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REPORT ON THE MANUFACTURING INDUSTRIES OF CANADA

CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

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Dominion Statistician: R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.
Chief, Census of Industry: J. C. Macpherson

Advance Report

MANUFACTURES OF CANADA, 1928.

Ottawa, June, 1930. A 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 $755,199,372, of which $174,770,879 was paid for salaries, and $580,428,493 for wages. Compared with 1927 there was an increase in the amount paid for salaries of $12,421,901 and in wages of $43,845,243.

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 $3,769,850,364 in 1928, which was an increase of $344,351,824 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 $17,745,416.

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 $1,819,046,025 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

1928

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 increases or decreases by percentages of the principal items is also included in the table.

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

Items		1927	1928	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	580,428,493	+ 9.19
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	3,769,850,364	+ 10.05
Average value of products per establishment	$	149,350	161,249	+ 7.97
Value added by manufacture	$	1,635,923,936	1,819,046,025	+ 11.19

Table 2 presents the principal statistics of the manufacturing industries of Canada for the calendar year 1928, by provinces and by groups of industries classified according to chief component materials. The province of Ontario ranks first in production with 51.32 per cent of the total for the Dominion, Quebec being second with 28.92 per cent, whilst the remaining provinces follow in the order named;- British Columbia 7.19 per cent, Manitoba 4.15 per cent, Alberta 2.48 per cent, New Brunswick 2.15 per cent, Nova Scotia 2.12 per cent, Saskatchewan 1.52 per cent and P. E. Island .13 per cent.

In the industrial group classification first place is taken by the Vegetable products group having 20.80 per cent of the total of all groups. The wood and paper group is second with 18.38 per cent, iron and steel products third with 15.35 per cent, animal products fourth with 13.36 per cent, textile products fifth with 11.15 per cent followed in order by the non-ferrous metal group with 5.85 per cent, the non-metallic mineral group with 5.13 per cent, the central electric station group with 3.94 per cent, the chemical products group with 3.72 per cent, and the miscellaneous group last with 2.31 per cent.

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	580,428,493	1,950,804,339	3,769,850,364
Prince Edward Island	277	3,121,568	151	31	183,976	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	11,551,909	39,750,561	67,413,742
Quebec	7,231	1,583,350,884	20,109	5,137	49,485,152	131,279	46,434	168,402,329	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	1,949,724,11
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	5,818	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	580,428,493	1,950,804,339	3,769,850,364
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	4,602	40,361,890	126,820	11,233	138,882,808	293,159,013	682,549,865
Iron and its 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	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	-	13,628,262	31,365,636	143,692,455

Table 3 presents a classification of the principal statistics of the Manufacturing Industries of Canada according to origin. Products of Farm origin in 1928 were valued at $1,396,551,078 and represented 37 per cent of the total of all production. Of the above total value of products of Farm origin, $1,087,957,276 was of Canadian origin and $308,593,802 of Foreign origin. The principal items of Canadian farm origin were:- Flour and Cereals ($195,698,124), Meats, etc. ($174,096,419), Butter and Cheese ($130,212,308), Bread, biscuits and confectionery ($131,631,320), Tobacco, cigars, etc. ($76,827,357) and Boots and Shoes of leather ($50,018,802), whilst those of Foreign origin were Cotton goods ($79,219,582), Sugar ($52,085,155), Rubber goods ($97,208,713) and Coffee and spices ($27,201,292).

Next to the products of Farm origin were those of Mineral origin totalling $1,194,975,729 and comprising Iron and Steel products ($609,632,999), Non-metallic minerals ($206,082,141), Non-ferrous metals ($237,966,927) and Chemical products ($129,751,486).

Products of Forest origin occupied third place with a total value of $679,373,546 and comprised Pulp and paper ($233,077,236), Saw-mill products ($139,424,754), Printing and publishing ($67,879,806), Planing mill products ($52,700,315), Printing and Bookbinding ($41,018,466) and Furniture ($41,825,534).

Products of the farm, the mine and the forest together show a production of $3,270,897,353 or over 86 per cent of the total of all manufacturing production in 1928 amounting to $3,769,850,364.

Table 3.- PRINCIPAL STATISTICS OF THE MANUFACTURING INDUSTRIES OF CANADA, CLASSIFIED ACCORDING TO THE ORIGIN OF THE MATERIALS USED, 1928.

	No. of Establishments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Value of Products
			Male	Female	Salaries	Male	Female	Wages		
	No.	$	No.	No.	$	No.	No.	$	$	$
TOTAL	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,428,493	1,950,804,339	3,769,850,364
1. Farm Origin										
(a) From field crops	5,035	654,648,894	10,074	3,047	25,998,087	62,942	34,439	84,962,409	513,481,501	877,012,440
Canadian origin	4,740	398,072,152	6,704	2,057	17,100,167	35,384	18,698	46,184,912	331,757,735	579,315,911
Foreign origin	295	256,576,742	3,370	990	8,897,920	27,558	15,741	38,777,497	181,723,766	297,696,529
(b) From Animal husbandry	3,946	296,631,572	9,554	2,398	19,697,803	40,952	19,688	56,510,403	365,750,609	519,530,638
Canadian origin	3,930	270,471,869	9,311	2,302	19,077,088	39,437	17,607	53,689,569	361,111,892	508,641,365
Foreign origin	16	26,159,703	243	96	620,715	1,513	2,081	2,820,834	4,638,717	10,897,273
(c) Total Farm origin	8,981	951,280,466	19,628	5,445	45,695,890	103,894	53,127	141,472,812	879,232,110	1,396,551,078
Canadian origin	8,670	668,544,021	16,015	4,359	36,177,255	74,823	36,305	99,874,481	692,869,627	1,087,957,276
Foreign origin	311	282,736,445	3,613	1,086	9,518,635	29,071	17,822	41,598,331	186,362,483	308,593,802
2. Wild Life Origin	237	14,934,287	448	195	1,258,079	1,640	1,327	3,434,426	14,127,017	23,277,365
3. Marine Origin	713	26,941,283	577	53	853,800	9,053	5,751	4,407,296	20,578,767	36,267,732
4. Forest Origin	7,241	1,155,561,945	15,234	4,556	40,089,026	126,245	11,118	138,062,040	292,149,341	679,373,546
5. Mineral Origin	3,256	1,411,098,815	22,455	6,705	57,600,068	159,207	10,309	214,744,978	574,473,014	1,194,975,729
6. Mixed Origin	1,902	263,559,650	6,513	3,220	18,814,858	31,309	42,959	64,678,679	138,878,454	295,712,459
7. Central Electric Stations	1,049	956,919,603	5,003	1,211	10,459,158	9,641	-	13,628,262	31,365,636	143,692,455

Another presentation of the classification of manufactured goods based on the purpose of the chief product for the calendar year 1928 is given in Table 4.

Ranked in order of the value of gross production, producers' materials stand first with a total value of $1,080,948,395 or 28.67 per cent, followed by the food group with a total of $832,600,712 or 22.09 per cent, the industrial equipment group third, with a total of $664,116,358 or 17.20 per cent and the clothing group fourth, with a total of $359,609,705 or 9.5 per cent.

An analysis of the relative standing of the two purpose groups of more general interest is here presented. The food group of industries has a gross production of 23.44 per cent of the output of all Canadian manufacturing concerns as compared with 9.5 per cent for the clothing group. It will be noted that the much greater production in the food group was in part due to the higher cost of raw materials in that group as compared with the cost of such materials in the clothing group, the value added by the processes of manufacture being 27 per cent of the total value of all industries in the food group as compared with a percentage of 50.73 for the clothing group. The clothing group maintains a larger payroll than the food group despite the fact that a smaller output was recorded than for the food group, the anomaly being explained by the greater prevalence of female labour in the clothing group. The total amount of the payroll including outside pieceworkers in each of the two groups to the total of all groups of industries was 11.77 per cent for the food group and 13.18 per cent for the clothing group.

Table 4.- Principal Statistics of the Manufacturing Industries of Canada, classified according to the Purpose of the Principal Products, for the calendar year 1928.

	No. of Establishments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Value of Products
			Male	Female	Salaries	Male	Female	Wages		
	No.	$	No.	No.	$	No.	No.	$	$	$
TOTAL	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,428,493	1,950,804,339	3,769,850,364
Food	8,212	440,873,879	11,498	2,941	23,498,192	54,688	21,246	60,598,069	605,692,720	832,600,712
Clothing	2,062	242,010,963	6,980	3,574	19,443,043	36,689	56,765	78,626,706	179,344,512	359,609,705
Drink and tobacco	596	183,028,239	2,822	595	7,405,625	9,565	4,824	13,086,960	62,541,589	190,513,874
Personal Utilities	390	54,569,674	1,460	670	3,776,702	6,938	2,226	9,213,740	26,245,820	56,527,435
House Furnishings	598	72,394,155	1,697	618	5,134,333	15,428	2,064	16,677,525	31,753,455	73,350,506
Books and Stationery	1,893	131,944,080	7,224	2,753	18,290,484	19,994	6,185	33,612,003	43,090,386	143,939,221
Vehicles and Vessels	859	296,174,301	5,174	1,250	13,083,557	49,885	1,713	72,184,657	200,180,697	336,396,291
Producers' Materials	6,001	1,729,056,251	15,011	3,339	40,540,782	170,732	21,153	195,276,181	504,241,541	1,080,948,395
Industrial Equipment	2,601	1,595,402,231	17,271	5,357	41,776,266	74,663	6,356	97,917,279	280,923,071	664,116,358
Miscellaneous	167	34,762,276	721	288	1,821,895	2,607	1,059	3,235,373	16,790,548	31,847,867

Table 5. 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	1,805	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	682,549,865
Iron and Steel Products	1,159	702,931,186	11,488	3,214	30,307,217	101,159	3,238	138,012,821	309,636,074	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	93,683,873	206,082,141
Chemicals and chemical Products	572	148,939,920	3,294	1,217	8,572,680	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	-	13,628,262	31,365,636	143,692,455
T O T A L	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,428,493	1,950,804,339	3,769,850,364
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	998	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	127,464,672
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	30,705,270	134,818,567
T O T A L	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 6 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 $4,022,000,585 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 6.- 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	154,054,047	740,885,223
Animal Products	485,021,994	37,263,368	77,556,899	444,728,463
Textile Products	415,402,464	158,707,822	8,615,447	565,494,839
Wood and Paper Products	682,549,865	57,463,697	265,590,713	474,422,849
Iron and Its Products	609,632,999	342,224,541	86,520,116	865,337,424
Non-Ferrous Metal Products	237,966,927	69,452,287	80,509,143	226,910,071
Non-Metallic Mineral Products	206,082,141	65,924,612	8,016,304	263,990,449
Chemical and Allied Products	146,975,837	37,723,046	19,822,869	164,876,014
Miscellaneous Industries	85,530,097	68,411,117	18,417,701	135,523,513
Central Electric Stations	143,692,455	80,467	3,938,182	139,834,740
T O T A L	3,769,850,364	975,194,642	723,041,421	4,022,003,585

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.

