## CANADA DOMINION BUREAU OF STATISTICS

(CENSUS OF MANUFACTURES)

# The Manufacturing Industries of Canada, 1928

REPRINTED FROM THE CANADA YEAR BOOK, 1931

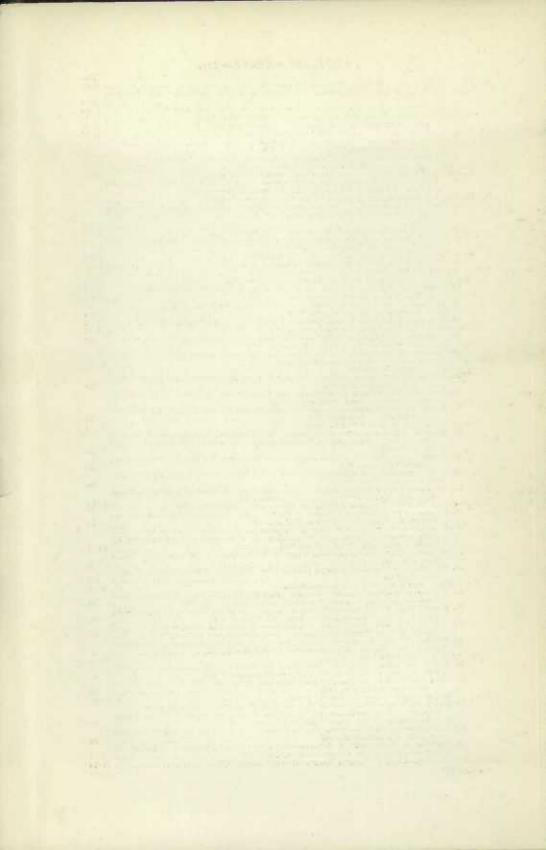
Published by authority of the Hon. H. H. Stevens, M.P., Minister of Trade and Commerce



OTTAWA
F. A. ACLAND
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1931

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### THE MANUFACTURING INDUSTRIES OF CANADA, 1928.1

Manufacture is defined as the operation of making wares from raw materials by the hands, by tools or by machinery, thus adding, in the phraseology of the economist, new utilities, and therefore additional value, to the already existing utilities and values of the raw material. Manufacture, in primitive societies and in the pioneer stages of new communities, is normally carried on within the household for the needs of the household, as was the case among the early settlers of Canada in the seventeenth and eighteenth centuries, when domestic manufactures were carried on in combination with the cultivation of the soil, mainly at the times of the year when agricultural operations were suspended. At a later period in the evolution of society, small manufactures were carried on in specialized workshops for the needs of the immediate locality or neighbourhood, as was generally the case in Eastern Canada in the first half of the nineteenth century. Later still, as a consequence of the introduction of machinery operated by steam or electric power—the so-called "industrial revolution"—and of the cheapening of transportation, manufacture has to an ever-increasing extent been concentrated in factories, often employing hundreds and even thousands of persons and producing for a national or even an international market. So far as Canada is concerned, this "industrial revolution" may be said to have commenced shortly before Confederation and to be still in progress. The growth of manufacturing production since 1870 is outlined in this article and the accompanying Table 1, while the increasing importance of Canadian manufacturing for the international market may be illustrated by the fact that Canadian exports of manufactured produce increased from less than \$3,000,000 per annum on the average of 1871-1875 to \$614,000,000 in the post-war fiscal year ended Mar. 31, 1920. Exports of "fully or chiefly manufactured" products in the fiscal year ended Mar. 31, 1929, amounted in value to \$507,170,677, and exports of "partly manufactured" products to \$195,144,120.

### Section 1.—The Evolution of Canadian Manufacturing Industries.

Early Manufactures.—The type of manufactures established in a community will in the beginning be largely determined, more especially where transportation charges are high, by the raw materials available in that community. For example, probably the first agricultural process to be carried on by Europeans in what is now the Dominion of Canada was the raising of a crop of grain at Port Royal, Nova Scotia, in 1605; the first corresponding manufacturing process was the grinding of the grain in the autumn of that year. Other early manufactures were also necessarily connected with the satisfaction of the primary needs of human beings for food, clothing and shelter, and with the other primary need for protection. At a census of occupations taken in 1681, we find enumerated a comparatively large number of tailors and shoemakers, masons and carpenters, gunsmiths and edge tool makers.

The earlier manufactures were necessarily of a rather crude and primitive type, concerned with the production of commodities which were too bulky to bear the heavy transportation charges of those days, when only one round trip

<sup>&</sup>lt;sup>1</sup> Revised by J. C. Macpherson, Chief, Industrial Statistics Branch, Dominion Bureau of Statistics. This Branch publishes individual reports on the manufacturing industries, comprising vegetable products, textiles and miscellaneous industries, also reports on the manufacturing industries generally for Canada and the provinces. For a complete list of publications of this Branch apply to the Dominion Statistician, Dominion Bureau of Statistics, Ottawa.

per year could be made between France and Quebec, and vessels were constantly subject to the storms of the North Atlantic and very frequently to the attacks of the English. Indeed, although the colonial policy of France under the old regime aimed at preventing the manufacture in Canada of any article which could be imported from the mother country, the uncertainties of transportation due to the colonial wars of the period-France and England were at war for 34 years out of the 74 years between 1689 and 1763-led to a necessary relaxation of restrictions. On the occasion of the English capture of a convoy in 1705, the colonists were driven to manufacture rough cloth out of whatever fibres they could obtain, such as the Canadian nettle and the inner bark of the basswood. Such events led to the introduction of sheep raising and the manufacturing of homespun woollens. The number of sheep in the colony increased from 1.820 in 1706 to 12,175 in 1720, 28,022 in 1765, 84,696 in 1784 and 829,122 in Lower Canada alone in 1827. This increase in sheep approximately measures the growth of the manufacture of homespun woollens. In the same year, according to census records, there were in Lower Canada 13,243 spinning-wheels, while 1,153,673 French ells of home-made cloth, 808,240 French ells of home-made flannel and 1,058.696 French ells of home-made linen were produced. In 1842 Upper Canada produced 433,527 yards of home-made cloth, 166,881 yards of home-made linen and 727,286 yards of home-made flannel and, in 1848, 624,971 yards of fulled cloth, 71,715 yards linen and 1,298,172 yards flannel. Nova Scotia in 1851 produced 119,698 yards fulled cloth, 790,104 yards non-fulled cloth and 219,352 yards flannel. Such production of homespun goods did not materially interfere with the market for the more elaborate factory-made goods imported from the United Kingdom, but supplied the daughters of pioneer families with useful work in their own homes.

In the days when ships were built of wood, Canada was advantageously situated with respect to their production. Pont-Gravé built two small vessels at Port Royal in 1606 and one at Tadoussac in 1608. Talon, in 1666, built on his private account a ship of 120 tons, and in 1672 a vessel of over 400 tons was on the stocks at Quebec. Ships were built for the French navy and for the West India trade. Under the British régime shipbuilding was conducted on a large scale in Quebec and New Brunswick, the industry reaching its climax of prosperity about 1865, when 105 Quebec-built ships with a tonnage of 59,333 were placed on the register. Thereafter iron and steel ships gradually supplanted the wooden vessels, but the forests of Canada have since provided the raw material for the pulp and paper and other important industries.

The manufacture of mineral products has been of comparatively recent date. Iron deposits in the St. Maurice region were worked as early as 1733, and furnaces set up there for smelting in 1737 were in fairly constant operation until 1883. The iron and steel used in manufacturing in Canada, as well as the coal which has supplied the manufacturing industries with power, has in the main been imported from the United States, chiefly because the principal manufacturing centres of this country in the St. Lawrence and Great Lakes region are fairly conveniently situated with regard to the coal and iron supplies of the United States and far away from the coal and iron supplies of the Maritime Provinces. In recent years the shortage of coal has been made up for by the increasing use of electric power, while the great bulk of the pig iron used in Canadian manufactures is now made in domestic blast-furnaces.

The Introduction of the Factory System.—In Canada, as in the United States and in Great Britain, it was inevitable that manufactures, carried on in the household or in small adjoining workshops, should be supplanted in the leading industries of the country by manufactures carried on in factories. A factory has been defined as "an establishment where several workmen are collected for the purpose of obtaining greater and cheaper conveniences for labour than they could procure individually at their homes, for producing results by their combined efforts which they could not accomplish separately and for preventing the loss occasioned by carrying articles from place to place during several processes necessary to complete their manufacture". Such factories began to exist in Canada in the 60's and the 70's of the last century and have now become the dominant type of Canadian manufacturing industry.

Encouragement of Manufactures by Protective Tariffs.-In all new and developing countries producing food products and raw materials in abundance, there comes, at a certain stage, a movement for working up these commodities within the country. Thus a movement to promote a rise of manufacturing industries in Canada took place in the 50's of the last century, and in 1858 the Canadian Legislature enacted a protective tariff against which English exporters of manufactured goods vehemently protested. Canada, however, claimed the right to raise her revenue in the manner which suited herself and Great Britain did not contest the point. From that day to this, there has been an element of protection in Canadian tariff legislation. For a considerable time, the protection afforded to Canadian manufacturers was described as "incidental protection". and after Confederation the tariff was reduced in deference to the low tariff sentiment prevailing in the Maritime Provinces, which were commercial rather than manufacturing communities. However, after a commercial depression which took place in the 1870's the people of Canada, at the general election of 1878. voted in favour of a higher tariff.

The policy of protection was definitely adopted in 1879, when the manufacturer was given an increase in the duty on his finished product, offset in some cases, it is true, by higher duties on his raw materials. Sugar and molasses products comprised some twelve tariff items, seven bearing a compound duty, the average ad valorem duty imposed being 26.25 p.c. On the lines of cotton goods likely to be manufactured in Canada, duties were raised from 171 p.c. to rates, specific and ad valorem, equivalent, on the importations of 1881, to 30 p.c. The duties on woollens, which were all in the 171 p.c. schedule in 1878, were practically doubled. On some of the 36 iron and steel articles enumerated in the schedule, the duties were specific, on some compound. but on the whole there was an average duty of 16.17 p.c. Pig iron, previously free, was made to pay \$2 a ton. The duty on iron billets, bars and rods was increased from 5 p.c. to 10 p.c. and 17½ p.c., while manufactured iron and steel products and machinery were given 25 p.c. to 35 p.c. protection. On coal, both bituminous and anthracite, a duty of 50 cents a ton was imposed. The average ad valorem rate of duty on dutiable imports in 1880 was 26.1 p.c. as compared with 21.4 p.c. in 1878. The maximum percentage was reached in 1889, when the rate was 31.9 p.c. By 1896 there was a slight drop in the rate to 30.0 p.c., and the declining trend continued until 1918 and 1919, when a rate of 21.5 p.c. was

recorded. In 1923 the rate was 24.9 p.c., in 1927, 24.1 p.c., and in 1930, 24.8 p.c. The average ad valorem rate of duty on all imports was 16.7 p.c. in 1923 and 15.9 p.c. in 1930. These rates are based on the gross sums collected; if the refunds and drawbacks were allowed for, the net rate of customs duty would be substantially lower.

Growth of Canadian Manufactures Prior to the War.—Until the later '90's, the growth of Canadian manufacturing industry was not particularly rapid, though the great fall in the prices of commodities during the period from 1873 to 1897 was largely responsible for the comparatively slow growth of the values of manufactured commodities from \$221,600,000 in 1870 to \$469,800,000 in 1890. Afterwards there was a change and the prices of commodities commenced to rise, while the industries generally shared in the advantages of the great growing period from 1900 to 1912. The gross product of establishments with five hands or over increased from \$368,700,000 in 1890 to \$1,166,000,000 in 1910 and to \$1,381,500,000 in 1915. The fundamental advantages of the position of Canada, her abundant raw material, her inexhaustible water power, her growing home market in the expanding West, had contributed to this result.

In the present as in the past, Canadian manufacturing production has been chiefly dependent upon the use of Canadian raw material, though this is less true than formerly. Raw cotton, for example, is imported from the Southern States, hides from Argentina, rubber from the Straits Settlements and Malay peninsula, sugar from Fiji and the British West Indies and wool from England, Australia and New Zealand, to supply the raw material for Canadian manufacturing industries.

The Influence of the War.—The influence of the war upon the manufactures of Canada was profound and far-reaching, tending to promote the diversification of products and the production at home of many commodities which had previously been imported. On account of the practical suspension of the importation of manufactured goods of many kinds from Europe, enterprising Canadian manufacturers were given opportunities of entering upon new lines of manufacture with practical control of the market. There was added to this the reflex effect of the great prosperity of agriculture, produced by the unprecedented prices of war time, with the general result that industry worked at high pressure, not only to produce munitions and military supplies for the armies of the Allies, but also to make the manifold varieties of goods required for the stimulated civilian consumption. The world shortage of staple commodities, coupled with a strong domestic demand, gave Canadian industries in general a pronounced stimulus toward greater production, and in a great number of cases the capacity of manufacturing plants was increased; this increase created a demand for greater supplies of raw material. Incidentally, factory methods became more specialized and a high degree of administrative and mechanical efficiency was attained, and Canada, partly owing to the absorption of the energies of Europe in the war, assumed a new position as one of the leading manufacturing countries of the world. The inflation of the war period also led to unprecedented figures of values produced.

The great boom in Canadian manufactures described above reached its height in the summer of 1920, statistics for that year showing a gross value of products which has not been exceeded, although when statistics for 1929 are completed they will probably show a greater value. Even the net value of manufactured products in 1920 was not exceeded until 1928. Statistics for 1921, as published in Table 1, show a great decline in values from those of 1920, which does not mean a corresponding decline in quantity of production, though a certain decline undoubtedly took place. There was also some decline in 1922, followed, however, by a general improvement during 1923. During the early months of 1924 the general outlook was good, but final statistics for that year were a little below those of 1923. The statistics for 1925, 1926, 1927 and 1928 show a steady and notable growth in both gross and net values of products and completion of the statistics for 1929 will undoubtedly show a continuance of this growth. However, the monthly reports of employers as to numbers employed would indicate that this steady expansion has been halted during 1930, owing to the world-wide recession in business which set in toward the end of 1929, with the result that Canadian manufacturing production in 1930 will probably drop back to near the 1927 level.

### Subsection 1.—Growth of Manufacturing Production in the Dominion and the Provinces Since 1870.

The growth of large-scale production in manufactures during the past half-century is evident from the statistics of Table 1, though this tendency has been less marked in Canada than in more highly developed industrial communities, with larger populations able to absorb a larger amount of standardized commodities. Even so, in the electoral district of South Toronto, the most important manufacturing centre of Ontario, the census of 1911 showed that one-half of the industrial establishments employed 90 p.c. of the workers. In the period immediately preceding the Great War many consolidations of independent manufacturing plants were effected, with large economies in the purchase of materials and in selling expenses.

The historical Table I shows fairly well the advance of the "Industrial Revolution" (which might better be called "evolution") in Canada. The average capital per manufacturing establishment, the average number of employees per establishment and the average value of product per establishment, if allowance be made for the inflation of values and generally disturbed conditions of the war period, have continued to increase. If the consolidation of industry lessens the chances of an employee becoming a master, it must also be remembered that the amounts paid to employees in salaries and wages have also increased, so that the position of the average employee has been greatly ameliorated, though the lack of statistics of Canadian retail prices before 1890 prevents any detailed comparison of the purchasing power of the average wages of the worker of 1870 and of the employee of the present time.

The Censuses of Manufactures.—The comparability of the statistics of various censuses is seriously affected by the different methods employed in census-taking. In the censuses of 1870, 1880 and 1890, all manufacturing establishments were included, the instructions to enumerators running as follows:—
"An industrial establishment is a place where one or several persons are employed in manufacturing, altering, making up or changing from one shape into another materials for sale, use or consumption, quite irrespectively of the amount of capital employed or of the products turned out. All repairs, mending

or custom work are understood to be industrial products and are to be entered accordingly, by value, in the returns of industrial establishments".

In the statistics of 1900, 1905 and 1910, however, only establishments employing five hands and upwards were included. The 1901 instructions were that no manufacturing establishment or factory was to be recognized for census purposes if it did not employ at least five persons, either in the establishment itself or as piece-workers employed outside of it. This, however, did not apply to cheese and butter factories nor to certain mineral industries. The 1911 instructions stated that every factory in operation during the whole or part of 1910, and employing five or more persons, was to make a full report. All flour mills, saw and shingle-mills, lime kilns, brick and tile works, butter and cheese factories, fish-curing plants, electric light and power plants whatsoever were nevertheless to be included. The statistics for 1915 included only establishments having an output of \$2,500 or over, irrespective of the number of persons employed, except in the case of flour and grist-mills, butter and cheese factories, fish-preserving factories, sawmills, brick and tile yards, lime kilns and electric light plants, where all plants were included.

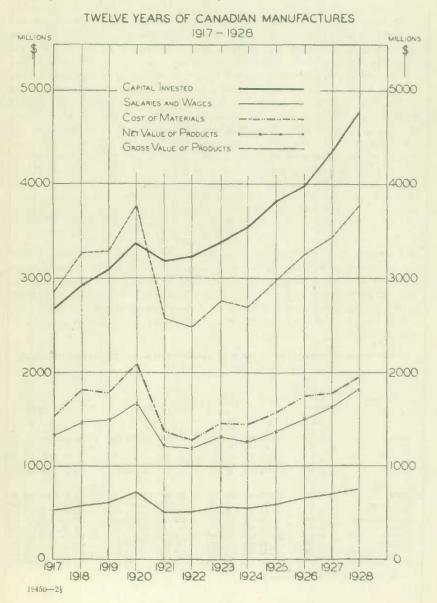
Under the Statistics Act of 1918, the policy of including mines, fisheries, manufactures and other industrial production in the decennial census was given up and an annual "Census of Industry" substituted therefor. (See First Annual Report of the Dominion Statistician, 1919, pp. 30-36.)

In the Census of Industry for 1917, the limit of output was withdrawn and all establishments reporting to the Bureau were included, the effect being an increase in the number of establishments included from 21,306 in 1915 to 34,3921 in 1917—an increase due mainly to change of method, rather than to a change in the actual number of industrial establishments existing in the Dominion, The statistics in regard to a large number of the custom and repair industries were not collected for 1922, resulting in the dropping from the compilation of the entire group of "construction, hand trades and repairs". Again, several custom industries, such as the custom clothing industry in the textile group, were not included for 1922. For 1923, again, statistics of ship- and bridge-building and of various clay products industries were collected and included for the first time, The result has been that, in order to restore the desired comparability between statistics of various years, a complete revision of all figures from 1917 to 1924 had to be made. Considerable changes have resulted, but statistics of these years are now free of all inaccuracies due to changes in methods of collection or compilation. In 1925 statistics of the non-ferrous metal smelting industry were for the first time included in the figures for manufacturing. In 1926 certain duplications in the gross revenue of central electric stations were eliminated in a net figure and the difference shown as "cost of material", while the method of compiling the number of employees was changed for 1925 and subsequent years in the following respect:-the yearly average of employees for each estalishment was computed by dividing the sum of employees reported in each month by the number of months in operation instead of, as formerly, by 12 whether the industry was seasonal and only operated part of the year or not.

The subsequent decision to omit the group of "construction, hand trades and repairs" from the census of manufactures, together with other less important changes, accounts for the reduction of the number of manufacturing establishments in 1917, as appearing in Table 1, to 22.838, a comparable figure with the 23,379 establishments recorded in 1928.

These changes have created a slight incomparability with the statistics for the preceding years.

Censuses of Manufactures in Recent Years.—The census of manufactures has been taken annually since 1917 by the Dominion Bureau of Statistics, instead of quinquennially as theretofore. The last of the quinquennial censuses was taken in 1916 for the calendar year 1915, and annual censuses have been taken in the years from 1918 to 1930 for the years 1917 to 1929.



In any comparison between the results of the 1915 quinquennial census and the subsequent annual censuses, the rapid rise and fall in prices must be borne in mind, and in comparisons between these annual censuses themselves the same factor must be taken into account. Thus, the new Canadian weighted index number of wholesale prices, compiled by the Dominion Bureau of Statistics, with 1926 as a base, was 155.9 in 1920, as compared with 133.9 in 1919, 127.4 in 1918, 114.3 in 1917 and 70.4 in 1915. In 1921, however, there was a great decline to 110.0-a decline of approximately 29.4 p.c. from the preceding year. Under such circumstances, it was inevitable that up to 1920 phenomenal advances in the money value of manufactured products should have been recorded, and that wages and salaries paid should also have greatly advanced since 1915. It was equally inevitable that in all these respects 1921 should show a great decline, due in much larger measure to the fall in values than to the decrease in the volume of production. In 1922 the index number showed a further drop to 97.3, but afterwards there was a rise from 98.0 in 1923 to 99.4 in 1924 and 102.6 in 1925. In 1926, 1927, 1928 and 1929, however, there was a drop again to 100-0, 97.7, 96.4 and 95.6 respectively, this last being the lowest figure since 1916. This would indicate that the comparatively small decline in the gross production of manufactured goods in 1922 was entirely due to declining values and that the increased production of 1923 resulted from larger quantities, the slight recession in 1924 being due to lessened volume. The 1925 total was swelled by increases in both values and volume, while gross production in 1926, 1927 and 1928 showed large increases in spite of a definite decline in price levels. (See Table 4.)

In Table 1 are presented statistics showing by provinces the development of Canadian manufacturing industries during the 59 years from 1870 to 1928. Particularly notable is the increase in the manufactures of British Columbia from \$2,900,000 in 1880 to \$271,000,000 in 1928 and of Manitoba from \$3,400,000 in 1880 to \$159,000,000 in 1928. Saskatchewan also shows an increase from \$2,400,000 in 1905 to \$59,000,000 in 1928 and Alberta from \$5,000,000 in 1905 to \$101,000,000 in 1928. Thus the West is rapidly becoming an important contributor to Canadian manufacturing production.

1.—Historical Summary of Statistics of Manufactures, by Provinces, 1870-1928.

(All establishments irrespective of the number of employees.)

Province.	Estab- lish- ments.	Capital.	Em- ployees.	Salarios and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products,
Canada Nova Scotia New Brunswick Quebec Ontario	No. 41,259 4,912 3,479 13,818 19,050	\$ 77,984,929 6.041,986 5,976,176 28,071,868 37,874,010	15,595 18,352 66,714	\$ 40,851,003 3,176,266 3,869,360 12,389,673 21,445,710	\$ 124,967,846 5,806,257 9,431,760 44,555,025 65,114,804	\$ 98,709,927 6,531,848 7,935,927 32,650,157 49,591,995	77, 205, 182
1880. Canada P. E. Island. Nova Scotia New Brunswick. Quebec Ontario Manitoba Bettish Columbia	49,722 1,617 5,493 3,005	165,392,623 2,085,776 10,183,060 8,425,282 59,216,992 80,950,847 1,383,331 2,952,835	254,935 5,767 20,390 19,922 85,673 118,308 1,921	59, 429, 607, 208, 4,098, 445, 3,866,011, 18,333, 162, 30,604,031, 755,501, 929, 213	10,022,030 11,060,842 52,563,967 91,164,156 1,924,821	1.570,998	18,575,326 18,512,658 104,662,258 157,989,870 3,413,026

See note at end of Table 1 on page 15.

### 1.—Historical Summary of Statistics of Manufactures, by Provinces, 1870-19281-con.

(All establishments irrespective of the number of employees.)

Province.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1890.	No.		No.	\$	8	8	\$
finesada	75,964	353,213,000	768 585	100, 415, 350	270 750 202	210 000 584	169,847,886
Canada P. E. Island Nova Scotia	0 670	0.011.000	7 010	1 101 100	0 (00) (07	219,088,594 2,253,843	1 215 010
F. Fr. 1818BG	2,679	2,911,963 19,730,736	7,910	1,101,620 7,233,111	2,492,067	2,205,846	4.345,910
Nova Beotta	10,495	19,730,730	34.944	4,233,111	16,062,479	14,995,913	30.968,392
New Brunswick	5,429	15,821,855	26,675	5,970,914	12.501,453	11,348,202 66,747,087	23,849,655
Quebec	23.034	116,974,615	116,753	30,461,315 49,730,359	80,712,496	66,747,087	147.459,583
Cintario	32.151	175,972,021	166,322	49,730.359	127,737,371	111,504,555	239, 241, 926
Ontario Manitoba	1,031	5,684,237	4,403	1,905,981	5,688,151	4,467,031	10, 155, 182
British Columbia.	770	14,404,394	11,507	3,586,897	5, 119, 258	6,880,670	11,999,928
The Territories	375	1,713.179	E.081	425, 153	846,017	981,293	1.827,310
1890.		(	Establish	ments with five	hands and or	er.)	
Canada:	14,965	-	272, 633	79,234,311	- 1	_	368,696,723
1900.				4			
Canada	14,650	446,916,487	339,173	413,249,350 445.998	266,527,858	214.525,517	481,953,375
P. E. Island	334	2.081.766	3.804	445.998	1,319,058	1,007,650	2,326,708
P. F. Island Nova Scotia New Brunswick	334 1.188	34,586.416	21,284	5,613,571	13, 161, 077	10,431,436	481,953,375 2,326,708 23,592,513
New Brunswick	919	20,741,170	22, 158	5.748,990	10,814,014	10, 138, 456	98. 979. 470
Quebec	4.845	142, 403, 407	110,329			71,608,215	
Ontario	6,543	142,403,407 214,972,275	161,757	56,548,286	138, 230, 400	103, 303, 086	241,533,486
Manitolm	324	7,539,691	5,219	2,419.549	7,955,504	4,971,935	
Manitoba	444	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V 1 W 1 U	-1101010	1,000,001	1,011,000	10,001 [ 170
Saskatchewan	105	1,689,870	1.168	465,763	1 121 240	843.045	1,964,987
British Columbia	392	22,901,892	11,454	5,456,538	1,121,342 7,246,684	12,201,094	19,447.778
Filtren Commun.	992	25,001,005	11,709	0,400.000	1,240,009	12,201,099	17, 171,113
1905.							
Canada P.F. Island Nova Scotia New Brunswick	12,547	833, 916, 155	33/3 920	162, 155, 578			708,446,578
P E Jahard	222	1 552 916	0 770	JEH 015			4 (0)6 (50)
North Martin	223 720	1,553,916 74,599,538	2,770 23,754	0 120 271			21 (197 440
Now Haungwiel	531	26,461,664	19,170	409,915 9,139,371 6,497,161	-	-	1,696,459 31,987,449 21,833,564
Charleso	4,115	251,730,182	110.748	46,514,619		-	216, 478, 496
A CHEST PER	3,110				_	-	210,470,490
Ontario Mantoba	6,163	390,875,465					361,372,741 27,857,396
MILLITORNA	280	27,070,665	10,113	5,800,707	-	_	27,857,390
Saskatchewan	55 97	3,820,975	1,376 1,983	681.381		-	2,443.801
Alberta	97	0,400,011	1,3630	1.129.272			4,979,932 37,796,740
British Columbia.	363	52,403,370	23.480	11,253,263	-		37,796,740
1000							
1910.		4 840 800 000					
Canada	19,718	1,247,583,609	\$15,203 3,762 28,795 24,755	241,008,416	661,509,018	564,466,621	1,165,975,639
P.E. Island	442 1,480	2,013,365 79,596,341	3,762	531.017	1,816,804	1,319,666	3,136,470 52,706,184 35,422,302 350,901,656
Nova Scotia	1,480	79,596,341	28,795	10,628,955	26,058,315	26, 637, 869	52,706,184
New Brunswick	1,158 6,584	36, 125, 012	24,755	8,314.212	18,516,090	16,906,206	35,472,302
	0,084	326,946,925	108.207	69, 432, 967	184,374,053	166, 527, 693	350,901,656
Unthrio	8 (8)1	595,394,698	238.817		297,580,125	282, 230, 100	579,810,225
3116112103006	439	47.941.540	17.325	10.012.866	30,499,829	23, 173, 780	53 673 600
Saskatchewan	173	7,019,951	3,250	1,936,284	2,747,266	3,584,866	6,332,132
Alberta	173 290	7,019,951 29,518,346 123,027,521	3,250 6,980	1,936,284 4,365,661	9,998,777	8,790,048	18.788.825
Alberta British Columbia	651	123.027.523	33,312	17,240,670	29,917,753	35,286,483	65,204,236
			00,010	11,010,010	4010111100	001000, 800	00,203,800
1915.							
Canada <sup>3</sup> P.E. Island Nova Scotia	15,593	1,958,705,230		283,311,505	791,943,433	589,603,792	1,381,547,225
P.E. Island	261	1,841,690	-	543.954	1,490,066	1,087,757	2,586,823
Nova Scotia.	. 781	125,754,562		17, 175, 818	1,490,066 36,194,004	33, 151, 815	2,586,823 69,345,819
New Brunswick	630	1,841,690 125,754,562 45,070,488		543.954 17,175,818 8,767,230 80,324,171	21 314 643	15 080 257	37 303 BOO
Quebec	5,743	530,312,464		80 324 171	21.314,643 213,754,115 410,670,537	167 440 994	37,303,900 381,201,999 715,531,839
Ontario	6.538	946,619,114		140,609,691	410 670 527	304 861 200	715 531 920
Ontario Manitoba	499	94, 690, 750		13,389,569	38,529,386	21,952,060	66,481,446
Saskatchewan	238			2,440,062			
Allageta		JI 100 800		4 704 900	7,417,166	5,938,040	
Alberta	621	41,198,897 157,580,405	_	4,791,281 15,269,729	20,660,967 41,864,549	8,716,254 30,457,423	29,416,221
	1	101,000,4181		40, 400, 720	11.009.040	30. 307. 325	72.321.972
1917.		(All estab	lishments	irrespective a	thenumber of	employees.)	
Canada	22,838.	2,696,151,030	621,694	589, 382, 622	1.531.092.4163	1 222 180 262	2,873,268,483
Canada P.E. Island	418	2.225.482	1.588	683, 149	3 088 719	1 816 094	4 005 704
Nova Scotia	1.387	128 052 220	25.814	19,177,657	109 456 OPE	1.816,986 58,751,437	4,905,704 161,207,522
New Brunswick	087	128,052,239 64,010,777	20,201	13 100 740	20 106 040	00, 101, 137	80 400 022
Ouches	987 7, 193	793,589,489	101 000	149 001 000	32,466,048 385,486,685	27,996,000	60,462,048
Quebec	9,471	1 200 175 200	191,969	984 440 302	300, 480, 685	390,039,187	782,026,472
Ontario	0,9/1	1.302.675, 630	306,270	17 201 073	190,090,511	085,083,815	1,480,159,356
AIRITEODA	816	95,530,452	20,055	11,381,500	09,884,850	45,062,533	114,947.383
PORKREPHOVERS .	633	30,096,623	6,846	5,906,150	22,093,445	15, 529, 428	114,947.383 37,622.873
Alberta British Columbia	720	69, 552, 814	10,191	9.323,221	795,095,511 69,884,850 22,093,445 42,725,021 87,764,650	26, 105, 121	68, 830, 142
Dritish Columbia.	1,202	215, 681, 355		35,804,308	87,769,650	74,978,844	162,743,494
Yukon	11	3,739,169	71	118,801	26, 403	336,786	363,189
tibus make at and a	restant						

See note at end of Table 1 on page 15.
These statistics are not available by provinces.
For 1915 the number of employees in establishments employing 5 bands and over has not been compiled.

### 1.—Historical Summary of Statistics of Manufactures, by Provinces, 1870-1928 -con.

(All establishments irrespective of the number of employees.)

