2,857	17,268,057	38,869	59,839	78,623,186	198,870,157	382,007,457
Wood and Paper Products	6,811	1,023,301,749	14,252	4,193	37,260,725	121,657	10,448	130,735,009	271,780,232	629,567,156
Iron and Steel Products	1,148	638,914,893	10,608	3,008	27,822,059	89,629	3,048	115,529,115	261,102,679	525,921,839
Non-ferrous metal Products	401	208,957,166	4,676	1,570	11,584,812	23,262	3,935	32,569,883	87,612,666	200,369,961
Non-metallic mineral Products	1,184	280,033,057	2,971	716	6,815,208	21,977	958	27,143,333	86,312,529	175,746,065
Chemicals and chemical Products	561	134,618,839	2,788	1,054	7,791,994	8,096	2,621	10,864,857	63,630,588	127,484,672
Miscellaneous Industries	447	111,178,478	2,298	607	5,923,025	13,733	1,880	17,816,898	34,699,896	79,166,705
Central Electric Stations	1,097	866,825,285	4,793	1,216	9,768,810	8,699	-	13,177,505	30,785,270	134,818,567
TOTAL	22,936	4,337,631,558	65,886	19,597	162,348,978	413,634	119,816	531,583,250	1,789,574,604	3,425,498,540

CONSUMPTION OF MANUFACTURED PRODUCTS, 1928.

The consumption of manufactured products is made possible by the placing of the classification of external trade and production on a common basis. Table 5 gives the value of goods manufactured in Canada (Col. 1) which added to the value imported for consumption (Col. 2) less the exports of manufactured and partly manufactured goods (Col. 3) leaves the value of manufactured products available for consumption (Col. 4). In 1928 Iron and Steel products were first in value of goods made available for consumption with Vegetable products and textiles in second and third position. The total for all groups available for consumption amounted to $4,063,453,833 in 1928 as compared with $3,605,668,962 in 1927 $3,343,397,137 in 1926 and $2,927,553,393 in 1925. It should be observed that considerable duplication occurs in the value of manufactured products where several processes are performed upon a commodity before it is ready for ultimate use.

Table 4. - Consumption of Manufactured Products in Canada, for the calendar year 1928.

	Value of Manufactured goods	Manufactured and Partly Manufactured Goods		Value of Products available for consumption
		Imports	Exports	
	$	$	$	$
Vegetable Products	756,995,585	137,943,685	136,616,141	758,323,129
Animal Products	485,021,994	37,263,368	77,042,629	445,242,733
Textile Products	415,402,464	158,707,822	5,129,533	568,980,753
Wood and Paper Products	682,546,865	57,463,697	246,920,655	475,089,907
Iron and Its Products	609,632,999	342,224,541	77,965,738	873,891,802
Non-Ferrous Metal Products	237,966,927	69,452,287	79,135,719	228,283,495
Non-Metallic Mineral Products	206,082,141	65,924,612	7,552,756	264,453,997
Chemical and Allied Products	146,975,837	37,723,046	19,053,259	165,645,624
Miscellaneous Industries	85,530,097	68,411,117	10,233,561	143,707,653
Central Electric Stations	143,692,455	80,467	3,938,182	139,834,740
TOTAL	3,769,847,364	975,194,642	681,588,173	4,063,453,833

Note - Value of manufactured goods are for the calendar year 1928. Imports and exports of manufactured and partly manufactured goods are for the fiscal year ended March 31, 1929

Table 5. - Index Numbers of Employment in the Manufacturing Groups of Industries by Months for the Calendar Years, 1923, 1924, 1925, 1926, 1927 and 1928.

Months	1923	1924	1925	1926	1927	1928
January	84.5	86.7	81.7	90.0	94.7	97.9
February	92.0	91.9	85.8	93.0	98.2	102.3
March	94.7	93.1	88.6	94.9	99.8	104.7
April	92.6	93.6	91.2	96.6	101.5	106.6
May	97.9	94.9	93.7	98.8	103.9	109.0
June	101.2	95.7	95.6	101.6	106.9	112.6
July	101.3	94.9	96.4	103.1	106.8	113.1
August	101.2	93.3	95.8	103.6	107.0	115.2
September	100.7	91.5	96.8	104.8	106.8	115.9
October	99.4	92.7	98.8	104.6	106.4	115.7
November	98.7	91.3	96.5	102.7	104.9	115.1
December	95.5	88.7	95.3	101.5	104.3	112.9

Table 6 - PRINCIPAL STATISTICS OF THE FORTY LEADING INDUSTRIES OF CANADA, 1928.