The statistics of the forty leading industries of the Dominion are presented in Table 7. The pulp and paper industry now leads all others by the considerable margin of $37,379,112, followed in order by the flourmilling and meatpacking industries. These forty industries employ 62.36 per cent of all capital used in the manufacturing industries of the Dominion and produce 60. per cent of the gross value of all goods made.

TABLE 7.- PRINCIPAL STATISTICS OF THE FORTY LEADING INDUSTRIES OF CANADA, 1928.

	No. 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	38,608,977	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	165,032,621	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	-	13,628,262	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	32,530,148	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 publishing	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, ferro-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	58,551,750
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 7.- PRINCIPAL STATISTICS OF THE FORTY LEADING INDUSTRIES OF CANADA, 1928. Con.

	No. of Establishments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Value of Products
			Male	Female	Salaries	Male	Female	Wages		
	No.	$	No.	No.	$	No.	No.	$	$	$
31. Agricultural implements and machinery	66	91,142,820	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	796,768	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	24,256,008	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	447,535,344	1,603,637,823	3,016,407,780 (1)
Total, all industries	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,428,493	1,950,804,339	3,769,850,364
Percentage of forty leading industries to all industries	74.57	82.36	76.22	72.47	74.20	77.83	67.42	77.10	82.20	80.00

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

Table 8 presents statistics of capital investment in the manufacturing industries of Canada by provinces and by industrial groups for the calendar year 1928. The increase in the total tapital investment over 1927 amounted to $442,664,491 made up of $276,053,662 fixed capital and $166,610,829 working capital. The average capital invested in each establishment advanced from $149,294 in 1923 to $159,564, in 1924 to $170,538 in 1925, to $175,338 in 1926, to $189,119 in 1927 and to $204,469 in 1928, or an increase per plant of $10,270 or 6.9 per cent in the 1923-24 period, an increase of $10,975 or 6.9 per cent in the 1924-25 period, an increase of $4,800 in the 1925-26 period or 2.8 per cent, an increase of $13,781 in the 1926-27 period or 7.86 per cent and an increase of $15,350 in the 1927-28 period or 8.12 per cent. The increase in capital is indicative of continued improvement in manufacturing conditions throughout the Dominion.

Table 8.- Distribution of Capital by Provinces and Groups of Industries, 1928.

Provinces and Groups	Number of Establishments	Land, buildings fixtures, machinery and tools	Materials on hand, Stocks in process, finished products, etc.	Cash trading and operating accounts and bills receivable	Total Capital
	No.	$	$	$	$
PROVINCES					
Prince Edward Island	277	2,190,250	503,978	427,340	3,121,568
Nova Scotia	1,167	99,004,155	18,508,073	21,297,103	138,809,331
New Brunswick	794	74,272,694	21,201,866	19,186,326	114,660,886
Quebec	7,231	1,089,987,730	262,407,699	230,955,455	1,583,350,884
Ontario	9,900	1,413,704,065	430,188,189	432,028,802	2,275,921,056
Manitoba	871	112,289,985	25,229,009	22,202,130	159,721,124
Saskatchewan	737	29,965,089	8,894,731	5,762,315	44,622,135
Alberta	778	63,971,445	16,527,881	11,691,150	92,190,476
British Columbia and Yukon	1,624	257,034,448	53,518,993	57,345,148	367,898,589
T O T A L	23,379	3,142,419,861	836,980,419	800,895,769	4,780,296,049
GROUPS					
Vegetable Products	4,845	287,696,962	139,177,003	105,044,760	531,918,725
Animal Products	4,542	119,286,669	74,215,651	50,047,801	243,550,121
Textiles and textile products	1,885	181,875,194	98,425,504	85,420,893	365,721,591
Wood and paper products	7,290	777,940,694	202,473,962	178,236,878	1,158,651,534
Iron and Its products	1,159	379,937,969	155,343,328	167,649,889	702,931,186
Non-ferrous metal products	406	131,348,234	56,568,854	65,450,282	253,367,370
Non-metallic mineral products	1,178	215,035,996	46,659,899	36,997,227	298,693,122
Chemicals and allied products	572	85,784,820	29,820,374	33,334,726	148,939,920
Miscellaneous Industries	453	61,942,805	23,723,270	33,936,802	119,602,877
Central Electric Stations	1,049	901,570,518	10,572,574	44,776,511	956,919,603

EMPLOYMENT STATISTICS

The number of persons employed in the manufacturing industries of Canada in 1928 exclusive of outside piece-workers was 658,023 as compared with 618,933 in 1927, 581,539 in 1926, 544,225 in 1925, 508,503 in 1924, 525,267 in 1923, 462,573 in 1922 and 439,889 in 1921. Of those employed in 1928 the number on salaries totalled 91,243 of which 69,858 were males and 21,385 females, whilst those employed on wages numbered 566,780 of whom 441,189 were males and 125,591 females. The figures relating to wage-earners are averages for the year and are ascertained by dividing the total number employed by months during the year by twelve.

The average number of employees per establishment which had risen from 21 in 1922 to 23.2 in 1923 fell in 1924 to 22.9 but rose again in 1925 to 24.4, in 1926 to 25.6, in 1927 to 27 and to 28.1 in 1928, whilst the average payment in salaries and wages per establishment rose from $22,645 in 1922 to $25,240 in 1923, to $25,245 in 1924, to $26,690 in 1925, to $28,815 in 1926, to $30,255 in 1927 and to $32,302 in 1928. The average salary per employee advanced from $1,791.28 in 1922 to $1,823.60 in 1923, to $1,831.49 in 1924, to $1,843 in 1925, to $1,867 in 1926, to $1,899.20 in 1927 and to $1,915.45 in 1928, whilst the average wage per employee rose from $939.31 in 1922 to $959.14 in 1923 and to $972.23 in 1924 but fell to $971 in 1925, rose again to $1,003 in 1926, but fell in 1927 to $996.50 and rose again in 1928 to $1,024.08. The total amount paid for services in 1928 was $755,199,372 of which $174,770,879 represented salaries and $580,428,493 represented wages.

Pieceworkers employed outside the establishment in 1928 totalled 3,021 of whom 403 were males and 2,618 were females, whilst the total payments to such out-workers amounted to $456,766. In Table 9 below the statistics of employment are shown by provinces and by groups of industries. The province of Ontario furnished 48.7 per cent of the number employed and paid 51.8 per cent of the total cost of salaries and wages. Quebec is second with 31.1 per cent of the number employed and 28 per cent of the cost of salaries and wages. Of the industrial groups, wood and paper furnished employment to the highest number having 24 per cent of the total, followed in order by the iron and steel group with 18.1 per cent and the textile group with 17.3 per cent.

Table 9.- Employees, Salaries and Wages, 1928.

(a) Provinces	Employees on Salaries		Salaries		Employees on Wages		Wages	
	Male	Female	Total	Average	Male	Female	Total	Average
	No.	No.	$	$ ¢	No.	No.	$	$ ¢
Prince Edward Island	151	31	183,976	1,010.86	1,121	732	528,969	285.47
Nova Scotia	1,383	395	2,850,760	1,603.35	14,008	3,436	12,987,634	744.53
New Brunswick	1,313	375	3,130,601	1,854.62	12,656	3,619	11,551,909	709.79
Quebec	20,109	5,137	49,485,152	1,960.12	131,279	48,434	168,402,329	937.06
Ontario	36,204	12,958	94,376,781	1,919.71	213,754	57,813	296,999,166	1,093.65
Manitoba	3,169	829	7,545,721	1,887.38	17,540	3,628	25,023,502	1,182.14
Saskatchewan	1,269	236	2,589,414	1,720.54	4,201	467	5,414,163	1,159.85
Alberta	1,810	458	4,020,520	1,755.08	8,915	1,644	11,382,772	1,078.01
British Columbia and Yukon	4,450	966	10,587,954	1,954.94	37,715	5,818	48,138,049	1,105.78
CANADA, TOTALS	69,858	21,385	174,770,879	1,915.45	441,189	125,591	580,428,493	1,024.08

Table 10.- EMPLOYEES, SALARIES AND WAGES, 1928 - Cont'd.

(b) Groups of Industries	Employees on Salaries		Total Salaries	Employees on Wages		Total Wages
	Male	Female		Male	Female	
	No.	No.	$	No.	No.	$
Vegetable products	9,035	2,755	22,902,282	48,675	23,299	65,217,060
Animal products	8,764	2,008	16,892,279	41,627	15,378	45,058,352
Textiles and textile products	6,517	3,234	19,085,001	41,156	62,817	84,366,324
Wood and paper products	15,351	4,601	40,361,890	126,820	11,233	138,882,808
Iron and its products	11,488	3,314	30,307,217	101,159	3,238	138,012,821
Non-ferrous metal products	5,003	1,749	12,748,626	24,692	4,124	34,749,216
Non-metallic mineral products	2,996	654	6,983,637	24,251	749	30,152,814
Chemicals and allied products	3,294	1,217	8,579,680	8,826	2,793	11,710,737
Miscellaneous industries	2,407	642	6,451,109	14,342	1,960	18,650,099
Central Electric Stations	5,003	1,211	10,459,158	9,641	-	13,628,262
T O T A L	69,858	21,385	174,770,879	441,189	125,591	580,428,493

Another view of the trend of employment is afforded by comparing the index numbers of employment in the manufacturing groups of industries by months for the calendar years 1922, 1923, 1924, 1925, 1926, 1927 and 1928 as presented in Table 11.

Table 11.- Index Numbers of Employment in the Manufacturing Groups of Industries by Months for the calendar years 1922, 1923, 1924, 1925, 1926, 1927 and 1928.