	Waterlands.			Salaries	Cost	Net	Gross
Province.	Estab-	Capital.	Em-	and	of	Value of	Value of
A tovince.	ments.	Coprosti	ployees.	Wages.	Materials.	Products.	Products.
1918.	No.	S 494 H45 494	No.	E09 457 400	5 1,829,049,369	1 460 799 777	2 240 261 116
P.E. Island	22,910 390	2,926,815,424 2,606,886	618,305 1,266	670,093	3,354,829	1.737,195	5,092,024
Nova Scotin	1,357	126, 563, 220	23, 909	20,475,961	89,667,282	57,838,599	147,505,881
New Brunswick	909	72,783.311	18,443	13,338,342	55 555 687	32, 231, 038	65,454,022
Quebec	7,350	833,095,963	190,646	163, 483, 036	454.373.411 974.277.838	420,651,473	875,024,884
Ontario	9,701	1,460.384,037	307,283 20,289	300, 963, 759	974,277,838	760, 245, 667 45, 096, 245	1,734,523,505
Mangoba	786 577	96.382,644 35,435,976	6,348	19,740,123 6,705,910	88,545,136 -28,394,364	15,900,874	133,641,381 44,295,238
Saskatchewan	638	58.284,599	8,457	8,857,536	53, 159, 734	24, 747, 604	77, 907, 338
British Columbia.	1,188	237, 845, 059		48, 119, 819		102,038,534	206, 062, 491
Yukon	14	3,633,729	59	102,909	20,834	236,548	257,382
1919.							TAG F-17
Canada	23, 249	3, 095, 025, 799		618, 463, 139	1,780,629,840	1,509,870,745	3,790,400,383
P.E. Island	1,392	2,462,324 126,072,240	1,295 23,437	789,382 19,992,903	4,005,474 71,100,630	2.225,391 57,179,576	6,230,865 128,280,206
Nova Scotia New Brunswick		87,428,854	22, 262	17,710,448	51,643.683	43,647,725	95,291,408
Quebec	7,551	906, 421, 665	186, 202	172,373,664	496,716,322	438,879,496	935, 595, 818
Ontario. Manitoba	9,626	1.516,458,331	291,740	304,314,318	894,055,235	732,279,292	1.626.334.527
Manitoba	777	101,709,099	21,963	24, 528, 624	83,948,482	50,330,559	134, 279, 041
Saskatchewan	625 664	30,035,353 60,233,769	7,240 10,802	8,789,389	32,167,014 52,885.069	19,038,862 34,039,386	51,205,876 86,924,455
Alberta	1,263	260, 652, 116	46,034	12,837,805 57,067,542	94,091.505		226, 186, 783
Yukon	1,200	3,552,048	33	59,064	16, 426	(55, 260	171,686
Yukon							
Canada	23,351	3,371,940,653	609,586		2,085,271.648	1,686,978,108	3,772,250,057
P.E. Island Nova Scotia	384 1,388	2, 734, 719 141, 549, 856	1,327 23,834	888, 121 26, 127, 781	4, 164, 223 85, 724, 785	2.221.746 63.271.708	6,385,969
New Brunswick	928	105,671.688	19, 241	19,505,048	69,812,641	46,910,631	148,999,493 107,723,272 1,071,251,645
Quebec	7,677	1,028,226,105	186,308 300,794	205.829.155	553,558,520	517, 693, 125	1,071,251,645
Untario	9,473		300.794		1,071,843,374	822,570.783	1,894,414,151
Manitoba,	773 639	112,896.616	24,481	33,357,872 10,249,392	92,729,271 34,894,105	65,492,637 24,655,529	158,221,908 59,549,634
Saskatehewan	722	31,727,162 61,063,132	7,182 11,387	15,903,609			
Alberta	1 44	01,000,102	11,001	117, 000, 000	00,100,010	06, 100, 750	00,000,018
and Yukon	1,367	219,991,887	35, 132	50, 413, 414	125, 405, 084	111,692,821	237.097.905
1921.	00.001	2 400 500 220	410 000	240 207 102	I BUT DOD FOT	4 200 142 244	D 276 007 000
Canada P.E. Island	22,235 339	3,199,026,358	456,976 893	522, 488	2.516,415	1,356,940	2 878 355
Nova Scotia	1,208	105 254 364	14,521	14,400,509		36,384,726	3,873,355 77,484,561
New Brunswick	2504	99 204 701	12,441	10,678,721	32, 151, 631	23, 193, 562	55,345,193
Quebec	7, 173	981,177,681	146,763	151,474,436	390,119,293		
Ontario	9.328	1,613,486,222	228,943 14,851				1,329,984,940
Manitoba Saskatchewan			4,343	19,945,727 5,677,449	25.589.403	15.092,337	40,681,740
Alberta	709	55,685,908	8,227	10.072.714	33,912,502	26, 152, 276	60.084.778
British Columbia	1						
and Yukon	1,236	209, 309, 521	25,094	33,951,397	76,093,617	74.396,795	150, 490, 413
Canada	22,541	3,244,302,416	474,430	510 431 915	1.283.774,723	1.195.434.402	2,482,209,130
P.E. Island	352	2,946.329	1,127	628,540			4,409,012
NOVE SCOURS	1,100	106,647,616	14,286	12, 192, 652	38,093,168	29,985,794	1 67,988,962
New Brunswick	897	82,230,895	14,351	12,201,014		26,821,281	64,880,657
Quebec	7,410	970,019,442	147,952	144,368,667 275,559,000		370, 276, 067	708,029,041 1,296,499,503
Ontario Manitoba	9,388	1,696,738,996 88,779,513	243,297 14,188			41,326,416	95.957 084
Saskatchewan	614		4.196	5, 618, 174		16,357,481	95,957,084 38,807,532
Alberta British Columbia	672		7,461	9,493,543			53,119,486
British Columbia	4 (54.4	A40 000 000	3	00 000	01 000 45		
and Yukon 1923.	1,264	210,323,379	27.572	32,095,70	81,203,970	71,313,880	152,517,850
f lamada	22,642	3,380,322,950	525,267	571,478,029	1,470,140,139	1,311,025,375	2,781,165,514
P.E. Island	368	2,821,440	2,745	626,693	2,768,092	1.696,729	4.462,821
NOVIL SCOUR	1, 193	106,947,430	17,179	13, 226, 378	50, 103, 942	31,880,900	81,984,848
New Brunswick	872 7, 142	84,563,968	16.221	12,868,164	40,181,251	29,932,755	70,114,006
Quebec	9,549		163,622 262,770	160,356,085 307,866,314	396,714,471 779,943,613	1 414,388,925 6 671 939 695	811, 103, 396 1,451,883,308
Ontario	803						
Maskatchewan	04/	29,891,835	4.105	5,384.958	19,333,620	15,004,191	34,337,811
Alberta	723		8.767	10,633,705	31,612,377	22,725,424	54,337,801
British Columbia	1 242	916 610 076	25 040	20 110 054	02 511 696	92 005 010	175 808 000
and Yukon	1,345	216,619,970	35,042	38.113.250	93,511,680	82,090,312	175,606,992

<sup>1</sup>See note at end of Table 1 on page 15.

### 1.—Historical Summary of Statistics of Manufactures, by Provinces, 1876-1928:—con.

(All establishments irrespective of the number of employees,)

	Route to 1			Salaries	Cost	Net	Gross
70 4	Estab-	63 14 3	99				
Province.	lish-	Capital.	Em-	and	of	Value of	Value of
	ments.		ployees.	Wages.	Materials.	Products.	Products.
1924.	No.	5	No.	8	\$	8	8
	22,178	3,538,813,460		350 RRI 015		1,256,643,901	2 695 052 582
Canada		2,637,844	2.271	548,496			
P.E. Island	313		10.004				
Nova Scotia	1,166	108,535,273	16,091	11,553,900		25,642,358	
New Brunswick	846.	88,357,818	15,805	12,812,718	40,503,685	26,952,341	67, 456, 026
Quebee	6.847	1,044,113,969	161,652	162,379,284	385,880,826	390,351,418	776.232,244
Ontario	9,453	1,836,269,551	252,596	296.508,913	754, 469, 838	643, 403, 906	E,397,873,744
Manitoba	768	110,011,602	14,778	18,706,742	59,036,763	43,215,250	
		30,269,547	4, 151	5.544.416	22, 179, 147	14.134,784	36,313,931
Saskatchewan	645						
Alberta	739	67,565,979	8, 150	10,709,140	39, 102, 975	26.142,386	65,245,361
British Columbia							
and Yukon	1,401	251,051,877	33,007	41,120,436	96,024,315	85.361,982	181,386,297
1925.							
Canada	99 991	3,808,309,981	544 995	586 815 121	1,587,665,408	1 200 979 987	2,948,545,315
It is baland	318	2,576,677	544.223 2,317	572,130		1,484,484	4,290,149
F.E. Island		117 206 401	18 500	10 000 100	7" 054 100	97 170 505	45 000 701
Nova Scotia	1,184	117,326,491	16,568	12,082,693			65.033,701
New Brunswick,	861	91,509,933	17,275	14,430,252		28,488,369	
Quilbec	6,995	1,136,033,133	168, 245				
Ontario	9,386		-262.483	307,304,007	828,939,668		1,527,154,660
Manitoba	769	126, 362, 238	20,023	25,280,173	71,683,113	52,462,650	124,145,763
Saskatchewan	650	31,607,896	4.402	5,755,629	24,353,581	15,739,692	40,093,273
Alberta.	734	69,805,848		11,785,604	45,855,910		75,113,517
British Columbia	101	0010001030	2.003	22,100,002	10,000,010	40, 801,001	*********
	1 40 4	313, 494, 283	43,548	10 110 000	**** NDC 000	00 010 077	Old one one
and Yukon	1,434	010,484,400	40,040	49,112,628	118,826,980	99,948,855	218,775,835
8000							
1920.							
Canada		3,981,569,590	581,539			1,492,645,039	
I'.E. Island	299	2,850,010	2,261 16,782	690, 403	2,638,244	1,431,091	4.069,335
Nova Scotia	1,163	118,050,902	16,782	13,014,707	39,686,139	33.819.593	74.505,642
New Brunswick	910	95,661,154	17,674	14,609,734	44,535,406	29,586,833	74, 122, 239
Quebec	7,164			189,326,145			905, 300, 824
Chitario	9.457	1,985,165,921	280.353	335, 164, 239			1,677,933,504
Monitolon	797	127, 145, 924	21,201	26,973,850	75.588,993	57,129,459	132,718,452
Manitoba			1.001				102,110,102
Saskatchewan	674	33,943,060	4,904	6,397,545	29, 142, 700	17,965,397	47,108,097
Alberta.	749	72,468,286	10,233	12,808,554	50,192,669	33,232,962	83,425,631
British Columbia							
and Yukon	1,495	329,308,375	47,462	54,865,756	140, 191, 084	109,428,630	249.619,714
1927.							
Canada P.E. Island	22,936	4,337,631,558	618,933	693, 932, 228	1,789,574,604	1,635,923,936	3,425,498,540
P.E. Island	291	3.081.504	2,232 17,864	687,849	2,855,438	1,638,190	4,493,628
Nova Scotia	1,190	128, 155, 040	17 864	13.610.944	42,059,320		74,458,297
New Brunswick	872	99, 087, 327	18,970	14,999,101	42,780,582	29,886,081	72,666,665
Charles Harris K		1,376,654,019		17,000,101	121 301 000		
Quebee	7,206		196.094	203.724,997	474,361,396	010.221,099	980,582,995
Untario	9,512	2.134.181.377	296.034	355, 174, 773			1,758,004,575
Manitoba	859	151,373.047	23,031	28,934,926	79,510,766	62,578,912	142,089,678
Saskatchewan	721	38,387,248	5,683	7,280,945	32, 165, 027	20,015,654	52, 180, 681
Alberta	776	81,664,730	11,285	13,511,359	50,611,021	34,376,296	84,987,317
British Columbia							
and Yukon	1,509	325,047,266	47,740	56,007,334	125, 358, 489	120,676,215	246,034,704
**************************************	.1000	GEGIDALINGO	22 ( ) 400	1741,5001,1441	120,000,100	120,010,210	210,001,101
1928.							
	23,379	4,780,296,649	658,023	755 186 779	9 000 004 996	1,819,046,025	9 769 976 984
Canada			0.005				
P.E. Island	277	3, 121.568		712,945		1.697,868	4,445,160
Nova Scotia	1,167	138,809.331	19,222	15,838,394	44,168,441	40,780,167	84,948,008
New Brunswick	794	114,660,886		14,682,510	39,750,561	27,663,181	
Queber	7.231	1,583,350,884		217,887,481	510,580,872		1,073,162,291
Ontario	9,900	2,275,921,056		391.375.947	1,034,501,240	915, 222, 870	1,949,724,119
Manitoba	871	159,721,124	25, 160	32,569,223	88,284,693	71,150,401	
Saskatchewan	737	44,622,135	6,173	8,003,577	34.186.731	24,938,549	59,125,280
Alberta.	778	92, 190, 476	12,827	15,403,292	59,398,697	41,345,704	100,744,401
British Columbia	1 004	0.00 000 000	10 040	FD 700 000	400 40E 040	**** ***	070 001 000
and Yukon	1,624	367,898,589	48,949	58,726,003	137, 185, 812	133, 665, 857	270,851,669
-							

\*Statistics of the construction, and custom and repair industries have not been collected since 1921; the figures for these industries for 1917 to 1921 have consequently been dedicted from the totals as previously published. The industries excluded comprise custom clothing, dyeing and laundry work, boot, jewellery, automobile and bieyele repairing, blacksmitting, and custom and repair work by foundries. Statistics of the non-ferrous metal smelting industry were included in manufactures for the first time in 1925. The introduction in 1926 of the ness of the gross and net revenue of the Central Electric Station industry as gross and net production and the inclusion of the difference with "cost of materials", impairs the comparability of 1926 and later figures for the "cost of materials" and "net value of products" with those of earlier verse. earlier years.

### Subsection 2,-Twelve Years of Manufacturing in the Industrial Groups.

The commodities required of the manufacturers of a country in time of war differ considerably from those needed in time of peace. Thus, while under the stimulus of inflated values, manufacturing as a whole reached a peak value of gross production in 1920, not exceeded until 1929, the "iron and its products" group reached a high point of gross production in 1918, the last year of the war. The "chemicals and allied products" group reached its greatest development under war conditions, when the value of gross production was twice as great as in 1928. On the other hand, the central electric station industry has shown rapid and consistent growth, uninterrupted by changes from war to peace conditions or the consequent drastic changes in price levels, throughout all the years from 1917 to 1928 covered by this record. In the 12 years the gross value of production by this industry has risen from \$44,500,000 to \$143,700,000, while the capital investment has grown from \$356,000,000 to \$957,000,000. The "nonferrous metals" group has also shown striking progress since the war. The statistics for this group are not comparable throughout the 12 years, owing to the fact that the non-ferrous metal smelting and refining industry was included for the first time in 1925. But the gross production of the group in 1924, the last year before the smelters were included, almost equalled that of the peak year 1920, while since 1925 the expansion has been very rapid.

### 2. Summary of Statistics of Manufactures, by Industrial Groups, 1917-1928.

(All establishments orrespective of the number of employees

Industrial Group.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1017	No.		No.	8	\$	8	8
Totals.	27,838	2,696,154,030	621,694	580 282 027	1,541,087,416	1 222 140 262	4 079 900 tub
Totals	3,816	274.722.765	61.288	44,780,329	365, 483, 923		546,556,088
Animal products	5,486	207,165,245		35,753,133	320, 102, 039	124, 103, 990	
Textile products	1,360	196,823,197	82.639	51, 189, 060		115.739.096	248, 218, 859
Wood and paper	7.255	537.731, 225		115, 137, 384	149, 927, 482	248, 986, 564	
Iron and its pro-	0, 200	001.103, 220	100,701	140, 101,1103	110,021,000	240, 1100, 1104	0,00,000,000
ducts	1.404	634.642.989	142,416	140,334,255	357, 688, 333	334,616,810	692, 305, 143
Non-ferrous metals.	296	69, 421, 911		15,898,890		41,039,351	
Non-metallic min-	200	001201011	-0,000				01,101,020
erals	1,410	150,328,144	22,284	19,360,952	38,724,530	60,802,754	99,527,284
Chemicals and	-,,,,,,						
allied products	539	175,836,690	56.153	51,505,484	99,068,092	131,381,905	230, 450, 087
Miscellaneous in-							
dustries	606	93, 477, 698	29, 102	27,644,825	30,967,785	49,901,216	80,869,001
Central electric							
stations	666	356,004,168	8,847	7,777,715		44,536,848	44,536,848
1918.							
Totals.	22,910		618,305		1,829,848,369		
Vegetable products.	3,824	310,556,340		49,788,771	409,813,120		
Animal products	5,493			40,970,545			
Textile products	1,394			54,754,968		137.903,308	
Wood and paper	7,281	599,594,273	150,732	130,348,989	168, 154, 574	282, 110, 061	450, 264, 635
Iron and its pro-					000 001 400		
ducts	1,397	631,390,223	127,248		393, 204, 670		
Non-ferrous metals.	286	78,075,726	17,741	17,635,814	40,988,990	38,406,413	79,395,403
Non-metallic min-			00 010	00 107 050	Ed 241 400	20 may 000	110 000 007
erals	1,264	168,367,861	20,940	20,497,078	56,541,480	56,791,607	113,333,087
Chemicals and	204	100 010 007	84 901	00 711 241	178 997 402	15= 000 >00	996 750 610
allied products	534	162,912,627	56,391	66,741,341	178,227,423	157,923,196	336, 150, 619
Miscellaneous in-	0.40	142 947 000	25 050	43,004.106	50,807,069	84, 521, 557	135, 328, 626
dustries Central electric	642	115,347,828	35,956	43,004.100	00,007,008	07,041,007	100,000,020
stations	795	401,942,402	12,873	10.354,242	_	53,449,133	53,449,133
SULTOUS,	1,80	101,342,402	12,010	10,001,614		1 30,110,103	00,110,100

See note at end of Table 1 on page 15.

### 2.—Summary of Statistics of Manufactures, by Industrial Groups, 1917-1928!-continued. (All establishments irrespective of the number of employees.)

	Estab-			Salaries	Cost	Net	Gross
Industrial Group.	lish-	Capital.	Em-	and	of	Value of	Value of
andustrial Group.	ments.	Cupites.	ployeus.	Wages.	Materials.	Products.	Products.
	No.	S	No.	8	\$	S	8
Totals	23, 249	3,095,025,799			1.788,629,841	1 500 U70 745	
Vegetable products.	3,164	336,730.801			497.887.117		697, 672, 132
Animal products	5,433	242,003,094			401, 105, 903		543, 428, 464
Textile products	1.524	257,860,265	87.275	69,661,851	213.282.721	163,841,996	
Wood and paper	7.623	707,052,570	166, 176	157, 240, 646	215, 115, 868	359,322,951	574,438,819
Iron and its pro-	1,523	611.291,790	129, 157	162,103,816	249,399,965	348,540,736	597,940,701
Non-ferrous metals.	311	80,288,911		18,338,421		38,113,823	71,507,362
Nun-metallic min-							
ernls	1,048	201,452,109	22,852	25,443,422	64,768,623	63,111,247	127,879,870
Chemicals and allied products	406	106, 110, 959	14,719	15, 255, 350	45,399,080	49, 168, 100	94,567,160
Miscellaneous in-	100	100, 110, 808	84,250	10.200,000	10,000,000	70.100,100	84,001,100
dustries	612	135,723,230	39,808	45, 677, 430	60.276.844	88, 177, 858	148, 454, 702
Central electric sta-	000	110 010 010	0 504	45 102 103		P	P7 100 100
tions,	805	416,512,010	9,761	11,487,132		57,486,458	57,486,458
1920.							
Totals	23,351	3,371,949,653	609,586	732,129,385	2,0%5,271,649		
Vegetable products.	4,219	394, 123, 233	72,380 48,687	75,695,530	532, 484, 195	234,317,527	766,801,722
Animal products	4,823 1,304	221,792,457 302,758,185				152,995,130 173,741,035	
Textile products Wood and paper	7,867	772,086,812		171,610,460			724,066,508
Iron and its pro-							
durts	1,690	642,904.322	146,204	205,414.599	349,642.666	365, 473, 097	715, 115, 763
Non-ferrous metals. Non-metallic min-	324	109,382,033	23,162	27,895,343	48, 434, 120	52,847,178	101,281,298
erals.	1,176	223,541,735	27,361	34, 406, 423	74,200,407	85,216,316	159, 416, 723
erals							
allied products	464	122, 123, 730	17,653	22, 193, 421	62,644,608	65, 183, 212	127,827,820
Miscellaneous in- dustries	865	134.954,504	31,985	41,552,885	52,853,767	75,715,577	128,569,344
Central electric sta-							
tions	819	448, 273, 642	10,693	14,626,709	-	65,705,060	65,705,060
1921.							
Totals	22,235	3, 198, 026, 358	456,076	518, 285, 137	1,366,893,685	1,209,143,314	2,576,037,029
regetable products,	3,946	360,945,194	61,161	63, 130, 893		205,448,326	569.573.721
Animal products	5,051	200,697,527	45,726	48, 124, 667	267,878,165	111, 534, 101	379.412.266
Textile products Wood and paper	1,627 7,152	260, 158, 327 775, 207, 859	76,379 111,322	71,321,283 431,089,861	164, 139, 109 203, 856, 170		
Iron and its pro-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	110,501,000	211,000	401,000,000	200,000,110	200,200,000	101.110,100
lucts	1, 138	575,680,424		98, 363, 983	194,725,179	187, 672, 905	
Non-ferrous metals.	344	104,079,490	17,936	22,692,784	31, 439, 989	41,149,894	72,589,883
Non-metallic min-	1,075	209,641,529	24,393	28,374,655	67,780,080	75, 278, 296	143,058,376
Chemicals and		500,011,020	- 27,1790	1010111000	511.001.000	10,010,000	200,000,010
allied products	468	118,382,642	12,571	16, 192, 457	43, 108, 870	45, 495, 135	88,604,005
Miscellaneous in-	577	100,563,915	18,794	24,259,876	29,842,728	44,894,581	74,737,309
dustries Central electric sta-	011	100,000,810	10, (19.2	21,209,070	20,042,120	34,032,081	14,101,009
tions	857	484,669,451	10,714	15,234,678	-	73,636,094	73,636,094
Totals	22,541	3,244,302,410	474,430	510 431 319	1.283,774,723	1.198.434.407	2.447.209.128
Vegetable products.	4,356.	371.361.682	63,217	64, 424, 922	330,589,052	206,946,749	537,535,8 11
Animal products	5,118	201.829.414	49.595	49,933,679	204,078,631	107, 473, 382	371.552.915
Textile products	1.709	268.065.238	88, 018	76,224,361	153,066,593	155.493,510	308, 560, 103
Wood and paper Iron and its pro-	6,983	761, 188, 396	118,462	132,084 914	206,682,820	283, 131, 962	489,814,782
ducts	1,040	526, 109, 953	74.588	90,605,157	168, 282, 265	163,302,638	331,584,903
Non-ferrous metals.	325	102,208,275		21, 451, 629		39,993,798	70,855,693
Non-metallic min-	1 000	000 001 101	00 400	07 004 410	HE 925 0-0	700 p. 4 400	111 000 101
Chemicals and	1.095	238.691.461	22,468	27, 204, 642	63.377,262	77,911,159	141,288,421
allied products	469	118,025,483	14,082	16,770,503	47,039,926	48,904,259	95.944,185
Miscellaneous in-							
Control electric etc	542	88,753,756	15,064	17, 236, 255	19,796,279	32,948,084	52,744,363
Central electric sta- tions	905	568,068,752	10,684	14,495,250		82,328,866	82,328,866
·1040,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	500	500,000,102	10,003	17,700,200		02,020,000	02,000,000

See note at end of Table 1 on page 15.

19450-3

### 2.—Summary of Statistics of Manufactures, by Industrial Groups, 1917-1928—continued.

(All establishments irrespective of the number of employees.)

	(2200 000	and the same of the same	on positive s	2, 1110 141111111111111111111111111111111	o, mproger	.,	
	Estab-		Em-	Salaries	Cost	Net	Gross
Industrial Group.	lish-	Capital.	ployees.	and	of	Value of	Value of
	ments.		project.	Wages.	Materials.	Products.	Products.
	No.	8	No.	s	S	8	8
1923.	240.	0	AVU.		40		0
Totals	22,642	3,380,322,950	525,267	571,470,028	1,470,140,139	1,311,025,375	2,781,165,514
Vegetable products.	4,427	385,725,299	65,395	67, 441, 626	337,790,150	209,884,136	547,674,286
Animal products	5,078	207,000,471	61,517	52,870,124	273,995,639	110.090,176	
Textile products	1,817	283, 248, 204	92,669	81.244.205		157,993,769	
Wood and paper	6,875	801,085,402	128,404	147,315,373	236,808,842	319, 216, 193	556,025,035
Iron and its pro-	1 000	FF0 050 000	88.071	107 457 000	256,417,991	209.541.556	465,959,547
Non-ferrous metals.	1,000	552, 272, 800 106, 644, 467	21,409	115.453,809 25,015,665		45, 424, 062	88,199,326
Non-metallic mix-	000	100,011,107	21,700	20,010,000	12,170,203	10, 151,005	30,100,020
erals	1,091	243,519,222	24,978	29,280,591	69,302,684	74,673.276	143,975,960
Chemicals and	.,	0.0100100		-000,000			
allied products	475	126,537,481	15,149	18,433,679	54,638,062	56,606,094	111, 244, 156
Miscellaneous							
industries	589	92, 817, 021	16,580	19,630,918	21,966,080	36,454,817	58,420,897
Central electric sta-	OFM	201 470 700	11 007	14 704 000		91, 141, 296	91,141,296
tions	957	581, 472, 583	11,095	14,784,038	_	81,141.290	81,141,290
1924.							
Totals.	22,178	3,538,813,460	508,503	559.884.045	1,438,409,681	1,256,643,901	2,695,053,582
Vegetable products.	4,414	414,922,612	66, 183	70,638,304	365, 614, 854	220,330,748	1 585.945.602
Animal products Textile products	4,816	208,466,666	57,779	53 270, 202	269, 993, 396		379,777,322
Textile products	1.781	298, 665, 942	90,254	77,924,749	179, 551, 579		
Wood and paper	6,906	879, 307, 261	127,551	148, 529, 075	246,078,592	300,425,516	546,504,108
Iron and its pro-	1.003	535.924.351	78,314	99,567,510	195.981.347	174.107.327	370,088,674
Non-ferrous metals.	341	114, 354, 971		26, 118, 839			
Non-metallic	011	188,001,511	21,010	80,110,000	,,		,,
minerals <sup>1</sup>	1,095	235, 613, 111	24,186	29,559,746	61.741,225	76.832.578	138,573,803
Chemicals and			1				
ullied products	457	126,495,685	13.796	17,074,529	54,311,013	53,905,324	108, 217, 237
Miscellaneous in-	414	00 100 700	75 010	10 054 505	22 201 401	22 217 022	ER 100 514
dustries Central electric sta-	414	96, 497, 768	15,942	19, 254, 507	22.881,481	33,317,033	56,198,514
tions	951	628, 565, 093	12,828	17,946,584		95, 169, 768	95,169,768
\$10465	301	000,000,000	12,040	21,810,001		0011001100	
1925,							
Totals	22,331	3,808,309,981		596,015,171	1,547,665,40%	1,360,879,907	2,948,545,315
Vegetable products.	4,558	439, 490, 764	72,035	72,796,657	404,684,887	227,526,377	632,211,264
Animal products	4,892	210.015,438		55, 285, 458	315,914,684	115,863,479	431,778,103
Textile products	1,640 6,652	305,776,409	94,531	81.573.988 148,457,748	193,238,560 246,551,591	14J, 950; 124 310, 642, 862	632,211,264 431,778,163 337,188,684 557,194,453
Wood and paper Iron and its pro-	0,002	907.204,530	121,000	140, 401, 140	540,001.072	010,010,000	007,101,100
duets	1,075	567, 912, 477	90,125	117,642,470	206, 337, 132	205,041.508	411.378.640
Non-ferrous metals.	378			35,713,903	74,068,260	85,701,766	159,770,026
Non-metallic min-							
erals,,	1,191	239,823,825	24,468	29,892,659	65, 278, 752	78,969,840	144,248,592
Chemicals and	510	100 400 040	12 051	17 440 150	56,299,219	56,607,527	112,906,746
allied products Miscellaneous in-	010	126,483,348	13,951	17,469,157	00,299,210	00,001,021	142,500,790
dustries	428	103, 281, 878	16,583	18, 427, 224	25, 292, 323	33,988,542	59, 280, 865
Central electric sta-		100,000,010					
tions	1,007	726,721,087	13,263	18,755,907	-	102,587,882	102,587,882
			1				
1926. Totals	99 700	7 801 508 784	501 596	£29 KEB 899	1 755 1 1 700	1 499 645 699	3,247,803,438
Vegetable products	22,708 4,529	3,991,569,590 449,259,094	581,539 73,908 67,843	75,349,586	(1,400,105,030 1 414,316,414	244,004,302	658,320,716
Animal products	4,896	223, 938, 554	67 843	60, 203, 980	329,114,267	122,920,658	452,034,925
Textile products	1,698		100,572	88,596,752	2 202,832,383	163,502,261	366.334,644
Wood and paper	5.751		134, 187				600,064.661
Iron and its pro-	-				0 = 11 000 = ===	0.67 400 470	808 100 010
ducts,	1,142						
Non-terrous metals	403	202,503,426	30,095	39, 201, 147	90,613,004	92,888,739	183,501,723
Non-metallic min	1,240	261,724,184	26,045	31,986,949	82,293,319	91,863,634	174, 156, 923
erals	1,290	201,729,189	20,040	31, 900, 991	0=,200,010	01,000,001	223, 200, 080
allied products	556	133,407,891	14,345	18,309,377	60,124,582	62, 464, 944	122,589,526
Miscellaneous in-	1						
dustries	436	109,669,56	17,628	21,703,342	30,307,874	39,835,657	70,143,531
Central electric sta		Ban 200 200		10 010 01	00 531 00	00 000 000	115 48 040
tions	1,057	756, 220, 060	6 13,406	19,943,000	26,534,207	88,933,733	115,467,940

<sup>&</sup>lt;sup>1</sup>See note at end of Table 1 on page 15. <sup>2</sup>A behated revision in the cement industry raised the salaries and wages in this group to \$29,561,746 and reduced the gross value of products to \$138,318,637.

#### 2.—Summary of Statistics of Manufactures, by Industrial Groups, 1917-1928! concluded.

(All establishments irrespective of the number of employees,)

Industrial Group.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gress Value of Products.
	No.	\$	No.	\$	*	8	\$
1927.							
Totals.	22,936	4,337,631,558			1,789,574,604		
Vegetable products.	4,793	494, 176, 054	78,300	81,830,734	429, 325, 105;	283,374,975	
Animal products	4,692	233, 113, 872		61,407,018		132, 260, 556	
Textile products.	1,802	346,512,165		95.891.243	198,870,157	183, 137, 300	382.007.457
Wood and paper	8,811	1,023,301,749	150,550	167,995,734	271.780.232	357, 786, 924	629, 567, 150
Iron and its pro-	1.148	638, 914, 893	106, 293	143.351.174	261, 102, 679	264.819.160	525, 921, 839
Non-ferrous metals.	401	208,957,166		44, 154, 695	87,612,686	112, 757, 295	200.369.961
Non-metallic min-	401	200,307,100	00,770	44,104,090	01,012,000	115,701,280	200,000,00
erala	1.184	- 280.033.057	26, 662	33,958,541	86,312,529	89, 433, 536	175,746,068
Chemicals and al-	4,000	200,000,001	20,000	00,000,011	00,012,020	00,100,000	20011100
lied products	561	134,618,839	14.559	18,656,851	63,630,588	63,854,084	127, 484, 675
Miscellaneous in-							
dustries,	447	111,178,478	18,518	23,739,923	34,699,896	44,466,809	79,166,703
Central electric sta-							
tions	1,097	866, 825, 285	14,708	22,946,315	30,785,270	104,033,297	134,818,567
1928.	40 000	4 000 000 010	0711 000				0.000.000.00
l'otals	23,379	4,780,296,049	658,023		1,950,804,339		3,769,759,564
Vegetable products.	4,845	531,918,725	83.761	88, 119, 342		317,073,457	756,995,585
Animal products	1.885	243,550,121		61,950,631		133,697,496 191,671,848	485,021,904 415,402,464
Textile products Wood and paper	7,290	365.721.591	113.724	103,451,235	293, 159, 913		682,549,861
fron and its pro-	1,280	1, 158, 651, 534	158,005	179, 244, 698	290, 109, 919	308,409,802	002,040,000
ducts	1.159	702,931,186	119, 199	168, 320, 038	309.618.074	300,014,925	609, 632, 999
Non-ferrous metals.	406	253,367,370		47, 497, 842	98,746,019	139, 220, 908	237, 966, 927
Non-metallic min-	400	200,001,010	100,000	41, 101,040	001110101010	100, 200, 000	200,000,000
erala,	1.178	298, 693, 122	28.650	37, 136, 451	93.683.873	112,398,268	206,082,14
Chemicals and	.,	200,000,100	20,000	-1,100,101		2,000,000	
allied products	572	148,939,920	16.130	20,290,417	74, 163, 334	72,812,503	146, 975, 837
Miscellaneous in-							
dustries	453	119,602,877	19,351	25, 101, 208	35,090,248	50,439,849	85,530,09
Central electric sta-							
tions	1.049	956, 919, 603	15,855	24,087,420	31,365,636	112, 326, 819	143, 692, 45

<sup>1</sup>See note at end of Table 1 on page 15.

