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PRELIMINARY REPORT

on the

GENERAL MANUFACTURES

in

CANADA

1929

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

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

MANUFACTURES OF CANADA, 1929.

Ottawa, April, 1931. - A preliminary report on the manufacturing industries of Canada for the year ending 31st December, 1929, is herewith presented, the principal statistical features of which are outlined below:-

Establishments: - The number of individual establishments reporting in 1929 was 23,597, an increase of 218 from the number reported in 1928. The Vegetable Products group accounted for 160, the wood and paper group 115, whilst Iron and steel products non-metallic minerals and the miscellaneous group each had an increase of 10. The textile group follows next in order with a gain of 6 and the non-ferrous metals last with 2. There was a decrease of 52 in the animal products group, 25 in Central Electric Stations and 18 in the chemical products.

Capital Investment: - The total capital invested in Canadian manufacturing industries rose from \$4,780,296,049 in 1928 to \$5,083,014,754 in 1929, an increase during the year of \$302,718,705 or 6.33 per cent.

Employment: - The number of persons employed in the manufacturing industries of Canada in 1929 was 693,816 of whom 96,607 were salaried employees, and 597,209 wage-earners. Of the salaried employees 73,792 were males and 22,815 were females and of wage-earners 467,425 were males and 129,784 were females. Compared with 1928 there was an increase in the number of salaried employees of 5,364 and in wage-earners of 30,429.

Salaries and Wages Paid: - The total payments for labour and service in 1929 amounted to \$813,049,842 of which \$188,747,672 was paid for salaries and \$624,302,170 for wages. Compared with 1928 there was an increase in the amount paid for salaries of \$13,976,793 and in wages of \$43,873,677.

Materials Used: - The total cost of all materials, whether in the raw or partly manufactured condition, used in the various processes of manufacture during 1929 was \$2,066,636,914. Compared with the preceding year there was an increase in the cost of materials of \$115,832,575 or nearly 6.0 per cent.

Value of Products: - The gross value of manufactured products at the point of production amounted to \$4,063,987,279 in 1929, which was an increase of \$294,136,915 or 7.80 per cent, when compared with 1928. Of the nine groups, all show increases in value of production with the exception of the Animal and Chemical Products groups, which show a combined decline amounting to \$15,690,755. A comparison by provinces show that increases prevailed in all of the nine provinces, Ontario leading with \$153,366,669, Quebec being next with \$87,450,701 and Saskatchewan third with \$21,375,879.

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 \$1,997,350,365 in 1929. This added value represented 49.15 per cent of the gross value in 1929 and 48.25 per cent in 1928 or a variation in added value of 9.8 per cent.

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MANUFACTURES OF CANADA

1929

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 1928 and 1929 and the increases or decreases by percentages of the principal items is also included in the table.

Table 1. - Principal Statistics compared for 1928 and 1929.

Items		1929	1928	Increase (+) or Decrease (-) 1929 over 1928
Establishments	No.	23,597	23,379	+ 218
Capital invested	\$	5,083,014,754	4,780,296,049	+ 302,718,705
Average capital per establishment	\$	215,409	204,469	+ 10,940
Employees on salaries	No.	96,607	91,243	+ 5,364
Salaries	\$	188,747,672	174,770,879	+ 13,976,793
Average salaries	\$	1,954	1,915	+ 39
Employees on wages	No.	597,209	566,780	+ 30,429
Wages	\$	624,302,170	580,428,493	+ 43,873,677
Average wages	\$	1,045	1,024	+ 21
Cost of materials	\$	2,066,636,914	1,950,804,339	+ 115,832,575
Average cost of materials per establishment	\$	87,580	83,442	+ 4,138
Value of Products	\$	4,063,987,279	3,769,850,364	+ 294,136,915
Average value of products per establishment	\$	172,225	161,249	+ 10,976
Value added by manufacture	\$	1,997,350,365	1,819,046,025	+ 178,304,340

Table 2 presents the principal statistics of the manufacturing industries of Canada for the calendar year 1929 by provinces and by groups of industries classified according to chief component materials. The province of Ontario ranks first in production with 51.75 per cent of the total for the Dominion, Quebec being second with 20.56 per cent, whilst the remaining provinces follow in the order named;— British Columbia 6.01 per cent, Manitoba 4.06 per cent, Alberta 2.65 per cent, Nova Scotia 2.32 per cent, Saskatchewan 1.93 per cent, New Brunswick 1.76 per cent and P. E. Island 0.11 per cent.