Months	1922	1923	1924	1925	1926	1927	1928
January	74.4	84.5	86.7	81.7	90.0	94.7	97.9
February	79.0	92.0	91.9	85.8	93.0	98.2	102.3
March	84.5	94.7	93.1	88.6	94.9	99.8	104.7
April	84.4	92.6	93.6	91.2	96.6	101.5	106.6
May	85.5	97.9	94.9	93.7	98.8	103.9	109.0
June	91.1	101.2	95.7	95.6	101.6	106.9	112.6
July	91.1	101.3	94.9	96.4	103.1	106.8	113.1
August	92.9	101.2	93.3	95.8	103.6	107.0	115.2
September	93.6	100.7	91.5	96.8	104.8	106.8	115.9
October	93.8	99.4	92.7	98.8	104.6	106.4	115.7
November	94.9	98.7	91.3	96.5	102.7	104.9	115.1
December	94.9	95.5	88.7	95.3	101.5	104.3	112.9

Table 12.- WAGE-EARNERS BY MONTHS FOR SELECTED INDUSTRIES OF CANADA, 1927 and 1928.

Industry	Year	Average Number of Employees during the year.	January	February	March	April	May	June	July	August	September	October	November	December
Flour and grist mill products	1927	5,259	5,088	5,031	4,964	4,849	4,817	4,733	4,694	4,760	5,129	5,450	5,629	5,501
	1928	5,435	5,306	5,262	5,242	5,057	5,073	4,906	4,853	5,071	5,327	5,636	5,700	5,595
Slaughtering and Meat Packing	1927	8,195	8,094	7,764	7,613	7,607	7,700	7,848	8,116	8,316	8,462	8,733	9,200	8,818
	1928	8,567	8,183	8,065	7,978	7,979	8,054	8,491	8,666	8,801	8,718	8,966	9,033	8,795
Cotton Yarn and Cloth	1927	20,754	20,129	21,397	21,451	20,513	20,589	20,691	20,040	19,873	19,126	20,883	21,289	21,528
	1928	20,895	20,892	20,954	20,460	20,241	20,517	20,309	20,077	20,445	20,558	21,228	21,775	21,950
Steel and rolled products, pig iron, ferro-alloys, etc.	1927	6,867	6,322	6,577	7,596	7,642	7,494	7,136	6,576	6,894	6,205	6,174	6,436	6,420
	1928	8,443	7,228	7,903	8,247	8,635	8,715	8,596	8,272	8,072	8,130	8,735	9,361	9,376
Leather, tanned, curried and finished	1927	3,832	3,740	3,750	3,763	3,693	3,635	3,583	4,616	3,692	3,769	3,860	3,906	3,976
	1928	3,660	3,888	3,898	3,878	3,720	3,660	3,550	3,507	3,516	3,532	3,582	3,481	3,374
Rubber goods (including footwear)	1927	13,165	12,038	12,216	12,434	12,886	13,088	13,284	13,388	13,427	13,494	13,655	13,572	13,460
	1928	14,950	12,948	13,067	13,203	13,534	14,030	14,291	13,711	15,712	16,135	16,589	16,727	16,350
Pulp and Paper	1927	29,008	27,924	28,272	28,500	28,375	29,264	30,616	30,507	30,168	29,983	28,927	28,147	27,418
	1928	30,107	27,660	28,838	28,518	28,724	29,937	30,776	31,324	31,119	30,618	30,455	30,205	28,837
Petroleum Products	1927	3,331	3,068	3,148	3,351	3,376	3,439	3,551	3,555	3,303	3,284	3,321	3,261	3,234
	1928	3,845	3,438	3,650	3,755	3,833	3,764	3,765	3,882	4,023	4,135	4,066	4,022	3,786
Glass	1927	2,833	2,716	2,990	2,994	2,614	2,747	2,949	2,975	2,637	2,577	2,792	2,942	2,833
	1928	2,932	2,794	2,858	2,764	2,758	2,908	2,934	2,889	2,966	2,965	3,013	3,174	3,132
Non-Ferrous Metal Smelting	1927	6,835	7,487	7,312	6,921	6,699	6,668	6,875	6,586	6,669	6,783	6,665	6,614	6,737
	1928	6,841	6,217	6,318	6,681	6,507	6,834	7,010	6,903	6,923	6,958	6,884	6,883	6,842
Furniture and upholstering	1927	9,961	9,399	9,712	9,897	9,871	9,864	9,834	9,736	9,825	10,091	10,328	10,493	10,461
	1928	11,331	10,536	10,781	10,930	11,080	11,091	11,254	11,116	11,180	11,488	11,835	11,949	11,957
Musical Instruments and materials	1927	2,852	2,767	2,738	2,677	2,761	2,700	2,703	2,701	2,845	3,047	3,081	3,148	3,051
	1928	2,641	2,523	2,557	2,411	2,402	2,395	2,406	2,487	2,609	2,778	3,005	3,045	2,933
Automobiles	1927	8,943	9,777	10,737	11,169	11,798	10,687	8,699	8,211	7,909	8,002	7,502	6,530	6,296
	1928	14,313	7,803	9,853	12,617	14,999	17,069	17,215	18,047	18,885	17,673	14,710	11,436	11,494
Boots and shoes, leather	1927	14,092	13,523	14,159	14,155	13,803	13,789	13,636	13,815	14,168	14,208	14,428	13,902	13,919
	1928	14,135	13,056	13,727	14,046	13,735	13,572	13,939	14,228	14,346	14,517	14,545	14,192	13,873

Single underscore indicates minimum months.

Double underscore indicates maximum months.

A classification of industries based on chief component material is presented in Table 13 for the nine main groups into which all industry has been divided. Each group is further divided into the industries which from their use of common raw materials fall into certain well defined classes. The principle of classification by chief component materials cannot, however, be applied to modern industry with absolute precision owing to the highly complex organization of present day industry.

The table presents the principal statistics of each industry within the groups in such manner that further explanation is unnecessary.

Table 13.- Classification of Industry by Chief Component Material, 1928.

Name of Industry	Establishments No.	Capital $	Salaried Employees			Wage-Earners			Cost of Materials $	Value of Products	
			Males No.	Females No.	Salaries $	Males No.	Females No.	Wages $		Gross $	Net $
CANADA	23,379	4,780,296,049	69,858	21,385	174,770,879	441,189	125,591	580,428,493	1,950,804,339	3,769,850,364	1,819,043,025
1. 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	317,073,457
Biscuits, confectionery cocoa and chocolate	283	52,353,082	1,810	697	4,571,812	4,554	6,213	7,962,817	28,480,230	60,404,223	31,923,993
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	35,075,350
Breweries	78	67,148,686	835	118	2,295,187	4,014	36	4,785,574	20,737,486	60,910,398	40,172,912
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	42,607,889
Coffee and spices	61	14,599,825	435	137	1,247,041	671	425	1,044,002	21,257,199	27,201,292	5,944,093
Distilleries	18	51,287,103	249	64	771,765	1,259	312	1,788,694	10,137,114	38,423,743	28,286,629
Feed and grist mills	896	5,947,496	21	11	45,657	1,238	1	815,602	20,164,304	23,626,329	3,462,025
Flour mills	423	57,567,079	889	200	2,111,620	4,054	142	4,633,795	144,868,517	172,071,795	27,203,278
Fruit and vegetable canning, evaporating, etc.	216	27,920,624	375	124	805,551	2,396	4,555	2,559,380	15,144,100	24,890,429	9,746,329
Ice cream cones	10	582,128	8	2	24,859	60	30	69,724	136,291	517,434	381,143
Linseed oil and oil cake	8	2,394,331	32	5	90,267	197	1	232,504	5,514,568	6,281,055	766,487
Macaroni and vermicelli	11	1,250,832	49	14	89,120	130	106	157,301	902,958	1,476,171	573,213
Malt mills	6	6,533,330	53	7	122,060	167	-	251,478	3,972,005	5,517,359	1,545,354
Maple syrup and sugar	6	412,566	15	3	49,496	30	2	30,397	815,560	1,000,787	185,227
Miscellaneous food industries	56	9,650,907	191	76	509,960	513	287	845,661	5,766,863	11,677,086	5,910,223
Miscellaneous vegetable products	6	2,861,429	22	2	58,155	87	9	107,493	2,795,129	4,133,524	1,338,395
Pickles, vinegar and cider	62	8,047,231	142	51	338,797	649	533	982,974	5,054,480	10,423,293	5,368,813
Rice Mills	5	1,331,679	22	3	67,076	46	-	48,441	1,458,184	1,711,915	253,731
Rubber footwear	11	16,236,188	663	218	1,267,862	4,246	2,892	6,077,169	9,935,647	30,747,212	20,811,565
Rubber tires and other rubber goods	34	54,222,878	986	278	2,334,891	6,523	1,289	9,263,808	35,182,923	66,461,501	31,278,578

Table 13.- Classification of Industries by Chief Component Material, 1928 - Cont'd.