#### Subsection 3,-Summary Statistics of Manufacturing Production.

Summary Statistics of Manufactures.—In Table 3 will be found an analysis of the most important statistics of manufactures for the seven years from 1922 to 1928 here brought together in order that the tendencies in Canadian manufacturing industries may be traced as clearly as possible through this latest period of their development. Corresponding figures for the years from 1917 to 1922 were given at p. 384 of the 1926 Year Book, but the inflation of values in the war and immediate post-war periods makes the figures for these years largely incomparable. One very important figure, however, where the trend of development proceeds clearly and uninterruptedly throughout the 12 years, is concerned with the use of power. In the analysis here given the aim is to show the position of power as a factor in general manufacturing production. Therefore the power installation of central electric stations has been excluded. Unfortunately this

#### 3. - Sammary Statistics of Manufactures, 1922-18.

(All establishments other than construction and out-too and repair mainstress, are spectrae of the number of employees.)

Item.	1922.	1923.	1924.	1925.1	1926.	1927.	1928.
stablishments	22.541	22.642	22.178	22,331	22,708	22,936	23.3
apital	3.244.302.410				3.981,569,590		4.780.296.0
Average capital per establishment \$	143,929	149.295	159.563	170.538	175,338	189.119	204,4
Average capital per employee\$	6,838			6,999	6,846	7,008	7,2
Average capital per wage-earner\$	8,143			8.162	7,967	8.131	8.40
otal employees		525, 267	508,503	544,225	581.539	618,933	658.0
Average number of employees per establishment No		23 - 2	22.9	24-4	25.6	27.0	28
otal salaries and wages	510, 431, 312	571,470,028	559,884,045	596,015,171	653,850,933	693, 932, 228	755,199.3
Average salaries and wages per establishment \$	22.645			26, 690	28,794 1,124	30,255 1,121	32,3
Average salaries and wages per employee	1.076		1.101 76.230	1,095 77,623	81.794	85.483	91.2
mployees on salaries No A verage salaried omployees per establishment No		3.5	3.4	3.5		3.7	D1
laries	136, 219, 171	142.738.681	139.814.639	143, 056, 516		162.348.978	174,770.
A verage salary	1,791	1.824		1.843	1.867	1,899	1.5
nployees on wages No		446.994	432.273	466,692		533, 450	366.
Average number of wage-earners per establishment No		19.7	19-5	20.9	22.0	23 - 3	2.
ages	374.212.141	428.731.347	420, 269, 406	452,958,655	501, 144, 989	531,583,250	580,428.
Average wage \$	939	959	972	971	1,003	997	E,
ost of material \$	1,283,774,723			1,587,665,408			1,950,804.
Average cost of material per establishment \$	56.953	64,930		71.097	77, 293	78,025	83.
A verage cost of material per employee	2.709	2,801	2,827	2,917	3.018	2,892	2.
due added in manufacture		1.311.025.375		1,360,879,907	1,492,645.039		
Average value added per establishment	53, 167			60.941	65.732	71,325	77.
Average value added per employee \$	2,523	2,494	2,695.053.582	2,501 2,948,545,315	2,567 3,247,803,438	2,643 3,425,498,540	2.
ross value of product	2.482.209.130	2,781,165.514 122,832		132.038	143.025		3,709,830.
Average gross value of product per establishment \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5.232	5.295		5,418	5.585	5.535	5.
wer employed 2		2,146,903	2.538.535	2. 888, 164	3, 134, 248	3.287.582	3.592.
Average number of horse power per establishment 2 H.I		99	120	135	145	151	0,004,
Average number of horse power per wage-earner?		4.87	5.97	6.29	6.37		6
ece workers 2		8,642	7.674	3.735	2,431	2,939	3.
arnings of piece workers 3 \$	1.284.437	1,627,055	1,485,422	692,302	466.708	450.057	458.

A change in the method of computing the number of employees in 1925 and later years increased the number somewhat over that which the method previously used would have given. There was therefore a proportionate reduction in the averages for 1925 and later years per employee and wage-earner, as compared to what these averages would have been under the former method.

The figures of power in this table represent the installation in manufactures exclusive of central electric stations, which are also excluded from the number of establishments and of employees in working out the averages. These figures are thus not comparable with those given on pp. 384-385 in the 1926 Year Book.

These are piece workers employed outside the establishments and are not included in general statistics of number of employees or of earnings.

was not done for the earlier years shown in the 1926 Year Book. When this change is made it will be found that the total horse-power employed increased from 1,664,578 in 1917 to 3,592,184 in 1928 or by 116 p.c. in 11 years. In the same period the horse-power used per establishment increased from 75 to 161 and the horse-power per wage-carner from 3.04 to 6.45, indicating the rapidly increasing contribution of power to manufacturing production.

The increases from \$143,929 to \$204,469 in average capital per establishment between 1922 and 1928, and in average number of employees from 21·1 to 28·2 are very significant figures. It is also noteworthy that the percentage of salaried employees to total employees has declined between 1922 and 1928 from 16·0 to 13·9—or approximately from one-sixth to one-seventh. In other words, there were in 1928 six wage-earners employed to each salary earner, as compared with five wage-earners to each salary earner in 1922. This is probably due to the fact that in the depression of 1920-22, wage-earners, with a less secure tenure of their positions, were laid off to a proportionately much greater extent than salary earners, so that the proportion of salary earners on the 1922 staffs was abnormally large.

Value of Products.—The gross value of manufactured products in 1928 was reported as \$3,769,850,364; the cost of materials was \$1,950,804,339, leaving \$1,819,046,025 as the value added by manufacture. As the finished products of one branch or manufacture are constantly used as materials in other branches in the ascending scale of modern industry, it follows that they are counted over and over again, swelling in this manner the total gross value of products. The total value of manufactured products, strictly defined, would include:—(1) the value of all raw materials obtained from the extractive and primary production industries which have entered into the manufacturing output, and (2) the entire value added to these raw materials by manufacturing processes from the time they first entered any factory up to the close of the census year. This total value would be very much greater than the \$1,819,046,025 shown as having been added by manufacture, but not so great as the \$3,769,850,364 shown as the gross value of production.

Volume of Manufacturing Production in Recent Years. -An investigation of the greatest importance, especially in a period when values are rapidly changing, is that of the volume of manufacturing production as distinguished from its value. This is a difficult subject of research, particularly on account of the constant changes in the commodities manufactured and in their relative proportions. It is, however, a matter in which tentative conclusions are better than none, and accordingly an estimate of the volume of manufacturing production in recent years has been attempted in Table 4, on the following plan, First, the gross value of the manufactured commodities produced in 1917, the first year of the annual census of manufactures, is taken as 100, and later years given as a percentage of this. Gross values, although they include numerous duplications, are used since the purpose is to determine changes in the volume of manufactured commodities produced irrespective of the relative value of the raw materials used. A better figure than gross values would be the one outlined above, i.e., the sum of the values of all original raw materials used plus the values added in the various ascending stages of manufacture. But unfortunately such a figure is not available. Next, the average index number of the wholesale

prices of the 276 manufactured commodities used in the Bureau's index number of wholesale prices is given for each year, and, in the next column, reduced to a percentage relative to 1917. Finally, the values, expressed as a percentage, are divided by the prices, also expressed as a percentage, and the quotient is considered to indicate the volume of manufacturing production. In the table which follows may be noted the decline in the volume of production between 1918 and 1920, in spite of increasing values, the recovery in the volume of production in 1922, 1923 and 1924, in spite of diminished values, and the increase in both volume and values in 1925, when the volume of manufacturing production, thus estimated, was about one-eighth greater than in 1917. In 1928, although the prices of manufactured goods were more than 16 p.c. below the level of 1917, total value had increased by 31 p.c. and volume by 57 p.c.

### 4.- Volume of Manufacturing Production, 1917-1928.

	Value	es.	Pric	ces,		
Year.	Gross Value Manu- facturing Production.	Percentage relative to 1917.	Index No. Prices of Manufactured Commodities,	Percentage relative to 1917.	Index No. Volume of Manufacturing Production.	
	\$	p.c.	,	p.c.	-	
1917	2,873,268,183	100-00	113.7	100.0	100-0	
918	3,289,764,146			112 - 2		
1919	3,290,500,585		132-5	116.5		
1920	3,772,250,057			137-9		
1921	2,576,037,029	89 - 65	116-7	102.6		
922	2,482,209,130		100-5	88 - 4		
1923	2,781,165,514	96 - 79		91) - 7	106-	
1924	2,695,053,582	93 - 80		89 - 6		
1925	2,948,545,315	102 - 62		91.3		
1926	3, 247, 803, 438			87-9		
1927	3,425,498,540			84 - 9		
1928.,,	3,769,850,364	131 - 20	95.0	83 - 5	157-1	

Consumption of Manufactured Products.—One of the beneficial results of placing the classification of external trade and of production upon a common basis is exhibited in Table 5, where the value of commodities made available for consumption in Canada is derived from the statistics of the two important fields. For example, the value of all manufactured commodities made available in a period approximately corresponding to 1928 was \$4,025,861,300, a figure obtained by adding to the value of manufactured products in 1928 the value of the imports of manufactured and partly manufactured goods during the fiscal year ended Mar, 31, 1929, and deducting the value of the corresponding exports for the same period. In this table, as in the preceding one, more accurate statistics could be presented were it possible to exclude from the gross value of manufactured products the duplications involved when the products of one manufacturing establishment become the materials worked upon in another. Iron, vegetable and textile products led the other groups in the value of finished goods made available for consumption. The large amount of vegetable products made available for consumption was due to the large production, as the exports were larger than the imports, while textiles and iron and steel products, in addition to a large production showed an excess of imports over exports of \$150,000,000 for textiles and \$256,000,000 for iron and steel products.

#### Consumption of Manufactured Products, by Groups, 1928, with Totals for 1922-1927.

Nore.—Statistics of manufacturing production are for the calendar year. Imports and exports of manufactured and partly manufactured goods are for the fiscal years ended Mar. 31 of the following years.

	Value of		d and Partly red Goods.	Value of Manufactured Products
Group of Industries,	Manufactured Products.	Value of Imports.	Value of Exports,1	Available for Consumption.
	\$	\$	8	\$
Vegetable products Aninal products Textile products Wood and paper products Iron and its products Non-ferrous metal products Non-metallic mineral products Chemicals and allied products Miscelluneous industries Central electric stations	756, 995, 585 485, 021, 994 415, 402, 464 415, 402, 464 609, 632, 999 237, 966, 927 206, 082, 197 144, 975, 837 85, 530, 097 143, 692, 455	37,263,368 158,707,822 57,463,697 342,224,541 69,452,287 65,924,612 37,723,046 68,330,650	154, 054, 047 77, 556, 899 8, 015, 447 205, 590, 713 86, 520, 116 80, 509, 143 8, 016, 304 19, 822, 869 14, 479, 519 3, 938, 182	740, 885, 223 444, 728, 463 565, 494, 839 474, 422, 849 805, 337, 424 220, 910, 071 263, 990, 449 164, 876, 014 139, 381, 228 139, 834, 740
Totals, 1928	3,769,850,364	975, (14, 175	719, 103, 239	4,025,861,300
Totals, 1927	3,425,498,540	825, 147, 919	648,178,000	3,602,468,459
Totals, 1926	3,247,803,438	767,022,008	673,709,266	3,311,116,180
Totals, 1925	2,948,545,315	671,462,940	695, 325, 245	2,924,683,010
Totals, 1921	2,695,853,582	576,031,243	591,598,479	2,679,486,346
Totals, 1923	2,781.165,514	639,343,645	591,829,306	2,828,679,853
Totals, 1922	2,482,209,130	574,551,323	515, 173, 415	2,541,587,038

<sup>&</sup>lt;sup>1</sup> For 1928 exports include all exports of partly and fully manufactured goods whether of domestic or foreign origin, but for 1927 and previous years exports are of Canadian produce only, since foreign exports for previous years have never been analysed as raw materials, partly or fully manufactured goods. Therefore in this table the value of manufactured products made available for consumption for the years 1922 to 1927 inclusive, is an overstatement by the amount of the foreign exports of manufactured goods in each year, probably varying from about \$11,000,000 in 1922 to \$18,000,000 in 1927.

### Section 2.—Production of Industrial Groups and Individual Industries.

One of the factors in the progress of Canada is the possession of many natural resources, favourable to industrial growth. It is upon the country's agricultural resources, forests, minerals and wild life that Canada's industries are mainly based. The sea and lake fisheries also make an important contribution of raw materials to the manufacturing industries of the Dominion. Nevertheless, the industrial development of Canada was a matter of small beginnings and gradual growth over a period of many years, and the comparatively small home market, restricted at the present time to a population of about ten millions, a large part of it in scattered agricultural areas, is still one of the difficulties of the situation. Yet Canada is now not merely the second largest manufacturing country in the British Empire; her exports to the other Dominions consist largely of manufactured goods. The exports of manufactured and partly manufactured goods to the United States exceed the exports of raw materials. The rate at which this movement is to continue will depend almost entirely upon growth within the Dominion-upon the further development of the many-sided physical assets of the country.

### Subsection 1.—Manufactures Grouped by Chief Component Materials.

A classification based on the chief component materials in the various products of each manufacturing establishment was applied for the first time in the compilation of the returns for 1920. The number of groups was reduced from fifteen to nine to correspond with the external trade classification and the classes of industry were somewhat altered to conform with recent industrial developments. Subsequently the central electric stations industry was taken out of the miscellaneous class and now forms a class by itself.

Vegetable Products.—With the exception of rubber, coffee and spices, sugar factories and rice mills, the industries of this group are dependent mainly upon domestic farm products as raw materials. The milling industry, which has existed to meet domestic needs for more than 300 years, is one of the Dominion's oldest industries, but it is only within recent times that its progress has become spectacular. The war, and the demand it created gave a great impetus to this trade, and the 423 flour nuits, many of them of the most modern type and highest efficiency, have now attained a capacity far in excess of Canada's demands. During 1928, productive capacity reached about 121,000 barrels per day. Since then, the industry has been adversely affected by the difficulties which beset the Canadian grain trade and the great decline in the prices of grains. Exports of wheat flour declined from 11.809,000 barrels in the crop year ended July 31, 1929, to 6,778,000 barrels in the following crop year. The flour manufactured from Canadian hard spring wheat is of very high baking quality and a recovery of purchasing power in Europe and the Orient would contribute toward the return of flour exports to their former volume. Other industries contributing largely to food manufacture are sugar refineries, bread, biscuits, etc., and, to a lesser degree, plants engaged in the canning of fruits and vegetables.

Raw material imported from tropical countries forms the basis for an industry of a different character. Canada is now among the leading countries of the world as a manufacturer of rubber goods. Existing plants represented in 1928 a capital of over \$70,000,000 and gave employment to more than 17,000 workers receiving \$19,000,000 in wages and salaries and producing goods to the value of over \$97,000,000.

The beverage industries—breweries, distilleries and wineries—which are important elements of the vegetable products group, have expanded from a production of \$30,000,000 in 1922 to \$103,000,000 in 1928, owing partly to the modification of prohibition laws in Canada and also to the fact that a large part of their production was exported to the United States. The tobacco industries, another important factor in the vegetable products group, had a total production in 1928 of nearly \$77,000,000.

Animal Products.—Another form of food manufacture—that of slaughtering and meat-packing—has also made great strides. It comes as a surprise to many that slaughtering and meat-packing was until lately at the head of all the single industries in regard to the value of the products, and is now only surpassed by the

pulp and paper and flour-milling industries. Another industry which manufactures a product of farm animals and has been for many years of leading importance in Canada is the butter and cheese industry. Originating in the agricultural districts of the Maritime Provinces, the Eastern Townships of Quebec, and the southern counties of Ontario, it is now developing rapidly in the Prairie Provinces and in the more recent northern settlements of Quebec and Ontario. For an industry so large in the aggregate, it is unique in having shown very little tendency toward consolidation in large units, the gross production of \$130,000,000 in 1928 coming from no fewer than 2,804 plants, mostly small and scattered at convenient points throughout the farming communities. Many of the plants are operated on the co-operative basis. The leather industries also have long been



A Canadian Automobile Tire Factory.—The manufacture of rubber goods, including tires, footwear, etc., is now the eighth industry in importance. In 1925 the value of the products was 78 million dollars; in 1928 it was 97 million. Canadian tires to the annual value of 16 million dollars are exported to 46 countries.

Courtesy Can. Gort. Motion Picture Bureau

established on a considerable scale, mainly, of course, because the large number of cattle raised and slaughtered provide a ready supply of hides. There are large tanneries in the eastern provinces, and no fewer than 199 boot and shoe factories were in operation in 1928, chiefly in Quebec and Ontario, representing a total capital of over \$31,000,000 with an annual output of \$50,000,000, and employing 19450—4

15,505 men and women. The canning and preserving of fish also calls for reference. Concentrated naturally upon the Pacific and Atlantic coasts, 713 establishments were engaged in 1928 in the canning, curing and packing of various kinds of fish.

Textiles.1—Although the production of cotton and woollen fabrics, hosiery, knitted goods, men's and women's clothing and so forth amounted in 1928 to a gross total valued at over \$415,000,000, considerable quantities of yarns and cloth are still imported into Canada. Canadian textile factories are capable of supplying ordinary domestic needs without undertaking the production of the highest grade materials such as are manufactured in Great Britain, where for several centuries hereditary skill has been developed. The imports of manufactured or partly manufactured textiles during the fiscal year ended Mar. 31, 1929, were \$158,707,822, or 38 p.c. of the gross value of the manufactured product during the calendar year 1928.

While the most important industry in the textile group in Canada is the manufacture of cotton yarn and cloth, the products of which in 1928 were valued at over \$79,000,000, the chief development of textile industries has been in the manufacture of clothing and wearing apparel from both domestic and imported piece goods and yarns. Thus in 1928, if the men's and women's factory clothing, corsets, men's furnishing goods, hats and caps and hosiery, knit goods and fabric gloves industries be grouped together, the total products amounted to about \$222,000,000 or 54 p.c. of the production in the whole textile group in Canada.

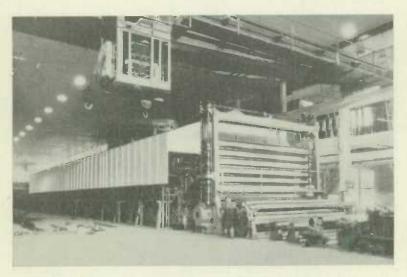
The woollen industry may be divided into four sections, according as the chief product of value is cloth, yarn, carpets and mats, or miscellaneous goods. Of the 120 plants in operation during 1928, 51 were engaged chiefly in manufacturing cloth, 20 in making yarns, 22 in making carpets and rugs and 27 in making miscellaneous woollen goods. The total value of woollen goods manufactured by the four classes of mills during 1928 amounted to \$34,700,000, as compared with \$31,200,000 in 1927.

Wood and Paper.—An outstanding feature of the general expansion of Canadian commerce since the opening of the century has been the change in the industries associated with forestry. Lumber output has fluctuated greatly and actually decreased in recent years, as a result of the post-war depression. For example, in 1911 the output of manufactured lumber was 4,918,000 M board feet, valued at \$75,831,000, as compared with 4,337,253 M feet, valued at \$103,590,035, in 1928. In contrast with this is the progress in pulp and paper production. The census of 1881 recorded only 36 paper and 5 pulp-mills in existence in Canada. In 1929 there were 108 pulp and paper-mills, consuming more than 5,278,422 cords of pulpwood in the year and using hydro power to the extent of about 1,400,000 h.p. Production of wood pulp in 1917 was 1,464,308 tons and in 1929, 4,021,229 tons. Production of newsprint in 1917 was 689,847 tons, in 1921, 805,114 tons, in 1923, 1,252,000 tons and in 1924, 1,388,081 tons.

<sup>&</sup>lt;sup>1</sup> A sketch of the cotton industry, which is the most important of the textile group, is given under the heading of "Typical Individual Manufactures" at p. 429 in the Manufactures section of the Canada Year Book. 1924.

In 1929 the production was 2,725,331 tons, an increase of 13 p.c. over 1928. Included in the totals are hanging and poster papers. Canadian production in 1929 exceeded that of the United States by 1,300,000 tons or 95 p.c., so that Canada now occupies first place among the countries of the world in the production of newsprint paper.

Iron and Steel.—The primary production of iron and steel in Canada has always been handicapped by the fact that nowhere in Canada have workable deposits of coal and iron ore been found in juxtaposition. The nearest approach is in Nova Scotia, where there is an abundant supply of coal, while iron ore is obtained from Newfoundland. In Central Canada, where the secondary iron and steel industries are chiefly located, there are at present neither supplies of



A Modern Newsprint Machine.—This machine, 234 inches wide, is capable of producing over 130 tons of newsprint daily.

coal nor high-grade deposits of iron ore. There is a possibility, however, that high-grade bodies of ore may be found, and eventually the huge reserves of low grade ores now known to exist may be utilized.

Iron ore, which was imported chiefly from Newfoundland and the State of Minnesota, was converted into pig iron in 1928 by the following companies:—Steel Company of Canada, Ltd., at Hamilton, Ont.; the Algoma Steel Corporation at Sault Ste. Marie, Ont.; the Canadian Furnace Co. at Port Colborne, Ont.; and the Dominion Iron and Steel Co. Ltd., at Sydney. N.S. These 4 blast furnace plants, together with 23 steel furnaces, 12 rolling mills and one smelter for making ferro-manganese, accounted for a capital of \$114,292,363 and a gross production valued at \$62,071,674. There were, in 1928, no fewer than 450-44

1,159 establishments handling iron and steel products, aside from the numerous custom and repair shops engaged in re-conditioning iron and steel goods. The plants represented a capital of \$702,931,186 and had a gross output valued at \$609,632,999. A great deal of this output is represented by agricultural implements, for which there is a large domestic demand, by factory and railway equipment and commercial and passenger motor vehicles. The output of automobiles has increased rapidly in recent years, the total production in 1922 being valued at \$81,956,429, in 1925 at \$110,835,380, in 1926 at \$133,598,456, and in 1928 at \$162,867,495, so that this industry had in recent years a greater production than any other in the iron and steel group and in 1928 stood fourth in gross production among all the industries of Canada.



The Assembly Live in a Canadian Automobile Factory.—The manufacture of automobiles ranked fifth among Canadian industries in 1928; the value of production was nearly 163 million dollars.

Courtesy Can. Gort. Motion Picture Bureau

Non-Ferrous Metals.—During 1928 there were 406 plants in Canada manufacturing products from metals other than iron and steel. Employment showed an increase from 18,222 in 1922 to 21,409 in 1923, 27,735 in 1925, and 35,568 in 1928.

One of the leading industries in this group in recent years has been the manufacture of electrical apparatus and supplies; this industry had in 1928 a gross production of \$93,672,452. The industry is showing rapid growth in keeping with the widely increasing development and utilization of hydro-electric

energy in Canada. The development of cheap electric power has done much to popularize the use of electrical equipment for both domestic and industrial purposes, and the future demand for such apparatus will probably be limited only by the development of adequate power.

The non-ferrous smelting and refining industry has shown a marked expansion in recent years, due to the increased capacity of the Trail smelter and the great activity of the copper smelter at Anyox, British Columbia, the enlargement of the nickel-copper smelting facilities and the proposed new copper refinery in the Sudbury district of Ontario, the new copper smelter at Noranda, and the activities of the aluminium plant at Arvida, Quebec. A new smelter which will smelt the ores from the Flin Flon and Sherritt-Gordon mines is practically completed at Flin Flon, Manitoba.

Another industry of some importance consisted of 97 firms engaged principally in the rolling, casting, and manufacturing of brass and copper, the principal products being castings and marhinery fittings, brass steam fittings, plates and sheets, rods and wire cloth. The selling value of the products was \$28,457,430, while the materials were worth \$15,716,748.

Non-Metallic Minerals.—The gradual recovery in business conditions since 1921 is demonstrated by developments in the non-metallic mineral group. The recent expansion is accentuated by the growth of the petroleum products industry, which in 1928 produced about 40 p.c. of the gross value of the entire production of the group. This industry included, in 1928, 9 blending plants and 16 plants for the refining of crude oils. The refining plants were located with a view to economy of distribution, based on the greatest accessibility to the source of supply and the proximity of the markets. The refineries on the eastern and western coasts obtain their crude petroleum from South America, Mexico and the United States by tank steamers, bringing transportation costs to a minimum. Those situated in the central part of the Dominion are necessarily supplied by rail or pipeline. The more general use of the automobile has resulted in a continually expanding demand for gasolene and lubricating oils. The installation of oil-using equipment in industrial plants for generating power and in buildings of various kinds for heating purposes has also increased the consumption of fuel oil.

The coke and gas industry of Canada is chiefly centred in the larger cities, especially in parts of the country where manufacturing predominates. Coke, coal gas and carbureited water gas are the most important products, but pintsch gas is made at many divisional points along the railways to meet the demand for lighting purposes on passenger trains. Acetylene gas is used in several small towns where the size of the municipality is not sufficient to warrant a coal gas

plant. The facility with which by-products, such as coke, tar and light oils, are turned out in connection with large-scale production, becomes an incentive to plant expansion, provided that a demand is assured by increasing population and industrial development in the vicinity. The burning of coke in the house furnace, the necessity of enriching the soils with nitrates, the increase of refrigerating operations and the extended use of tar products have prompted the larger plants to increase their output. The industry is also intimately connected with the iron and steel industry and depends upon the demand of the non-ferrous smelting plants. By-product coke plants are maintained at Sydney, Hamilton and Sault Ste. Marie by the three principal iron and steel companies and by the Hamilton By-Product Coke Co. The Crow's Nest Pass Co., and the Granby Consolidated Mining, Smelting and Power Co. also operate plants for the manufacture of metallurgical coke.

Other industries of a varied nature included in this group are the manufacture of asbestos products, the glass industry, the manufacture of abrasives, the preparation of ornamental and monumental stone, the bottling of aerated waters and the manufacture of various clay products and cement.

Chemicals.—New developments in Canada's chemical industries serve to focus attention on the growth of these great enterprises. At the present time the expansion in this field is more noticeable than at any other period since the abnormal expansion during 1914-1918, when war demands necessitated the establishment of many new lines of production.

At Trail, B.C., large chemical plants are shortly to be crected. The sulphuric acid plant, using the gases from the zinc roasting process, will be enlarged. Nitrogen obtained through the liquefaction of air will be converted to ammonia, and both ammonium phosphate and ammonium sulphate will be made, as well as superphosphate of lime for use as fertilizer. New superphosphate plants are being built at Hamilton, Ont., and Betæil, Que.

At Sandwich, Ontario, where caustic soda and chlorine have been made for many years by the electrolysis of brine, by-product hydrogen formerly wasted is being saved and made into ammonia by the Casale process. This ammonia is shipped to Belœil and there oxidized to nitric acid for use in the manufacture of explosives and fertilizers.

In the Sudbury area, owing to the growth of the nickel-copper industry which uses large quantities of acid sodium sulphate in the smelting process, a new chemical plant is being erected to make acid sodium sulphate from the Saskatchewan natural sulphate. This is a notable development in that the new works will produce only a material that was formerly considered to be a waste product. This development involves the enlargement of the sulphuric acid plant using the waste gases from the smelter.

The growth of the ten main groups of chemical industries in Canada may be realized by noting that the total gross production of these industries in 1921 was about \$89 millions and in 1928 nearly \$147 millions.

The chemical industries of the Dominion may be arranged in the following order of importance, based on the gross value of product:—(1) acids, alkalies, salts and compressed gases, (2) paints, pigments and varnishes, (3) soaps, washing compounds and toilet preparations, (4) medicinal and pharmaceutical preparations, (5) explosives, ammunition, fireworks and matches, (6) coal tar products, (7) inks, dyes and colours, (8) fertilizers, (9) wood distillates, and (10) a miscellaneous group of industries not otherwise classified. These industries contribute in no small measure to the diversification of Canadian manufactures and add appreciably to the volume of production. If the larger definition of chemical industries be taken as including all industries using chemical processes, the field covered represents not less than one-fifth of the aggregate of Canadian manufactures.

Central Electric Stations.—Beginning with 1926, central electric stations have been taken out of group 9-Miscellaneous Industries-and shown as a separate group. The purpose of the separation is to facilitate the presentation of the statistics of the power installed in manufacturing establishments. Practically all other industries produce either wholly finished goods or products which are used as materials for further processes of manufacture. The product of the central electric station industry is not a material in the same sense, but is electrical energy which supplies the power for many of the manufacturing processes, as well as for mining enterprises, electric railways and the various lighting and domestic services. Included in the establishments reported as central electric stations, in addition to the plants where power is generated from water, steam er some other primary source, are numerous distributing plants which buy power at high voltage from the generating establishments and transform and distribute it to local consumers. In such cases, where the distributing stations are separate organizations from the generating system, there is therefore a duplication in the gross revenue reported from the sale of power. The economic function performed by the distributing station is similar to that of a manufacturing industry which transforms materials to meet the requirements of the consumer. Therefore the cost of power purchased by distributing stations is regarded as a cost of material, and a figure of net revenue is given from which all duplications are eliminated. This treatment has been applied to the figures for 1926 and later years and introduces a slight element of incomparability with figures for previous vears.

The principal statistics of each of the manufacturing industries of Canada during 1928 are presented in Table 6.

### 6 .- Statistics of the Numbers, Capital, Employees, Salaries and Wages, Cost of

	Common I World Industries	Establish-	Cunital	Salaried Employees.			
No.	Group and Kind of Industries.	ments.	Capital Employed.	Male.	Female.	Salaries.	
		No.	\$	No.	No.	\$	
	Canada	23,379	1,780,296,049	69,858	21,385	174,770,879	
	Totals by Provinces.						
2	Prince Edward Island	277 1.167	3,121,568 138,809,331	151	31	183,976 2,850,760	
3	New Brunswick	794	114,660,886	1.313	375	3, 130, 301	
5	Quebec	7.231 9.900	1.583,350,884 2,275,921,056	20,109 36,204	5,137 12,958	49,485,152 94,376,781	
- 6	Manitolia	871	159, 721, 124	3,169	829	7,545,721	
8	Saskatchewan	737 778	44,622,135 92,190,476	1,269	236 458	2,589,414 4,020,520	
9		1.624	367.898.589	4,450		10,587,954	
	TOTALS BY GROUPS.						
1		4.845 4.542	531,918,725 243,550,121	9.035 8.764		22,902,285 16,892,275	
3	Textiles and textile products.	1.885	365,721.591	6.517	3.234	19,085,001	
- 4	Wood and paper products	7.296	365,721,591 1,158,651,534	15,351	4,601	40, 361, 890	
5	Non-ferrous metal products	1,159	702,931,186 253,367,370	11,488 5,003		30,307,217 12,748,620	
7	Non-metallic mineral products	1.178	298, 693, 122	2,996	654	6,983,637	
8	Chemicals and chemical products	572 453	148,939,920 119,602,877	3,294		8,570,680 6,451,109	
10		1.049	956, 919, 603	5.003		10, 450, 158	
	GROUP 1. VEGETABLE PRODUCTS.	4,845	531,918,725	9,035	2,755	22,992,283	
1		283	52,353,082	1.810	697	4,571,81	
72			34 377 449	659		1,518,59	
3	Cigars and cigarettes	78 79	67, 148, 686 37, 243, 547 14, 599, 825	835		2,295,185 2,530,475	
5	Coffee and spices	61	14.599.825	435	137	1,247.04	
6	Distilleries	18 896	51,287,103 5,037,406	249		771,765 45,65	
- 8		423	5,947,496 57,567,079	889		2.111,620	
9	Fruit and vegetable canning, evaporating, ele- ele- le- le- le- le- le- le- le- le	216	27,920,624	375	124	805,55	
10	Ice-cream cones	10	582, 128	8		24,859 90,267	
11	Macureni and vermicelli	8	2,394,331 1,250,832			89,120	
13	Malt mills	6	6,533,330	53	7	122,460	
14	Maple syrup and sugar Miscellaneous food in lustries	56		15		49,496 509,966	
16	Miscellaneous vegetable products	6	2,861,429	22	2	58, 15	
18		62	8.047,231 1,331,679	142	51	338,79° 67,67°	
15	Rubber footwear	11	10.236.188	663	218	1,267,86	
21	Rubber tires and other rubber goods	34		986		2,334.89 156,588	
22	Sugar refineries	8	48.625.818	239	60	922,969	
23	SVIUPS	. 1 0	180,004	192		14.39- 814.48	
25		36		53		143.68	
	GROUP 2 ANIMAL PRODUCTS.			or make	2,008	10 UAD 0**	
1		4,542	243,550,121 697,180	8,764	4	16,892,27 50,05	
2	Animal oils and fats	6	697, 180 850, 226	60	5 16	27, 220 155, 27	
90	Boot and shoe findings	10	1.457.276	33	3 5	02.68	
- 1	Boots and shoes, leather.	199	31,433,028	1,000	368	2.713.16 4.514.04	
- 6	Butter and cheese	2.804	45,129,830 8,422,489	3,519	594	324,34	
8	Fish-curing and -packing.	713	26,941,283	577	53	853,80	
10	Fur dressing and dyeing	12 225	1.744.997	84		176.10 1,081.97	
11	Gloves and mittens, leather	49	3,845,708	15:	66	349,63	
13	Harness and saddlery	214	5.304.020	178	3 45	338.69 2.65	
13	Leather goods, n.e.s.	40	47,211 1,493,793	8	6 41	216,97 796,76	
13	Leather, tanned, etc.	91	31, 259, 692	240	52	796.76	
10	Francisco and cadeage casings	32		2,200		109,53 4,898,20	
	Trunks, bags, etc	19		61		190, 15	

Materials and Value of Products of Canadian Manufacturing Industries, 1928.