In the industrial group classification first place is taken by the Vegetable products group having 16.90 per cent of the total of all groups. Iron and its products group is second with 10.16 per cent, wood and paper products third with 17.86 per cent, animal products fourth with 11.75 per cent, textile products fifth with 10.49 per cent followed in order by the non-ferrous metal group with 6.97 per cent, the non-metallic mineral group with 5.96 per cent, the central electric station group with 3.03 per cent, the chemical products group with 3.41 per cent, and the miscellaneous group last with 2.54 per cent.

Table 2. - Summary of the Principal Statistics of the Manufacturing Industries of Canada, 1929 - (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.	\$		
(a) By Provinces										
CANADA, Totals	23,597	5,083,014,754	73,792	22,815	188,747,672	467,425	129,784	624,302,170	2,066,636,914	4,063,907,279
Prince Edward Island	276	3,489,934	170	36	199,201	1,175	752	582,247	2,864,831	4,638,725
Nova Scotia	1,195	135,662,325	1,381	401	3,073,700	15,580	3,604	14,851,490	51,506,523	94,292,816
New Brunswick	860	117,965,970	1,355	384	3,157,674	13,123	3,655	12,554,648	40,453,535	71,433,966
Quebec	7,156	1,673,011,042	21,282	5,575	53,383,006	136,751	49,241	180,420,666	543,240,589	1,160,612,992
Ontario	9,910	2,418,340,450	37,777	13,595	101,492,870	228,378	60,109	320,296,853	1,080,106,598	2,103,090,788
Manitoba	923	173,152,948	3,415	953	8,287,809	18,076	3,874	25,870,774	89,158,381	164,909,127
Saskatchewan	761	58,877,124	1,808	337	3,644,495	5,412	490	6,794,264	51,208,827	80,501,159
Alberta	817	107,648,028	1,878	476	4,185,508	9,713	1,681	12,274,530	63,432,924	107,556,792
British Columbia and Yukon	1,699	394,866,933	4,726	1,058	11,323,409	39,217	6,378	50,656,698	144,664,706	276,950,914
(b) By Industrial Groups										
CANADA, Totals	23,597	5,083,014,754	73,792	22,815	188,747,672	467,425	129,784	624,302,170	2,066,636,914	4,063,987,279
Vegetable products	5,005	569,064,835	9,471	2,876	24,659,299	51,529	24,982	68,640,366	427,019,724	771,457,665
Animal products	4,490	243,825,065	8,707	1,954	16,921,301	41,209	15,800	45,160,122	345,351,882	477,761,855
Textiles and textile products	1,891	383,153,797	6,635	3,391	19,555,354	42,178	63,416	86,340,883	220,304,250	426,247,587
Wood and paper products	7,405	1,152,075,234	16,284	4,958	43,373,770	131,186	11,754	148,861,678	314,203,289	725,819,740
Iron and its products	1,169	754,989,105	12,363	3,542	33,405,489	113,031	3,345	153,523,211	384,925,660	738,012,980
Non-ferrous metal products	408	298,721,106	5,608	2,017	14,285,983	27,456	4,786	40,215,823	124,900,632	283,545,666
Non-metallic mineral products	1,188	329,448,844	3,212	763	7,838,959	26,526	930	33,672,887	117,149,130	242,023,518
Chemicals and chemical products	554	165,886,912	3,286	1,280	9,527,502	9,390	2,738	13,111,947	55,184,337	138,545,221
Miscellaneous industries	463	130,118,324	2,721	725	7,667,233	15,570	2,033	21,456,214	42,982,071	103,073,662
Central Electric Stations	1,024	1,055,731,532	5,505	1,309	11,512,782	9,350	-	13,319,039	34,615,939	157,499,385