Name of Industry	Establishments No.	Capital $	Salaried Employees			Wage-Earners			Cost of Materials $	Value of Products	
			Males No.	Females No.	Salaries $	Males No.	Females No.	Wages $		Gross $	Net $
1. Vegetable Products - Cont'd.											
Starch and glucose	6	5,446,548	39	19	156,509	420	17	457,291	3,778,927	5,455,035	1,676,108
Sugar refineries	8	48,625,818	239	60	922,969	1,979	103	2,748,117	40,551,874	52,085,155	11,533,281
Syrups	6	180,004	5	6	14,394	15	14	17,330	154,689	250,850	96,161
Tobacco, chewing, smoking and snuff	36	9,992,397	192	31	814,481	762	1,035	1,073,802	6,284,824	15,749,625	9,464,801
Wines and grape juice	38	5,705,568	53	11	143,681	204	20	213,622	2,206,666	3,674,545	1,467,879
2. 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	133,697,496
Animal hair goods	6	697,180	17	4	50,055	67	23	71,092	255,359	647,578	392,219
Animal oils and fats	6	850,226	6	5	27,226	104	4	119,563	335,088	602,278	267,190
Belting leather	10	1,847,919	60	16	155,274	183	1	165,897	1,087,247	1,639,842	552,595
Boot and shoe findings	14	1,457,276	33	5	93,681	246	84	236,993	675,855	1,408,157	732,302
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	23,635,759
Butter and cheese	2,804	45,129,830	3,519	594	4,514,041	7,077	221	7,241,506	99,202,776	130,212,308	31,009,532
Condensed milk	29	8,422,489	127	48	324,346	619	52	729,209	10,386,900	14,161,306	3,774,406
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	15,688,965
Fur dressing and dyeing	12	1,744,997	65	10	176,103	634	97	626,657	260,185	2,521,294	2,261,109
Fur goods	225	13,189,290	383	185	1,081,976	1,206	1,230	2,807,769	13,866,832	20,756,071	6,889,239
Gloves and mittens, leather	49	3,845,708	151	66	349,632	625	879	1,110,036	3,150,901	5,368,956	2,218,055
Harness and saddlery	214	5,304,020	178	45	338,695	815	83	888,426	2,842,219	4,894,298	2,052,079
Human hair goods	4	47,211	1	1	2,656	6	7	14,016	14,491	38,237	23,746
Leather goods, n.e.s.	40	1,493,793	86	41	216,975	297	368	531,946	1,139,974	2,554,617	1,414,643
Leather, tanned, etc.	91	31,259,692	240	52	796,768	3,561	99	3,690,060	26,253,779	35,202,080	8,948,301
Sausages and sausage casings	32	1,220,595	50	14	109,531	186	19	219,489	1,339,790	2,094,924	755,134
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	31,700,077
Trunks, bags, etc.	19	2,467,077	69	24	190,153	598	108	584,794	1,154,950	2,537,095	1,382,145
3. 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	191,671,848
Awnings, tents and sails	58	2,069,798	80	30	180,977	237	213	427,283	1,509,610	2,634,715	1,125,105
Bags, cotton and jute	19	6,684,706	86	32	291,619	299	648	708,014	12,494,239	14,283,396	1,789,157
Batting	8	2,822,676	49	25	194,099	128	109	233,102	1,734,335	3,197,649	1,463,314
Carpets, mats and rugs	22	6,072,610	174	42	442,277	559	362	854,527	2,370,903	5,009,240	2,638,337
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	23,909,850
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	27,092,856
Cordage, rope and twine	14	12,173,549	87	20	276,109	826	397	1,256,908	7,624,155	10,839,961	3,215,806
Corsets	16	4,917,408	170	176	431,004	72	1,000	693,280	2,055,416	4,246,948	2,191,532

Table 13.- Classification of Industry by Chief Component Material, 1928. - Cont'd.

Name of Industry	Establishments No.	Capital $	Salaried Employees			Wage-Earners			Cost of Materials $	Value of Products	
			Males No.	Females No.	Salaries $	Males No.	Females No.	Wages $		Gross $	Net $
3. Textile Products - Cont'd.											
Cotton and wool waste	7	1,148,423	20	8	67,927	179	104	244,218	1,914,870	2,585,246	670,376
Cotton textiles, n.e.s.	21	1,163,466	39	19	97,195	86	316	267,720	1,231,922	2,013,074	781,152
Cotton thread	5	4,357,721	66	27	186,740	184	475	501,615	1,969,340	4,464,981	2,495,641
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	34,514,803
Dyeing, cleaning and laundry work	375	23,592,606	596	420	1,656,129	4,311	6,342	8,970,202	3,007,047	23,618,823	20,611,776
Flax, dressed	14	317,252	5	-	5,762	124	4	46,715	78,662	232,710	154,048
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	12,993,428
Hats and caps	159	8,164,615	416	203	1,155,333	1,653	2,645	3,724,072	8,290,055	16,973,193	8,683,138
Hosiery, knit goods and fabric gloves	165	60,399,926	756	455	2,577,904	5,165	11,598	12,478,792	31,251,936	58,551,758	27,299,822
Linen goods	6	1,032,567	14	4	46,356	65	118	120,004	297,461	545,541	248,080
Miscellaneous textiles, n.e.s.	5	3,099,244	44	8	102,879	151	127	226,017	2,053,601	2,567,699	514,098
Oiled and waterproof clothing	18	1,238,488	39	19	123,415	141	160	303,199	826,524	1,724,394	897,870
Silk goods	16	26,159,703	243	96	620,715	1,513	2,081	2,820,834	4,638,717	10,897,273	6,258,556
Woollen cloth	51	18,274,895	224	42	600,201	1,935	1,795	3,163,737	9,270,861	15,062,081	5,791,220
Woollen textiles, n.e.s.	27	8,375,122	85	26	329,768	715	339	877,269	3,494,918	6,909,229	3,414,311
Woollen yarns	20	8,810,695	50	27	181,236	767	1,045	1,235,064	4,789,168	7,706,740	2,917,572
4. 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	682,549,865	389,389,952
Beekeeper's and Poultry - men's supplies	4	57,964	1	-	15,600	15	-	11,316	53,965	90,824	36,859
Blueprinting	15	170,972	16	5	33,375	60	8	60,234	77,750	277,894	200,144
Boats and canoes	118	2,279,362	48	14	121,446	710	6	684,982	443,796	1,997,895	1,554,099
Boxes and bags, paper	132	18,732,564	468	184	1,372,089	1,925	2,536	3,470,396	10,825,855	21,112,251	10,286,396
Boxes and packing cases	125	11,541,673	221	48	555,799	3,100	274	2,701,778	5,333,513	10,573,011	5,239,498
Carriages, wagons and sleighs	399	8,356,233	173	29	338,934	2,192	7	2,273,121	3,688,371	8,194,936	4,506,565
Carriage and wagon materials	6	765,546	16	3	41,884	143	1	158,173	430,668	800,721	370,053
Clothes pins	3	215,615	4	-	10,843	156	45	123,186	99,300	391,808	292,508
Coffins and caskets	38	3,514,906	51	19	151,738	530	97	619,297	1,319,555	2,934,905	1,615,350
Cooperage	77	2,236,754	35	10	93,899	554	3	511,080	2,382,415	3,597,489	1,215,074
Excelsior	9	283,365	7	4	14,999	64	23	53,150	87,158	226,800	139,642
Furniture and upholstering	366	39,829,474	862	346	2,607,611	10,810	521	11,081,733	16,312,469	41,825,534	25,513,065

Table 13.- Classification of Industry by Chief Component Material, 1928. - Cont'd.

Name of Industry	Establishments No.	Capital $	Salaried Employees			Wage-Earners			Cost of Materials $	Value of Products	
			Males No.	Females No.	Salaries $	Males No.	Females No.	Wages $		Gross $	Net $
4. Wood and Paper Products-Cont'd.											
Lasts, trees and pegs	15	1,340,889	82	15	112,776	347	123	400,497	294,875	1,266,330	971,455
Lithographing and engraving	119	19,975,562	725	349	2,453,060	3,029	1,267	5,865,132	5,858,493	19,207,658	13,349,165
Miscellaneous wood products	154	4,943,456	91	33	241,089	1,012	62	755,086	1,466,832	3,775,836	2,309,004
Paper goods, n.e.s.	36	6,148,032	144	96	483,453	619	202	894,286	4,042,970	7,715,225	3,672,255
Planing mills, sash and door factories, etc.	788	53,431,576	1,099	248	2,472,706	10,674	110	10,858,123	30,021,888	52,700,315	22,678,427
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	27,696,645
Printing and publishing	753	60,822,600	4,561	1,647	10,408,930	8,421	1,484	13,834,976	15,696,759	67,879,806	52,183,047
Pulp and paper	110	685,687,459	2,962	545	8,713,671	29,253	854	38,608,977	88,490,421	233,077,236	144,586,815
Roofing paper, wallboard, etc.	10	4,484,897	99	29	356,723	294	7	379,113	2,959,463	5,844,387	2,884,924
Saw mills	2,967	175,729,448	1,665	233	4,017,039	42,888	76	30,704,481	80,451,801	139,424,754	58,972,953
Sporting goods	22	1,843,501	46	24	94,458	317	109	371,681	878,529	1,997,023	1,118,494
Stationery and envelopes	31	4,825,518	219	90	595,609	375	689	953.806	3,960,550	6,660,876	2,700,326
Stereotyping and electro-typing	27	1,246,088	71	21	178,406	258	6	449,087	132,043	1,179,296	1,047,253
Woodenware	12	844,207	22	7	96,247	419	24	316,927	452,992	1,067,476	614,484
Wood-turning	30	1,568,202	36	15	89,784	487	60	384,029	443,197	1,260,437	817,240
All other industries	12	9,020,363	139	42	552,071	936	110	803,679	3,632,464	6,450,676	2,818,212
5. Iron and its 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	300.014,925
Agricultural implements	66	91,142,820	1,253	406	2,935,250	9,108	100	10,664,703	17,607,861	41,199,841	23,591,980
Automobiles	14	97,056,328	1,740	696	5,255,897	14,075	238	24,292,217	114,892,190	162,867,495	47,975,305
Automobile supplies	77	16,343,956	306	103	891,163	2,835	265	3,865,246	8,358,404	17,007,157	8,648,753
Bicycles and motorcycles	3	2,828,642	125	39	233,020	354	35	414,944	1,019,421	2,213,493	1,194,072
Boilers, tanks and engines	35	9,352,068	263	55	655,756	1,432	2	1,737,444	3,228,497	6,507,437	3,278,940
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	50,374,704
Hardware and tools	125	34,076,384	576	234	1,777,409	5,046	875	6,023,770	8,589,661	25,131,821	16,542,160
Iron and steel products, n.e.s.	70	14,145,791	547	112	1,339,350	3,072	25	3,939,968	7,922,681	17,567,015	9,644,134
Machinery	161	69,404,536	1,719	542	4,410,340	8,328	266	10,527,756	18,976,526	51,046,140	32,069,614
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	35,312,004
Sheet metal products	145	45,346,299	939	309	2,338,525	6,668	816	8,298,451	24,660,978	49,846,671	25,185,693
Steel and rolled products, pig iron, ferro-alloys, etc.	40	114,292,363	522	92	1,542,727	8,419	24	13,928,109	27,164,463	62,071,674	34,907,211
Wire and wire goods	61	24,561,246	304	107	879,600	2,807	221	3,156,596	7,556,991	18,847,346	11,290,355

Table 13.- Classification of Industry by Chief Component Material, 1928. - Cont'd.