Wage-Barners.			Power Cost of		Cost	Value of Products.		
Male.	Fe- male.	Wages.	Installed.	Fuel Used.	of Materials.	Not.	Gross.	
No.	No.	\$	H.P.	\$	\$	\$	\$	
441,189	125,591	580,428,493	6,239,955	59,761,267	1,959,804,339	1,819,046,025	3,769,850,364	
1,121 14,008 12,656 131,279 213,754 17,540 4,201 8,915 37,715	732 3,436 3,619 48,434 57,813 3,628 467 1,644 5,818	528,969 12,987,634 11,551,909 168,402,329 296,999,166 25,023,502 5,414,163 11,382,772 48,138,049	7, 219 207, 928 151, 489 3, 483, 309 3, 010, 179 442, 029 99, 995 159, 202 819, 134	110.817 2,974.941 1,700,741 17,320,330 28,791,474 2,069,449 1,781,992 1,544,523 3,467,020	2,747,292 44,168,441 39,750,561 510,580,872 1,034,504,240 88,284,693 34,186,731 59,398,697 137,185,812	1.607.868 40,780,167 27.663,181 562.581,419 915,222.879 71,150,401 24,938,549 41,345,704 133,865,857	4,445,166 84,948,60 67,413,713 1,973,102,291 1,949,724,113 159,435,094 59,125,280 100,744,401 270,851,609	
48, 675 41, 627 41, 156 126, 820 101, 159 24, 692 24, 251 8, 826 14, 342 9, 641	23, 299 15, 378 62, 817 11, 233 3, 238 4, 124 749 2, 793 1, 960	65,217,060 45,058,352 84,366,324 138,882,808 138,012,821 34,749,216 30,152,814 11,710,737 18,650,099 13,628,202	309, 611 104, 166 163, 779 1, 908, 738 488, 521 294, 842 181, 666 71, 401 69, 660 4, 786, 990	6,793,577 3,362,773 3,684,772 11,428,373 10,647,270 3,246,564 12,861,215 1,832,453 623,865 2,280,405	439, 922, 128 351, 324, 498 223, 730, 616 293, 159, 913 309, 618, 074 98, 746, 619 93, 683, 873 74, 143, 334 35, 030, 248 31, 365, 636	317,073,457 133,697,496 191,671,848 389,389,952 309,014,925 139,220,908 112,298,268 72,812,503 50,139,849 112,326,819	756, 995, 585 485, 021, 994 415, 402, 464 682, 549, 865 609, 632, 999 237, 966, 927 206, 082, 141 140, 975, 837 85, 530, 007 143, 692, 455	
48,675 4,554 12,495 4,014 1,966 671 1,259 1,238 4,054	23, 239 6, 213 1, 946 36 3, 331 425 312 1 1	65,217,060 7,952,817 15,382,643 4,785,574 3,607,441 1,044,002 1,788,694 815,602 4,633,795	389,611 19,854 12,467 38,344 2,327 3,124 7,827 34,247 84,848	6,793,577 575,370 1,588,646 594,716 72,920 42,851 526,545 83,647 515,124	20, 737, 486	317,073,457 31,023,993 35,075,350 40,172,912 42,607,889 5,944,093 28,286,629 3,462,025 27,203,278	758, 995, 585 00, 404, 223 71, 227, 097 40, 910, 309 61, 077, 732 27, 201, 299 38, 423, 793 21, 426, 320 172, 071, 795	
2,396 60 197 130 167 300 513 87 649 46 4,246 6,523 420 1,979 15 762 204	4,555 30 1 106 - 2 287 533 - 2.892 1,289 17 1035 20	2,559,380 09,724 232,504 157,301 251,478 30,397 845,661 107,493 882,974 48,441 6,077,169 9,263,808 457,291 2,748,117 17,330 1,073,802 213,622	10.306 84 1.997 904 4.527 8.7 4.792 1.661 2.044 4.701 41.149 2.030 18.881 31 1.003 588	262,470 29,815 18,828 7,754 175,925 6,303 86,272 51,659 113,523 380 175,763 429,261 218,3856 3,71 35,016 14,845	15. 144, 100 136, 291 5.514, 568 902, 958 3, 972, 005 815, 560 5, 766, 863 2, 795, 129 5, 054, 480 1, 458, 184 9, 935, 647 35, 182, 923	9, 746, 329 381, 143; 786, 487; 573, 213 1, 545, 354, 185, 227 5, 910, 223 1, 338, 368, 813 253, 731 20, 811, 565 31, 278, 578 1, 676, 108 11, 533, 281 90, 161 9, 464, 801 1, 467, 879;	24, 800, 429 517, 434 6, 281, 055 1, 476, 171 5, 517, 359 1, 900, 188 11, 677, 686 4, 133, 524 10, 423, 293 1, 711, 915 30, 747, 212 66, 491, 501 5, 455, 035 52, 085, 155 220, 850 15, 749, 625 3, 674, 545	
41,627 67 104 183 246 8.563 7.077 619 9.053 41,208 625 815 6297 3.561 186 7.787 598	15,378 23 4 1 1 8,44 5,572 221 52 5,751 1,230 879 83 7 7 368 99 19 780 108	45,058,352 71,092 119,563 165,897 236,943 12,269,442 7,241,506 729,209 4,407,296 626,657 2,807,76 1,110,036 888,426 14,016 531,946 3,600,060 219,489 9,344,161 584,794	104, 156 377 333 450 1, 499 6, 929 26, 879 3, 598 11, 866 428 896 11 150 15, 314 299 33, 116 802	3,362,773 5,246 23,720 8,414 19,883 133,858 1,077,462 344,430 451,540 12,170 23,244 16,349 27,360 272 5,656 378,137 15,109 803,977	351, 324, 488 255, 359 335, 088 1, 087, 247, 675, 855, 26, 383, 043 99, 202, 776 10, 386, 900 20, 578, 767, 260, 186, 513, 866, 832 3, 150, 901 2, 842, 219 1, 139, 974 26, 253, 779 1, 339, 790 142, 396, 342 1, 154, 950	133, 697, 496 392, 219 267, 190 552, 595 732, 302 23, 035, 793 31, 009, 532 3, 774, 406 15, 188, 965 2, 261, 109 6, 889, 239 2, 218, 055, 2, 052, 070 23, 746 1, 414, 643 8, 948, 301 755, 134 31, 700, 077 1, 382, 145	485,021,994 647,578 602,278 1,639,861,852 1,639,878,82 130,212,308 44,161,306 36,247,756,071 5,368,956 4,884,298 38,237 2,554,647 35,202,994,924 174,096,419 2,537,095	

<sup>&</sup>lt;sup>1</sup> Net: see pp. 66 and 67. 19450—5

6.—Statistics of the Numbers, Capital, Employees, Salaries and Wages, Cost of

				Salaried Employees.			
	Group and Kind of Industry.	Establish- ments.	Capital Employed.		1		
1,40		211031001	zampio je u i	Male.	Female.	Salaries.	
I	Carrie 2 Towers Bronwess	No.	\$	No.	No.	\$	
	GROUP 3.—TEXTILE PRODUCTS.	1,885	365,721,591	6,517	3,234	19,085,001	
2	Potals Awnings, tents and sails Bags, cotton and jute Batting. Carpets, mats and rugs Clothing, men's factory. Clothing, women's factory. Cordage, rope and twine Corrects. Cotton and wool waste. Cotton, textiles, n.e.s. Cotton thread	58 19	2,069,798 6,684,706	80 86	30 32	180,977 291,619	
3	Batting	8	2,822,676	49	25	194,099	
5	Carpets, mats and rugs	22	6,072,610	1,039	42	442,277 2,743,206	
6	Clothing women's factory	218 444	27, 263, 996 25, 557, 610	1,083	748	3,626,651	
7	Cordage, rope and twine	14	25,557,610 12,173,549 4,917,408	87	20	276, 109	
8	Corten and wood waste	16	1,148,423	170 20		431,004 67,927	
0	Cotton, textiles, n.e.s.	21	1.163.466	39	19	97.195	
2	Cotton thread	38	4,357,721 90,969,011	66 593		1.749.021	
3	Dyeing cleaning and laundry work	375	23.592.606	596		1,656,129	
14	Flax, dressed	14	317, 252	5	075	5.762	
15	Cotton thread Cotton thread Cotton yarn and cloth Dyeing, cleaning and laundry work Flax, dressed Furnishing goods, men's Hats and caps	159 159	21,064,504 8,164,615	559 416		1,398,478 1,155,333	
17	Hosiery, knit goods and fabric gloves	165	60,399,926 1,032,567	756	455	1,155,333 2,577,904	
18	Linen goods	6 5	1,032,567 3,099,244	14		46,350 102,879	
20	Miscellaneous textiles, n.e.s	18	1.238.488	39	19	123,415	
21	Silk goods	16	26, 159, 703	243 224		620,715 600,201	
23	Woollen textiles, n.c.s	51 27	18,274,895 8,375,122	85		329,768	
15	Woollen cjoth. Woollen textiles, n.e.s. Woollen yarns	20	8,810,695	50	27	181,236	
Н	GROUP 4WOOD AND PAPER PRODUCTS.		1,158,651,534	15,351	4,601	40,361,89	
1	Totals	4	57.964	1		15,600	
2			170,972	16		33,373 121,440	
4	Boars and canoes	118	2,279,362 18,732,564	468	184	1,372.089	
ã.	Boxes and packing cases	125	13,541,673	221		555,799	
6	Carringes, wagons and sleighs	399	8,356,233 765,546	173 16		338, 93- 41, 88-	
8	Bluerrating Boats and canoes Boxes and bags, paper Boxes and packing cases Carringes, wagons and sleighs Carriage and wngon materials Clottles pins Cotlins and caskets Cooperage Excelsior Furniture and upholstering	3	215.615	4	-	10,84	
18	Coffins and caskets	38	3,514,906 2,236,754	51		151.738 93.899	
11	Excelsion	9	283.365	1	4	14.999	
12	Furniture and upholstering	366		86:		2,607,61 112,77	
14	Lasts, trees and pegs Lithographing and engraving Miscellaneous wood products	119	19,975,562	725	349	2,453,06	
15	Miscellaneous wood products	154	4,943,456			241.08 483.45	
16 17	Paper goods, n.e s. Planing mills, sash and door factories, etc.	36 788	6,148,032 53,431,576	1.099	248	2,472,70 4,137,65	
18	Printing and bookbinding.  Printing and publishing.	912	38,755,308	1,48	545	4, 137, 65	
19 20	Printing and publishing	. 753 110		4,56 2,96		10,408,93 8,713,67	
21	Pulp and paper. Roofing paper, wall board, etc.	10		91	9 29	356,72	
22	Sawmills	2,967	175,729,448 1,843,501	1,66		4,017,03 94,45	
23 24	Sawmidls. Sporting goods Stationery and envelopes Stereotyping and electrotyping	31		21	90	595,60	
25	Stereotyping and electrotyping	. 27	1,246,088	7	1 21	178, 40	
26	Woodenware	. 12	844.207 1.568.202			96,24 89.78	
28	Woodenware Wood-turning All other industries	. 12		13		552.07	
	GROUP 5.—IRON AND ITS PRODUCTS.	1.155	202 021 186	11,48	8 3,314	39,307,21	
1	Totals	1,138	91, 342, 820	1.25	3 406	2,935,25	
2	Automobiles	. 14	97.056.328	1.74	0 696	5,255.89 891,10	
3	Bicycles and motorcycles	. 77	2,828,642	12	5 39	233,02	
5	Boilers, tanks and engines	. 35	9.352.068	26	3 55	655,75 4,827,04	
6 2	Custings and lorgings	. 327				1,777.40	
8	Iron and steel products, n.e.s.	70	14,145,791	54	7 112	1,339,38	
9	Machinery	161			9 542 1 92	4,410,34 3,221,13	
10 11	Sheet metal products	145		93	9 309	2,338.52	
12	GROUP 5.—HON AND ITS PRODUCTS.  Totals.  Agricultural implements Automobiles Biournes Biournes, tanks and engines Boilers, tanks and engines Custings and forgings Hardware and tools Iron and steel products, n.e.s. Machinery Railway rolling stuck Sheet metal products Steel and rolled products, pig iron, ferroalloys, etc.	)-			2 92	1,542,73	
	alleys, etc	46		52		1,542,72 879,60	

Materials and Value of Products of Canadian Manufacturing Industries, 1928-tinued.

Wage-Earners.		Power Cost of		Cost	Value of Products.			
dale.	Fe- male.	Wages.	Installed.	Fuel . Used.	of Materials.	Net.	Gross.	
No.	No.	\$	H.P.	\$	\$	\$	\$	i
41,156	62,847	81,366,324	163,779	3,684,772	223,730,616	191,671,848	415,402,46	34
237	213 648	427,283 708,014	256 1,100	8,799 19,749	1,509,610 12,494,239	1,125,105 1,789,157	2,634,71 14,283,39	5
128	109	233, 102	664	14.617	1.734,335	1.463.314	3, 197, 64	19
559 4.729	362 5.706	854,527 10,342,342	2.267 1.436	61,666 78,759	2,370,903 24,567,328	2,638,337 23,909,850	5,009,24 48,477,17	
3.961	10.559	13.059,243	2.875	54.629	36, 233, 645	27,092,856	63,326,50	11
826 72	397 1,000	1,256,908 693,280	7.961 294	30,951 7,381	7,624,155 2,055,416	3,215,806 2,101,532	10,839,96	Ly
179	104	244,218	1,096	8.956	1,914,870	670,378	4.246.94 2.585.24	15
184	316, 475 8,756	267,720 501,615	346 1,829	8,938 18,769	1,231,922	781, 152 2, 495, 641	2,013,07 4,464,98	1
12,139	8,756 6,342	15,939,770 8,970,202	80,572 14,499	1,062,438 1,002,489	44,704,779 3,007,047	34,514,803	79,219,58	2
124	4	46,715	471	6,007	78,662	20,611,776 154,048	23,6(8,82,71)	0
1,217 1,653	7,858 2,645	5,872,397 3,724,072	2.427	65.299 73,170	17.321,124	12,993,428	30,314,55	2
5, 165	11.598	12,478,792	1,741 15,744	521, 104	8,290,055 31,251,936	8,683,138 27,299,822	16,973,19, 58,551,750 545,54	8
65 151	118 127	120.004 226,017	589 626	11.251 18.911	297,461 2,053,601	248,080 514,098	545,54 2.567,69	-
141	160	303, 199	113	10.912	826, 524	897,870	1,724,39	4
1,513	2,081 1,795	2,820,834 3,163,737	7,808 H,063	167, 691 279, 665	4,638,717 9,270,861	0,258,556 5,791,220	10,897,273 15,062,08	
715 767	377 1.045	877, 269	4.094	80,152	3,494,918	3,414,311	6,909,229 7,706,740	9
1433	1.040	1,235,064	3,908	77, 469	4,789,168	2,917,572	7,796,740	
8,820 15	11,233	138,882,808	1,908,738	14, 428, 373	293,159,913 53,965	389,389,952 36,859	682,549,863 90,82	5
60	8	11,316 60,234	59	1,199	77,750 443,786	200, 144	277,89	4
710	2,536	684,982 3,470,396	1,253; 5,817.	9,888 83,708	443,786 10,825,855	1,554,099	277,894 1,997,895 21,112,25	5
3,100 2,192	274	2 701 778	13,865	36,208	5, 333, 513	10,286,396 5,239,498	10,573.01	Į.
143	1	2.273,121 158,173	4.054	95,813 6,678	3,688,371 430,668	4,506,565 370,053	8, 194, 936 800, 721	1
156 530	45 97	123,186 619,297	714 2.278	22.831	99,300 1,319,555	292,508 1,615,350	391,809 2,934,998	8
554	3	511,080	2.381	15, 128	2,382,415	1,215,074	3,597,489	3
0.810	23 521	53,150	20.040	379 364,579	2,382,415 87,158 16,312,469	139,642 25,513,065	226,800 41,825,534	ш
347	123	400.497	882	10,304	294.875	971.455	1,266,330	9
3,029 1,012	1,267	5,865,132 755,086	4.498 3.313	75,716 16,897	5,858,493 1,466,832	13,349,165 2,309,004	19,207,658 3,775,836	6
619 0,874	202	894, 286 10, 858, 423	3,094	\$1,560	4,042,970	3,672,255 22,678,427	3,775,836 7,715,223	1
7,232	2.529	11,551,482	52,311 10,174	158,744 147,382	30,021,888 13,321,821	27,696,645	52,700,315 41,018,460	1
8,421 9,253	1.484 854	13,834,976 38,608,977	18.810 1,459,256	308,289 12,403,083	15,696,759 88,490,421	52, 183, 047 144, 586, 815	67,879,806 233,077,236	1
294	7	379, 113	1,138	83.383	2,959,463	2.884,924	5.844.387	
3.888	76 109	30,704,481	296,914 856	363, 232	89,451,801 878,529	58,972,953 1,118,494	139,424,754 1,997,023	1
375 258	689	953, 806	889	10,111 13,926	3,900,550	2,700,326	6, 600, 876	1
419	6 24	449,087 316,927	586 916	11,338 7,015	132,043 452,992	1,047,253 614,484	1,179,296 1,067,76	1
487 936	60 110	384,029 803,679	1.837 1.516	4.860 115,421	443,197 3,632,484	817, 240 2,818, 212	1,260,437 6,450,676	
		11.7						-
1,159	3,238 100	138,012,821 10,664,703	488,521 22,924	10,647,270 510,654	389,618,074 17,607,861	300,011,925 23,591,980	609, 632, 999 41, 199, 841	-
1,075	238	24.292,217	34,174	717,691	114,892,190	47,975,305	162,867,495	i
2.835 354	265 35	3,865,246 414,944	7,373 1,023	203,686	8,358,404 1,019,421	8,848,753 1,194,072	17,007,157	
1,432	13	1,737,444	7,629	19, 131 87, 712	3,228,497	3,278,940 50,374,704	2,213,493 6,507,437	
3,124	328 875	21,931,969 6,023,770	53,328 15,296	1,553,698 385,140	31,530,148 8,589,661	16.542.160	81,904,852 25,131,821	
3,072	25 266	3,939,968 10,527,756	7,965 35,254	88.903	7.922.881	9.644.134	17, 567, 015	
1,891	43	29, 231, 648	90,974	367,905 1,321,091	18, 976, 526 38, 110, 053	32,069,614 35,312,004	51,046,140 73,422,057	
3,668	816	8, 298, 451	16,530	468,245	24,660,978	25, 185, 693	49,846,671	11
	24	13,928,109	183, 177	4.722.021	27, 164, 463 7, 556, 991	34,907,214 11,290,355	62,071,674	iii

### 6.—Statistics of the Numbers, Capital, Employees, Salaries and Wages, Cost of

	Character Violate Valuation	Establish- ments.	Capital	Salaried Employees.			
o.N.	Group and Kind of Industry.		Employed.	Male.	Female.	Salaries.	
		No.	\$	No.	No.	\$	
C	HOUP 6.—Non-FERROUS METAL PRODUCTS.	496	253, 367, 370	5,00%	1,749	12,748,626	
- 1	otals. Aluminium products Brass and copper products Electrical apparatus and supplies.	14	253, 367, 370 5, 094, 213	54	15	155,473	
2	Brass and copper products	97	23.576.863	762		1,704,425	
3	Lead, tin and zine products	137 25	87, 952, 674 4, 673, 882	3.125 95		7,797,539 269,363	
å	Miscellaneous non-ferrous metal products.	17	943,914 120,035,742	40	6	113,370 1,635,580	
6 2	Non-ferrous smelting and refining Precious metal products	10	120,035,742 11,090,082	612 315		1,635,580 1,073,876	
	GROUP 7 NON-METALLIC MINERAL PRODUCTS.						
	Totals	1,178	298,693,122 7,317.105	2,996		6,983,637	
1 2	Abrasive products Aerated and mineral waters Asbestos and allied products	12 347	7,317,105 11,659,938	67 442		213,268 850,034	
3	A shoston and allied products	14	3,061.164	53		134,084	
4	Cement	11	47, 678, 841	113		256, 867	
5	Associates and a miled produces. Cement products. Clay products, domestic. Clay products from imported clays	151	4,140,543 32,473,203	146 321		283,545 806,209	
6 7	Chy products from imported clava	14	3,068.562	65	15	806, 209 217, 895	
26	Coke and gas products	45	92, 145, 190	653	230	1,304,534	
9	Coke and gas products Glass products	59 54	12,964,882 6,952,079	221 84		574,442 184,732	
10	Miscellaneous non-metallic products		8,331,500			260,818	
12	Petroleum products	25	56,531,614	412		1,169,042	
13	Salt	10	4,422,922 1,916,060	45 20	16	117,376 65,343	
15	Sait Sand-lime brick Stone, ornamental and monumental.	222	6,305,519	252		545,448	
	GROUP 8.—CHEMICALS AND ALLIED PRODUCTS		440 000 000	0.004		0 776 006	
	Potais	572 41	148,939,926 44,250,661	3,294	1,217	8,579,680	
2	Acids, alkalies, salts and compressed gases Coal far and its products	19	4,924,681	47		1, 162, 275 132, 291	
3	Explosives, ammunition, fireworks and						
	matches	14	19,361,448 2,131,905	150 28		320,306 79,445	
4 5	Coal far and its products.  Explosives, annualtion, fireworks and matches.  Fertifizers.  Inks, dyes and colours.	28	3.052.322	116		464,018	
6	Medicinal and pharmaceutical preparations	190	17,427,506	584		1,783,162	
7	Miscellaneous chemical in lustries	128	10,726,946 24,256,008	47€ 774		1,233,226 2,076,138	
8	Paints, pigments and varnishes Sonus, washing compounds and toilet pre	. 05	24,200,000	110	2.24	2,110, 100	
	parations	119	20,923,508	607		1,304,021	
10	Wood distillates and extracts	7	1,884,935	14		24,798	
1	Group 9.—Miscellaneous Industries.	453	119,692,877	2,407	643	6, 451, 109	
1	Advertising and other novelties	10	273,273	2	3 4	22, 101	
2	Artificial feathers and flowers	107	263,355 24,485,779	14 724	18 96	39,305 2,028,291	
3	Bridge building Broons, brushes and mops Buttons. Candles and tapers Fountain pens.	76		186	71	472,737	
5	Buttons	13	1,468,361	48		141,940	
6	Candles and tapers	11	531,769	33		27, 298 99, 717	
8	fountain pens	29	1,390,372 4,979,236	3		75.898	
9	Jewel cases and silverware cabinets	6	223, 136	13		28, 182	
10	Mattresses and springs	63	8,155,255 662,628	200		632,298	
11	Motion pictures	42				653,075	
13	Refrigerators. Regalin and society enthlems.	11	1.343.842	21	5 11	81.411	
14	Regalin and society emblems.	11 21		11	12 79	36,625 410,049	
15	Scientific and professional equipment Shipbuilding and repairs		37,072,996	53;	3 57	1,239,541	
17	Starons and stencils	31	619,888	6	1 20	120, 184	
18	Statuary, art goods and church supplies. Store and display fixtures	30		3	7. 21 8 6	84,597 22,339	
28	Tayle und games	113			9 2	19,216	
21	Typewriter supplies	4	592,887	2	6 11	103,746	
22	Typewriter supplies Umbrellas and parasols All other industries	9			1 7	56,304 7,144	
1	GROUP 10CENTRAL ELECTRIC STATIONS.		056 010 000	5,00	3 1,211	[0,459,158	
1.	Totals.	1,049	956, 919, 603	3,00	4 1,011	10, 200, 100	

Materials and Value of Products of Canadian Manufacturing Industries, 1928—cluded.

V	ingo-Earn	ета.	Power	Cost of	Cost	Value of P	roducts.	
Male.	Fe- male.	Wages.	Installed.	Fuel Used.	of Materials.	Net.	Gross.	No
No.	No.	\$	H.P.	\$	\$	\$	\$	-
24,692 468 4,067 10,892 437 137 6,804 1,887	4,124 72 415 2,958 65 44 37 533	34,749,216 649,920 5,092,991 14,958,670 491,240 450,437 10,593,158 2,896,800	294,642 2,919 14,976 49,748 1,953 185 221,884 2,977	3,246,564 37,194 371,941 601,457 40,729 5,488 2,133,998 55,787	98,746,618 1,865,328 15,716,748 38,784,421 4,105,167 304,387 33,260,225 4,709,743	139, 220, 908 1,327,368 12,740,682 54,888,031 1,388,193 802,252 61,081,477 6,992,905	237,966,927 3,102,696 28,457,430 93,672,452 5,493,360 1,106,639 94,341,702 11,702,648	
24, 251 594 1, 360 250 2, 285 1, 101 4, 826 568 3, 024 2, 607 1, 118 696 3, 820 3, 820 4, 826 1, 138	749 5 90 29 - 48 7 325 - 173 25 36 - 8	38, 152, 814 835, 253 1, 557, 827 287, 364 4, 375, 189 673, 230 4, 304, 245 3, 303, 723 1, 131, 383 856, 955 5, 753, 538 422, 399 286, 668 2, 033, 259	181,666 3,894 2,270 -2,014 73,609 2,258, 25,400 20,957 7,478 4,426 6,293 22,851 1,920 1,474 8,056	12,861,215 29,652 80,754 43,582 3,088,979 44,833 2,005,053 1,912,066 928,767,181,464 856,890 143,721 3,219,639 234,754 71,066 19,995	93, 693, 873 2, 169, 428 4, 705, 656 925, 661 1, 261, 653 708, 571 17, 164, 284 4, 791, 486 1, 790, 404 57, 383, 841 322, 027 2, 460, 900	112,388,264 4,952,160 5,972,175, 1,124,771 16,739,163 2,875,302 12,381,718 1,750,230 17,544,201 8,773,868 4,534,598 3,009,236 25,738,331 1,495,971 790,430 4,715,135	206, 082, 141 7, 122, 588 10, 077, 831 2, 050, 932 10, 739, 163 4, 130, 935 12, 381, 718 2, 458, 801 34, 718, 447 13, 565, 354 4, 720, 447 83, 122, 172 1, 405, 971 1, 112, 607 7, 175, 035	S 11 22 33 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8,826 2,330 197	2,793 10 4	11,719,237 2,981,027 255,372	71,401 45,406 446	1,832,453 652,033 132,699	74,163,334 23,404,991 2,734,823	72,812,563 18,931,855 1,671,084	146,975,833 42,336,846 4,405,907	
1,253, 206 236 773 917 1,645	590 3 48 960 404 238	1,539,933 201,664 341,355 1,591,862 1,204,200 1,891,157	6,450 649 1,049 1,907 3,593 6,110	156,410 12,135 15,995 75,242 142,108 214,142	6,652,193 1,446,800 1,182,603 5,707,934 6,033,188 14,489,934	6,869,527 743,186 2,151,565 11,516,417 6,799,599 13,378,112	13,521,720 2,189,980 3,334,168 17,224,351 12,832,787 27,868,046	8
1.066 203	536	1,484,527 219,640	5,211 520	241,468 190,221	11,684,391 826,477	9,932,626 818,532	21,617.017 1,445,009	7 1
14,342 15 3,153,153 1910 225 225 240 48 1,293 27,7 2,438 23 42,7 4,325 192 229 70 72 38,444 18	1,968 62 100 62 231 182 233 94 4 36 257 725 203 3 44 2611 12 8 194 8 46 18 137	18, 650, 939 63, 617 66, 089 4, 807, 919 862, 152 259, 828 39, 957 189, 238 311, 722 75, 803 1, 680, 861 148, 963 2, 863, 777 295, 168 55, 032 761, 295 55, 135, 511 239, 090 93, 270 94, 839 67, 922 123, 045 26, 016	\$3,660 35,818,233,1,651,537,15,179,7,588,199,7,598,17,5,069,730,23,195,27,661,149,137,866,93,141,35,71,71,75,666,93,141,35,77,71,75,666,93,141,35,77,71,75,666,93,141,35,77,71,75,666,93,141,35,77,71,75,666,93,141,35,77,71,75,666,93,141,35,77,71,75,666,93,141,35,77,71,75,666,93,141,35,77,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,75,71,71,75,71,71,75,71,71,75,71,71,71,71,71,71,71,71,71,71,71,71,71,	623,845 249 239 149,690 24,678 11,428 5,347 2,205 8,443 1,495 45,444 1,790 112,908 2,922 754 49,661 1187,435 4,872 3,989 2,507 2,435 3,586 463 1,325	35,699,24N 105,757 141,228 11,208,257 1,952,704 263,480 217,742 698,400 59,313 81,751 5,462,009 354,574 5,083,706 585,378 96,904 4,001,724 103,029 877 143,380 213,541 267,789 477,124 40,339	50, 439, 849 160, 061 255, 096 11, 375, 933 2, 448, 251 673, 840 142, 79, 580 1, 424, 380 216, 405 4, 940, 321 488, 468 7, 498, 823 901, 910 148, 167 3, 821, 306 12, 342, 892 558, 321 162, 100 216, 576 323, 992 329, 320 68, 794	85,530,00 265,811 306,322 22,584,190 4,401,041 937,322 460,852 1,977,981 1,483,702 298,156 10,411,33 843,042 12,282,588 1,487,292 215,077 6,004,1198 601,355 305,486 430,171 591,781 806,444 100,333	84 105 105 105 105 105 105 105 105 105 105
9,641	_	13,628,262	4,786,900	2,280,405	31,365,636	112,326,819	143,692,453	

### Subsection 2.—Manufactures Classified by the Purpose of the Products.

Production of Manufactured Goods According to the Purpose Classification.—In addition to the classification according to the chief component material of the products, used by the industrial census in detailed presentation, a separate and distinct classification, based on the chief purpose of the products, was applied for the first time to the census returns of 1922 and is presented for the years 1922 to 1927 in summary form, and for 1928 in more detail, in Table 7.

During the period covered by the table, the gross production of the food industries dropped from 27.5 p.c. of the total of all industries in 1922 to 22.1 p.c. in 1928. On the other hand the gross production of the group "vehicles and vessels", which includes automobiles, rose from 6.3 p.c. of the total for 1922 to 8.9 p.c. in 1928. Producers' materials also rose from 26 p.c. to 28.7 p.c. The percentage of the clothing industries remained about stationary, being 9.5 p.c. in 1928 as compared with 9.7 p.c. in 1922.

In analysing the relative standing of the two purpose groups which are perhaps of greatest interest, it is noted that the gross production of the food industries in 1928 was 22 p.c. of the output of Canadian manufacturing concerns, as compared with an output of 9.5 p.c. for the clothing industries. The greater production of the food group was in part due to the higher cost of raw materials, the value added by manufacturing being 12.5 p.c. of the total for all industries in the case of the food group and 9.9 p.c. for the clothing group. The clothing industries gave employment to approximately 14,000 more employees than the food industries.

# 7.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for 1922-271 and in Detail for 1928.

(All establishments irrespective of the number of employees.)

Purpose Heading,	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1922.1,1	No	s	No.	\$	8	\$	\$
Totals		3,125,772,761	462,573				
Food	8,245	341,682,489	66,444				
Drink and tobacco	496		13,402				
Clothing	1,279			65,595,519			
Personal utilities	936			17,080,049			
House furnishings	600			19,861,883			
Books and stationery			28,103				
Vehicles and vessels.	1,116		26,865	33,488.604		67,020,630	
Producers' materials.		1,011,268,819				319.818.227	636,218,627
Industrial equipment.		1,116,579,810		102, 487, 465		259, 472, 307	418,1143,581
Miscellaneous <sup>2</sup>	30	4,960,434	869	1,061,388	2,965,354	1,952.064	4.916,418
Totals	22,642	3,380,322,950	525, 267	571, 470, 028	1,470,140,139	1,311,025,375	2,781,165,514
Food	8,227			69,336,584	495, 485, 972		677,583,141
Drink and tobacco	520	109,441,567	14,081	14,471,362	32,859,746	68,500,186	101,359,932
Clothing	2,032	191,932,116		76,858,924			
Personal utilities	358		10,301	11,934,908			
House furnishings	585						
Books and stationery							
Vehicles and vessels.		214,335,369					227,001,835
Producers' muterials.		1,194,469,979					844, 429, 786
Industrial equipment.		1,093,181,458					
Miscellaneous	153	28,933,924	4,333	4,531,123	15,618,901	12,013,064	27,631,965

<sup>&</sup>lt;sup>1</sup> For details for the years 1922-1927 see previous editions of the Canada Year Book as follows:—1924, p. 393; 1925, p. 410; 1926, p. 396; 1927-28, p. 426; 1929, p. 423; 1930, p. 410.
<sup>2</sup>In the original compilation of manufacturing statistics for 1922 certain industries, notably ship-building,

<sup>&#</sup>x27;In the original compilation of manufacturing statistics for 1922 certain industries, notably ship-building, bridge-building, and some non-metallic mineral industries were excluded. Later these industries were included and the statistics by provinces and groups for 1922 appearing in Tubles 1 and 2 were revised accordingly, but a similar revision has not been worked out for the purpose classification.

# Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for 1922-27 and in Detail for 1928—continued.

(All establishments arrespective of the number of employees.)

							· · ·
Purpose Heading.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials,	Net Value of Products.	Gross Value of Products.
4004	No	\$	No.	\$	\$	\$	\$
Totals Food Drink and tobacco Clothing Personal utilities House furnishings Books and stationery Vehicles and vessels, Producers' nuterials Industrial equipment Miscellaneous	8,036 518 1,956 341 587 1,690 980 5,716	197,041,969 48,367,616 64,787,015 100,017,954 205,551,891 1,251,962,266 1,149,628,422	80,406	17,142,226 40,212,100 44,977,607 176,646,967	515,708,299 30,159,283 130,130,048 20,304,177 22,448,984 32,360,935 117,545,075 384,533,291 160,470,513	130, 813, 958 21, 511, 207 32, 495, 853 74, 911, 094 77, 888, 209 383, 226, 055 264, 765, 817	702,713,901 111,877,777 260,944,006 41,815,384 54,944,837 107,272,029
1925.1 Totals Food. Drink and tobacco Clothing Personal utilities House furnishings Books and stationery Vehicles and vessels Producers' materials Industrial equipment. Miscellaneous	8, 264 543 1, 820 369 548 1, 644 944 5, 723	63.734,869 103.942,573 260,962,556 1,349,435,816 1,242,146,247	9,675 15,468 30,499 46,700 170,860 82,955	74, 946, 850 16, 183, 956 77, 458, 211 11, 370, 442 16, 475, 111 40, 928, 979 61, 847, 302 187, 777, 736 104, 411, 931	579, 235, 628 45, 204, 177 141, 218, 864 21, 861, 904 24, 101, 107 33, 184, 517 138, 327, 253 418, 569, 586	277.016,343	773, 424, 922 117, 451, 903 275, 711, 909 44, 049, 554 57, 137, 521 109, 865, 858 243, 034, 247
1926.¹ Food. Drink and tobacco. Clothing. Personal utilities. House furnishings. Books and stationery Vehicles and vessels. Producers' materials. Industrial equipment Miscelluneous.	8,259 574 1,878 384 543 1,746 917	211,149,085 50,497,988 60,277,954 108,582,186 271,239,055 1,404,500,475 1,313,175,892	87.343 15,341 91,215 10,633 15,684 31,500 50,731 182,599 93,956	78, 143, 649 46, 817, 622 85, 361, 018 12, 470, 247 16, 858, 549 43, 781, 918	581, 403, 701 45, 115, 122 158, 935, 630 24, 236, 502 22, 673, 689 34, 575, 475 178, 558, 815 453, 319, 903 240, 231, 533	85,780,145 147,616,042 25,487,509 32,679,963 81,543,751 119,505,351 482,446,753 302,683,501	783, 223, 094 130, 895, 267 306, 551, 672 49, 724, 101 55, 353, 652 116, 119, 226 298, 064, 166
Totals Food Drink and tobacco Clothing Personal utilities House furnishings Books and stationery Vehicles and vessels Producers' materials Industrial equipment Miscellaneous	570 1,988 391 553 1,795 872 5,762	227,438,240 54,029,497 63,578,269 120,028,624 279,080,400 1,521,762,956 1,460,936,792	\$8,967 16,276 97,918 40,754 47,438 33,732 49,885 200,335 99,200	81,722,970 18,312,164 91,236,448 12,758,956 19,151,982 46,913,071 70,622,546 219,116,312	586, 128, 205 52, 850, 437 161, 946, 983 26, 061, 404 26, 474, 235 38, 755, 189 174, 846, 848 450, 761, 472 255, 618, 597	27, 133, 729 36, 313, 804 90, 338, 506 124, 565, 024	803,004,230 159,557,168 326,716,323 53,195,133 58,788,039 129,093,695 299,411,872 970,612,442
Totals	23,379	1,780,296,049	658,023	735,199,372	1,950,804,339	1,819,046,025	3,769,850,364
Food Breadstuffs. Fish Frints and vegetables Meats Milk products. Oils and Ints Sugar industries Infusions Miscellaneous	8,212 4,116 713 284 107 2,833 6 20 61	169,943,075 26,941,283 38,829,284 69,419,102 53,552,319 850,226 49,218,388 14,599,825	12,257 119 2,471	84,096,261 37,872,600 5,201,000 4,852,350 14,571,382 12,809,102 146,789 3,782,763 2,201,043 2,509,196	234, 131, 236 20, 578, 767 22, 993, 709 143, 736, 132 109, 589, 676 335, 088 41, 722, 123 21, 257, 199	100,418,687 15,688,965 16,453,537 32,455,211 34,783,938 267,190	832,660,742 836,552,323 36,267,732 39,447,246 176,101,343 144,373,614 602,278 53,336,792 27,201,293 18,628,092
Drink and Tobacco Beverages, alcoholic Beverages, non-alcoholic Tobacco	385	118,435,789 17,356,506	2, 255		30,874,600 6,912,322	68,459,541 7,440,054	99,334,141 14,352,376

7.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Products, by Main Groups for 1922-27 and in Detail for 1928—concluded.

(All establis	hments irrespe	cline of the num	iber of employees.)
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Purpose Heading.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
	No.	\$	No.	\$	\$	\$	\$
Clothing	2,062	242,819,963	104,008	98,069,749	179.311.512	180, 265, 193	359,669,705
Boots and shoes	210	47,669,216		22,327,639	36,318,690	44,447.324	80,766,014
Fur goods	237	14,934,287	3,810	4,692,505	14, 127, 017	9, 150, 348	23.277,365
furnishings	837	78,803,518	39,557	38, 166, 601	80, 177, 543	66, 187, 666	146,365,179
Gloves and mitts	49	3.845.708		1,459,668	3.150.901	2,218,055	
Hats and caps	166	8,427,970	5,064	4.984.799	8,431,283	8,938,234	17.399,517
Knitted goods	165	60,399,926	17.974	15,058,696	31,251,936	27,299,822	58,551,758
Waterproofs	18	1,238,488	359	426,614	826,524	897,870	1,724,394
Miscellaneous textiles,	380	26,691,850	11,999	10,955.227	E 000 040	21,125,874	26,186,522
0.0.8	000	20,091,000	11,999	10,800.224	5,060,648	21,160,074	20,100,044
Personal Utilities	390	34,569,674	11,294	12,999,442	26,245,820	39,281,615	56,527,435
Jewellery and time-							
piece:	112	11,313,218		3,984,661	4.791,494	7,209,310	12,000,804
Recreational supplies	74	16,126,621	3,608		6,175,836	8,533.893	14,709,729
Personal utilities, n.e.s.	204	27, 129, 835	4,645	4,908,735	15,278,490	14,538,412	29,816,902
House Furnish-							
ings	598	72, 394, 155	19,807	21,811,858	34,753,455	41,597,051	73,359,506
Books and Sta-		484 644 600	90 410	F4 686 407	10 000 000	488 040 097	147 676 704
Vehicles and Ves-	1,893	131,944,080	36.156	51,992,487	43,090,386	100,848,835	143,939,721
sels	859	298, 174, 301	58.022	85,268,214	200,180,697	136,245,594	336,396,291
Producers'	£ 001	4 700 070 074	010 007	007 040 000	504,241,541	770 TOD 074	1,080,948,395
Materials	12	1,729,056,251 2,131,905			1.446.800	743.186	
Manufacturers'	La	m, 101, 000	201	201,100	1, 110, 000	(10,100	2,100,300
materials		1,292,250,991			322,817,448	395,073,905	
Building materials		350,026,208			144,062,627	141,064,410	
General materials,	607	84,647,147	18,935	18,832,386	35,914,666	39,825,353	75,740,019
Industrial							
Equipment	2,601	1,595,482,231		139,693,545	280,923,071	383, 193, 287	664,116,358
Farming equipment	70	01,200,784	10,883	13,626,869	17,661,826	23,628,839	41,290,665
Manufacturing equip-	674	70 715 405	11 400	12 421 000	10 021 101	22 041 000	50 210 470
Trading equipment	176 77	70,745,425 6,710,057		15,451,369	19,271,401 679,268	33,041,069 2,628,863	
Service equipment	236	39,331,110			10,913,832	18,294,723	
Light, heat and power							
equipment		1,204,749,068					
General equipment	741	182,745,787	33,304	41,416,970	83,382,856	91,270,876	174,653,732
Miscelianeous	167	34,762,276	4,675	5,857,288	16,799,548	15,057,319	31,847,867

### Subsection 3,-Manufactures Classified by Origin of the Materials.

Classification of Manufacturing Production according to the Origin of the Materials Worked Upon.—The principal statistics of the manufactures of Canada, classified upon the basis of "origin", are presented in Table 8 for the years 1926 to 1928. By this means Canadian manufacturing production may be analysed from a new angle, one by means of which interesting comparisons may be made with the external trade classification according to origin.

The manufacturing statistics for 1924 were the first to be analysed upon the origin basis. While the period available for review only covers, therefore, the short space of the four years from 1924 to 1928, interesting changes have taken place in the relative importance of the industries based on materials from the different origins. Since the purpose of such a comparison is to dis-

cover the relative importance of the manufactures developed to work upon materials from the different origins, the figures of net value of products or the value added to the raw materials by the manufacturing processes will give a more accurate measure of the importance of the industrial groups than the figures of gross value of products. The values added by the manufacture of materials of farm origin, while increasing in amount, have dropped from 30.7 p.e. of the total for all industries in 1924 to 28.4 p.e. in 1928. Similarly, industries of the forest origin group have decreased from 23.8 p.c. in 1924 to 21.3 p.c. in 1928. The values added by industries of the mineral origin group on the other hand have increased from 27.9 p.c. of the total for all industries in 1924 to 34.1 p.c. in 1928. This rapid increase in the relative importance of the industries of the mineral group is probably due to a number of influences. The expansion of the motor vehicle industry, the rapid growth in the use of electrical equipment, increasing activity in construction which absorbs large quantities of steel, cement and various other manufactured mineral products, and the development of metallurgical plants in Canada are some factors in the growing importance of the mineral group of industries. Another factor in this trend is the growing appreciation and development of the wealth of the mineral resources of Canada. Not only do the various mining activities make the raw materials for mineral industries more readily available, but those activities also require large quantities of machinery, electrical apparatus and other finished products of mineral origin.

In the year 1928, the industries of the mineral group exceeded those of any other group in the net value of products with 34·1 p.c. of the total, as compared with 28·4 p.c. for the farm and 21·3 p.c. for the forest origin groups. These three principal groups stood in the same order of importance with regard to employees engaged and salaries and wages paid. In the matter of capital invested the mineral group also leads with 29·5 p.c. of the total, followed by the forest group with 24·2 p.c., central electric stations with 20·0 p.c., and the farm group with 19·9 p.c.

### 8.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material Used, 1926-1928.

c.111 establishments serespective of the number of employees i

	, Lie raceu	risaldon's co.	os prostuse i	or one names	e of surposes	(S.1	
Origin.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
Totals Farm origin -	No. 22,708	3,981,569,590	No. 581,539	\$ 653,859,933	1,755,154,399	£,492,645,039	3,247,803,438
(a) From field crops, Canadian origin. Foreign origin.	263	323.033.863	50,017	95,403,666 54,719,806 40,683,860	299, 452, 868	187, 256, 154	486,709,022
(b) From animal hus- bandry Canadian origin Foreign origin	4.149 4.137 12	248,759,804	65,939		334,243,258 333,770,293 3,472,965		
(e) Totals, Farm Origin Canadian origin Foreign origin		821,711,635 571,793,667 252,917,958	121,959	124, 409, 952	823,765,766 633,223,161 190,542,605	320,739,687	
Wild life origin Marine origin Forest origin Mineral origin Mixed origin Contral electric stations	1.748	28,868,071	17,408 133,428 173,515 72,558	4.328,731 5.622,837 159,969,652 226,892,795 70,105,196 19,943,000	489,898,292 120,426,791	14,156,635 337,511,793 492,294,727 125,583,372	36,190,764 597,551,657 982,103,019 245,930,163

Corresponding figures for 1924 and 1925 will be found in the 1930 Year Book, p. 412 19450—6

### 8.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material used, 1926-1928—concluded.

(All establishments weespectus of the number of employees.)

Origin.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Net Value of Products.	Gross Value of Products.
1927.	No.	\$	No.	\$	\$	8	8
Totals	22,936	4,337,631,558	618,933	693,932,228	1,789,574,604	1,635,923,936	3,425,498,540
(a) From field crops	4.977	613,855,706	104.850	103,990,849	495, 122, 606	332,027,953	827, 150, 559
Canadian origin	4,683	358.813.700	58,484	58, 483, 142	312,675,963	215,539,287	528, 215, 250
Foreign origin	294	255,042,006	46,366	45.507.707	182, 446, 643	116,488,866	298, 935, 309
(b) From animal hus-							
bandry	4.007	283.449.879	70,131	73.587.671	336,059,831	151,765,691	487,825,522
Canadian origin	3.993	261, 122, 061	67,241	71.247,700			
Foreign origin	14	22.327.818	2,890	2,339,971	4.016,631	5,554,286	9.570,917
(c) Totals. Farm							
Origin	8,984	897,305,585	174,981	177,578,520			1,314,976,081
Canadian origin	8,676		125, 725		644,719,163		1,008,469,855
Foreign origin.	308	277.369.821	49, 256	47.847.078	186,453,274		308,506,011 $22,876,280$
Wild life origin.	244	14,489,527 24,454,482	3,880	4,588,689	13,462,752 18,364,846	9,413,528 12,719,763	31, 084, 609
Marine origin	773	1,029,144,236	16,697	5.373,951			
Forest origin		1,268,521,442					1,025,402,701
Mixed origin	1,838		78.564	76,830,335			
Central electric stations	1.897	866,825,285		22.946.315	30,785,270		134,818,567
1928.	1.1.01						
1928.							
Totals	23,379	4,788,296,049	658,023	755, 199, 372	1,959,804,339	1,810,046,025	3,769,859,364
Farm origin -		081 010 001	440 400	esa ala sad	740 401 504	0.10 510 000	022 010 440
(a) From field crops	5,035			110,960,496		363,530,939	
Canadian organ	* 1,740		62,843	63.285.079	331,757,735		
Foreign origina.	205	256,576,742	47,659	47, 675, 417	181,723,766	115,972,763	297, 196, 529
(b) From animal husbandry	3.946	296, 631, 572	72.592	76,208,206	365,750,609	153,788,029	519,538,638
Canadian origin.	3,930			72,766,657	361, 111, 892		508.641.365
Foreign origin	16			3,441,549		6, 258, 556	
o Totals, Farm							
Origin	8,981	951, 2KB, 466	183,094	187,168,702	879, 232, 110		1,396,551,878
Canadian origin.	8,670	668,544,021	131,502	136,051,736			1,087,957,276
Fereign origin	311	282,736,445	51,592	51, 116, 966	186, 362, 483	122,231,319	308,593,802
Wild life origin	237	14,934,287	3.810	4,692,505	14,127,017	9.350.348	23,277,365
Marine origin	713	26,941,283	15,434	5,261.096		15,688,965	
Forest origin	7.241	1,155,561,945		178, 151, 066		387, 224, 205	
Mineral origin	3,256	1,411,098,815	198,676				1,194,975,729
Mixed origin	1.902	263,559,650 956,919,603		83,493,537 24,087,420			295,712,459 140,692,455

### Subsection 4.—The Forty Leading Manufacturing Industries.

The Forty Leading Industries in 1928.—All of the ten foremost industries of Canada expanded their production during the year 1928 as compared with the previous year. The pulp and paper industry again exceeded all others in gross value of products. Indeed there was very little change in the order of the ten leading industries when compared on this basis with 1927. The automobile industry rose from sixth to fourth place, the expansion of \$34,000,000 in the gross value of its products being partly due to the fact that production was abnormally low in the previous year, as production was largely suspended in one of the principal plants in Canada, pending a change of models. Petroleum products moved up from fifteenth place in 1927 to eleventh in 1928. The gross value of the products of the sugar refining industry were over \$8,000,000 less in 1928 than 1927, but this was the only important industry to show an appreciable decline.

The net values of products provide a better measure of an industry's contribution to the national income than gross values do. On the basis of net value, or value added by manufacture, the order of importance of the industries in 1928 was very different from that based on gross value. The pulp and paper industry was foremost in this respect also, but it was followed by central electric stations, non-ferrous metal smelting, sawmills, electrical apparatus, printing and publishing, rubber gonds, eastings and forgings, automobiles, cigars and cigarettes, and breweries.

The central electric station industry represented the greatest investment of capital, while next in order were pulp and paper, sawmills, non-ferrous metal smelting, and iron blast furnaces and steel mills.

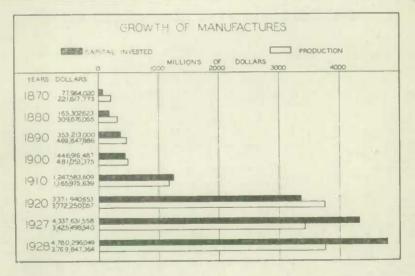
As a measure of the employment provided by an industry the salaries and wages paid are probably a better guide than the number of employees reported, especially in industries where operations are seasonal. In the amount of salaries and wages paid the pulp and paper industry came first, being followed by sawmills, railway rolling stock, automobiles, eastings and forgings, central electric stations, printing and publishing, electrical apparatus, rubber goods, and cotton varn and cloth.

9.—Principal Statistics of Forty Leading Industries, 1928.

Rubber goods, including footwear  Non-ferrous metal sinelting.  10								
No.   \$   No.   \$   \$   \$   \$   \$   \$   \$   \$   \$	Industry.	lish-	Capital.		and	of		
Pulp and paper		1114-11100			11100000	116501-0-6 216627.	195,00	Orose.
Flour and grist mills. Slaughtering and ment packing.  Automobiles.  75		No.	\$	No.	\$	\$	\$	8
Flour and grist mills. Shaightering and ment packing. Automodules  75  86,198,507  11,244  14,242,362  142,396,342  147,975,305  162,807,420  31,700,077  174,096,4  75,876,328  16,749  29,548,114  114,822,196  47,975,305  162,807,420  31,395,363  123,268,801  13,392,326,801  14,392,363  11,411  11,755,447  12,236,303  13,242,75  13,106,303  13,242,75  13,106,303  14,242,362  142,396,342  142,396,342  144,892,363  144,892,343  144,21,396  145,926,801  141,482,196  148,927,196  148,927,196  148,927,196  148,928,196  158,943,730  158,943,740  158,943,740  158,943,740  158,942,943  158,942,943  158,942,953  138,942,755  138,941,77  137,74,948,84,820  158,942,943  158,942,943  158,942,956  178,948,84,842  178,948,80  188,943,740  188,943,740  188,943,740  189,943,841  199,94,341,70  189,94,341,70  189,94,341,70  189,94,341,70  189,94,341,70  189,94,341,70	Dolo on Language	110	GRS 697 480	22 614	47 100 648	99 400 101	44 500 016	022 022 000
Slaughtering and meat-packing								
Purching		1,019	00,014,010	0,000	1,010,014	100.002,041	20,000,000	190,098,124
Action of lifes		75	B6 198 507	11 244	14 242 862	149 396 349	31 700 077	174 006 110
Central electric stations								
Sawmills								
Butter and cleese								
Rabber goods, including footwear	Butter and cheese							130, 212, 308
10							0110001000	000,215,000
Non-ferrous metal   10   120,035,742   7,526   12,228,738   33,260,225   41,081,477   94,341,7   17   18   19   19   19   19   19   19   19	ing footwear	45	70,459,066	17,095	18,943,730	45, 118, 570	_2.090.143	97, 208, 713
10   120,035,742   7.526   12.228,738   33.260,225   61.081,477   94.341,77	Non-ferrous metal							0110001740
Steel and rolled products   23,853,082   14,372,488   36,324, 18,189   22,756,209   38,784,412   84,888,031   93,672,4   34,196   6,922,586   57,383,318   15,738,331   83,122,1   20,782   26,759,016   31,530,148   6,0374,704   84,004,836   10,685,894   86,233,645   87,092,856   63,320,5   87,092,856   63,320,5   87,092,856   83,285,851,761   83,511   83,511   84,698,843   82,071,842   84,007,849   84,007,211   82,071,842   84,007,849   84,007,211   82,071,842   84,007,849   84,007,211   82,071,842   84,007,849   84,007,211   82,071,842   84,007,849   84,00		10		7.526		33,260,225	61,081,477	94,341,702
Petroleum products	Electrical apparatus	137	87,952,674	18,190			g4.888.031	93.672.452
Cotton yarn and cloth. Railway rolling stock Railway rolling stock Brend and bakery products.  2.482								83, 122, 172
Railway rolling stock Brend and bakery products Clothing, women's free tory.  Steel and rolled products, pic from the steel and collectionery.  Cligars and cigarettes.  Biseuits, confectionery.  chewing gum, etc  114, 292, 363  16, 39, 926  17, 971  18, 361  18, 361  18, 361  18, 361  18, 422, 43, 390  18, 41, 37, 449  18, 421, 38, 41, 390  18, 444  18, 421, 431, 431  18, 43	Castings and forgings	327	95,326,911	20,782			g 0,374,704	81,904,852
Brend and bakery products   2,482   44,377,449   15,422   16,901,238   36,151,747   \$6,075,350   71,227,0   72,979,	Cotton yara and cloth							79,2(9,582
Clothing, women's free tory   444	Railway rolling stock	35	89,053,842	22,417	32,452,781	38,110,053	-5,312,004	73,422.057
Printing and publishing. Clothing, women's free tory. Steel and rolled products, pix from etc. Cigars and cigarettes. Proverties. Proverti								
Clothing, women's factory.  444 25.557,610 18.351 16.685,894 36.233,645 7.092,886 63,326,5 85 teel and rolled products, pic fron, etc  444 25.557,610 18.351 16.685,894 36.233,645 7.092,886 63,326,5 9.057 15.470,836 27,164,463 44.907,211 62.071,6 6.644 6.197,918 18.469,843 42.907,889 61.077,7 98 67.148,686 5,003 7,080,761 20.737,486 40.172,912 60,910,3 18.68 18.688, 18.888, 18.688, 18.688, 18.688, 18.688, 18.688, 18.688, 18.688, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.888, 18.	ducts							71,227,097
tory Steel and rolled products, pic iron, etc		753	60, 822, 600	15, 113	24, 243, 906	15,1196,759	w2,183,047	67,879,806
Steel and rolled products, pic iron, etc         40         114,292,363         9,057         15,470,836         27,164,463         \$\chi,4907,211\$         62,071,6         62,071,6         6,644         6,197,918         18,469,843         \$\chi,297,78,898         61,077,7         867,148,086         5,003         7,080,761         18,469,843         \$\chi,297,73,486         \$\chi,207,73,486         \$\chi,20			24 242 114	44 074	40 000 000			
ducts, pic from, etc 40 114, 292, 363 9,057 15, 470, 836 27, 164, 163 14, 907, 211 62,071, 68 (177, 77 18 18 18 18 18 18 18 18 18 18 18 18 18	tory	444	25,557,610	16,351	10,685,894	36,233,645	· 7,092,856	63,326,501
Cigars and cigarettes 79 37,243,547 6,644 6,197,918 18,469,843 42,007,889 61,077,7 8 Prevertes 78 07,148,086 5,003 7,080,761 20,737,480 40,172,912 60,910,3			*** 303 000	0.055	18 1PA 000	07 404 130		
Breweries								
Biscuits, confectionery, chewing guin, etc   283   52,353,082   13,274   12,534,629   28,480,230   11,923,993   60,404,2   10siery, knit goods and gloves.   165   60,399,926   17,974   15,056,696   31,251,936   37,299,822   58,551,7   788   33,431,576   12,131   13,330,829   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   52,700,3   30,021,888   12,678,427   30,021,888   12,678,427   30,021,888   41,833,281   36,71,988   36,71,988   41,833,281   36,71,988   41,833,281   36,71,988   36,71,988   41,833,281   36,71,988   41,833,281   36,71,988   41,833,281   36,71,988   41,833,281   36,71,988   41,833,281   36,71,988   41,833,281   36,71,988   41,833,281   36,71,988   41,833								
chewing gunn, etc			07,148,080	5,003	7,080,701	20,737,480	10.1/2,912	00,910,398
Hosiery   Knit goods and gloves   165   60,399,926   17,974   15,056,696   31,251,930   37,294,822   58,551,7		202	50 949 080	13 974	19 534 690	98 480 9gn	- 1 nee nee	60 404 000
Section   165   60,399,926   17,974   15,066,696   31,251,930   37,299,822   58,551,7			02,000,002	10, -13	10,004,000	20,400,201	41,820,890	00,404,223
Planing mills, etc.   788   53,431,576   12,131   13,330,829   30,021,888   42,678,427   52,700,3     Sugar refineries   8   48,625,818   2,381   3,671,086   40,551,874   11,533,281   52,085,1     Muchinery   161   09,404,536   10,855   14,982,608   905,526   42,009,614   51,046,1     Boots and shoes, leather   199   31,433,028   15,505   14,982,608   26,383,043   23,635,759   50,018,8     Sheet metal products   146   45,346,299   87,722   10,636,976   24,660,973   34,185,693   48,847,1     Clothing, men's factory   218   27,263,996   11,879   13,085,548   24,567,328   19,909,850   48,477,1     Acids, alkalies, saits and compressed giases   41   44,250,661   2,943   4,143,302   23,404,991   49,31,855   42,336,8     Acids alkalies   41   44,250,661   2,943   4,143,302   23,404,991   49,31,855   42,336,8     Acids alkalies   41   44,250,661   2,943   4,143,302   23,404,991   49,31,855   42,336,8     Acids alkalies   41   44,250,661   2,943   4,143,302   23,404,991   49,31,855   42,336,8     Acids alkalies   41   44,250,661   2,943   4,143,302   4		145	60 300 026	17 970	15 056 606	31 951 036	27 900 699	50 551 750
Sugar relineries     8     48.625,818     2.381     3.671,086     40.551,874     41,533,281     52,085,1       Muchinery     161     69,404,536     10.855     14,938,096     18,976,526     42,069,614     51,046,1       Boots and shoes, leather     199     31,433,028     15,505     14,982,608     26,383,043     24,635,759     50,018,8       Sheet metal products     145     45,346,299     8,732     10,636,970     24,660,978     48,185,693     49,846,6       Acids     alkalies     safts       and compressed gases     41     44,250,661     2,943     4,143,302     23,404,991     49,31,855     42,336,8	Pluning pulls ata							
Machinery   161   99,404,536   10,855   14,988,906   18,976,526     42,009,614   51,046,1   199   31,433,028   15,505   14,982,608   26,383,043   23,635,759   50,018,85   14,982,608   26,383,043   23,635,759   50,018,85   14,982,608,970   24,660,973   34,185,603   48,862,608   41,877,1   41,250,661   44,250,661   45,260,661								
Boots and shoes, leather   199   31.433,028   15.505   14.982,608   26.383,043   24.635,759   50.018,8     Sheet metal products   145   45.346,299   8.732   10.836,970   24.660,978   34.185,603   49.466,070     Clothing, men's factory   Acids   alkalies, saits and compressed gives   41   44.250,661   2.943   4.143,302   23.404,991   4.931,855   42,336,8     Acids   14.982,608   1.948,209   1.879   1.8								
Sheet metal products.								50,018,802
Clothing, men's factory 218 27, 263, 996 11, 879 13, 085, 548 24, 567, 328 8, 909, 850 48, 477, 1 Acids, alkalies, saits and compressed gives 41 44, 250, 661 2, 943 4, 143, 302 23, 404, 991 4, 931, 855 42, 336, 8								49.846.671
Acids, alkalies, saits and compressed gases 41 44,250,661 2,943 4,143,302 23,404,991 4,931,855 42,336,8								48, 477, 178
and compressed gases 41 44,250,661 2,943 4,143,302 23,404,991 4,931,855 42,336,8							2,.00,000	-0.1111111
			44,250,661	2,943	4,143,302	23,404,991	/4.931.855	42,336,846
r armiture and uppositer.	Farniture and upholster-							-,,010
			39,829,474	12,539	13.689,344	16,312,469	\$,513,065	41,825,534
1950-63								

9.—Principal Statistics of Forty Leading Industries, 1928—concluded.

	Estab-	et utaut	Em-	Salaries	Cost	Value of l	Products.
Industry.	lish- ments.	Capital.	ployees.	Wages,	Materials.	Net.	Gross.
	No.	S	No.	\$	\$	\$	\$
Agriculturalimplements	66	91,142,820	10,867	13,599,953	17,607,861	23,591,980	41,199,841
Printing and bookbind-	912	38,755,308	11.794	15,692,133	13,321,821	27,696,645	41,018,466
Distilleries	18	51,287,103		2,560,459	10, 137, 114	28,286,629	38,423,743
Fish-curing and packing	713			5, 261, 096			36,267,733
Leather tunneries	91	31,259,692		4,486,828	26, 253, 779		
Coke and gas products	45	92,145,190		5.608,779	17, 164, 246		
Furnishing goods, men's	159	21,064,504	9, 9(19)	7, 270, 875	17,321,124	12,993,428	30.314,55
Brass and copper pro-	97	23.576.863	5,437	6,797,418	15,716,748	12,740,682	28, 457, 436
ducts	69	24, 256, 008		3,967,295		13, 378, 112	
Paints and varnishes Cottee, spices, etc	41	14,599,825		2,291,043		5,944,093	
t, ottae, spices, etc		13,000,000	\$ . W(H)	5,500,080			
Totals, Forty Leading							
Industries	17, 435	3,937,364,857	496,781	577, 221, 674	1,603,637,823	1,412,769,957	3,916,407,78
Grand Totals, All In- dustries	23,379	4,780,296,049	658,073	755, 199, 372	1,950,804,339	t,819,046,025	3,769,850,36
Percentages of forty leading industries to and industries	74-57	82-36	75-48	76 - 43	82 - 20	77 67	80.0



### Section 3.—Provincial Distribution of Manufacturing Production.

Ontario and Quebec are the most important manufacturing provinces of Canada. Their combined production in 1928 amounted to \$3.022.886,410, or over 80 p.c. of the gross value of manufactured products of the Dominion. Of this amount, Ontario contributed \$1,949,724,119 and Quebec \$1.073,162,291. The proximity of Ontario to the coal fields of Pennsylvania, the water-power resources of the two provinces and their nearness to the larger markets of Canada and the United States have all contributed to the above result. British Columbia had, in 1928, the third largest gross manufacturing production, \$270.851,669, and Manitoba the fourth, \$159,435,094. Alberta, Nova Scotia and

New Brunswick followed with \$100,744,401, \$84,948,608 and \$67,413,742 respectively, succeeded by Saskatchewan with a production of \$59,125,280 and Prince Edward Island with \$4,445,160.

### Subsection 1.—The Manufactures of the Maritime Provinces, 1928.

Table 10 contains statistics of the ten leading industries of each of the Maritime Provinces for the year 1928. In Prince Edward Island the manufacture of butter and choose, with a gross production in 1928 of \$1,247.128, was the leading industry, followed by fish-curing and -packing, with a gross production of \$756,210. Manufacturing in Nova Scotia and New Brunswick is, of course, to a considerable extent dominated by the steel industry in the former and the forest industries in the latter, although there is a large sugar refinery in each province. Fish-curing and -preserving, the manufacture of biscuits and confectionery, electric light and power production, and butter and choese making are also of considerable relative importance. The sawnilling industry of New Brunswick, with a gross value of products in 1928 of \$9,709.633 or over 14 p.c. of the total manufacturing production of the province, provided almost 7 p.e. of the total of the gross production of the industry throughout the Dominion.

#### 10 .- Statistics of Ten Leading Industries of each of the Maritime Provinces, 1928.

Note.—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are:—in Prince Edward Islaml, tobacco and cigars, colfins and caskets, slaughtering and meal-packing and railway rolling stock; in Nova Scotia, betroleum, sugar refineries, coke and gas and wire products; in New Brunswick, sugar refineries and railway rolling stock. The statistics for these industries are included in the grand totals.