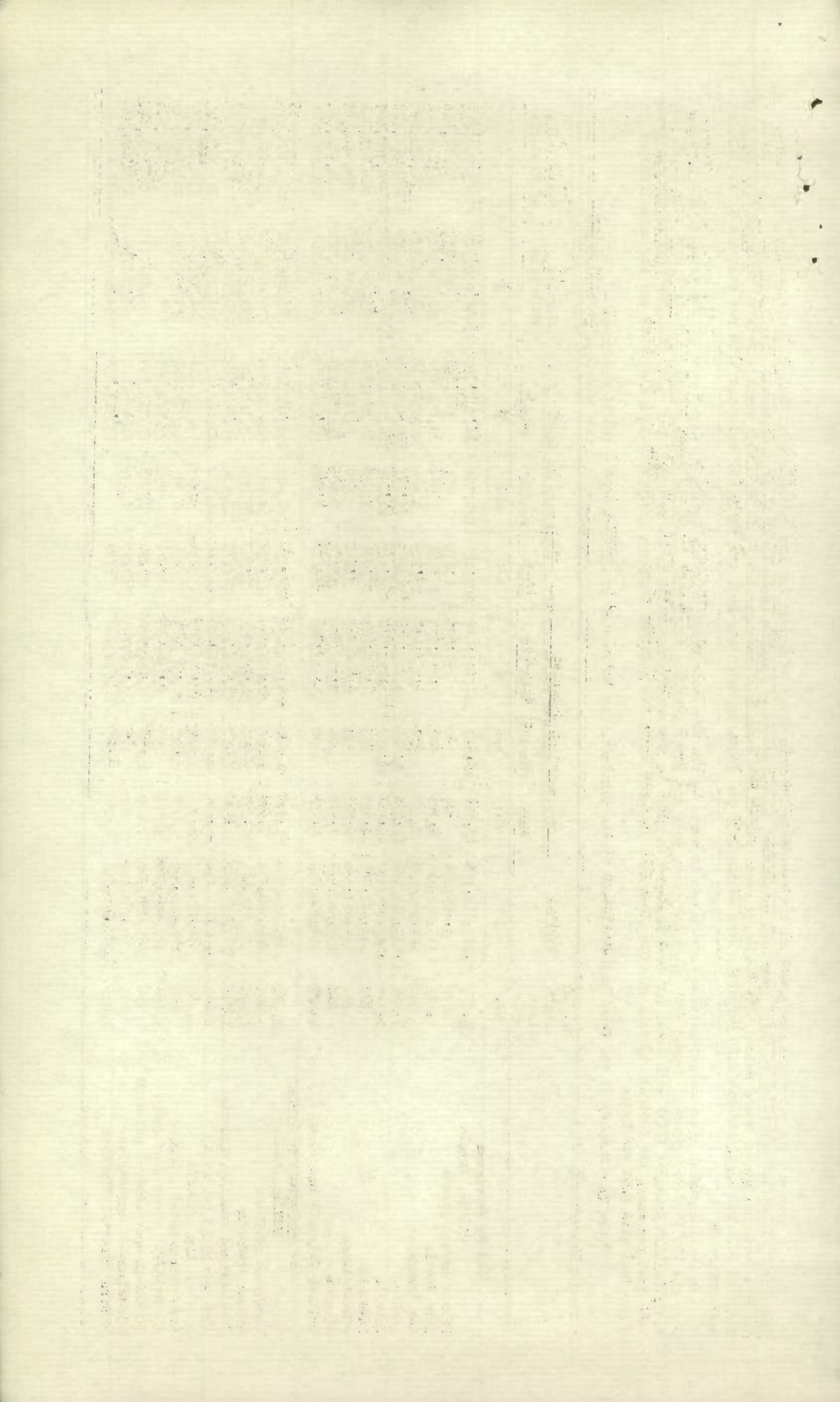
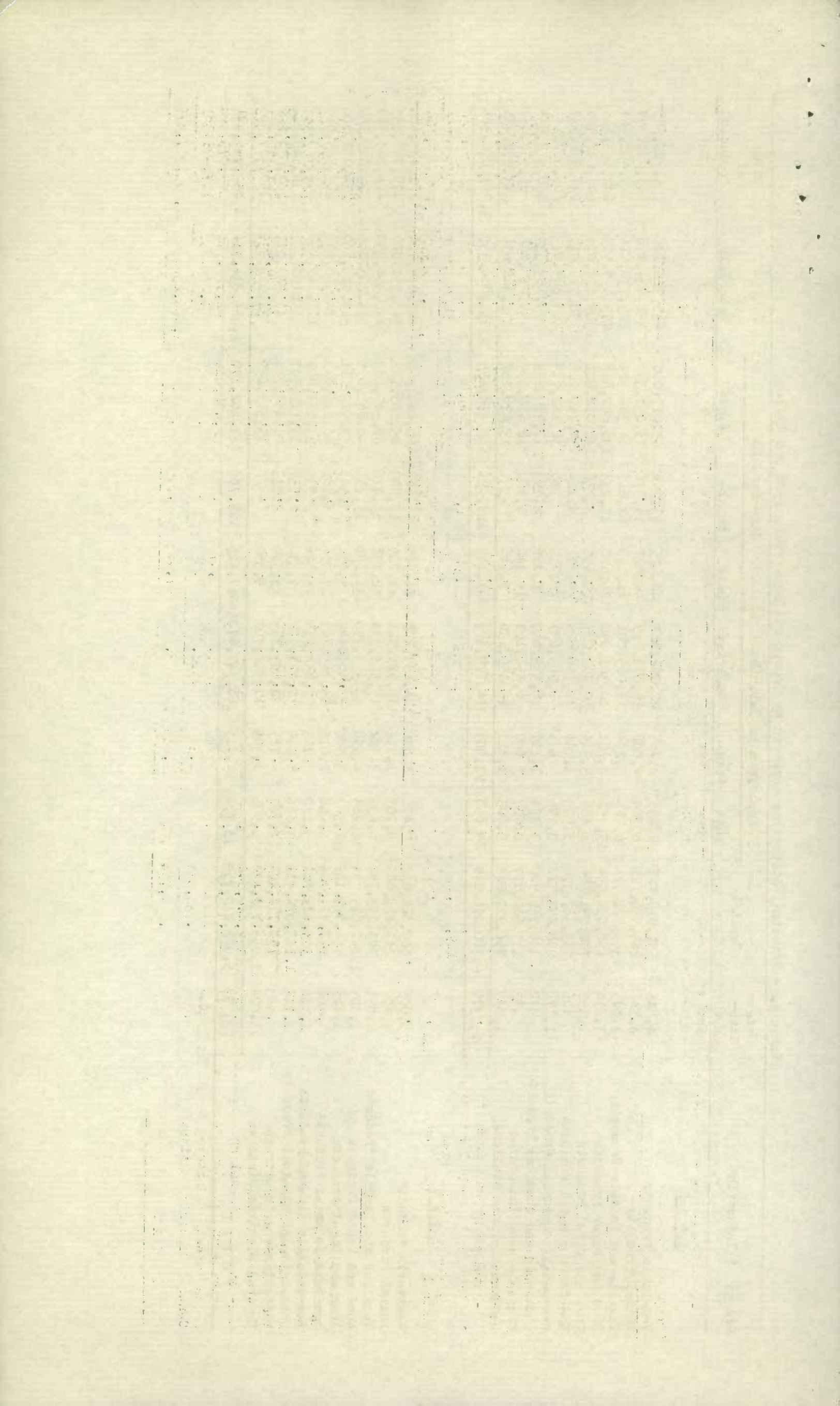