Name of Industry	Establishments No.	Capital $	Salaried Employees: Males No.	Salaried Employees: Females No.	Salaried Employees: Salaries $	Wage-Earners: Males No.	Wage-Earners: Females No.	Wage-Earners: Wages $	Cost of Materials $	Value of Products: Gross $	Value of Products: Net $
6. 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	139,220,908
Aluminum products	14	5,094,213	54	15	155,473	468	72	649,920	1,865,328	3,192,696	1,327,368
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	12,740,682
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	54,888,031
Lead, tin and zinc products	25	4,673,882	95	47	268,363	437	65	491,240	4,105,167	5,493,360	1,388,193
Miscellaneous non-ferrous metal products	17	943,914	40	6	113,370	137	44	156,437	304,387	1,106,639	802,252
Non-ferrous smelting and refining	10	120,035,742	612	73	1,635,580	6,804	37	10,593,158	33,260,225	94,341,702	61,081,477
Precious metal products	106	11,090,082	315	197	1,073,876	1,887	533	2,806,800	4,709,743	11,702,648	6,992,905
7. 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	112,398,268
Abrasive products	12	7,317,105	67	25	213,268	594	5	835,253	2,169,428	7,122,588	4,953,160
Aerated and mineral waters	347	11,650,938	442	75	850,034	1,360	90	1,557,827	4,705,656	10,677,831	5,972,175
Asbestos and allied products	14	3,064,164	53	13	134,084	250	29	287,364	925,661	2,050,432	1,124,771
Cement	11	47,678,841	113	9	256,867	2,285	-	3,148,518	-	16,739,163	16,739,163
Cement products	151	4,140,543	146	12	283,545	1,101	3	1,182,963	1,261,653	4,136,955	2,875,302
Clay products, domestic	186	32,473,203	321	48	806,209	4,826	-	4,375,189	-	12,381,718	12,381,718
Clay products from imported clays	14	3,068,562	65	15	217,895	568	48	673,230	708,571	2,458,801	1,750,230
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	17,544,201
Glass products	59	12,964,882	221	66	574,442	2,607	325	3,303,723	4,791,486	13,565,354	8,773,868
Lime	54	6,952,079	84	16	184,732	1,118	-	1,131,383	-	4,534,568	4,534,568
Miscellaneous non-metallic products	17	8,331,500	102	24	260,818	696	173	856,955	1,790,404	4,799,640	3,009,236
Petroleum products	25	56,531,614	412	62	1,169,042	3,820	25	5,753,538	57,383,841	83,122,172	25,738,331
Salt	10	4,422,922	45	16	117,376	358	36	422,399	-	1,495,971	1,495,971
Sand-lime brick	11	1,916,060	20	3	65,343	258	-	286,968	322,027	1,112,466	790,439
Stone, ornamental and monumental	222	6,305,519	252	40	545,448	1,386	8	2,033,259	2,460,900	7,176,035	4,715,135
8. Chemicals and Allied 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	72,812,503
Acids, alkalis, 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	18,931,855

Table 13.- Classification of Industry by Chief Component Materials, 1928. - Cont'd.

Name of Industry	Establishments No.	Capital $	Salaried Employees Males No.	Salaried Employees Females No.	Salaries $	Wage-Earners Males No.	Wage-Earners Females No.	Wages $	Cost of Materials $	Value of Products Gross $	Value of Products Net $
8. Chemicals and Allied Products - Cont'd.											
Coal tar and its products	19	4,924,681	47	13	132,291	197	4	255,372	2,734,823	4,405,907	1,671,084
Explosives, ammunition fireworks and matches	14	19,361,448	150	15	320,306	1,253	590	1,539,933	6,652,193	13,521,720	6,869,527
Fertilizers	12	2,131,905	28	14	79,445	206	3	201,664	1,446,800	2,189,986	743,186
Inks, dyes and colours	28	3,052,322	116	37	464,018	236	48	341,355	1,182,603	3,334,168	2,151,565
Medicinal & pharmaceutical prep.	140	17,427,506	584	350	1,783,162	773	960	1,591,862	5,707,934	17,224,351	11,516,417
Miscellaneous chemical industries	128	10,726,946	476	226	1,233,226	917	404	1,204,200	6,033,188	12,832,787	6,799,599
Paints, pigments and varnishes	68	24,256,008	774	224	2,076,138	1,645	238	1,891,157	14,489,934	27,868,046	13,378,112
Soaps, washing compounds and toilet preparations	115	20,923,508	607	233	1,304,021	1,066	536	1,484,527	11,684,391	21,617,017	9,932,626
Wood distillates and extracts	7	1,884,935	14	-	24,798	203	-	219,640	826,477	1,645,009	818,532
9. 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	50,439,849
Advertising and other novelties	10	273,273	8	4	22,101	44	62	63,617	105,757	265,818	160,061
Artificial feathers and flowers	7	263,355	14	18	39,305	15	100	66,089	141,228	396,324	255,096
Bridge building	10	24,485,779	724	96	2,028,291	3,153	2	4,807,919	11,208,257	22,584,190	11,375,933
Brooms, brushes and mops	76	4,363,107	186	71	472,737	916	231	862,152	1,952,794	4,401,045	2,448,251
Buttons	13	1,468,361	48	17	141,940	225	182	259,828	263,480	937,326	673,846
Candles and tapers	11	534,769	14	3	27,298	35	23	39,957	217,742	460,852	243,110
Fountain pens	4	1,390,372	38	17	99,717	127	94	189,238	698,400	1,977,980	1,279,580
Ice, artificial	29	4,979,236	30	4	75,898	240	4	311,722	59,313	1,483,702	1,424,389
Jewel cases & silverware cabinets	6	223,136	13	12	28,182	48	36	75,803	81,751	298,156	216,405
Mattresses and springs	63	8,155,255	200	65	632,298	1,293	257	1,680,861	5,462,009	10,411,330	4,949,321
Motion pictures	7	662,628	36	9	49,111	77	25	148,063	354,574	843,042	488,468
Musical instruments and materials	42	14,050,702	242	100	653,075	2,438	203	2,863,777	5,083,766	12,282,589	7,198,823
Refrigerators	11	1,343,842	25	11	81,411	288	3	295,168	585,378	1,487,294	901,916
Regalia & society emblems	11	222,333	11	12	36,625	23	44	55,032	96,904	245,071	148,167
Scientific & professional equipment	21	16,979,027	119	79	410,049	427	261	761,205	3,079,892	6,901,198	3,821,306
Shipbuilding and repairs	42	37,072,996	533	57	1,239,541	4,325	12	5,135,511	4,001,724	16,344,616	12,342,892
Stamps and stencils	31	619,888	61	20	120,184	192	8	239,005	103,029	661,350	558,321
Statuary, art goods & church supplies	30	747,043	37	21	84,597	229	194	390,090	451,377	1,305,059	853,182
Store and display fixtures	3	244,773	8	6	22,339	75	8	93,270	143,380	305,480	162,100
Toys and games	10	232,418	9	2	19,216	72	46	94,839	213,541	430,117	216,576
Typewriter supplies	4	592,887	26	11	103,746	38	18	67,922	267,789	591,781	323,992
Umbrellas and parasols	9	548,984	21	7	56,304	44	137	123,015	477,124	806,444	329,320
All other industries	3	148,713	4	-	7,144	18	10	26,016	40,539	109,333	68,794
10. Central Electric Stations	1,049	956,919,603	5,003	1,211	10,459,158	9,641	-	13,628,262	31,365,636	148,692,455	112,326,819

FUEL USED

The fuel used by Canadian industrial establishments in 1928 is presented in Table 14 by provinces and industrial groups. Coal and coke accounted for 72.5 per cent of the total value of fuel consumed and included 6,639,736 tons of bituminous coal valued at $37,871,736. Oil for fuel comes next in order to bituminous coal, the value in 1928 amounting to $7,300,552 as against an expenditure of $7,220,529 in 1927. Of the total fuel used the province of Ontario expended therefore $28,791,474 or nearly 48.1[illegible] per cent, Quebec being next with $17,320,310 or 28.98 per cent, followed in order by British Columbia with 5.8 per cent and Nova Scotia with 4.98 per cent.

The groups of industries using fuel most extensively in 1928 were wood and paper to the value of $14,428,373 or approximately 25 per cent, non-metallic mineral products being next with $12,861,215 or 21.5 per cent, iron and its products next with $10,647,270 or 17.8 per cent followed by vegetable products with $6,793,577 or 11.4 per cent.

Table 14.- Fuel Consumption by Provinces and Groups of Industries, 1928.

	Bituminous Coal		Anthracite Coal	Lignite Coal	Coke	Gaso-line	Oil (Fuels)	Wood	Gas	All Other Fuel	Total Cost
	Quantity	Value									
	Tons	$	$	$	$	$	$	$	$	$	$
Prince Edward Island	12,898	77,017	469	-	3,382	2,277	15,960	11,397	-	315	110,817
Nova Scotia	323,429	1,625,179	19,911	2,226	78,731	15,720	557,010	63,779	554,779	37,606	2,974,941
New Brunswick	263,701	1,390,493	16,419	1,155	26,590	8,194	66,181	172,784	47,127	1,798	1,700,741
Quebec	2,032,340	12,322,547	1,088,796	148,276	260,345	85,618	2,037,177	547,082	806,113	324,356	17,320,310
Ontario	3,354,934	18,947,358	842,999	49,083	1,229,808	183,862	2,648,947	983,603	3,605,246	300,568	28,791,474
Manitoba	135,393	957,037	71,016	326,474	56,010	21,725	280 265	249,956	80,076	26,890	2,069,449
Saskatchewan	73,783	486,328	18,722	626,686	40,258	37,610	346,454	66,624	154,601	4,709	1,781,992
Alberta	152,192	522,008	2,065	411,066	37,935	24,136	106 085	34,451	400,972	5,805	1,544,523
British Columbia and Yukon	301,066	1,543,769	10,392	7,486	86,288	69,474	1,242,473	309,428	95,891	101,619	3,467,020
T O T A L S	6,639,736	37,871,736	2,070,989	1,572,452	1,819,347	448,616	7,300,552	2,439,104	5,434,805	803,666	59,761,267
Industrial Groups											
Vegetable products	714,217	3,828,829	408,242	244,792	376,539	97,095	694,021	490,263	610,977	42,819	6,793,577
Animal products	348,320	2,142,241	77,153	183,055	42,985	37,166	214,350	307,921	65,554	292,348	3,362,773
Textiles and textile products	481,309	3,057,773	194,644	63,299	48,395	47,018	88,131	47,994	86,193	51,325	3,684,772
Wood and paper products	1,948,105	11,529,818	931,448	32,859	20,858	114,898	831,927	720,901	153,119	92,545	14,428,373
Iron and steel products	1,072,154	5,472,360	233,602	130,435	507,323	49,922	2,000,966	65,704	2,017,061	169,697	10,647,270
Non-ferrous metal products	313,396	1,931,544	66,901	553	150,908	24,539	848,694	62,280	150,343	10,802	3,246,564
Non-metallic mineral products	1,231,626	6,991,152	81,028	123,232	572,268	20,768	2,103,678	645,931	2,255,258	67,900	12,861,215
Chemicals and chemical products	283,636	1,537,411	46,020	10,136	56,228	3,169	70,651	14,227	24,819	69,792	1,832,453
Miscellaneous industries	60,878	407,497	23,830	6,427	30,339	17,822	88,348	8,747	39,180	1,675	623,865
Central Electric Stations	186,095	973,111	7,921	777,664	13,504	36,219	359,786	75,136	32,301	4,763	2,280,405