### PRINCE EDWARD ISLAND.

Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages,	Cost of Materials.	Gross Value of Products.
	No.	8	No.	\$	8	8
Butter und cheese	38	265, 839	109	73,199	1,026,607	1,247,12
Fish-curing and -packing	108	190.290	1,211	83,853	524, 469	756,21
Castings and forgings	3	331,136		54,768	69.965	199.12
Printing and publishing	12	167, 197		94.272 46.341	31.184	194.79 190.47
Central electric stations	16	700, 185 75, 447		7.910		177,34
Bread and lakery products	8	69, 787		24.576	82,247	150.18
Saw mills	48	135, 150		18.225	80,983	131.91
Planing mills, etc.	4	189, 270		35,455	34.975	91.98
Starch and glucose	- 4	38, 384		11.842	50,539	91,59
Totals, Ten Leading Industries	245	2, 162, 685	1.741	428, 441	2,011,118	3, 236, 73
Grand Totals, All Industries	277	3, 121, 568	2,035	712.945	2,717,292	1,145,16
	2	NOVA SCOT	IA.			
Rolled iron, steel products, pig iron	6	29, 978, 715	0.504	2 002 144	7.087.650	15,625,20
and ferro-alloys Fish-curing and -packing	219	3,724,210		3,263,144 1,201,169	5,069,031	7, 930, 90
Sawmills	352	3,915,452		658,020	2.017, 463	3, 441, 44
Biscuits, confectionery, cocoa and	302	0,010,402	2,000	000,020	8,011,100	0,448,43
chocolate	1.6	4,437,146	1,270	1,094,236	1,620,205	3,439,53
Central electric stations	78	14, 130, 973	561	065.981	652,960	3,280,34
Butter and cheese.	30	1.078,113	274	295.992	2.074.759	2,881,04
Hosiery and knitted goods	4	3,606,214	578	461, 200)	1, 254, 706.	2,248,57
Shipbuilding and repairs	13	10,999,345		726,772	458, 188	1,972.43
Printing and publishing	36	2.033,158		786,835	404,390	1,923,85
Castings and forgings	1.5	2,180,896	-191]	560, 293	463,805	1,724,06
Totals, Ten Leading Industries.	759	76,081,222	12,712	9,713,651	21,083,047	44,467,40
Grand Totals, All Industries	1, 167	135,809,331	19,222	15,838,394	44,108,441	81,918,60

EW			

Industry.	Estab- lish- mente.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
Sawmills	No. 180	\$ 22,463,064	No. 4,194	\$ 2,298,685	6,450,036	\$ 9,709,633
Pulp and paper	4	25,029,910	1,329	1,622,277	3,847,154	8,225,586
Cotton yarn and cloth	4	5,579,783	1,731	1,322,025	2.260,268	3.972,466
Biscuits, confectionery, cocoa and chocolate	8	2,209,423	714	558,813	1,500,368	2,901,756
Coffee and spices	5	1,819,246	140	164,628	2,512,073	2,883,800
Fish-curing and -packing	152	1,622,762	2.035	347,563	1,595,688	2,552,991
Planing mills, sash, doors, etc	27	1,769,497	660	564, 256	1,561,390	2,498,353
Central electric stations	44	22,181,342	302	349,282	489,014	2,389,616
Shughtering and meat-packing.	9	1,060,650	195	257,176	1,861,510	2,335.973
Butter and cheese	38	917.053	200	197,040	1,258,961	1,859,635
Totals, Ten Leading Industries	171	84,652,730	11,500	7,681,745	23, 336, 462	39, 329, 809
Grand Totals, All Industries	791	114,660,886	17,963	14,682,510	39.750.561	67, 413, 743

### Subsection 2.—The Manufactures of Quebec, 1928.

The pulp and paper mills of Quebec, the most important manufacturing unit in the province, produced goods to the gross value of \$127,223,217 in the calendar year 1928. This amount exceeded by nearly \$71,000,000 the gross value of the products of the cotton yarn and cloth mills (\$56,545,069), which in their turn showed an excess of value of products of over \$3,000,000 when compared with establishments engaged in the manufacture of cigars and cigarettes (\$53,324,554). These three industries were followed in order of gross value of products by the generation of electric light and power, the manufacture of railway rolling stock, the making of butter and cheese, of men's clothing, and of leather boots and shoes.

The importance of the pulp and paper industry in Quebec is shown by a comparison with the industry throughout the Dominion. The Quebec industry, in addition to supplying nearly 12 p.c. of the total gross value of all products manufactured in the province, furnished nearly 55 p.c. of the products of pulp and paper mills throughout the country. The gross value of cotton yarn and cloth products from Quebec mills formed over 71 p.c., the gross value of cigars and cigarettes formed 87 p.c., the value of railway rolling stock 57 p.c., and the value of the boot and shoe products (the eighth industry in order of value of products) over 59 p.c. of the Dominion totals for these products. Thus Quebec is an outstanding manufacturing province rather on account of her great individual industries than because of the diversification of her industrial activities.

### 11 .- Statistics of Forty Leading Industries of the Province of Quebec, 1928.

Noie.—Leading industries having fewer than 3 establishments are sugar refineries, cement and bridge-building.

Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	\$	\$	\$
Pulp and paper	50	376.351,076			48, 262, 196	
Cotton yarn and cloth,	17	63,828,483				
Cigars and cigarettes	41	31.749,668			16,219,372	
Central electric stations	148	371,750,195	3,912	5,437,762	6,859,708	
Railway rolling stock	10	42.745.458	11,699		23,398,384	
Butter and cheese	1,400		2,193	1,256,547	25,569,662	31,784,255
Clothing, men's factory	142	16,547,134	7.125		16,215,373	
Boots and shoes, leather	117	18,416,466		9, 178, 711 1, 206, 634	15,617,786 25,246,346	
Flour and feed mills	364 196	10,296,741 10,590,955	1,077 6,399		16,023,968	
Clothing, women's factory	1,041	37,688,780	9,974	4,946,130		
Sawmill products	17	8,655,335	1,947	2, 227, 611	19,613,433	
Non-ferrous metal smelting	3	34,046,722	1.796	2,545,817	6,894,559	
Breweries	8	20.294.481	1.678	2,126,031	8,773,926	
Electrical apparatus and supplies	17	24, 220, 711	5,921	7,356,995	9.337.957	20,792,119
Rubber goods, including footwear	12	11,451,850	5.362	4.625.139	6,811,318	
Bread and bakery products	835	13, 233, 720	4.380	4,569,736	10,067,733	10.514.222
Castings and forgings	72	25.661.190	4,883	5,757,130	7,927,198	18,378,848
Machinery	29	23,580,667	4.133	5,568,666	7,575.335	
Printing and publishing	62	15, 279, 128	4.107	5,603,582	3,943,967	16,049,026
Acids, alkalies, salts and com-						
pressed gases	9	15, 198, 453	939	1,203,318	9,928,989	15,939,731
Distilleries	7	16,121,529	623	846,562	3,371,496	15,268,267
Biscuits, confectionery, cocoa and						
chocolate	49	11,874,419	3,461	2,846,248	7,580,505	14,743,227
Petroleum products	5	12,475,081	905	1,396,765	10,338,794	14,690,859
Tobacco, chewing, smoking and	00	0 170 000	1 700	4 200 201	0.041 147	24 455 400
BRUH	29	9,473,098	1,788	1,708,784	5, 241, 147	14,455,623
Hosiery, knitted goods and fabric	9.0	10 771 007	1 000	0 190 400	7 270 202	22 407 454
gloves	38	12,771.067	4,068	3,139,482	7,572,381	13, 496, 411
Planing-mill products	291	12,883,573	2.983	2,847,579	7,534.081	12,995,639
Furnishing goods, men's	73 253	7,972,722	4,682 3,260	2,858,425 4,121,060	6,976,779 3,368,217	11,937,022 10,522,303
Printing and bookbinding	18	9,631,889 11,965,832	1.165	1.508.273	4.942.721	9, 949, 333
Paints, pigments and varnishes	21	8,978,626	1.960	2.169.437	5.145.308	9.478.214
Sheet metal products	5	11,656,621	2,642	3, 383, 173	1,899,595	V. 374, 506
Shipbuilding and repairs	76	6,814,578	1.413	1,711,190	5,803,893	8.836.341
Explosives, aumunition, fireworks	10	0,017,010	1,410	1,111,190	0,000,000	0.000,011
and matches	7.	11.876.925	1.432	1,273,459	3,564,849	7,644,297
Steel and rolled products, pig iron,		41.017, 520	0.102	1,2,0,100	2,001,010	1,011,001
and ferro-ulloys	10	10.282,082	1.737	2,433,334	1,652,038	7,350,581
Hats and caps	65	3,090.621	2,182	2,089,082	3.518.764	7, 295, 971
Furniture and upholstered goods.	70	5,074,433	2, 295	2,378,857	2,610,688	7,097,878
Dyeing, cleaning and laundry work	77	7,371,339	3,126	2,815,806	1.042.195	0,860,587
Hardware and tools	26	11, 193, 486	1.499	1,577,854	1,932,032	0,434,681
Musical instruments	10	5, 784, 574	1.301	1,521.042	2,537,445	6.052,211
Totals, Forty Leading Industries	5,720	1,367.072,699	167.384	178,558,071	419,330,821	888,577,888
Grand Totals, All Industries	7,231	1,583,350,884	204,959	217,887,481	510,580,872	1,073,162,291
December 11 and industrian to						
Percentages of forty industries to	70.10	96.24	81-47	81-95	82-13	87-80
grand totals	79-10	86.34	91.47	91.39	95,19	92.80

### Subsection 3.—The Manufactures of Ontario, 1928.

Ontario is the most important manufacturing province of the Dominion. The gross value of its manufactured products in 1928 represented nearly 52 p.c. of those of the whole Dominion, while those of Quebec, the second province in importance in this respect, amounted to about 28 p.c. This premier position in manufacturing has been fairly uniformly maintained by Ontario over a long period, as the following percentages show:—in 1926, 52 p.e.; 1920, 50 p.e.; 1918, 53 p.c.; 1910, 50 p.e.; 1900, 50 p.e.; 1890, 51 p.c. and

1880, 51 p.c. Thus, in spite of the rapid industrial development in recent years in other provinces such as Quebec, British Columbia and Manitoba, Ontario is maintaining a manufacturing production more than equal to that of the remainder of the Dominion.

The automobile manufacturing industry of Ontario in 1928 came first in the value of its products, which amounted to \$162,363,825 as compared with \$106,486,641 for the flour and grist milling industry, which held second place. Other important industries in descending order, with the value of their products in 1928, were:—slaughtering and meat-packing, \$90,500,960; rubber goods, \$76,152,513; and pulp and paper, \$74,220,178. As compared with 1927, automobile manufacturing showed an increase of nearly \$34,000,000, while flour and grist mill products decreased by over \$1,000,000. Slaughtering and meat-packing increased by over \$1,000,000, rubber goods by over \$3,000,000, while pulp and paper manufacturing decreased about \$90,000 from the figures for 1927.

As an indication of the greater diversification of industry in Ontario as compared with Quebec, the percentages which the 40 leading industries bear to the total manufacturing of the province are higher in nearly every particular in Quebec than in Ontario, especially in the capital employed and the number of establishments and employees. Outstanding among the industries in which the province of Ontario is pre-eminent is that of automobile manufacturing, which is carried on practically in this province alone. Other important industries in which Ontario leads, with the percentage which its production bore to that of the Dominion in 1928, are as follows:—agricultural implements, 95 p.c.; leather tanneries, 87 p.c.; rubber goods, 78 p.c.; furniture and upholstering, 78 p.c.; fruit and vegetable canning, preserving, etc., 62 p.c.; electric apparatus and supplies, 77 p.c.; castings and forgings, 65 p.c.; steel and rolled products, pig iron, etc., 59 p.c.; slaughtering and meat-packing, 52 p.c.; flour and grist mill products, 54 p.c.; hosiery, knit goods, otc., 70 p.c.

12 .- Statistics of the Forty Leading Industries of the Province of Ontario, 1928.

Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	\$	\$	8
utomobiles	11	95.571.751	16,391	28.863.826	114.879.949	162,363,82
lour and grist mills	715	30,000,850	3,348	3.671.378	91.542.464	106,486,64
laughtering and meat-packing	25	32, 833, 629		6,618,659	74,665,694	90,500,96
lubber goods, including footwear	31	58,510,946	11,643	14, 198, 415	37,958,741	76, 152, 51
utp and paper	43	220, 281, 502	10.993	15,732,781		74,220,17
lectrical apparatus and supplies.	104	63,062,031	12.061	15.122.478	28, 943, 059	71.831.60
lentral electric stations	420	396, 344, 873	6,654	10,723,034		67,311,98
lutter and chrese	1,000	21,944,296	6,170	6,491,908	49,957.982	64,980,83
lastings and forgings	184	57,658,842	13,311	17,724,051	20,712,813	54,500,03
losiery, knit goods and fabric	* 0=	10.010.440	10 =14	10 000 000	01 444 007	10 077 0
gloves	107	42,219,449		10,977,379		40.977.2
gricultural implements	44	88, 283, 656	10,287	12,975,484	18,705,290	39,134,1
lon-ferrous metal smelting and	ā	71 0 0 7 7 7 4	0. 50/1	7 000 403	0 400 00=	37, 159, 47
relining	a	34,145,647	2,530	3,990,461	8,762,837	31,139,4
teel and rolled products, pig iron	16	70 000 740	4.709	9.092.742	17,859,303	36,926,6
and ferro-alloys	10	72,098,748	9,700	3,092,142	11,000,000	30,820.th
discuits, confectionery, eocon and	1.29	29,657,262	6,510	6,713,379	14,555,946	33,219,2
chocolate	960	19,693,170		8,120,394	16.511.830	33.098.4
lothing, women's factory	210	13,825,601		9,418,031		32.806.8
urniture and upholstered goods.		32,744,027		10,422,830		32.457.1

12.—Statistics of the Forty Leading Industries of the Province of Ontario, 1928—concluded.

Industry,	Establishments. Capital.		Employees. Salaries and Wages.		Cost of Materials.	Gross Value of Products.	
	No.	\$	No.	8	\$	\$	
Machinery	116	44,343,656	6.429	8,933,960	10.751.421	31,955,826	
Sawmill products	923	48,963,426	10.948	7, 225, 112	17, 757, 266	31,422,230	
Sheet metal products	77	25, 755, 585	5,319	8,459,372	15,042,690	30,731,458	
leather, tunned, etc	40	26,574,429		3,733,910		30,683,133	
Petroleum products	9	20,065,748		3,093,525		30,515,904	
Printing and publishing.	296	28,082,524	6,861	10,506,039			
Planing mill products	336	28,572,322	5,861	6,582,920	15,586,143	26,454,235	
Acids, alkalies, salts and com-		AM -80 D.		***	10 100 100	or our orn	
pressed gases	20	27,658,302	1,850	2,699,769	13, 162, 489	25,001,050	
Printing and bookbinding	418	21.081.495	5,961 2,463	7,969,675	7,033,880		
Coke and gas products	22	46,629,491 29,255,493	1.023	3,524,693 1,426,533	5,510,631		
Distilleries	6 36	24.055.399	1.020	2.692.424	7.931.962	19.742.431	
Brass and copper products	65	15,120,933	3.463	4,323,131		19,724,051	
Boots and shoes, leather	65	11, 174, 306	5.106	5, 107, 115		17, 971, 958	
Hardware and fools	84	21.311.395	4.950	5.898.619		17, 788, 230	
Cotton yarn and cloth	16	19, 486, 715	5, 129	4,409,724			
Clothing, men's factory	61	9,996,629	4.239	5, 225, 988	7,613,464		
Automobile supplies	45	15.516.147	3,188	4,326,488	7,904,282	15,813,930	
Fruit and vegetable canning, etc	130	20,595,039	4,373	1,972,607	8,961,730	15,360,342	
Soaps, washing compounds and							
toilet preparations	56	14,280,294	1.570	1,729,544	8,497,924	14,840,724	
Boyes and bags, paper	76	11,826,229	3,119	3,219,740	7,060,874	13,834,278	
Lithographing and engraving	64	14, 191, 018	3,825	5,957,961	3,991,347	13,547,878	
Paints and varnishes	33	9,560,599	1,297	E, 959, 288	7,372,087	13,508,548	
Totals, Forty Leading Industries	7,215	1,842,973,454	241,855	299,835,287	838,008,444	1,330,225,872	
Grand Totals, All Industries	9, 900	2,275,921,056	329,729	391,375,947	1,031,501,240	1,949,724,119	
Percentages of forty leading in- dustries to grand totals	72-88	80-97	75-41	** (1 - t) }	81-00	79-51	

### Subsection 4.—The Manufactures of the Prairie Provinces, 1928.

The flour-milling industry is outstanding among the manufactures of the Prairie Provinces. During 1928, as will be seen from Table 13, the gross value of the products of flour mills was greater in each province except Manitoba than that of any other industry and amounted to \$18,788,855 in Manitoba, \$15,781,289 in Saskatchewan and \$21,005,113 in Alberta, a combined total of over 17 p.c. of the gross value of the products of manufactures in these provinces. The second industry in point of gross production was slaughtering and meat-packing, with products valued at \$21,328,420 in Manitoba and \$16,152,956 in Alberta. Butter- and cheese-making showed a gross value of production of \$8,749,518 in Manitoba, \$6,966,282 in Saskatchewan and \$6,810,805 in Alberta.

The importance of these industries, based on such natural resources of the Prairie Provinces as grain-growing and cattle-raising areas, is evident. Attention may also be drawn to the generation of electric light and power in all three provinces and to the refining of petroleum in Alberta.

### 13 .- Statistics of Ten Leading Industries of Manitoba, Saskatchewan and Alberta,

Nore.—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are:—in Saskatchewan, petroleum refining and sheet metal products; in Alberta, railway rolling stock and cement. The statistics for these industries are included in the grand totals for the provinces.

#### MANITOBA.

		34741411177137				
Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	8	No.	\$	\$	\$
Slaughtering and meat packing	6	5.029.265	1.309	1,654,732	17, 635, 906	21,328,420
Flour and grist mills	38	6,050,473	540	657.740	15, 203, 144	18,788,855
Railway rolling stock	3	8,521,649		6.091.042	4.421.012	11.242.58
Butter and cheese	69	3,669,728	852	1,258,181	6,002,957	8,749,51
Central electric stations	39 67	46,634,904 3,699,524	1.355	2,077,126 1,831,037	936,950	6,801,80 5,383,78
Printing and publishing	5	2,161,309	252	290.164	4.394.477	5,043,51
Breweries.	8	5,672,630		841,030	1,379,871	4.943.86
Printing and bookbinding	63	4,140,821	1.240	1.764.850	1,476,949	4,214,51
Bread and bakery products.	115	1,991,688	881	964,678	2.089,775	4,070,99
Totals, Ten Leading Industries	495	87,571,992	12,255	17, 431, 380	54,592,010	99, 567, 769
Grand Totals, All Industries	871	159, 721, 124	21,168	25,023,502	88,284,693	159, 135, 09
Butter and cheese Slaughtering and ment-packing Central electric stations Printing and publishing Breweries Bread and bakery products Planing mill products Dyeing, cleaning and laundry work Acrated and mineral waters	158 135 7 111 16	4, 155, 554 2, 663, 674 11, 126, 900 2, 753, 562 3, 334, 666 1, 982, 896 1, 771, 123 824, 730 573, 751	545 562 842 216 543 403 367	783, 929 674, 830 793, 634 1, 408, 584 277, 779 634, 093 576, 225 377, 883 111, 702	1,404,589 869,074 119,209	6,966,28 6,353,47 3,775,97 3,588,88 3,531,60 2,806,27 1,883,94 822,36 440,90
Totals, Ten Leading Industries	615	35,277,011	4,765	6, 456, 602	26,785,305	45,951,00
Grand Tutals, All Industries	737	11,622,135	6.173	8,003,577	31, 186, 731	59,125,28
		ALBERTA				
Flour and grist mill products	66	8,877,209	756	1.033.371	17,032,649	21,005.11
		9,584,122		1,823,133		16, 152, 95
				631.077	7, 156, 864	11, 255, 74
Slaughtering and meat-packing		5,645,860	442	001.077	2.800,00%	88,200,67
Slaughtering and meat-packing Petroleum products Butter and cheese	105	3,028,025	498	648, 456	5, 195, 128	6,810,80
Slaughtering and meat-packing Petroleum products. Butter and cheese. Broweries	105 5	3,028,025 8,168,084	498 317	648, 456 551, 148	5,195,128 1,535,923	6,810,80
Slaughtering and meat-packing Petroleum products. Butter and cheese. Breweries. Central electric stations	5 105 5 71	3,028,025 8,168,084 18,683,585	498 317 735	648, 456 551, 148 1, 195, 556	5,195,128 1,535,923 615,746	6,810,80 6,790,21 4,556,21
Slaughtering and meat-packing. Petroleum products. Butter and cheese Braweries Central electric stationa Bread and other bakery products.	5 105 5 71 128	3,028,025 8,168,084 18,683,585 2,752,067	498 317 735 620	648, 456 551, 148 1, 195, 556 704, 107	5, 195, 128 1,535,923 615,746 1,736,721	6,810,80 6,790,23 4,556,23 3,520,78
Slaughtering and meat-packing Petroleum products. Butter and cheese. Breweries. Central electric stations	5 105 5 71 128 76	3,028,025 8,168,084 18,683,585	498 317 735 620 754	648, 456 551, 148 1, 195, 556	5,195,128 1,535,923 615,746 1,736,721 572,937	6,810,80 6,790,22 4,556,22 3,520,78 3,319,73

### Subsection 5.—The Manufactures of British Columbia, 1928.1

63,937,610

92, 199, 476

8,930,990

11,382,772

7,224

10.559

59,398,697 100,744,401

77,637,300

49,213,987

545

778

British Columbia was in 1928 the third most important manufacturing province in the Dominion, producing goods to a gross value of \$270,851,669. About 23 p.c. of this production, or \$62,536,200, is seen in Table 14 to be that of the sawmilling industry; the predominance of forest products industries

Totals. Ten Leading Industries

Grand Totals, All Industries

<sup>&</sup>lt;sup>1</sup> Including Yukon Territory.

in the industrial life of the province is emphasized if to this figure be added \$18,714,056, the gross value of products of the pulp and paper industry and \$3,825,208, that of the planing mills and sash and door factories. Second in importance among the industries of the province is that of fish-curing and -packing, with a gross value of products of \$24,261,345, followed by the pulp and paper industry, electric light and power generation, and slaughtering and meat-packing.

### 14.—Statistics of Twenty-five Leading Industries of British Columbia, 1928.1

Note—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are non-ferrous metal smelting, sugar refining, cement and explosives. The statistics for these industries are included in the grand total of all industries in the province.

Industry.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	8	No.	\$	\$	\$
Sawmills	314	57,613,927	15,005	18, 281, 163	33,668,354	62,530,200
Fish-curing and -packing	136	20,961,338		3,488,386	12,908,157	24, 261, 345
Pulp and paper	6	47,331,108		4,432,572	5,357,002	18,714,056
Central electric stations	79	75,366,846		2.708,704	2,223,978	12,353.576
Slaughtering and meat-packing	7	6,197.315		927, 375	9,764,402	11,550.069
Petroleum products	3	5,388,305		627,886	6,031,846	6,951,695
Printing and publishing	61	4,271,150		2,368,496	1.382.792	6,187,560
Bread and bakery products	209	3.120.796		1.317.643	2,689,065	5, 160, 482
Fruit and vegetable packing	24	3,501,466		782,496	3,231,797	5,073,854
Butter and cheese	36	1,878,230	513	750, 295	3,397,436	4,932,788
Sheet neetal products	18 52	6,999,930 2,921,001	557 1.022	811.042 1.306.515	2,665,411 1,765,365	4,842,089 3,825,208
Planing mill products	10		261.	463.125		
Broweries	9	4,475,887 1,001,700	109	136, 177	1,436,761	3,795,952
Coffee and spices	3	5.148.685		244.030	2,772,587 1,195,107	3, 179, 341
Distilleries	14	5,972,339	840	1,303,312	744.683	2,743,538
Dyeing, cleaning and laundry work	58	2, 116, 942		1,391,110		2,670,093
Biscuits, confectionery, cocoa and	00	2,110,292	1.402	1,091,110	210,007	2,000,000
chocolate	44	1,377,126	512	536.007	1.417.257	2.566.949
Coke and gas products	6	12.602.896	500	686,899	1.009.010	2,338,628
Castings and forgings	28	3, 178, 532	682	939.806	611.892	2.219.065
Printing and bookbinding	73	1,472,462	541	781.339	732.786	2.041.448
Boxes and packing cases.	13	1,484,078	533	582.571	1.042.417	2,034,728
Flour and feed mills	4	1,396,430		115.614	1,366,984	1,637,832
Paints and varnishes	8	1,387,547	161	199.378	716, 704	1,435,094
Furniture and upholstering	40	1,353,310		551.371	508, 763	1.251,709
a state of the appropriate man.		2,000,010	97.71		000,100	8 . 6173 . 1 110
Totals, Twenty-five Leading Industries	1,255	278, 519, 146	40,122	45,823,711	98,941,733	197, 984, 443
Grand Totals, All Industries	1,624	367,898,589	48,949	58,726,003	137, 185, 812	270,851,669
Percentages of twenty-five lead- ing industries to grand totals	77 - 27	75 - 70	81-97	78-03	72 - 12	73 - 09

Including Yukon Territory.

### Section 4.—Principal Factors in Manufacturing Production, Subsection 1.—Capital Employed.

In a retrospective study of capital employed in Canadian manufactures since 1900, the remarkable increase denotes rapid growth in industrial operations. From 1900 to 1905 the capital increased from \$446,900,000 to \$833,900,000, and advanced to \$1,958,700,000 in 1915. During this period returns were received from establishments with 5 hands and over, and while the rise of wholesale prices did not exceed 37 p.c., the capital employed in manufactures increased nearly 340 p.c.

The capital investment in 1928 in all establishments irrespective of the number of employees was \$4,780,296,049, as compared with \$4,337,631,558 in 1927, and with \$3,190,026,358 in 1921, an increase of 49 p.c. in 7 years.

The provincial distribution of the manufactures of Canada may be illustrated by the investments of capital. Capital employed in Ontario during 1920 was 49.5 p.c. of the total, 50.6 p.c. in 1921, 52.5 p.c. in 1923, 50.4 p.c. in 1925, 49.2 p.c. in 1927, and 47.6 p.c. in 1928. The percentage employed in the plants of Quebec was 30.5 in 1920, 30.8 in 1921, 29.5 in 1924, 30.6 in 1926, 31.7 in 1927 and 33.1 p.c. in 1928. British Columbia held third place in 1928 with a capital of 7.7 p.c. of the total, while Manitoba, Nova Scotia, New Brunswick and Alberta followed in the order named, with proportions of between 4 p.c. and 2 p.c each. (Table 15.)

From a survey of the industrial groups in which the capital of the country is invested, it appears that the wood and paper group led in 1928, with an investment of 24·2 p.c. of the total. The central electric station industry was second with 20·0, the iron and steel group third with 14·7, and the vegetable products group fourth with 11·1 p.c. (Table 16.)

The statistics of capital employed in the manufacturing industries are of interest in deducing the proportions of fixed and liquid assets. In 1921, lands, buildings and machinery constituted 60 p.c. of the total capital, while in 1923 the proportion had increased to 64 p.c., in 1924 to 65 p.c. and to 66 p.c. in 1926, 1927 and 1928. The fixed assets amounted to \$3,142,419,861 in 1928, while quick assets, including the materials on hand, stock in process, cash and sundries, were valued at \$1,637,876,188. Details by industrial groups and by provinces are given in Table 17.

15.—Provincial Distribution of Capital Employed In the Manufacturing Industries of Canada, in Percentages, 1920-1928.

Province.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927	1928.
rince Edward Island.	0-1	0.1	0.1	0-1	0.1	0.1	0.1	0.1	0.
Sova Scotia	4-2	3 - 3	3.3	3.3	3.2	3 - 1	3.0	2.9	2.
lew Brunswick	3-1	3 · 1	2.5	2-5	2.5	2 - 4	2.4	2.3	2.
Jueliec	30.5	30-8	29.9	29 9	29.5	29 - 9	30.6	31.7	33
ntario	49.5	50-6	52-3	52 - 5	51.8	50.4	49.8	49-2	47
lanitoha	3 - 4	2.9	2.7	2.7	3-1	3.2	3.2	3 - 5	3
askatchewan	0.9	1-0	1.0	61-9	0-9	()-8	0.8	0.9	()
Iberta	1.8	1.7	1.7	1-8	1.9	1-8	1-8	1.9	2
British Columbia and									
Yukon	6.5	6 - 5	6.5	6.5	7-1	8-3	8-3	7.5	-
Totals	100-0	100-0	100.0	190-0	188-0	100-0	100-0	100-0	100

16.—Distribution of Capital Employed in the Manufacturing Industries of Canada by Industrial Groups and Percentages, 1926-1928.

	1926.		1927.		1928		
Industrial Group.	Amount.	Percent- nge.	Amount.	Percent- age.	Amount.	Percent-	
	\$		\$		\$		
Vegetable products	449,259,094	11.3	494, 176, 054	11-4	531,918,725	11-1	
Animal products	223,938,559	5-6	233.113.872	5.4	243,550,121	5.1	
Textile products	317, 275, 429	8-0	346.512.165	8.0	365,721,591	7.7	
Wood and paper	929.589,278	23.3	1.023.301.749	23 - 6	1, 158, 651, 534	24 - 2	
Iron and its products	597,982,698	15.0	638.914.893	14.7	702.931.186	14-7	
Non-ferrous metals.	202.563.426	5-1	208.957.166	4-8	253, 367, 370	5.3	
Non-metallic minerals Chemicals and allied pro-	261,724,184	6.6	280,633,057	6-4	298,693,122	6.3	
daets	133, 407, 891	3.3	134,618,839	3-1	148,939,920	3.1	
Miscellaneous industries	109,669,565	2-8	111, 178, 478	2-6	119.602.877	2.5	
Central electric stations	756, 220, 066	19.0	866.825.285	20.0	956, 919, 603	20 - 6	
Totals	3, 981, 569, 550	100-0	1,337,631,558	100 0	1,780, 296, 049	100-0	

 Forms of Capital Employed in the Manufacturing Industries of Canada, by Provinces and by Groups of Industries, 1928.

Province and Group.	Estab- lish- ments.	lish- Pixtures,		Cash, Trading and Operating Accounts and Bills Receivable	Total Capital,
	No.	\$	\$	\$	8
Totals	23,379	3,142,419.861	836,980,119	900,895,769	1,780,296,049
PROVINCE.					
Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitobu Sinskutchewin Alberts British Columbia and Yukon	277 1,167 794 7,231 9,900 871 737 778 1,624	2,190,250 99,004,155 74,272,094 1,089,087,730 1,413,704,005 112,289,985 29,965,089 03,971,445 257,034,448	503, 978 18, 508, 073 21, 201, 866 262, 407, 699 430, 188, 189 25, 229, 609 8, 894, 731 16, 527, 881 53, 518, 993	427, 340 21, 297, 103 19, 186, 326 230, 955, 455 332, 628, 802 22, 202, 802 5, 762, 315 11, 691, 150 57, 345, 148	3, 121, 508 138, 809, 331 114, 609, 886 1, 583, 359, 884 2, 275, 921, 056 159, 721, 124 44, 622, 135 92, 190, 476 367, 598, 589
INDUSTRIAL GROUP.					
Vegetable products Animal products Textiles and textile products from and its moducts from and its moducts Non-derrous metal products Non-metallic mineral products Chemicals and allied products Miscellaneous industries Central electric stations	4,845 4,542 1,885 7,290 1,150 406 1,178 572 453 1,649	287, 696, 962 119, 286, 669 181, 875, 194 777, 940, 694 379, 937, 969 131, 348, 234 215, 685, 996 85, 784, 820 61, 942, 855 961, 570, 518	139, 177, 003 74, 215, 651 98, 425, 504 202, 473, 962 155, 343, 328 56, 568, 854 46, 659, 896 29, 825, 374 23, 723, 276 10, 572, 574	105,044,750 50,047,801 85,426,893 178,236,878 107,649,889 65,450,282 36,397,227 33,334,726 33,936,802 44,776,511	531, 918, 725 243, 550, 121 365, 721, 594 1, 158, 654, 534 702, 931, 186 253, 367, 370 208, 693, 122 148, 930, 920 119, 912, 877 956, 910, 603

### Subsection 2.—Employment in Manufactures.

The total number of persons engaged in those manufacturing industries of Canada for which statistics were obtained in 1928 was in that year 658,023, as compared with 618,933 in the same industries in 1927 and 456,076 in 1921. The 1928 employees included 91,243 salaried employees, this figure being obtained from the manufacturers at the end of the year, and 566,780 wage-earners, the average number employed, as derived from the manufacturers' records of the numbers on the pay-rolls on the 15th of each of the twelve months. Prior to 1925, the number of wage-carners was computed as the sum of the number recorded each month divided by 12 whether the establishment was operating the 12 months or not. Beginning with the statistics for 1925, in seasonal industries which are in operation only a limited number of months in each year, such as sawmilling, fruit and vegetable canning, etc., the average was computed by dividing the sum of the wage-carners reported on the 15th of each month by the number of months in operation. This change of method increased the apparent number of employees, especially in seasonal industries, but also in the groups containing such seasonal industries and in provincial and Dominion totals. Consequently, the change of method exerted a reducing influence on apparent average wages and on all other averages per wage-earner and per employee.