Table 3. - Principal Statistics compared by Groups of Industries, 1928 and 1929.

Groups of Industries	Estab- lish- ments No.	Capital \$	Employees on Salaries			Wage-Earners			Cost of Materials \$	Value of Products \$
			Male	Female	Salaries	Male	Female	Wages		
			No.	No.	\$	No.	No.	\$		
<u>1928</u>										
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	682,549,865
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	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
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
<u>1929</u>										
Vegetable Products	5,005	569,064,835	9,471	2,876	24,659,299	51,529	24,982	68,640,366	427,019,724	771,457,665
Animal Products	4,490	243,825,065	8,707	1,954	16,921,301	41,209	15,800	45,160,122	345,351,882	477,761,855
Textiles and Textile Products	1,891	383,153,797	6,635	3,391	19,555,354	42,178	63,416	86,340,883	220,304,250	426,247,587
Wood and Paper Products	7,405	1,152,075,234	16,284	4,958	43,373,770	131,186	11,754	148,861,678	314,203,289	725,819,740
Iron and Steel Products	1,169	754,989,105	12,363	3,542	33,405,489	113,031	3,345	153,523,211	384,925,660	738,012,980
Non-ferrous metal Products	408	298,721,106	5,608	2,017	14,285,783	27,456	4,786	40,215,823	124,900,632	283,545,666
Non-metallic mineral Products	1,188	329,448,844	3,212	763	7,838,959	26,526	930	33,672,887	117,149,130	242,023,518
Chemicals and chemical Products	554	165,886,912	3,286	1,280	9,527,502	9,390	2,738	13,111,947	55,184,337	138,545,221
Miscellaneous Industries	463	130,118,324	2,721	725	7,667,233	15,570	2,033	21,456,214	42,982,071	103,073,662
Central Electric Stations	1,024	1,055,731,532	5,505	1,309	11,512,782	9,350	-	13,319,039	34,615,939	157,499,385
T O T A L	23,597	5,083,014,754	73,792	22,815	188,747,672	467,425	129,784	624,302,170	2,066,636,914	4,063,987,279