POWER EQUIPMENT OF INDUSTRIES

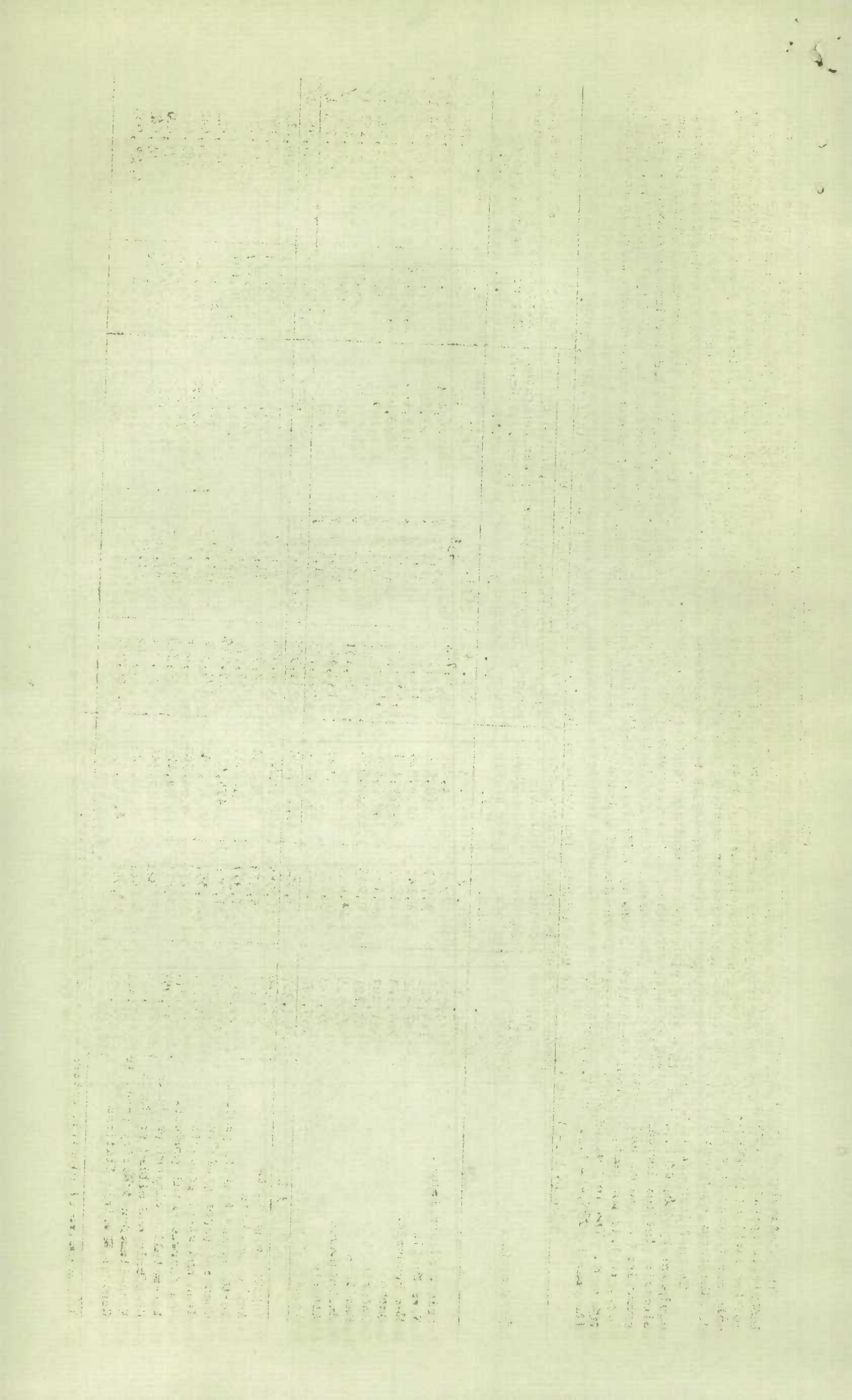
The statistics of power equipment in the manufacturing industries of Canada are presented in Table 15. These comprise all of such industries operating during 1928 and include central electric stations which produce electric energy for driving the machinery of other industries and for lighting purposes. The equipment driven by electricity purchased from central electric stations is shown in column 5 and so as to show only net figures in column 8 for the total power equipment employed, the amount in column 5 marked # have been excluded from the totals in column 8. The total equipment for each of the groups of industries except central electric stations, includes the motors driven by such purchased power.

The net increase in all primary power equipment compared with that of 1927 was 558,664 h.p. Central electric stations increased their equipment by 468,504 h.p. and other industries reported an increase of only 90,150 h.p. Electric motors operated by power purchased from central electric stations increased by 214,442 h.p. The excess of the increase in central electric stations took care of the increased lighting load and power load for mines and electric railways which are not included in these industrial statistics. Steam engines and turbines increased by 14,376 h.p., or 1.39 per cent, internal combustion engines by 4,111 h.p. or 5.15 per cent and water wheels and turbines increased by 540,177 h.p. or 11.8 per cent. The increasing use of electricity in manufacturing industries is indicated by the capacity of electric motors used which increased during the year by 265,052 h.p. or 12.3 per cent.

Table 15.- Power Equipment of Manufacturing Industries of Canada, by Provinces and Groups of Industries, 1928.

(a) Provinces	Steam engines and Turbines H.P.	Internal Combustion Engines H.P.	Hydraulic Turbines or Water Wheels H.P.	Total Primary Power H.P.	Electric Motors: Operated by purchased power H.P.	Electric Motors: Operated by power generated by establishment H.P.	Total Electric Motors H.P.	Total Power Equipment for manufacturing purposes H.P.
	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Prince Edward Island	4,014	909	1,858	6,781	438 #	355	793	6,781 1/
Nova Scotia	113,523	3,769	62,658	179,950	27,978 #	40,404	68,382	179,950 1/
New Brunswick	56,672	4,148	54,914	115,734	35,755 #	22,221	57,976	115,734 1/
Quebec	205,163	7,329	2,326,154	2,538,646	942,663 #	112,185	1,054,848	2,538,646 1/
Ontario	311,403	36,195	1,819,906	2,167,504	842,675 #	179,037	1,021,712	2,167,504 1/
Manitoba	44,821	2,245	310,955	358,021	84,608 #	491	85,099	358,021 1/
Saskatchewan	71,118	14,033	-	85,151	14,844 #	143	14,987	85,151 1/
Alberta	91,323	5,585	33,537	130,445	28,757 #	5,052	33,809	130,445 1/
British Columbia	155,270	9,651	492,802	657,723	161,411 #	97,677	259,088	657,723 1/
T O T A L	1,053,307	83,864	5,102,784	6,239,955	2,139,129 #	457,565	2,596,694	6,239,955 1/
Vegetable products	56,567	11,599	38,863	107,029	202,582	25,189	227,771	309,611
Animal products	25,937	5,373	1,634	32,944	71,222	3,222	74,444	104,166
Textiles and textile products	27,251	1,377	31,342	59,970	103,809	26,298	130,107	163,779
Wood and paper products	410,315	14,006	495,615	919,936	988,802	281,819	1,270,621	1,508,738
Iron and steel products	144,747	21,557	8,048	174,352	314,169	71,714	385,883	488,521
Non-ferrous metal products	19,570	276	68,960	88,806	205,836	29,590	235,426	294,642
Non-metallic mineral products	30,053	3,836	4,426	38,315	143,351	16,273	159,624	181,666
Chemicals and allied products	15,155	321	8,345	23,821	47,580	3,410	50,990	71,400
Miscellaneous industry products	7,401	461	20	7,882	61,778	50	61,828	69,660
Central Electric Stations	316,311	25,058	4,445,531	4,786,900	-	-	-	4,786,900

1/ Exclusive of electric motors operated by purchased power.



Urban Statistics of Manufactures, 1928.

The statistics of manufactures in urban municipalities having 3 or more establishments and a gross value of production of $1,000,000 or over in the calendar year 1928 are presented in Table 16. In the 222 urban municipalities included in the table the value of manufactured products amounted to $3,222,156,165 in a total for the whole of Canada of $3,769,850,364 or 85.47 per cent though the number of establishments represented but 49.96 per cent of the total. Capital investment in the 222 urban municipalities was 77.17 per cent of the total for the Dominion; the number of persons employed 83.06 per cent, the cost of salaries and wages 87.51 per cent and the cost of materials 84.68 per cent.

Table 16. Statistics of Manufactures by Urban Municipalities with a gross production of $1,000,000 or over, and with 3 or more establishments, 1928.