The number of salaried employees and of wage-earners, as thus ascertained, is given for each of the years since 1917, the year of the first annual census of manufacturing production, in Table 18. Then, taking the percentage of those employed in each year to those employed in 1917, and dividing it into the volume of manufacturing production in each year (see Table 4 of this report for method

used in obtaining this figure), the quotient gives a tentative conclusion regarding the efficiency of production per person employed in years subsequent to 1917, as compared with that year. This index of the efficiency of production per employee is, of course, affected by the change explained above in the method of computing the number of employees in 1925 and subsequent years as compared with 1924 and previous years. Inasmuch as the change increased the apparent number of employees in 1925 and later years, it proportionately decreased the index of the efficiency of production. How far the increased efficiency of recent years may be due to the use of improved appliances of production (the horse-power used per wage-earner employed increased from 3.04 in 1917 to 6.45 in 1928), how far to increased efficiency in the employees and how far to improvements in methods of organization, is a problem which cannot be solved for the country as a whole with our present information. It may, however, be possible for those having intimate knowledge of the business of individual firms to solve this problem with approximate accuracy for their own particular plants. The table here published may be considered as supplying satisfactory evidence of a general gain in volume of production per person employed. In this connection it should be remembered, however, that in 1917, owing to the large numbers overseas, many persons of low efficiency were being employed, their inefficiency being concealed at the time by the prevailing inflation of prices.

 Salaried and Wage-rarning Employees in the Manufacturing Industries of Canada, with Volume of Manufacturing Production and Comparative Efficiency of Production, 1917-1928.

Year.	Salaried Wage- Employees. Earners.		Total Employees.	Percentage of Number of Employ- ces relative to 1917		Efficiency of Production	
	No.	No.	No.	p.c.			
917	68,726	552.968	621.694	100.0	100-0	100-0	
918	70,706	547.599	618,305	99.5	102.0	102-	
919	81.681	529.327	611,008	98-3	98-3	100 -	
920		526, 571	609.588	98-1	95 - 2	97 -	
921	74.873	381,203	456,076	73 - 4	87 - 4	119-	
922	76,040	398,390	474, 430	76-3	97-7	128	
923	78.273	446,994	525, 267	84-5	106-7	126-	
924	76, 230	432, 273	508.503	81-8	104-7	128	
925	77,623	466, 602	544, 225	87.5	112-4	128-	
926.,		499.745	581,539	93.5	128-6	137-	
927	85.483	533.450	618.933	99.6	140-4	141-	
928		566.780	658,023	105 - 8	137-1	148-	

Statistics of employment in manufacturing industries during 1928 derived from the Census of Manufactures, are shown in Table 6 of this report.

According to these statistics, the 23,379 establishments covered employed 91,243 salaried employees and 566,780 wage-earners, a total of 658,023 persons. Out of every 1,000 persons employed in manufacturing, 139 were classed as salary earners and 861 as wage-earners; the former earned 23.2 p.c. and the latter 76.8 p.c. of the total amount paid out as remuneration for services.

Provincial Distribution of Employees in 1928.—An analysis of the returns by provinces shows that 49,162 or 53.8 p.c. of all employees on salaries were employed in Ontario; of this number 36,204 were males and 12,958 were females. The proportion that the male salary workers in Ontario bore to the total number of such workers was 51.8 p.c., while female office employees

constituted 60.6 p.c. of the total. In Quebec, which, with 25,246 persons, recorded the second largest number of salaried workers, were situated 28.8 p.c. of the male and 24.0 p.c. of the female salaried employees. British Columbia also had a higher proportion of male than female salaried employees, having 6.4 p.c. of male to 4.5 p.c. of female salary earners. Of the total salaries, \$94,376,781 or 54.0 p.c. was reported in Ontario, \$49,485,152 or 28.3 p.c. in Quebec, and \$10,587,954 or 6.1 p.c. in British Columbia.

The male wage-earners numbered 441,189 and the female 125,591; 48.4 p.c. of the former and 46.0 p.c. of the latter were employed in Ontario. Quebec manufacturers reported 29.8 p.c. of the males as compared with 38.6 p.c. of the females, while British Columbia had 8.5 p.c. of the males and 4.6 p.c. of the females. As to carnings, Ontario firms paid out 51.2 p.c. of the total, Quebec 29.0 p.c. and British Columbia 8.3 p.c.

Distribution by Industries.—The wood and paper industries, with 19,952 salaried employees, reported a larger number of these than any other group, having 21·9 p.c. of the total and paying 23·1 p.c. of the aggregate salaries; 24·4 p.c. of the total wage-earners belonged to this group, which paid out 23·9 p.c. of the wages. Only 8·9 p.c. of the total females working for wages were in the wood and paper industries, as compared with 28·8 p.c. of the total males on wages. The textile industries had 18·4 p.c. of the wage-earners, who earned 14·5 p.c. of the wages; the number of female workers in these industries formed 50·0 p.c. of the total females and the males only 9·3 p.c. of the aggregate of male wage-earners. In the iron and steel group, 18·4 p.c. of the total workers were paid 23·8 p.c. of the total wages. The number of men employed in these industries constituted 22·9 p.c. of the total male wage-earners in 1928, while only 2·6 p.c. of the total female wage-earners were engaged in iron and steel plants.

19.—Percentages of Male and Female Employees on Salarles and Wages, by Provinces and Groups of Industries, 1928.

Province and Group.		yees on tries	Salaries.		yees on ges.	Wages.
Province and Group.	Males.	Females.		Males.	Females.	
PROVINCE.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.
Prince Edward Island. Nova Scotia. Now Brunswick Quebec. Ontario. Manitoba Saskatchewan. Alberta British Columbia and Yukon.	0·2 2·0 1·9 28·8 51·8 4·5 1·8 2·6 6·4	0·1 1·9 1·8 24·0 00·6 3·9 1·1 2·1 4·5	0·1 1·6 1·8 28·3 54·0 4·3 1·5 2·3 6·1	0·3 3·2 2·9 20·8 48·4 4·0 0·9 2·0 8·5	0·6 2·7 2·9 38·6 46·0 2·9 0·4 1·3 4·6	0·1 2·2 2·0 29·0 51·2 4·3 0·9 2·0 8·3
Totals	100 0	[00-0	100-0	100-0	100 - 0	100-0
Industrial Group.  Vegetable products Animal products Textile products Wood and paper products Iron and its products Non-ferrous metal products Non-metallic mineral products.	12.9 12.6 9.3 22.0 16.4 7.2 4.3	12·9 9·4 15·1 21·5 15·5 8·2 3·1	13-1 9-6 10-9 23-1 17-4 7-3 4-0	11.0 9.4 9.3 28.8 22.9 5.6 5.5	18-6 12-2 50-0 8-9 2-0 3-3 0-6	11.2 7.8 14.5 23.9 23.8 6-0 5.2
Chemicals and allied products. Miscellaneous industries. Central electric stations.	4·7 3·4 7·2	5·7 3·0 5·6	4·9 3·7 6·0	2·0 3·3 2·2	2-2	2·0 3·2 2·4

Monthly Record of Employment in Manufactures, 1928.—A monthly record of the number of wage-earners employed in Canadian manufactures, as compiled by the Census of Industry, is given by sex in Table 20, which shows that the peak of employment was in September, when manufacturing generally was at a high level. The number engaged in factories increased steadily from the beginning of 1928 until September; thereafter there was a small monthly reduction until the end of the year. During the period of continuous expansion up to September, 95,500 persons were added to the pay rolls of the reporting manufacturers.

While employment for male operatives expanded from the beginning of the year to its maximum in August, the number of femule workers was greatest in September, chiefly on account of seasonal activity in the vegetable and fruit preserving group, which employs a considerable proportion of women. Textiles, the one group in which the majority of workers are women, also reported more than average employment during the autumn. Indicative of the expansion of industrial operations during 1928 is the fact that in every month of that year the number of wage-carners employed exceeded the total for the corresponding month of the previous year and this excess was greatest in the later months of the year.

20.—Total Number of Wage-Earners Employed in the Manufacturing Industries of Canada, by Months, 1927 and 1928.

2042		1927.	1	1928.				
Month.	Males.	Females.	Total.	Males.	Females.	Total.		
January	369,284	103.739	464,023	365,790	107,362	473.15		
February	370, 933	106, 691	477,624	379,547	110,764	490, 31		
March	382, 119	108.966	491,085	393,416	112,814	506, 230		
April	391,606	108,764	500, 370	408.559	114.007	522,560		
May	406,949	111.813	518,762	432,338	116,874	549.21;		
June	415.228	112.686	527,914	442,945	117,921	560,86		
July	413.086	112.400	525,486	445,664	116,707	562.37		
August	408,799	113,130	521,929	447,717	120,082	567,719		
September	403.837	117,113	520,950	443,060	125.592	568,653		
Detober	396,580	118,527	515, 107	437,597	125,000	562.68		
November	383,018	114.906	497, 924	422.045	122,168	544, 21		
December	368,692	111.404	480,096	407,257	117, 191	524.44		

Days in Operation and Hours Worked.—During 1928, each plant, on the average, operated full time 229 days. The average day was 8·5 hours and the average week 49·6 hours. The time in operation and the average number of hours worked are shown by provinces and industrial groups in Table 21.

21.—Number of Days in Operation and of Hours Worked per Shift and per Week in the Manufactures of Canada, by Provinces and Groups, 1928.

Province and Group.	Number of Establish-		of Days.	Average Days in Full Time Operation per	Average Hours Worked.		
	ments.	Full Time.	Part Time.	Idle.	Establish- ment.		Per Week.
By Province.							
Prince Edward Island	277	31.802	8.847	40.155	115	8-4	49.8
Nova Scotia	1.167	208,777	16,026	135,705	179	9 - ()	53 -4
New Brunswick	794	140,936	11.723	88,350	178	8.3	48.8
Quebec	7.231	1.578.853	91,771	420,447	218 241	9.0	52-3
Unturio	9,900	2,386,268	12,842	22.010	266	8-3	47-1
Manitolia Saskateliewan	737	179, 994	35,302	16.285	244	8.7	51.
Alberta	778	202.511	12.782	26 (36)	269	8.3	48
British Columbia and Yukon	1.624	393, 897	23,404	83.124	243	7.4	- 37-
Totals	23,379	5,324,789	379,170	1,234,766	558	8-5	49 (
INDUSTRIAL GROUP.							
Vegetable products	4.845	1.202.656	96.303	196.259	248	8-8	52-1
Animal products	4.542	968.291	34.337	159.125	213	7.3	42.
l'extile products	1.885	480,860	43,798	39.566	255	8.5	46.
Wood and paper products		1,376,568	98.551	741.311	189	9.0	52.
Iron and its products	1,159	330,505	11.894 2.503	11.097	285 287	8-7	48-
Non-ferrous metal products	1,178	116,439 279,723	18,535	59.285	238	8-0	46-
Chemicals and albed products	572	157, 421	4.602	12.900	275	7.3	41-
Miscellaneous industries		121.780	7,542	8.086	269	8.7	48-
Central electric stations		320,546	61,105	1,401	305		

<sup>&</sup>lt;sup>1</sup> Information on these points is incomplete for dairy factories in Prince Edward Island and Quebec and for all central electric stations. These establishments have therefore been eliminated in working out the

### Subsection 3.-Wages and Salaries in Canadian Manufacturing Industries. 1928.

The total amount disbursed by manufacturers in salaries and wages during 1928 was \$755,199,372 paid to 658,023 workers, as compared with \$693,932,228 paid to 618,933 persons in 1927 and \$653,850,933 paid to 581,539 persons in 1926. Of the 1928 aggregate, \$174,779,879 or 23.2 p.c. was paid to 91,243 salacied employees who constituted 13.9 p.c. of the total number, and \$580,428,493 or 76.8 p.c. was paid in wages to 566,780 wage-earners, who formed 86.1 p.c. of the aggregate number of employees.

The average salary paid in the manufacturing industries during 1928 was \$1.915, compared with \$1.899 in 1927, \$1.867 in 1926, \$1.843 in 1925, \$1.831 in 1924 and \$1,824 in 1923. The average wage paid was \$1,024 in 1928, \$997 in 1927. \$1,003 in 1926, \$971 in 1925, \$972 in 1924 and \$959 in 1923.

The increase of 9.2 p.e. recorded in aggregate wages in 1928 as compared with the preceding year was accompanied by a 6.2 p.c. gain in the number of operatives employed, while the average wage increased by 2.7 p.c. Employees on salaries increased by 6.7 p.c. and aggregate salaries by 7.6 p.c., while average salaries advanced by 0.8 p.c.

The proportion of female wage-earners per 1,000 was 222 and of male operatives 778 during 1928, while in each 1,000 salary earners 234 were women and 766 were men. The proportion of females among wage-earners was slightly less, while that among salaried employees was greater than in the preceding year. The number of male salary-earners increased by 6.0 p.c. in 1928 as compared with 1927, while there was a gain of 9.1 p.c. in the number of women office help employed. The percentages of increase among wage-earners were 6.6 for the males and 4.9 for the females.

Average Earnings, by Provinces, of Persons Employed in Manufactures.—Table 22 shows the number of salary and wage-earners and the average salary and wage paid in 1928 by manufacturers in the various provinces, also average earnings in 1927.

There were successive rises in average salaries from Prince Edward Island to Quebec, which showed the highest average of all the provinces, while the mean in British Columbia and Ontario was slightly lower than in Quebec. In the Prairie Provinces, the averages were also smaller, especially in Saskatchewan and Alberta, where salaries were, on the whole, below those in New Brunswick. In British Columbia and the Yukon the average was \$1.955. Over 60 p.c. of the total female salary earners were employed in Ontario, as compared with only 52 p.c. of the total male salaried workers; in Quebec and British Columbia, on the other hand, the proportion of women workers was lower than that of men.

There were general increases in average wages from the eastern provinces through to Manitoba, where the mean for the year, \$1,182, was the highest in the Dominion, being \$158 greater than the general average. In the western provinces there was an unusually small proportion of women workers, while many of the male employees were engaged in the better-paid wood and paper, electric light and power industries. In the four provinces situated to the east, average wages in manufacturing were lower than the mean for the Dominion, while from Ontario westward the opposite was the case.

The seasonal nature of some of the leading manufactures, notably fishpreserving and lumbering, tended to reduce the mean wage in the Maritime Provinces. These industries, in which 37 p.c. of the reported wage-earners in these provinces were engaged, worked on the average only 102 and 91 days respectively during 1928. Quebec, where the mean wage was below the general average, reported a larger proportion of female workers than the other provinces; of these a considerable number were employed in the textile, food and other industries. That province had 38.6 p.c. of the total number of women employed in manufacturing in the Dominion, as compared with 29.8 p.c. of the aggregate male operatives, but the 31.7 p.c. of the total wageearners reported in Quebec received only 29.0 p.c. of the total wages. On the other hand, in Ontario, where the mean was higher than the general average. 48.4 p.c. of the total males and 46.0 p.c. of the total females, or 47.9 p.c. of the general aggregate, were paid 51.2 p.c. of the total wages disbursed. The fact that average wages in Alberta and British Columbia were lower than in Manitoba and Saskatchewan was partly a result of the seasonal nature of some of the industries in the former provinces, especially fish and fruit-preserving and sawmilling in British Columbia.

22.—Employees on Salaries and Wages in Manufacturing Industries, 1928, and Average Salaries and Wages, by Provinces, 1927 and 1928.

Province.	Employees on Salaries.			Average Salaries.		Employees on Wages.			A verage Wages.	
	Male.	Female.	Total.	1928.	1927.	Male.	Female.	Total.	1928.	1927.
	No.	No.	No.	\$	\$	No.	No.	No.	\$	8
rince Edward Island	151		182		912	1.121	732	1.853	285	25
Nova Scotia	1,383		1,778	1.603	1.635	14.008			745 710	67
hiebec	20, 109		25.246	1.960	1.932	131, 279			937	91
Intario	36,204		49, 162	1.920	1,906	213.754		271,567	1.094	1.0
Innitoba	3,169		3,998	1,887	1,863				1,182	1,13
askatchewan	1,260		1,595	1,721	1.084				1.160	1.14
Iberta	1.810	458	2.268	1,755	1.755				1.078	
Yukon.	4,450	966	5,416	1.955	1,983	37,715	5,818	43,533	1,100	1,0
Totals	69.858	21,385	91.243	1.915	1,899	441,189	125,591	566.780	1.021	91

Average Earnings in 40 Leading Industries.—Table 23 is a record of employees by sex and of average salaries and wages paid in the 40 leading industries of Canada during 1928, together with the average number of days the establishments in each industry operated. Averages for 1927 are also given.

Average Salaries.—In 3 industries the average salaries exceeded \$2,500; in 15 they were from \$2,000 to \$2,500; in 19 they ranged between \$1,500 and \$2,000, while in only 3 were they below \$1,500 during 1928. None of the six groups paying the highest salaries—sugar refineries; leather tanneries; pulp and paper; rolled products, pig iron, steel products and ferro-alloys; petroleum products and distilleries—reported a proportion of female workers equal to the general percentage in the 40 industries, while the numbers employed were rather small except in the pulp and paper industry. In the groups paying an average salary of over \$2,000, only the automobile, hosiery and knitted goods, furniture and upholstering, printing and bookbinding, coffee and spices, and paints and varnishes industries employed more than the general proportion of female office help.

The lowest salaries, ranging between \$1,000 and \$1,500, were reported in the butter and cheese, fish-curing and packing, and coke and gas industries. Various factors contributed to reduce the mean yearly remuneration of these groups. Fish-preserving plants operate during a very short active season; butter and cheese factories, which also work less than the average number of days, are mainly situated in small towns and country places; while in coke and gas plants the percentage of women on salaries was above the average.

Average Wages.—The highest wages, varying between \$1,300 and \$1,700, were paid in the automobile, rolled products, pig iron, steel products and ferroalloys, non-ferrous metal smelting, petroleum refining, coke and gas products, central electric stations, printing and publishing, railway rolling stock, and sugar refining industries, in all of which the proportion of female workers was below the general average. In 19 industries, the wages paid averaged between \$1,000 and \$1,300; in 11 groups, they averaged between \$500 and \$1,000; while in one highly seasonal industry—fish-curing and packing—they were under \$500. In

this industry, the number of days in operation throughout the Dominion during 1928 averaged only 102; the proportion of female workers was also high, being 38.8 p.c., as compared with the general proportion of 19.8 p.c. in the 40 industries. In the textile divisions wages were generally low, employees in men's clothing factories receiving the highest remuneration in the group with an average wage of \$994. The proportion of women workers employed in these trades was large, while the number of days in operation was above the average. Sawmills worked on the average 91 days, employing males almost exclusively; these employees were paid an average wage of \$715 during the season of 1928.

 Employees by Sevin Forty Leading Canadian Manufacturing Industries during 1928, with Averages of Salaries and Wages Paid and of Number of Days Operated by Plants in each Industry for 1927 and 1928.

SALARIES.

Industry.	Empl	oyees on Sa	laries.	Average	Salary.
inquisity.	Male.	Female.	Total.	1928.	1927.
	No.	No.	No.	\$	\$
Pulp and paper	2.962	· 545	3.507	2,485	2.550
Flour and grist mill products	910	211	1.121	1.924	1.914
Shaughtering and meat-packing	2 200	477	2.677	3.828	1,797
Automobiles	1.740	696	2.436	2 158	2.23
Central electric stations	5.003	1.211	6.214	1.683	1,45
Sawmills	1.665	233	1.898	2.116	2.05
Butter and choese	3,519	594	4.113	1.098	1.07
Lubber goods, including footwear	1.649	496	2.145	1.684	1.70
Van-ferrous metal smelting	612	73	685	2.388	2,40
destrical apparatus and supplies	3, 125	1.218	4.343	1.796	1.72
etroleum products	412	62	474	2,466	2.30
astings and forgings.	1.803	527	2.330	2.072	2.14
Cotton varn and cloth	593	127	720	2.429	2.36
failway rolling stock	1,391	92	1.483	2.178	2.18
Bread and backery products	659	322	981	1.548	1.58
rinting and publishing	4.561	3.647	6.208	1.690	1.68
lothing, women's factory	1.083	748	1,831	1.981	1.92
steel and rolled products, pig iron, ferro-alloys, etc.	522	92	614	2.513	2,47
ligars and eigarettes	1.051	296	1,347	1,889	1,99
dreweries	835	118	953	2.408	2,33.
discuits, confectionery, chocolate, chewing gum,					
etc	1.810	697	2,507	1,829	1.83
Hosiery, knitted goods and gloves	756	455	1,211	2.130	2,21
Haning mills, sush and door factories	1.099	248	3,347	1,846	1,75
agar refineries	239	60	299	3.087	2.87
dachinery	1,719	542	2.261	1.951	1,88
Soots and shoes, leather	1.002	368	1.370	1.980	1.97
sheet metal products	939	309	1.248	1.886	1.94
Hothing, men's factory	1,039	405	1.444	1.905	1.98
cids, alkalies, salts and compressed gases	498	105	603	1.927	2.08
furniture and upholstering	862	346	1,208	2.172	2.02
grieultural implements and machinery	1.253	406	1.659 2.033	1,769	1,59
rinting and bookbinding	1,488	545		2.038	1,99
Dis(illeries	249 577	64	313	2,466	1,99
Sish-curing and -packing	240	53 52	630	1,355	1,36
eather tangeries	653	230	883	2.729	2.44
loke and gas products	559	275	834	1.477	1.52
furnishing goods, men's	762	193	955	1.785	1.84
Paints and varnishes	774	224	998	2.080	2,23
Coffee, spices, etc	435	137	572	2,180	2,24
Totals, Forty Leading Industries	53,248	15,499	68,747	1,892	1.869
Grand Totals, All Industries	69,858	21,385	91,243	1,915	1,899

 Employees by Sev in Forty Leading Canadian Manufacturing Industries during 1928, with Averages of Salaries and Wages Paid and of Number of Days Operated by Plants in each Industry for 1927 and 1928—metabol.

WAGES.

							=
Industry.	Empl	loyoes on Wa	ıgos,	Ave. Wa		Ave Days i and Tip Opera	n Full Part me
	Male.	Female.	Total.	1928.	1927.	1928.	1927.
	No.	No.	No.	\$	- \$	No.	No.
Pulp and paper	29,253	854	30,107	1,282	1,357	271	263
Flour and grist mill products	5,292	143	5,435	1,003	093		226
Slaughtering and meat-packing	7,787	780	8,567	1,092	1,151	289	292
Automobiles	14,075	238	14,313				307
Central electric stations	9,641	- 1	9,641		1,515		365
Sawmills.	42.888	76	42,964	715	713		96
Butter and cheese	7.077	221	7,298	993	956		220
Rubber goods, including footwear	10.769	4,181	14.950		1,016		271
Non-ferrous metal smelting.	6,804	37	6.841	1.550	1,504	359	354
1 dectrical apparatus and supplies	10.892	2,958		1.084	1.070		296
Petroleum products	3,820	25	3,815		1,407	314	307
Castings and forgings	18, 124	328	18,452		1,148	294	285
Cotton yarn and cloth	12, 139	8,736	20,895		755	282	287
Railway rolling stock	20,891 12,495	43		1.396	1,358	291	286 297
Brend and bakery products		1,946	14.441		1,085		297
Printing and publishing	8,421	1,484	9,905				
Clothing, women's factory	3,981	10.559	14.520	899	883	282	277
Steel and rolled products, pig iron, ferro-alloys,	8,410	24	8.443	1,650	1.529	303	296
Cinum and simulation	1,960	3.331	5,297		678	285	263
Cigars and cigarettes	4.014	38	4,050		1,167		286
Breweries Discuits, confectionery, chocolate, chewing	3,014	017	2,000	1,102	1,101	2011	2011
	4,551	6,213	10.767	742	724	275	274
Hosiery, knitted goods and gloves	5, 165	11.598	16,763	748	733	284	282
Planing mills, sash and door factories	10.674	110	10,784	1.007	1,057	266	117
Sugar refineries	1.979	103	2.082	1.320	1.203		250
Machinery	8,328	286	8.594	1.230	1,174	301	294
Boots and shoes, leather	8,563	5.572	14, 135		871	283	287
Sheet metal products	6.668	816	7.484	1.109	1.084	293	294
Clothing, men's factory	4,729	5,706	10.435		986	240	255
Acids, alkalies, salts and compressed gases	2.330	10	2.310		1.353	322	308
Formitare and apholstering	10.810	521	11.331	981	989		289
Agricultural implements and machinery	9, 108	100	9,208		1.147	280	278
Printing and bookbinding	7.232	2.529	9.761		1.115		295
Distilleries	1.250	312	1,571	1.139	1,208		272
Fish-curing and -packing	9.053	5.751	14,804	298	280	102	101
Leather tunpories	3,561	93	3.660	1.008	991	280	292
Coke and gas products,	3.024	7	3.031		1.379		
Furnishing goods, men's	1,217	7,858	9.075		1541)		290
Brass and copper products	4,067	415	4,482		1,138		297
Paints and varaishes	1,645		1,883	1,004	998	303	296
Coffee, spices, ele	67.1	423	1.096	953	659	295	301
Totals, Forty Leading Industries	343,365	84.669	428,034	1,016	1,015	238	237
Grand Totals, Ali Industries	141,189	125, 591	566,780	1,021	997	245	245

Real Earnings of Employees in Recent Years.—The total amount paid to the employees in industrial plants during 1928 was \$755,199,372, as compared with \$539,382,027 in 1917. The wage payments in 1928 were \$580,428,493, while the salaried employees received a renumeration of \$174,770,879. The average yearly wage of the wage-earner was \$1,024 in 1928, as compared with \$760 in 1917, an increase of 34.8 p.c. in average carnings. When the index number representing the average yearly wages, with 1917 as a base, is divided by the index number of the cost of living, converted to the same base, it is seen that real wages advanced by 16.4 p.c. between 1917 and 1928. The details of the computation are given in Table 24.

24.—Average Yearly Earnings and Real Wages of Wage-Earners in Manufacturing Industries, 1917-1928.

		A		Index Numbers.				
Yеаг.	Amount of Wages Paid.	Average Number of Wage- Farners.	Average Yearly Earnings.	Average Yearly Earnings.	Cost of Living.	Real Value of Average Yearly Earnings.		
	\$	No.	\$					
1917	420.094.869	552,968	760	100-0	100-0	100-6		
1918	480.949.599	547,599	878	115.5	113 - 8	101-3		
1919	496,570,995	529,327	938	123 - 4	125-3	98 -1		
1920	583,853,225	526,571	1.109	145-9	145-2	100		
1921	381,910,145	381,203	1,002	131-8	127 - 6	103.		
1922	374,212,141	398,390	939	123 - 6	116-8	105		
1923	428.731,347	446,994	959	126-1	116-8	107		
1924	420, 269, 406	432, 273	972	127 - 9	114.5	111-		
1925	452, 958, 655	466,602	971	127-8	116-0	110 -:		
1926	501, 144, 989	499,745	1.003	132.0	116-8	113.		
1927	531.583,250	533,450	997	131.3	115-1	114-		
1928	580, 428, 493	566,780	1.024	134-8	115-8	116		

Percentage of Wages and Salaries to Value of Products.-An interesting inquiry is that regarding the relation between wages and salaries paid by manufacturers and the total net value of production. Figures of gross production are often used in such calculations, but the values out of which the wages of employees must in the long run come are the values added to the raw materials while they are in the factory. Such added values constitute the real production of the manufacturing plant, and are alone available for payment of wages and salaries; of interest, rent and taxes; and of charges for fuel, power, lighting, repairs, and all other overhead charges. While amounts paid on some of these accounts are not readily ascertainable, amounts paid in wages and salaries are available from the statistics of the Census of Manufactures. These figures are given for 1917 and subsequent years in Table 25, and show the increasing part of the manufacturer's dollar which has gone to his salaried and wage-carning employees. In the eight latest years, salaries seem to bear a particularly large percentage to the total net production, although a steady decline has taken place since 1924; on the other hand the percentage of wages to total net product was almost the same in 1928 as in 1917.

25.—Percentages of Wages and Salaries Paid to Total Net Value of Manufacturing Production, 1917-1928.

					Percentage-	
Year,	Value added by Process of Manufacture.	Saluries Paid.	Wages Paid.	of Salaries to Values Added,	of Wages to Values Added.	of Total Sularies and Wages to Values Added.
1017	\$ 242	\$	\$	p.c.	p.c.	p.c.
1917	1,332,180,767	89,287,158	420.094.869	6.7	31.5	38-3
1918	1,460,723,777	101,507,889	480.949,599	8-1	32.9	41.1
1919	1.686.978.408	121,892,144 148,267,360	496,570,995 583,853,225	8.8	34.6	43.
1921	1.209.143.344	136.874.992	381,910,145	11.3	31.6	42.
1922	1.198.434.407	136 219 171	374.212.141	11-4	31.2	42.
1923	1.311.025.375	142.739.681	428.731.347	10.9	32.7	43-
1924	1.256.643.901	139.614.639	420, 269, 406		33 - 4	44.
1925	1,360,879,907	143.056.516	452, 958, 655	10.5	33.3	43.
1926	1,492,645,039	152,705,944	501, 144, 989	10-2	33 - 6	43 -
1927	1.635.923,936	162,348,978	531,583,250	9-9	32.5	42.
1928	1,819,046,025	174.770.879	580, 428, 493	9-7	31.9	41-

### Subsection 4.—Size of Manufacturing Establishments.

An essential characteristic of the recent evolution of industry has been the increase in the size of the typical manufacturing establishment. The full utilization of highly specialized machinery necessitates large-scale production, while the improvements in transportation have widened the market, and the development of more efficient methods of business administration has made it possible for the individual manufacturer to supervise effectively a larger plant. An increase in the scale of production of the typical manufacturing establishment has been experienced in all industrial countries which have been affected by the so-called "Industrial Revolution", and not least in Canada, where the rise of the factory system in industry has taken place approximately since Confederation.

The size of the manufacturing establishment is generally measured either by the number of employees or by the value of product, but each of these methods has its limitations. The former takes no account of the differences in capital equipment at different times or in various industries and obviously the increased use of machinery, as in the flour-milling industry, may lead to increased production concurrently with a decrease in the number of employees. The latter measure has to be adjusted for changes in the price level; and, as between industries, it makes those which handle expensive raw materials appear to operate on a larger scale. Both measures are subject to two limitations: firstly, they depend on the fluctuation of business activity and the demand of the consumer; secondly, over any lengthy period of time there is the difficulty of comparability resulting from changes in the method of the census.

Thus, while it is possible in a general way to state that the average size of the manufacturing establishment in Canada has increased between 1870 and 1928, the 1928 figures are not on the same basis as the 1870 figures, especially since they do not include all the small custom and repair establishments included at the earlier date. The same difficulty arises right up to the most recent times. It is only in the last few years that the statistics have been so analysed as to be strictly comparable, and the results of this analysis are given in Tables 26 to 29.

Size as Measured by Gross Value of Products.—In Tables 26 and 27 the size of the establishments reporting to the Census of Manufactures is shown by the gross value of products—Table 26 giving comparative figures for 1922 (the first year for which the figures are available) and 1928, and Table 27 the figures by provinces for 1928.

The comparative Table 26 shows that while in 1922 the 420 establishments which had each a gross production of over \$1,000,000 had an aggregate value of products of \$1,268,056,129 or 51 p.c. of the total production of all manufacturing industries, the 686 establishments producing over \$1,000,000 each in 1928 had an aggregate value of products of \$2,281,557,030, or 61 p.c. of the grand total for all manufacturing establishments—a very significant change in the short period of six years when the general trend of prices of manufactured goods was slightly downward.

26.—Manufacturing Establishments Grouped According to Gross Values of Products, with Total and Average Values of Products in each Class, for Canada, 1922 and 1928.

		1922.		1928.				
Group	lish- Droduction		Average Estab- Pro- duction. lish- ments.		Total Production.	Average Pro- duction.		
Gross Value of Products.  Inder \$25,000 25,000 but under \$ 50,000 50,000 " 100,000 100,000 " 200,000	No. 14.978 2.401 1.793 1,355	85,075,807 129,320,947 191,675,689	35,433 72,125 141,458	2,914 2,214 1,646		35, 199 70, 790 141, 304		
200,000 ** 500,000 500,000 ** 1,000,000 1.000,000 ** 5,000,000 5,000,000 and over	1.078 516 364 56	363,341,076 692,463,530	704,149 1,902,372	605 586	420, 139, 588	694,44 2,014,15		

# 27.—Manufacturing Establishments Grouped According to Gross Values of Products, with Total Values of Products in each Class, by Provinces, 1928.