CONSUMPTION OF MANUFACTURED PRODUCTS, 1929.

The consumption of manufactured products is made possible by the placing of the classification of external trade and production on a common basis. Table 4 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 1929 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 \$4,308,378,487 in 1929 as compared with \$4,022,000,585 in 1928, \$3,605,668,962 in 1927 and \$3,343,397,137 in 1926. 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 1929.

	Value of Manufactured Goods	Manufactured and partly manufactured Goods (Fiscal year ended March 31.)		Value of Products Available for Consumption
		Net Imports	Domestic Exports	
	\$	\$	\$	\$
Vegetable Products	771,457,665	125,010,477	122,902,659	773,565,483
Animal Products	477,761,855	44,425,795	64,802,581	457,385,069
Textile Products	426,247,587	144,573,313	7,489,884	563,331,016
Wood and Paper Products	725,819,740	58,882,293	267,006,760	517,695,273
Iron and Its Products	738,012,980	307,066,936	78,571,009	966,508,907
Non-ferrous Metal Products	283,545,666	82,132,716	99,113,024	266,565,358
Non-metallic Mineral Products	242,023,518	69,391,244	8,491,908	302,922,854
Chemicals and Allied Products	138,545,221	39,343,858	22,468,462	155,420,617
Miscellaneous Industries	103,073,662	68,400,262	20,057,938	151,415,986
Central Electric Stations	157,499,385	96,693	4,028,154	153,567,924
T O T A L	4,063,987,279	939,323,587	694,932,379	4,308,378,487

Note: - Value of manufactured goods are for the calendar year 1929. Imports and exports of manufactured and partly manufactured goods are for the fiscal year ended March 31, 1930.