Cities and Towns	Establishments	Capital	Employees	Salaries and Wages	Cost of Materials	Gross Value of Products
	No.	$	No.	$	$	$
P. E. Island	31	1,844,302	427	421,571	991,338	1,900,992
Charlottetown	31	1,844,302	427	421,571	991,338	1,900,992
Nova Scotia	274	117,723,988	10,782	12,291,885	33,472,375	67,263,193
Sydney	34	45,147,202	2,444	3,536,158	8,282,402	19,570,385
Dartmouth	15	15,901,328	893	1,195,851	12,059,653	17,630,681
Halifax	105	31,207,610	3,860	4,084,844	5,078,402	14,403,319
Trenton	3	2,926,265	745	1,033,309	2,486,559	4,150,608
Truro	24	4,616,924	843	696,697	1,871,073	3,520,013
Amherst	24	4,750,561	682	628,195	1,237,182	2,747,080
Yarmouth	29	2,861,621	539	479,881	1,230,254	2,448,884
New Glasgow	27	2,100,587	477	466,860	590,503	1,613,743
Windsor	13	2,211,890	299	190,090	636,347	1,178,480
New Brunswick	274	74,119,730	10,243	10,481,922	28,491,397	49,290,263
St. John	126	28,518,719	3,516	3,590,646	15,137,643	23,187,287
Moncton	39	7,727,660	2,351	2,760,036	4,166,096	8,052,280
Edmundston	10	10,145,382	496	558,049	1,447,518	3,552,310
St. Stephen	18	2,692,137	730	686,953	1,939,703	3,439,593
Bathurst	13	11,474,661	552	664,987	1,579,627	3,367,911
Fredericton	28	3,601,820	620	598,956	1,016,632	2,088,618
Campbellton	14	3,343,830	557	444,040	1,253,098	2,002,136
Milltown	3	2,160,635	745	566,425	797,676	1,432,765
Sackville	11	1,537,235	442	436,991	348,594	1,108,707
Newcastle	12	2,917,651	234	174,839	804,810	1,058,656
Quebec	2,916	1,186,071,257	169,606	190,106,757	425,880,954	902,400,061
Montreal	1,834	481,181,947	101,668	119,226,844	273,015,114	554,311,571
Three Rivers	55	79,061,136	7,634	8,258,527	19,209,953	45,441,169
Quebec	251	69,857,968	10,243	9,747,565	17,505,822	44,608,105
Shawinigan Falls	21	149,846,124	2,938	4,076,874	13,489,984	33,536,951
Lachine	29	25,427,082	2,893	4,792,210	7,514,290	20,736,603
Montreal East	4	26,511,718	1,719	2,528,304	9,494,444	19,427,957
Sherbrooke	76	22,339,310	4,677	4,708,027	9,227,636	19,009,741
Hull	41	13,077,202	2,655	2,655,575	5,847,020	11,705,232
Granby	26	9,721,593	2,763	2,352,651	4,439,105	11,317,276
Valleyfield	25	10,929,551	2,773	2,148,236	3,831,697	9,783,246
Magog	13	6,496,232	1,575	1,300,253	6,481,584	9,042,865
Port Alfred	4	37,722,732	889	1,313,502	4,251,599	8,986,835
St. Hyacinthe	50	8,761,102	2,561	1,899,563	5,155,927	8,905,609
Grand Mere	15	64,890,988	1,307	1,965,962	2,298,567	7,976,144
St. John	38	8,039,430	2,750	2,828,236	3,621,671	7,726,715
St. Jerome	26	6,349,083	1,853	1,555,746	2,886,997	7,610,937
Drummondville	14	18,643,679	2,056	1,890,516	4,063,184	6,892,209
Kenogami	3	16,279,477	954	1,429,172	2,563,276	6,873,573
East Angus	7	15,299,951	854	844,017	2,816,076	5,263,575
La Tuque	11	8,674,704	657	1,005,118	2,031,977	4,662,724
Beloeil	9	3,976,687	260	295,983	2,141,691	4,104,734
Lauzon	8	2,705,002	523	587,603	1,064,295	3,626,217
Victoriaville	21	2,384,709	1,208	933,553	1,332,407	3,496,502
Verdun	11	3,760,844	851	831,433	1,591,160	3,432,840
St. Joseph d'Alma	7	14,824,888	473	713,575	786,131	3,072,211
Beauharnois	9	5,880,029	581	618,489	1,190,445	2,777,788
Donnacona	3	11,533,207	503	743,596	1,302,057	2,741,145

Table 16.- Statistics of Manufactures by Urban Municipalities with a gross production of $1,000,000 or over, and with 3 or more establishments, 1928 - Cont'd.

Cities and Towns	Establishments	Capital	Employees	Salaries and Wages	Cost of Materials	Gross Value of Products
Quebec - Cont'd.	No.	$	No.	$	$	$
Chicoutimi	25	9,772,595	605	628,248	[illegible],339,155	2,540,647
Bromptonville	4	506,769	312	331,827	1,335,793	2,260,010
Joliette	37	1,896,530	579	477,683	920,179	2,124,825
Windsor	7	6,002,789	503	570,010	924,338	2,077,919
Coaticook	21	2,300,029	713	461,289	1,088,941	2,010,792
Sorel	20	2,953,834	1,320	1,013,164	493,160	1,892,437
Cowansville	10	2,344,059	569	450,955	767,141	1,840,802
Chandler	3	3,092,960	463	470,899	748,698	1,755,841
Buckingham	14	2,894,127	321	423,022	859,262	1,676,968
Berthier	14	6,344,772	259	240,216	638,219	1,045,217
Marieville	11	1,686,662	487	414,798	978,304	1,444,381
Jonquiere	8	1,454,483	205	300,194	587,114	1,360,913
Loretteville	21	1,153,020	467	332,225	763,846	1,271,078
Portneuf	9	1,691,628	197	219,232	651,740	1,256,571
Rock Island	13	2,085,434	349	324,812	598,730	1,243,349
Asbestos	10	1,212,834	163	184,660	634,640	1,203,708
Laprairie	9	7,257,674	422	454,298	56,147	1,196,461
St. Remi	10	685,376	132	105,605	923,247	1,193,137
St. Laurent	4	1,226,317	298	382,094	404,060	1,126,396
Plessisville	16	1,134,027	359	267,512	577,469	1,101,737
Ste. Therese	11	1,177,544	271	226,429	493,920	1,052,353
Farnham	13	1,084,172	368	227,654	541,298	1,037,962
Montmagny	15	1,934,247	426	348,804	393,944	1,015,633
Ontario	6,138	1,885,349,775	292,161	365,236,011	948,840,546	1,775,742,136
Toronto	2,221	505,207,658	100,034	125,579,599	293,830,796	565,444,323
Hamilton	426	201,584,803	30,787	40,276,963	79,114,398	166,262,355
Oshawa	37	38,643,526	8,715	12,992,374	56,182,896	84,894,222
Ottawa	195	58,207,109	8,387	10,217,593	43,468,453	61,612,832
Kitchener	137	40,852,417	8,759	9,688,167	24,508,047	50,117,175
London	227	45,123,339	9,716	11,425,574	20,878,152	48,337,680
Ford City	10	45,139,262	7,051	13,590,633	26,807,710	44,293,223
Niagara Falls	61	41,931,035	3,113	4,420,295	18,498,194	38,789,880
Windsor	143	29,275,221	4,211	6,845,057	20,489,496	37,639,930
Peterborough	79	24,795,223	5,349	5,712,694	20,844,956	36,124,040
Brantford	101	60,061,627	7,714	8,600,204	16,439,312	32,273,886
New Toronto	12	23,263,688	3,357	4,736,183	19,766,829	31,114,973
Sarnia	41	21,274,999	2,507	3,783,580	17,917,152	27,123,165
Sault Ste. Marie	46	63,677,529	2,483	4,430,913	12,266,859	26,980,517
Walkerville	55	30,800,940	3,116	5,150,993	13,149,690	25,050,109
Welland	41	27,274,192	2,892	3,419,779	10,443,339	19,901,987
Port Colborne	16	10,891,290	752	1,048,924	16,971,662	19,894,201
Guelph	92	18,270,653	4,515	4,804,929	9,542,111	19,595,669
St. Catharines	100	19,746,301	3,965	4,663,401	7,699,563	17,584,863
Leaside	7	16,554,423	1,361	2,302,136	11,350,055	16,017,743
Galt	79	17,291,666	3,932	4,329,550	7,212,355	15,135,908
Chatham	52	14,689,267	2,371	2,902,256	8,673,311	14,553,025
Keewatin	3	6,696,954	364	482,804	12,874,723	14,5[illegible],450
Cornwall	43	22,268,591	4,233	3,968,273	6,273,755	14,353,376
Stratford	62	10,932,925	3,249	3,870,933	6,947,049	13,300,640
Thorold	16	25,817,140	1,456	2,289,750	5,089,092	13,072,881
Woodstock	60	12,877,185	2,863	3,019,814	6,516,122	12,250,714
Iroquois Falls	3	28,541,009	1,035	2,000,939	2,142,590	10,139,934
Brockville	33	7,137,127	972	1,031,566	7,428,380	9,985,856
Kenora	16	15,850,168	670	807,072	5,960,433	9,441,470
Wallaceburg	20	8,202,594	979	1,308,493	6,390,989	9,338,742
Fort William	36	29,232,205	1,089	1,201,109	4,746,311	8,574,384
Waterloo	34	11,285,286	1,504	1,693,740	3,596,130	7,928,589
Fort Frances	14	14,325,393	968	1,239,231	3,193,361	7,780,200
Port Arthur	20	17,959,029	1,360	1,867,022	2,325,283	7,285,859
Preston	33	6,787,066	1,633	1,870,778	3,232,398	6,725,901
Fergus	13	1,352,262	646	740,582	2,407,173	6,723,388
Belleville	53	9,857,805	1,371	1,424,341	1,852,661	6,289,735
Kingston	60	14,451,763	1,455	1,692,387	3,423,623	6,221,074
Owen Sound	53	7,064,013	1,822	1,733,978	2,747,326	5,812,280
Goderich	20	2,250,686	341	339,623	4,317,270	5,372,029
St. Thomas	46	4,088,079	1,145	1,127,900	3,030,095	5,305,064
Leamington	15	2,728,754	485	491,900	2,176,005	4,943,442

Table 16.- Statistics of Manufactures by Urban Municipalities with a gross production of $1,000,000 or over, and with 3 or more establishments, 1928. - Cont'd.