	Number of Establishments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Gross Value of Products
			Male	Female	Salaries	Male	Female	Wages		
	No.	$	No.	No.	$	No.	No.	$	$	$
1. Pulp and Paper	110	685,687,459	2,962	545	8,713,671	29,253	854	38,606,977	88,490,421	233,077,236
2. Flour and grist mill products	1,319	63,514,575	910	211	2,157,277	5,292	143	5,449,397	165,032,821	195,698,124
3. Slaughtering and meat packing	75	66,198,507	2,200	477	4,898,201	7,787	780	9,344,161	142,396,342	174,096,419
4. Automobiles	14	97,056,328	1,740	696	5,255,897	14,075	238	24,292,217	114,892,190	162,867,495
5. Central electric stations	1,049	956,919,603	5,003	1,211	10,459,158	9,641	-	13,794,662	31,365,636	143,692,455
6. Sawmills	2,967	175,729,448	1,665	233	4,017,039	42,888	76	30,704,481	80,451,801	139,424,754
7. Butter and cheese	2,804	45,129,830	3,519	594	4,514,041	(1)7,077	221	7,241,506	99,202,776	130,212,308
8. Rubber goods, including footwear	45	70,459,066	1,649	496	3,602,753	10,769	4,181	15,340,977	45,118,570	97,208,713
9. Non-ferrous metal smelting	10	120,035,742	612	73	1,635,580	6,804	37	10,593,158	33,260,225	94,341,702
10. Electrical apparatus and supplies	137	87,952,674	3,125	1,218	7,797,539	10,892	2,958	14,958,670	38,784,421	93,672,452
11. Petroleum products	25	56,531,614	412	62	1,169,042	3,820	25	5,753,538	57,383,841	83,122,172
12. Castings and forgings	327	95,326,911	1,803	527	4,827,047	18,124	328	21,931,969	31,530,148	81,904,852
13. Cotton yarn and cloth	38	90,960,011	593	127	1,749,021	12,139	8,756	15,939,770	44,704,779	79,219,582
14. Railway rolling stock	35	89,053,842	1,391	92	3,221,133	20,891	43	29,231,648	38,110,053	73,422,057
15. Bread and other bakery products	2,482	44,377,449	659	322	1,518,595	12,495	1,946	15,382,643	36,151,747	71,227,097
16. Printing and pyblishing	753	60,822,600	4,561	1,647	10,408,930	8,421	1,484	13,834,976	15,696,759	67,879,806
17. Clothing, women's factory	444	25,557,610	1,083	748	3,626,651	3,961	10,559	13,059,243	36,233,645	63,326,501
18. Steel and rolled products, pig iron, ferre alloys, etc.	40	114,292,363	522	92	1,542,727	8,419	24	13,928,109	27,164,463	62,071,674
19. Cigars and cigarettes	79	37,243,547	1,051	296	2,530,477	1,966	3,331	3,667,441	18,469,843	61,077,732
20. Breweries	78	67,148,686	835	118	2,295,187	4,014	36	4,785,574	20,737,486	60,910,398
21. Biscuits, confectionery, chocolate, chewing gum, etc.	283	52,353,082	1,810	697	4,571,812	4,554	6,213	7,962,817	28,480,230	60,404,223
22. Hosiery, knit goods and gloves	165	60,399,926	756	455	2,577,904	5,165	11,598	12,478,792	31,251,936	58,551,758
23. Planing mills, sash and door factories	788	53,431,576	1,099	248	2,472,706	10,674	110	10,858,123	30,021,888	52,700,315
24. Sugar refineries	8	48,625,818	239	60	922,969	1,979	103	2,748,117	40,551,874	52,085,155
25. Machinery	161	69,404,536	1,719	542	4,410,340	8,328	266	10,527,756	18,976,526	51,046,140
26. Boots and shoes, leather	199	31,433,028	1,002	368	2,713,166	8,563	5,572	12,269,442	26,383,043	50,018,802
27. Sheet metal products	145	45,346,299	939	309	2,338,525	6,668	816	8,298,451	24,660,978	49,846,671
28. Clothing, men's factory	218	27,263,996	1,039	405	2,743,206	4,729	5,706	10,342,342	24,567,328	48,477,178
29. Acids, alkalies, salts and compressed gases	41	44,250,661	498	105	1,162,275	2,330	10	2,981,027	23,404,991	42,336,846
30. Furniture and upholstering	366	39,829,474	862	346	2,607,611	10,810	521	11,081,733	16,312,469	41,825,534

Table 6 - PRINCIPAL STATISTICS OF THE FORTY LEADING INDUSTRIES OF CANADA, 1928. Con.

	Number of Establishments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Gross Value of Products
			Male	Female	Salaries	Male	Female	Wages		
	No.	$	No.	No.	$	No.	No.	$	$	$
31. Agricultural implements and machinery	66	9,142,820	1,253	406	2,935,250	9,108	100	10,664,703	17,607,861	41,199,841
32. Printing and bookbinding	912	38,755,308	1,488	545	4,137,651	7,232	2,529	11,554,482	13,321,821	41,018,466
33. Distilleries	18	51,287,103	249	64	771,765	1,259	312	1,788,694	10,137,114	38,423,743
34. Fish curing and packing	713	26,941,283	577	53	853,800	9,053	5,751	4,407,296	20,578,767	36,267,732
35. Leather tanneries	91	31,259,692	240	52	796,868	3,561	99	3,690,060	26,253,779	35,202,080
36. Coke and gas products	45	92,145,190	653	230	1,304,534	3,024	7	4,304,245	17,164,246	34,708,447
37. Furnishing goods, men's	159	21,064,504	559	275	1,398,478	1,217	7,858	5,872,397	17,321,124	30,314,552
38. Brass and copper products	97	23,576,863	762	193	1,704,425	4,067	415	5,092,991	15,716,748	28,457,430
39. Paints and varnishes	68	22,256,008	774	224	2,076,138	1,645	238	1,891,157	14,489,934	27,868,046
40. Coffee, spices, etc.	61	14,599,825	435	137	1,247,041	671	425	1,044,002	21,257,199	27,201,292
Total, forty leading industries	17,435	3,937,364,857	53,248	15,499	129,686,330	343,365	84,669	447,701,744	1,603,637,823	3,016,407,780
Total, all industries	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,594,893	1,950,804,339	3,769,847,364
Percentage of forty leading Industries to all Industries	74.57	82.36	76.22	72.47	74.20	77.83	67.42	77.11	82.20	80.00

(1) Includes "Salaried Employees" for the Province of Quebec.