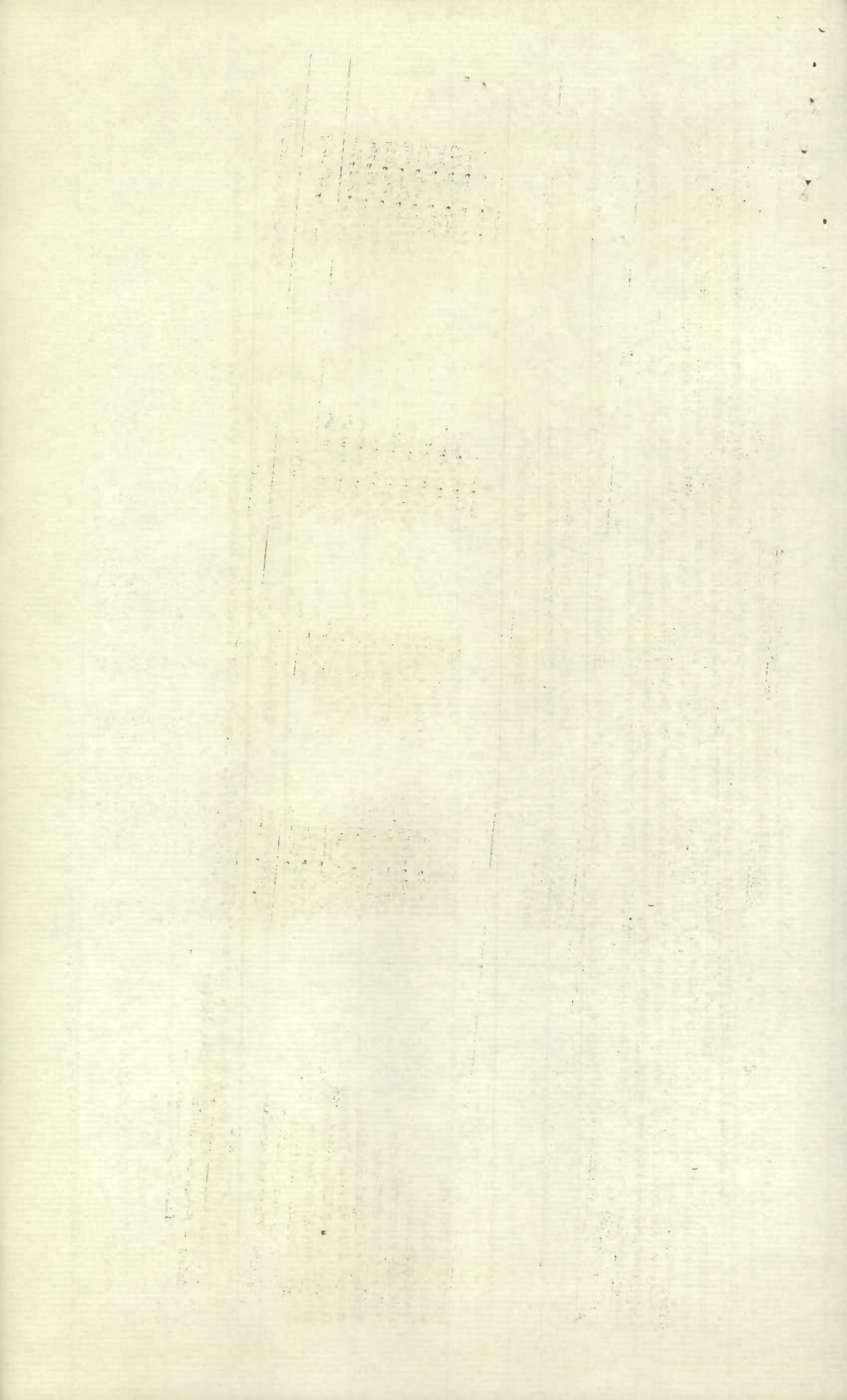


TABLE 5. - PRINCIPAL STATISTICS OF THE FORTY LEADING INDUSTRIES OF CANADA, 1929.

The statistics of the forty leading industries of the Dominion are presented in Table 5. The pulp and paper industry now leads all others by the considerable margin of \$58,127,859 followed in order by the meatpacking and flourmilling industries. These forty industries employ 81.53 per cent of all capital used in the manufacturing industries of the Dominion and produce 79.56 per cent of the gross value of all goods made.