Cities and Towns	Establishments	Capital	Employees	Salaries and Wages	Cost of Materials	Gross Value of Products
	No.	$	No.	$	$	$
Ontario - Cont'd.						
Simcoe	36	4,079,572	761	610,983	2,751,673	4,719,969
Huntsville	13	4,180,390	452	427,289	3,256,994	4,677,867
Hawkesbury	13	6,954,198	849	957,900	2,365,128	4,606,395
Paris	20	5,024,135	1,125	1,081,812	2,123,958	4,215,741
Hespeler	15	5,375,714	1,058	1,110,144	2,053,432	4,109,518
St. Marys	22	4,973,963	499	594,756	2,106,984	4,097,910
Bowmanville	19	4,608,370	675	647,472	1,860,218	4,069,339
Kapuskasing	6	30,144,894	886	1,290,870	1,530,920	4,047,719
Midland	19	4,210,535	608	663,072	2,658,391	3,968,378
Pembroke	36	5,510,263	1,131	759,552	2,040,552	3,904,038
Weston	13	4,346,507	885	1,066,870	1,615,344	3,764,866
Newmarket	18	2,284,581	640	690,083	1,614,996	3,715,826
Renfrew	20	4,291,847	672	745,995	1,947,835	3,672,518
Elmira	14	2,330,117	659	674,549	1,392,273	3,655,480
Ingersoll	26	3,790,792	694	801,750	1,807,934	3,543,410
Chippewa	3	906,681	189	284,787	653,828	3,498,054
Sandwich	11	4,602,101	838	1,249,663	752,727	3,484,125
Cardinal	8	3,209,475	273	382,807	2,500,897	3,478,429
Orillia	38	5,354,318	1,123	1,112,461	1,598,039	3,317,887
Acton	14	3,077,049	451	408,054	2,299,953	3,284,594
Bridgeburg	23	2,972,856	524	637,841	1,474,620	3,254,990
Petrolia	15	1,982,520	184	240,798	1,861,145	3,071,001
Brampton	21	2,414,491	897	872,988	1,362,331	3,052,789
Perth	23	3,726,893	698	795,629	1,189,067	2,976,078
Dundas	21	4,363,588	749	967,279	1,372,436	2,909,262
Merritton	8	4,164,085	482	711,319	1,179,369	2,900,245
Bracebridge	20	3,129,733	422	335,804	1,998,875	2,849,068
Oakville	19	1,643,927	423	481,301	1,670,530	2,841,663
Gananoque	24	2,995,976	635	723,356	1,255,147	2,763,802
Hanover	15	3,082,798	675	704,112	1,270,343	2,654,300
Aurora	7	1,183,262	417	399,081	1,702,026	2,544,130
Tilsonburg	23	1,962,101	499	455,471	1,678,091	2,539,371
Georgetown	19	2,735,850	559	511,610	1,446,031	2,459,203
Sudbury	26	4,442,397	388	460,844	1,090,742	2,399,956
Port Hope	30	3,600,872	665	879,701	765,611	2,384,062
Blind River	7	6,707,419	377	471,089	1,604,102	2,334,045
Cobourg	25	2,650,434	418	433,420	1,131,534	2,330,646
Lindsay	35	2,748,632	450	460,511	1,284,105	2,320,823
Amherstburg	9	10,128,834	239	376,116	313,590	2,277,049
Smith's Falls	21	3,919,497	637	768,225	1,149,012	2,238,994
Aylmer	9	1,877,278	198	192,888	1,303,467	2,118,317
Barrie	19	1,673,350	325	372,181	1,398,987	2,082,557
Carleton Place	19	2,331,893	598	570,440	955,679	2,054,141
Dunnville	20	2,308,480	634	641,709	1,037,174	2,037,224
Port Credit	4	2,277,701	193	229,722	1,328,063	2,022,997
Trenton	27	2,960,316	564	477,020	972,468	2,002,782
Arnprior	16	4,125,332	518	581,295	1,147,542	1,977,759
Napanee	20	1,382,703	319	321,377	1,066,669	1,917,149
Port Dalhousie	5	1,215,217	486	468,196	516,019	1,906,522
Chesterville	8	942,583	157	207,661	1,254,932	1,873,710
Cobalt	8	15,917,457	212	368,367	64,638	1,863,018
Timmins	16	12,657,601	141	178,008	79,344	1,776,259
Tilbury	9	795,042	337	424,150	832,988	1,773,356
Listowel	19	851,547	360	351,226	894,768	1,642,942
Dryden	7	5,095,469	322	407,127	585,357	1,620,628
Campbellford	28	2,008,915	355	326,652	955,427	1,612,267
Caledonia	10	965,785	221	256,454	740,167	1,610,884
Kincardine	12	1,672,585	427	404,020	665,029	1,493,207
Almonte	17	1,554,096	491	400,669	814,401	1,491,934
Meaford	16	1,448,340	330	304,984	1,008,614	1,478,754
Strathroy	16	1,459,759	314	299,800	825,411	1,456,858
Tavistock	13	499,248	182	150,260	1,126,715	1,437,779
Milton	17	3,020,191	359	414,272	482,919	1,432,058

Table 16.- Statistics of Manufactures by Urban Municipalities with a gross production of $1,000,000 or over, and with 3 or more establishments, 1928 - Cont'd.

Cities and Towns	Establishments	Capital	Employees	Salaries and Wages	Cost of Materials	Gross Value of Products
	No.	$	No.	$	$	$
Ontario - Cont'd.						
North Bay	23	1,510,091	303	347,459	739,021	1,413,206
Sturgeon Falls	9	210,647	327	449,419	789,177	1,389,862
Ayr	7	887,612	104	106,789	655,153	1,358,772
Wingham	17	946,765	266	272,168	769,643	1,309,804
Collingwood	23	4,667,642	325	355,864	650,934	1,280,331
Picton	27	1,271,826	282	161,750	724,592	1,264,473
Chesley	12	973,953	356	343,818	498,415	1,238,164
New Liskeard	17	1,501,780	280	338,390	611,743	1,232,879
Elora	9	946,739	308	324,012	384,233	1,172,601
Frankford	10	2,342,382	210	154,546	669,495	1,159,757
Woodbridge	5	725,936	149	168,192	838,975	1,146,845
Cache Bay	3	875,927	189	199,496	753,041	1,137,190
Walkerton	21	1,598,373	324	294,643	594,564	1,115,016
Grimsby	14	959,677	362	268,502	541,762	1,083,697
Penetanguishene	14	1,374,174	348	353,007	413,390	1,071,766
Prescott	16	1,059,766	271	221,824	474,055	1,035,310
New Hamburg	12	985,719	252	226,823	568,722	1,002,759
Manitoba	594	139,125,036	23,496	30,907,848	62,502,705	148,016,537
Winnipeg	491	115,678,092	18,340	23,994,480	35,275,785	105,456,065
St. Boniface	35	8,107,117	1,557	1,936,112	19,516,408	26,965,037
Transcona	3	7,025,759	2,168	3,168,181	2,281,729	5,737,255
Brandon	37	4,109,956	455	608,814	2,377,276	3,799,039
Portage La Prairie	14	753,084	222	248,305	1,931,807	2,685,983
Selkirk	7	2,025,820	422	563,429	566,898	1,916,428
The Pas	7	1,425,208	332	388,527	552,802	1,456,730
Saskatchewan	173	32,932,377	4,391	6,343,021	30,073,181	50,540,384
Regina	70	14,633,807	1,810	2,711,296	10,338,339	19,483,586
Moose Jaw	28	6,885,158	879	1,268,872	10,580,977	14,473,385
Saskatoon	56	9,199,323	1,303	1,880,486	7,026,455	13,117,818
Prince Albert	19	2,214,089	399	482,367	2,127,410	3,465,595
Alberta	316	63,169,772	9,562	12,269,800	48,455,065	82,232,905
Calgary	146	32,269,048	4,209	5,782,865	24,800,582	42,418,079
Edmonton	125	21,237,175	4,229	5,071,978	14,391,653	24,924,826
Medicine Hat	22	5,848,213	747	862,818	7,624,739	10,136,277
Lethbridge	23	3,815,336	377	552,139	1,638,091	4,753,723
British Columbia	963	188,593,927	25,875	32,825,939	73,206,469	145,169,694
Vancouver	620	123,029,880	16,013	20,263,435	49,597,035	94,131,608
New Westminster	53	13,726,438	2,316	2,857,847	8,218,153	14,717,644
Victoria	140	18,836,174	3,060	3,822,926	4,861,852	13,585,956
North Vancouver	18	5,996,636	958	1,387,317	2,141,067	4,261,296
Prince Rupert	20	4,519,647	345	587,962	2,200,631	3,337,800
Duncan	12	742,646	470	618,060	1,162,681	2,195,633
Rossland	8	7,904,315	477	759,216	13,120	2,146,772
Port Alberni	8	1,221,513	364	453,556	1,048,511	1,989,326
Port Moody	5	1,542,872	332	438,244	948,321	1,820,362
Nelson	25	1,880,621	360	467,398	492,903	1,707,264
Nanaimo	27	1,324,808	540	435,957	820,821	1,605,514
Kelowna	17	898,715	307	270,043	683,401	1,289,338
Fernie	6	6,404,359	183	254,959	457,246	1,242,096
Port Coquitlam	4	565,303	150	209,014	560,727	1,139,085

Urban Statistics of Manufactures, 1928.

Summary of Production in Urban Centres.

A summary of the cities and towns having a production valued at $1,000,000 and over showing the percentage of production in the cities and towns of each province to the total production in the province is presented herewith. The highest percentage so obtained is found in Manitoba with 92.83 per cent followed by Ontario with 91.05 and Saskatchewan with 85.48 per cent. The lowest percentages appear in Prince Edward Island and British Columbia where the primary industries connected with the farm, the forest, the mine and the fisheries furnish the volume of production.

Province	Cities and towns in each province	Establishments reporting in the cities and towns having an output of $1,000,000 and over	Total production of cities and towns in each province whose establishments have an output of $1,000,000 and over	Total production in each province	Per cent of production in cities and towns to total production in the province
	No.	No.	$	$	P.C.
Prince Edward Island	1	31	1,900,992	4,445,160	42.76
Nova Scotia	9	274	67,263,193	84,948,608	79.18
New Brunswick	10	274	49,290,263	67,413,742	73.12
Quebec	50	2,916	902,400,061	1,073,162,291	84.09
Ontario	123	6,138	1,775,342,136	1,949,724,119	91.05
Manitoba	7	594	148,016,537	159,435,094	92.83
Saskatchewan	4	173	50,540,384	59,125,280	85.48
Alberta	4	316	82,232,905	100,744,401	81.62
British Columbia	14	963	145,169,694	270,851,669	53.60
CANADA	222	11,679	3,222,156,165	3,769,850,364	85.47

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