	Number of Establishments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Gross Value of Products
			Employees		Salaries	Employees		Wages		
			Male	Female	\$	Male	Female	\$		
	No.	\$	No.	No.	\$	No.	No.	\$	\$	
1. Pulp and paper	108	644,773,806	3,104	634	9,391,901	28,977	869	40,822,544	96,874,749	243,970,761
2. Slaughtering and meatpacking	74	67,777,803	2,154	345	4,724,682	7,434	829	9,274,034	151,814,517	185,842,902
3. Flour and grist mill products	1,325	67,773,534	993	217	2,300,160	5,267	141	5,278,116	150,806,665	181,148,689
4. Automobiles	17	98,378,301	1,687	603	5,227,608	13,922	223	21,637,200	120,332,694	177,315,593
5. Central electric stations	1,024	1,055,731,532	5,505	1,309	11,512,782	9,350	-	13,319,039	34,615,939	157,499,385
6. Sawmills	3,161	181,586,699	1,643	243	3,892,151	44,501	79	32,265,404	83,743,952	146,989,564
7. Butter and cheese	2,767	47,907,462	3,526	656	4,646,465	(1)7,449	241	8,062,961	93,861,458	126,703,195
8. Railway rolling stock	35	94,415,563	1,521	109	3,633,974	23,823	35	34,677,205	74,156,037	126,487,037
9. Electrical apparatus and supplies	139	101,767,108	3,503	1,452	8,886,486	12,352	3,564	17,838,729	49,623,322	113,796,002
10. Non-ferrous metal smelting	10	146,699,085	621	63	1,753,840	7,408	27	12,018,553	41,416,446	109,854,468
11. Petroleum products	25	71,260,459	445	65	1,253,174	4,444	24	6,900,451	76,861,939	99,408,314
12. Rubber goods, including footwear	44	73,877,478	1,751	508	4,156,968	11,415	4,122	15,977,533	42,940,747	96,934,660
13. Castings and forgings	336	102,900,796	2,000	647	5,768,144	20,467	329	25,086,510	35,994,441	91,575,146
14. Cotton yarn and cloth	36	95,542,319	575	120	1,612,847	11,369	8,157	15,058,940	43,133,575	78,241,765
15. Bread and other bakery products	2,568	48,969,603	846	428	1,784,168	13,632	2,117	16,697,444	38,507,559	77,214,466
16. Printing and publishing	767	65,736,238	4,965	1,805	11,478,893	8,626	1,564	14,928,311	16,424,412	73,673,338
17. Steel and rolled products, pig iron, ferric-alloys, etc.	45	109,446,529	597	115	1,746,020	10,479	27	16,788,661	32,514,596	72,231,995
18. Clothing, women's factory	461	25,087,862	1,163	792	3,802,392	4,011	11,058	13,326,029	34,558,860	66,346,417
19. Machinery	169	75,226,204	1,822	614	4,700,846	9,746	253	12,391,072	22,264,416	65,692,539
20. Cigars and cigarettes	72	34,025,963	1,009	294	2,374,525	1,659	3,420	3,360,727	17,012,776	64,331,500
21. Biscuits and confectionery	281	55,320,902	1,723	624	4,603,754	4,653	6,073	8,162,122	27,717,889	62,492,801
22. Breweries	78	70,390,147	768	116	2,384,418	3,909	46	4,749,838	19,135,208	62,260,921
23. Hosiery, knit goods and gloves	168	66,489,608	771	491	2,694,053	5,873	12,474	13,600,483	31,193,505	61,097,752
24. Planing mills, sash and door factories	744	58,429,538	1,299	247	2,853,220	11,473	113	12,112,852	31,679,455	56,592,088
25. Sheet metal products	152	49,080,661	997	340	2,530,928	7,085	864	8,697,242	28,076,595	53,151,698
26. Clothing, men's factory	205	28,493,549	1,009	411	2,596,523	4,811	5,275	10,774,894	25,653,973	50,580,168
27. Boots and shoes, leather	191	31,028,229	966	357	2,617,404	8,652	5,588	12,413,697	25,510,731	48,627,590
28. Sugar refineries	8	43,534,113	246	61	937,641	1,916	102	2,748,396	35,640,124	47,151,960
29. Furniture and upholstering	367	41,851,682	871	322	2,514,638	11,406	483	11,997,435	17,735,090	44,136,176
30. Distilleries	20	60,211,220	289	72	1,071,776	1,442	416	2,060,721	12,928,920	43,752,420

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

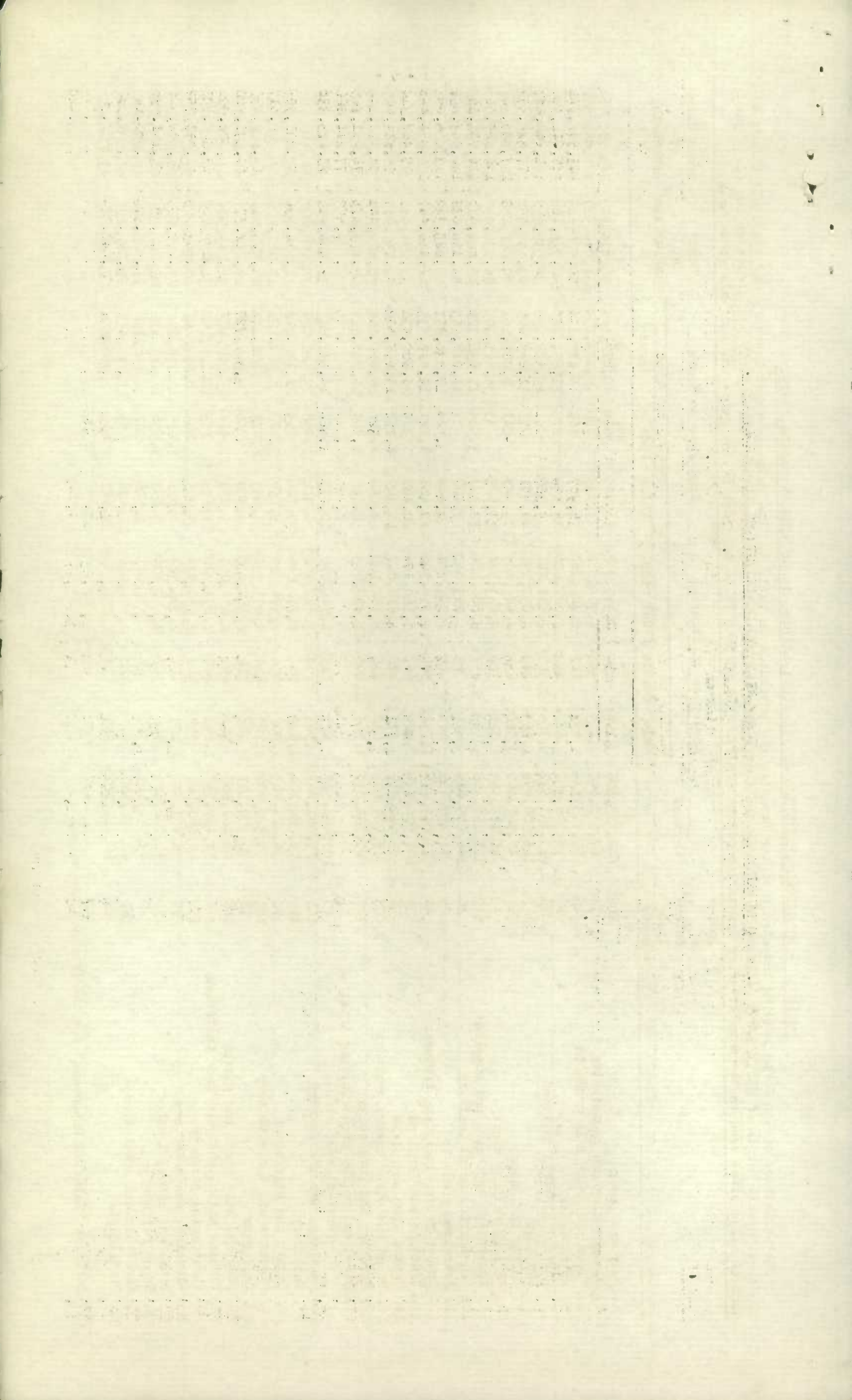


TABLE 5. - PRINCIPAL STATISTICS OF THE FORTY LEADING INDUSTRIES OF CANADA, 1929 - Con.

	No. of Estab- lish- ments	Capital	Employees on Salaries			Employees on Wages			Cost of Materials	Value of Products
			Male	Female	Salaries	Male	Female	Wages		
			No.	No.	\$	No.	No.	\$		
31. Printing and bookbinding	910	43,506,712	1,557	573	4,409,514	7,569	2,679	12,285,613	13,761,259	43,748,715
32. Agricultural implements	62	103,356,773	1,334	431	3,323,356	9,534	109	11,452,533	19,016,981	40,659,479
33. Coke and gas products	43	94,749,062	652	237	1,469,347	3,009	4	4,469,467	18,517,214	39,910,443
34. Brass and copper products	102	27,431,520	891	214	1,917,786	4,668	459	5,882,805	21,118,038	36,115,581
35. Fish curing and packing	730	28,644,442	583	77	951,669	9,493	6,214	4,460,186	21,496,859	34,966,260
36. Bridgebuilding	10	28,895,206	921	107	2,599,382	3,949	-	6,338,045	14,557,679	34,179,488
37. Automobile supplies	65	19,401,890	401	129	1,178,742	3,878	300	5,532,692	19,045,836	31,965,078
38. Furnishing goods, men's	162	19,654,505	600	292	1,579,442	1,346	7,652	5,740,703	17,848,021	30,581,862
39. Acids, alkalies and salts	15	49,417,431	354	26	820,290	2,509	8	3,518,396	6,301,121	28,021,972
40. Coffee and spices	59	15,402,253	445	136	1,210,124	680	440	1,095,788	21,025,868	27,971,790
Total, forty leading industries	17,555	4,144,173,787	56,107	16,282	138,912,033	364,186	86,378	483,803,371	1,685,419,466	3,233,221,978
Total, all industries	23,597	5,083,014,754	73,792	22,815	188,747,672	467,425	129,784	624,302,170	2,066,636,914	4,063,987,279
Percentage of forty leading industries to all industries	74.40	81.53	76.03	71.37	73.60	77.91	66.56	77.50	81.55	79.56

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