	Prince Ed	ward Island.	Nova	Scotia.	New B	runswick.
Group	Estab- lishments.	Production.	Estab- lishments.	Production.	Estab- lishments.	Production.
Gross Value of Products.	No.	\$	No.	\$	No.	\$
Under \$ 25	236	1,566,130	859	5,860,185	561	4,372,730
25-\$ 50		740.075		4.017.535	88.	3,047,954
50- 100		973,680		6.155,381	44	3,310,509
100→ 200	5	759,825	49	6,844,928		6,588,32
200- 500	1	405,450	36	10,373,045		8,702,300
500 1,000		-	8	5,164,153		11.061.16
1,000-5,000		-	9	18,334,245		21,852,18
5,000 and over	7	-	3	28, 199, 136	1	8,478,578
Totals	277	4,415,169	1, 167	81,948,668	791	67, 413, 743
	Qı	u-bee	Or	stario.	Ma	nitoba.
l'ader \$ 25	4.855	37,212,277	5.033	43.967.215	437	3,634,781
25\$ 50	751	26.056.111	1.443	51,441,600		3,499,97
50- 100	511	36, 392, 194		78, 434, 351		8,920,44
100- 200	395	56,738,550		118, 251, 980	81	11,632,52
200- 500	373	115, 735, 163	793	248, 112, 388	63	19.102.71
500 1,000	156	108,924,768		223,713,670		14,593,32
1.000-5,000	150	322, 152, 258	314		36	67,603.42
5,000 and over	40	369,950,970	41	558, 411, 704	4	30,447,89
Tidals	7,231	1,073,162,291	9,980	1,949,724,119	871	159, (25, 09
	Saska	tchewan.	_A	berts.	British	Columbia
Under \$ 25	529	2, 159, 342	462	5,501,957		11,322,28
5 25-\$ 50	79	2,806,487		4,446,644		6,5[5,15
50 100	56	3,969,146				13,288,99
100- 208		4.328.089				21,664 51
200- 500		5.386.794		9,282,040		43,566,66
500 — 1,000	11	7,870,214				35,563,38
1,000— 5,000	. 7	14.040,987		41,693,298 15,506,245		67, 229, 40 71, 701, 27
5,000 and over		18,564,221	1 2	10,000,240	4	(1.071.61
Totals	.1 737	59, 125, 286	778	100,744,401	1,621	270,851,66

Size of Establishments as Measured by Number of Employees.—In Tables 28 and 29 the establishments reporting to the Census of Manufactures are classified by the number of their employees. In the comparative Table 28, it is shown that out of a total increase of 131,913 employees in our manufacturing industries between 1923 and 1928, 64,306, or almost 49 p.e., were in establishments with over 500 employees.

28.—Number of Establishments and of Employees in Canadian Manufactures, Grouped According to the Number of Employees per Establishment, 1923 and 1928.

Croup		1923.		1928.			
Слодр	Establish- ments.	Employees.	Average Employed.	Establish- ments.	Employees	Average Employed.	
	No.	No.	No.	No.	No.	No.	
"ewer than 5 employees	13.156 5.310 2.083 1.031 566 374	23,632 53,852 67,408 73,449 79,737 115,585 112,447	1.7 10.1 32.2 71.2 140.8 309.0 1.004.0	12,373 6,021 2,457 1,204 720 430 174	23, 227 60, 825 79, 289 85, 402 100, 962 131, 565 176, 753	10- 32- 70- 140- 305- 1,015-	
Totals	22,612	526,110	23 - 2	23, 379	638,023	28	

 Number of Establishments and of Employees in Canadian Manufactures, by Provinces, and Average Number of Employees per Establishment, 1928.

Province.	Under 5 Employ- ces.	<b>5</b> -20.	21-50.	51-100.	101-200	201-500	and over.	Total.
Prince Edward Island -								
Establishments	164	90	21	2				277
Employees.	304	974	637	120	_	-		2,033
Average per establishment	1.8	10.9	30.3	60.0		-	-	7.7
Nova Scotia -								
Establishments	544	421	138	42	9	10	3	1.16
Employees	1,025	4.289	4,212	2.939	1.280	3,146	2,331	19,22
Average per establishment	1-8	10-1	30-5	69-9	142-2	314-6	77-7	16.
New Brunswick-								
Establishments	363	268	103	30	15	12	3	79-
Employees	810	2.775	3,349	2.103	2.212	3,985	2,729	17.96
Average per establishment	2.2	10-3	32-5	70 - 1	147 - 4	332 - 1	909 - 6	22-
2uebec -				000	100	10	04	
Establishments	4.362	1.504	654	325	185	132	69	7.23
Employees	7,869	15,441	20.891	23.089	25,305	41.453	70.911	204,95
A verage per establishment	1.8	10-2	31-9	71-04	136-7	314.0	1.027-6	28-1
Establishmenta	4.815	2.714	1.101	583	383	215	RG	9.90
Employeea	8.317	27,156	35,868	41.438	53.610	64.909	89.431	320,72
A verage per establishment	1.7	10.0	32-5	71.400	139-9		1.004.8	32.
Manitoba -	1.1	10.0	02.0	41.0	194.9	901.9	1,001.0	02.
Establishments	412	244	110	59	23	19	4	87
Employees	788	2.579	3.624	3.953	3,491	5.482	5.249	25.16
Average per establishment	1.9	10.5	32.9	157-9	151.7	288-5	1,312-2	28.
Suskatchewan			000				1,	0.0
Establishments	556	116	43	12	6	4	4 =	73
Employees	838	1.065	1.524	833	892	1,021	~	6, 17:
A verage per establishment	1.5	9-1	35-4	69 - 4	148-6	255-2	-	8-1
Alberta -								
Establishments	476	184	55	32	22	8	1	773
Employees	924	1,650	1,791	2.266	2.869	2,728	599	12.82
Average per establishment	1.9	8-9	32.5	70-8	130-4	341.0	599-0	16.
British Columbia—								
Establishments	681	480	232	119	77	30	5	1.62
Employees	1,952	5,096	7,493	8,761	11,303	8,841	5,503	48.94
Average per establishment	2.8	10.6	32-2	73 - 6	146.7	294 - 7	1,100-6	30.

### Subsection 5.-Power and Fuel.

Power.—The power equipment installed in manufacturing establishments is a very good barometer of the industrial development of Canada, inasmuch as the production is dependent on the power equipment. Increases and decreases in productive capacity, measured in horse-power, are not the result of temporary fluctuations in costs and values in the same manner as capital investments, values of products, etc. Power equipment will not reflect temporary depressions, but over a period of several years will indicate industrial growth or decline.

Central electric stations, which generate electricity for both lighting and power purposes, are included in Table 30 with the other groups of industries and are included also with the industries of each province. The note with Table 30 explains the duplications in power equipment involved where other manufacturing plants are operated by power purchased from central electric stations. Internal combustion engines include all gasolene engines, natural, coal and producer gas engines, and diesel and semi-diesel or other engines which produce power by burning the fuel in the cylinder.

Comparisons with the data for 1927 show an increase of 558,664 h.p. or 9.8 p.c. in 1928 in the total primary power equipment installed in manufacturing establishments, by far the largest increase being in the central electric stations, where the increase was 468,504 h.p., there being a decrease in primary power installation in some of the other groups due to the replacement of steam equipment by electrical equipment operated by purchased power. The water-power development of central electric stations increased by 470,519 h.p., while the steam power installed was slightly reduced. In the provinces with large water-power developments the greatest total primary power increases were made, Quebec leading with an increase of 311,262 h.p., Ontario coming second with an increase of 97,375 h.p., British Columbia third with an increase of 74,144 h.p. and Manitoba fourth with an increase of 55,185 h.p. In the utilization of hydraulic power Quebec exceeded Ontario for the first time in 1925. In 1928, Quebec exceeded Ontario or any other province in the total of installed primary power from all sources.

The rapid increase in the development of power in Canada and in its utilization in manufacturing industries is illustrated by the summary figures for the years 1921 to 1928 in Table 30. The total primary power increased by 3,102,798 h.p. or 99 p.c. in the 7 years, while the total installation of electric motors increased 1,582,478 h.p. or 156 p.c. in the same time.

### 30.—Totals, for Canada, of Power Installed in the Manufacturing Industries, 1921-1928, with Details by Provinces and Groups of Industries for 1928.

Nore,—Total power equipment employed (Col. 8) is the sum of total primary power (Col. 4) and cheetric motors operated by purchased power (Col. 5). Since the power purchased (Col. 5) is generated by primary equipment already included in Col. 4, there is a duplication by the amounts of Col. 5 in the total power equipment figures of (Col. 8 is applied to the totals for Canada and for each of the provinces. In the case of each of the groups of industries, however, since this purchased power is practically all generated by central electric stations, there is no duplication in the figures of total power equipment employed (Col. 8). The net growth in the power developed in Canada is shown in Col. 4 for the years 1921 to 1928.

		Primar	y Power.		Fil	ectric Moto	rs.	
Province and Group.	Steam Engines and Turbines	Com- hustion langines.	Hydraulic Turbines and Water Wheels.	Total Frimary Power.	Operated by Pur- chased Power.	Operated by Power Gener- ated by Establish- ments.	Total Electric Motors.	Total Power Equip- ment Employed
	Col. 1.	Col. 2.	Col. 3.	Col. 4.	Col. 5.	Col. 6,	Col. 7,	Col. 8.
	h.p.	h.p.	h.p.	h.p.	li p.	h.p.	h.p.	h.p.
Totals, 1921	764,725	53,567	2,318,865	3, 137, 157	-	- 1	1,014,216	-
Totals, 1932	833,756	87,022	2,691,081	3,611,863	-	-	1,162,649	-
Totals, 1923	827,870	61,020	2,869,738	3,761,628	958,692	357, 136	1,315,828	1,720,320
Totals, 1921	944, 267	72, 191	3,283,116	4, 299, 904	1,256,183	398,001	1,654,184	3,556,087
Tetals, 1925	992,916	77, 435	1,012,756	5,083,107	1,547,754	434,678	1,982,433	6,638,861
Totals, 1926	1,018,535	78,554	1,213,013	5,310.102	1,770,334	392.322	2,162,656	7,080,436
Totals, 1927	1,038,931	79,753	1,562,607	5,681,291	1,924,687	386,555	2,311,242	7,605,978
Totals, 1928,	1,033,307	83,861	5,102,784	6,239,955	2,139,139	157,565	2,598,691	8,329,084
Province, 1923.								
P. E. Island Nova Scotia New Brunswick Quebec Charno Manitoba Suskatehewan Alberta British Columbia	4.014 113,523 56.672 205,163 311,403 44.821 71,118 91,323 155,270	3, 769 4, 148 7, 329 36, 195 2, 245 44, 033 5, 585 9, 651	62.658 54.914 2.326.154 1.819.906 310.955	6, 781 170, 950 115, 734 2, 539, 640 2, 167, 504 358, 021 85, 151 130, 445 657, 723	35,755 942,663 842,673 84,608 14,844 28,757	40, 404 22, 221 142, 185 179, 037 491 143 5, 052	68.382 57,976	3,010,479 442,629 99,985 159,202
GROUP OF INDUSTRES, 1928								
Vegetable products Animal products. Teniles. Wood and paper Iron and its pro-	56,567 25,937 27,251 410,315	11,599 5,373 1,377 14,006	38,863 1,634 31,342 495,615	107,029 32,944 69,970 919,936	74,222 103,809	3,222 26,298	74,444 136,107	309,611 104,166 103,779 1,908,738
ducts. Non-ferrous metals Non-metallic min-	144,747 19,570	21.557 276	9.048 68,960	174.352 88,806			385,883 235,426	488,521 294,642
erals	30,053 15,155	3,836 321	4.426 8.345	38.315 23.821	143,351 47,580	16.273 3.410	159,624 50,990	181,666 71,401
Miscellaneous in- dustries Central electric	7,401	461	20	7,882	61,778	50	61,828	69,660
stations	316,311	25,058	4,445,531	4,786,900	-			4,786,900

Fuel.—The fuel used in industrial establishments in 1928 included 6.639,736 tons of bituminous coal, valued at \$37,871,736, constituting 63·3 p.e. of the total fuel cost. The other chief fuels in order of value were:—fuel oil, comprising 12·2 p.e., gas (principally natural gas) 9·1 p.e., wood 4·1 p.e., anthrucite coal 3·5 p.e. and coke 3·0 p.e. Out of a fuel account of nearly \$60,000,000, Ontario expended \$28,800,000 or 48·2 p.e. of the total. The manufacturing concerns of Quebec expended \$17,300,000, those of British Columbia \$3,500,000 and those of Nova Scotia nearly \$3,000,000.

The groups of industry in which fuel was most extensively used in 1928 were:—wood and paper, \$14,428,000; non-metallic minerals, \$12,861,000; iron and steel, \$10.647,000; and vegetable products, \$6,794,000. Fuel is used quite generally throughout the industrial field for the generation of power by means of internal combustion and steam engines. The principal industries where fuel is used as a material that enters into the actual composition of the product are the manufactures of coke and gas. The most important industries where heat is applied directly to materials to transform them or to facilitate their manipulation are foundries and machine shops, blast-furnaces and steel mills, smelling plants, brick-, tile-, lime- and cement-making, petroleum-refining and the glass industry.

The total annual expenditure on fuel increased by \$8,120,355 or 15.7 p.c., in the 7 years from 1921 to 1928, covered by the summary figures in Table 31. The fuels which have shown the greatest proportionate increases are gas and oil.

31.—Total Fuel Used in the Manufacturing Industries of Canada, 1921-1928, with Details by Provinces and Groups, 1928.

Province and Group.	Bitamine Quantity.	Value.	Anthra- cite Coal.	Coke	Citl.	Wood.	Gas.	Total.
	tons.	8	4	8	\$	\$	8	\$
Totals, 1921	4,103,071	34,753,681	2,915,752	2,497,100	5,417,800	**		51,640,912
Totals, 1922	1,101,463	29, 914, 585	3,616,185	3,299,146	5,619,071	2,085,411	1,616.802	45,920,505
Totals, 1923	5,338,446	38, 283, 135	4,614,239	3,238,257	6,241,692	2,514,157	1,984,658	58,736,938
Totals, 1924	6,518,255	34,438,554	1, 612, 651	2,250,232	5,780,752	2,595,064	4,711,186	57,068,214
Totals, 1925	5,902,197	34,034,531	2.561,189	5,045,239	7,246,961	2,700,979	3,570,189	57,818,701
Totals, 1926	6,409,227	36,723,359	2,266,935	4,176,584	7.371.769	2,645,505	4,233,073	59,695,997
Totals, 1927	6, 170, 803	38,053,827	2, 435, 720	3,899,378	7,220,529	2, 192, 195	5, 272, 735	69, 106, 218
Totals, 1928	6, 639, 736	37,871,736	2,970,989	1,819,317	7.300,552	2, 139, 101	5, 431, 805	59,761,267
PROVINCE, 1923.								
P. E. Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskalchewan Alberta, British Columbia and Yukon	3,354,934 135,393 73,783 152,192	1,625,179 1,300,493 12,322,547 18,947,358 957,037 486,328	469 19,911 16,419 1,088,796 842,999 71,016 18,722 2,065 10,592	78, 731 26, 590 260, 345 1, 229, 808 56, 010 40, 258 37, 935	15,960 557,010 60,181 2,037,177 2,648,947 289,265 346,454 106,085	11,397 63,779 172,784 547,082 984,603 249,950 66,624 34,451 309,428	506,113 3,605,246 80,076 154,601	1,700,741 17,320,310 28,791,474 2,069,449 1,781,992 1,544,523
GROUP OF INDUSTRIES, 1928.								
Vegetable products Animal products, Textiles. Wood and paper. Iron and steel. Non-ferrous metals Non-metallic min-	348,320 481,309 1,948,105 1,072,154 313,396		408,242 77,153 194,644 931,448 233,802 66,901	376,539 42,985 48,395 20,858 507,323 150,908	694.021 214.350 88.131 831,927 2,000.966 848.694	490, 263 307, 921 47, 994 720, 901 65, 704 62, 280	65,554 86,193 153,119 2,017,061	6,793,577 3,362,773 3,684,772 14,428,373 10,647,270 3,246,564
erals. Chemicals. Miscellaneous in-	1,231,626 283,636		81,028 46,020	572,268 56,228	2,103,678 70,651	645,931 14,227		12.861.215 1,832,453
dustries Central electric	60,878		23,830		88,348		39,180	
stations	186,095	973,111	7,921	13,504	359,786	75, 136	32,301	2,280,405

<sup>1</sup> Includes other kinds of fuel which, in 1928, were as follows: lignite coad, \$1,572,452; gasolene, \$448,616 and other fuels, \$803,666.

### Section 5 .- Manufacturing Industries in Cities and Towns.

The prosperity of most of the cities and towns of Canada, especially in the East, is intimately connected with their manufacturing industries, which provide employment for a large proportion of their gainfully employed population. In the West, the cities are more largely distributing centres, though manufactures are rapidly increasing there also.

Table 32, indicating the extent to which the manufacturing industries of Canada are concentrated in urban centres, shows by provinces the proportion of the gross manufacturing production which is produced in cities and towns having a gross production of over \$1,000,000 each. In the more highly industrialized provinces of Ontario and Quebec such cities and towns account for over 80 p.c. of the total, while in British Columbia and Prince Edward Island, where sawmilling, fish-packing, and dairying are leading industries, the proportion falls to less than 55 p.c. In the Prairie Provinces manufacturing is largely confined to a few large urban centres.

The seven chief manufacturing cities of Canada in 1928, in the order named, were Toronto, Montreal, Hamilton, Winnipeg, Vancouver, Oshawa and Ottawa, with a gross production of over \$60,000,000 each. Statistics showing the trend of production in these cities, during the last 8 years for which the figures are available, are given in Table 33.

According to the census of 1921, Hamilton is proportionately the most largely dependent of these cities upon manufacturing industries. About 45 p.e. of its gainfully employed population was employed in manufacturing industries, as compared with 30 p.e. in Montreal and Toronto, 17 p.e. in Winnipeg and Vancouver and 13 p.c. in Ottawa.

Nineteen other important cities with a gross production of manufactured goods of between \$60,000,000 and \$20,000,000 each in 1928 were as follows, in descending order of the value of their products:—Kitchener, London, Three Rivers, Quebec, Ford City, Calgary, Niagara Falls, Windsor, Peterborough, Shawinigan Falls, Brantford, New Toronto, Sarnia, Sault Ste. Marie, St. Boniface, Walkerville, Edmonton, Saint John and Lachine. Statistics of the manufactures of all cities and towns with a gross production of \$200,000 and over and with three or more manufacturing establishments are given for 1928 in Table 34.

32.—Cities and Towns with a Gross Manufacturing Production of over \$1,000,000 each, Number of Establishments and Total Gross Production in such Cities and Towns as a percentage of the Grand Total, by Provinces, 1928.

Province.	Cities and Towns with a Gross Production of over \$1,000,000 each.	Establishments Reporting in Cities and Towns Producing over \$1,000,000 each.	Tend Praduction in Cities and Towns Producing aver \$1,000,000. each.	Total Production in each Province.	Production in Cities and Towns as a Per- centage of Total Pro- duction in each Province.
Prince Edward Island. Nova Scotja New Branswick Quebec Ontario Manitoh Saskatchewan Alberta. British Columbia.	Na. 1 10 50 123 7 4 4 14	No	\$ 1,900,992 67,263,193, 49,290,263 902,400,061 1,775,342,136 148,016,537, 50,540,384 82,232,905, 145,169,694	\$ 4,445,160 84,948,668 67,413,742 1,673,162,291 1,949,724,119 159,435,094 59,125,280 106,734,401 270,851,669	73 · 12 84 · 09 01 · 05 92 · 83 85 · 48 81 · 62
Canada	222	11.679	3, 222, 158, 165	3,769,850,364	85 - 47

## 33.—Principal Statistics of the Manufacturing Industries of the Seven Leading Manufacturing Cities of Canada, 1921-1928.

City.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wagos.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	\$	\$	\$
Montreal 19 19 19 19 19 19 19 19 19 19 19 19 19 1	1.468 1.451 1.451 1.560 1.006 1.729 1.823	437, 150, 896 456, 848, 909 473, 624, 425 469, 354, 640 523, 125, 905 542, 412, 908 552, 788, 702 481, 181, 947	79, 996 85, 693 86, 648 94, 624	81,709,683; 83,973,965; 93,943,718 94,725,516 99,755,986 109,147,450 113,797,512 119,225,844	212, 796, 716 200, 918, 219 226, 198, 441 224, 134, 382 235, 304, 377 275, 322, 256 259, 104, 230 273, 015, 114	459, 254, 656 444, 852, 084 467, 055, 393
Toronto. 19 19 19 19 19 19 19 19 19 19 19	22 1,811 23 1,933 24 1,928 25 1,957 26 2,013 27 2,092	370, 426, 285 392, 469, 184 389, 772, 678 410, 244, 608 429, 165, 622 451, 233, 965 475, 475, 306 505, 207, 658	78,833 82,267 80,001 82,728 86,439 92,238	84, 147, 050 92, 930, 846 97, 417, 033; 96, 554, 316; 100, 769, 782; 107, 734, 568; 115, 556, 907; 125, 579, 596	192, 588, 233, 205, 568, 765, 210, 786, 422, 213, 493, 889, 246, 399, 340, 270, 293, 114, 270, 275, 071, 293, 830, 796	371, 090, 034 394, 065, 052 300, 829, 557 401, 367, 127 447, 098, 824 489, 522, 114 520, 066, 343 565, 444, 323
Hamilton. 19 19 19 19 19 19 19 19 19	22 437 23 436 24 427 25 414 26 417 27 422	142,006,725 143,468,008 170,378,149 170,993,755 166,284,301 172,345,587 179,328,754 204,584,803	23, 476) 25, 797 23, 772 23, 629	28, 062, 408, 26, 256, 146, 31, 399, 136, 28, 513, 253, 27, 987, 009, 31, 243, 170, 36, 984, 470, 40, 276, 968	53,074,110 50,844,910 77,140,899 56,884,010 62,110,074 74,066,846 72,757,263 79,114,898	141,097,732 118,591,000 122,305,950
Winnipeg	22 436 23 425 24 411 25 409 26 446 27 476	67, 354, 844 46, 251, 208 70, 872, 528 87, 489, 500 89, 688, 323 96, 801, 995 108, 717, 320 115, 678, 092	10,679 11,596 11,934 14,346 15,469	15, 521, 375 13, 858, 116 14, 782, 426 15, 395, 262 18, 390, 797 20, 086, 607 21, 215, 664 23, 994, 80	42,388,504 46,501,703	70, 647, 027 74, 755, 670 70, 614, 829 87, 686, 243 95, 592, 864
Vancouver	22 485 23 507 24 498 25 507 26 523 27 556	72,065,45; 75,030,95; 80,053,566; 93,699,45; 102,165,028; 106,624,727; 116,754,990; 123,029,880	10,598 11,400 13,417 13,334 14,781 14,897	12, 346, 231 10, 579, 482 13, 815, 995 16, 920, 959 16, 384, 973 18, 347, 299 19, 254, 035 20, 263, 435	35, 287, 999 35, 507, 418 40, 518, 790 43, 691, 647 42, 020, 970 46, 120, 382 47, 290, 240 49, 597, 035	63, 172, 964 71, 221, 905 77, 860, 759 75, 823, 721 84, 831, 423
Oshawa, 19 19 19 19 19 19 19	22 34 23 34 24 35 25 34 26 33 27 35	17, 444, 828 20, 658, 43 23, 978, 144 21, 311, 534 21, 832, 973 23, 935, 711 31, 883, 066 38, 643, 526	4,052 5,019 4,554 4,987 5,611 6,846	3, 418, 396 4, 883, 478 6, 223, 883 5, 301, 282 6, 269, 918 7, 391, 465; 10, 127, 271 12, 992, 374	18,990,616 28,535,248 33,338,313 25,996,264 30,345,887 34,447,446 50,763,745 56,182,896	40, 131, 834 43, 876, 305 37, 918, 689 47, 529, 284 54, 571, 595 77, 631, 290
Ottawa	22 203 23 197 24 204 25 192 26 207 27 201	38.184.743 38,530,756 43.543,756 48.347,556 48.777,656 52.310.095 56,466,275 58,207,100	6,667 7,058 7,379 7,110 7,593	7, 254, 369 7, 742, 794 8, 454, 415 8, 435, 969 8, 554, 138 9, 028, 482 9, 373, 881 10, 247, 593	25, 706, 305 15, 905, 187	30, 826, 930 31, 303, 494 59, 491, 881

34.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1928.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	8	\$	\$
Prince Edward Island Charlottetown	31	1.844.302	427	421,571	991,338	1,900,992
Summerside	14	417,227	104	81.115	136, 284	309,618
Nova Scotia						
Sydney	34	45, 147, 202	2,444	3,536,158	8, 282, 402	19.570.383
Dartmonth	105	15,901,328 31,207,610	3,860	1,195,851 4,984,844	12,059,653 5,078,402	17,630,681 14,403,319
Halifax Trenton Truro	3	8, 926, 265	745	1,033.309	2,486,559	4,150.608
FRTO	24 24	4,616,924	843 682	696, 697 628, 195	1,871.073	3,520,013 2,747,080
Amherst	29	2.861.621	539	479,881	1,230,254	2,448,884
Yarmouth	27	2.100.587	477	466,860	590.503	1,613,740
Windsor Canso	13	2,211,890 320,915	299 219	190,090	636.347 471.839	1,178,486
l'icton	12	466, 232	285	140.126	381,105	647.157
BridgewaterLunenburg	20	825,704	211 224	127,812 180,297	392, 954 262, 371	693, 138 569, 352
Siglation	10	678,199 695,673	61	64.016	154, 900	508, 196
Dighy	7	354,468	67	52.334	200.787	490,687
Dighy Middleton Port Hawkeebury	8	359, 228 728, 284	52 101	51.548 es nus	340,440 227,019	451,148 407,450
North Sydney	13	292, 621	118	85,785 99,729	188,884	392.094
North Sydney Lockport	5	352,460	125	68,999	241.192	386.307
Clark's Harbour. Liverpool. Shelburne.	8 9	62,800 2,995,244	61	26.631 105,292	285,427 153,171	341.128 308,834
Shelburne	17	264, 564	121	95.933	140.239	301, 738
Oxford	10	313,968	165	84,091	157.384	292.788
Glace Bay Bridgetown	7 9	260, 239 310, 055	51 108	56,644 67,968	34,608 141,596	249, 939 247, 110
Transperon II		770,000	100	177 . 11747	111,000	241,110
New Brunswick-	4 50	202 SAU BAU	40 800		42 102 010	-0.10=.00=
Saut John	126 39	28,518,719 7,727,669	3,516 2,351	3,590,646   2,760,036	15, 137, 643 4, 166, 096	23, 187, 287 8, 052, 280
Edmuniston	10	10, 145, 382	496	558,049	1,447,518 1,939,763	3,552.311
Modeton Edmundston St Stephen Rathurst	18	2,692,137	730	686,953	1,939,703	3,439,593
Bathurst Fredericton	13 28	11.474,661 3.601,820	552 620	664.987 598.956	1,579,627 1,016,632	3,367,911 2,088,618
Cumphaliton	14	3.343.830	557	444,040	1,253,098	2,002,136
Millown Sackville Newcastle Chatham	3	2,160,635	745	566, 425 436, 991	797.676 348,594	1,432,765
Newcastle.	12	1,537,235 2,917,651	234	174, 839	804,810	1,058,656
Chatham	1.1	3.401,785	223	229,766	502.610	874,370
Crand Kalls	11	437,063 409,010	132	130.557 104.940	382,418 201,864	738, 530 380, 401
Woodstock	19	482,439	117	99,435	96,693	280, 044
Woodstock Port Elgin	7	151,902	105	44.472	112,482	202,414
Quebec						
Montreal	1,834	481, 181, 947	101.668	119, 226, 844 8, 258, 527	273,015,114	554.311.571
Ouchec.	55 251	79.061,136 69.857,968	7,634	9,747,565	19, 209, 953 17, 505, 822	45,441,169 44,608,105
Three Rivers. Quebec. Shawinigan Falls,	21	149, 846, 124	2.938	4.076.874	13,489,984	33.536,961
Lachine	29	25.427,082	2,893 1,719	4,792,210 2,528,304	7.514,290	20,736,693
Sherbrooke	76	26.511.718 22,339,310	4.677	4,708,027	9,494,444 9,227,636	19,427,957
Sherbrooke. Hull Granby. Valleyfield.	41	13.077.202	2.655	2.655.575	9, 227, 636 5, 847, 020	11,705,232
Cranby	26 25	9,724,593 10,929,551	2,763	2,352,651 2,148,236	4,439,185 3,831,607	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 8,761,102	889	1,313,502	4, 251, 599	8,986,835
St. Hyacinthe	50 15	8,761,102 64,890,988	2.561	1,899,563	3,155,927 2,298,567	8,905,609 7,976,144
St John	38	8.039.430	2.750	2, 828, 236	3,621.671	7,726,715
St. Jérôme	26	6.349.083	1,853	1,555,746	2,886,997	7.610,937
Drammondville	14	18.643.679 16.279.477	2,056	1,890,516 1,429,172	4.063.184 2.563.276	6,892,209 6,875,573
Magog Port Afred St. Hyscinthe Grand Mère St. John St. Jérôme Drummondville Kenogami East Angus La Tujue	3 7	15, 299, 951	854	844,017	2.816.076	5.263,575
La Tuque Belori Lauzon	11	8,674,704	657	1,005,118	2,031,977	4.662,724
Beleil	9 8	3,976,687 2,705,002	260 523	295.983 587,603	2.141.091	4,104,734 3,626,217

34.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1928—continued.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages,	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	\$	8	\$
nehec-concluded.	21	2,384,709	1,208	933,553	1,332,407	3,496,5
Victoriaville	11	3,769,844	851	831,433	1,591,160	3,432,8
St. Joseph d'Alma	7	14.824.888	473	713,575	786, 131	3.072.2
Beaubarnois	9	5,889,029	581	618.489	1.190.445	3.072.2 2.777,7
Donnaeona	3	11.533.207	503	743,596 ;	1.302.057	2.741.1
Chicontini	25	9,772,595	605	628.248	1,339,155	2,540,6
Chicoutimi Bromptonville Johette Windsor Costicook	4	506,769	312	331,827	1,335.793	2,269,0
deligates	37	1,896,530	579	*477,688	920, 179	2, 124, 8
Windsor	7.	6,002,789	503	570,010	924.338	2.077.9
Costicook	21	2,300,629	713	461,289 1,013,164	1.088,941	2,010,7
Sorel	20	2,953,834	1.320	E, 013, 164	493.160	1,892,4
Cowansville	10	2,344.059	569	450,953	767,141	1,840,8
Chandler	3	3,492,960	463	470,899	748.698	1.756,8
Backingham	14	2,894,127	321	423.022	859, 262	1,676,9
Berthier	14	6,344,772	259	240,216 414,792	638.219	1,645,2
Marieville	11	1,686,662	487	414,792	988, 804	1,444,3
Sorel Cowans ville Cowans ville Chaudler Back inghant Back inghant Marieville Ionquière Loretteville	8	1.454.483	205	300.134	587,114	1,469,9
Loretteville	21	1.153.020	467	332,225	763.846	1,271,0
Portneuf Rock Island Asbestos Laprairie	9	1,691.628	197	219,232	651,740	1, 256, 5
Rock Island	13	2,085,434	349	324,812	598.730	1.243.3
Asbestos	10	1,212,834	163	184,660	631.640	1,203,7
Laprairie	9	7,257,674	422	454.298	56,147	1, 196,
S) Rémi	10	685,376	132	105,695	923,247	1.193.1
St. Laurent,	4	1,226.317	298	382,094	404.060	1,125,1
St Rømi St. Laurent Plessisville Ste. Thérèse	16	1,134.027	359	267,512	577,469	1,101,
Ste. Thérèse	11	1,177.544	271	226,429	493,920	1.052.3
Farnham Montmagny Longueuil Cap de la Madeleine	13	1,084,172	368	. 227, 654	541,298	1,037,1
Montmagny	15	1,934,247 3,667,339	426	348,804	393,944 808,767	1,015,6
Longueuil	10		319	424,094	667,130	902.0
Cap de in Madeleine	6	250, 492	299	47.514 310,255		868.8
A CONTRACTOR OF THE PROPERTY O		2,952,154		315,075	464,659 83,330	800.0
Bedford	4	931,425 489,215	410 310	179,563	528,966	
Louiseville	61	963, 449	217	152.080	361.921	772.1 734.1
Louiseville St. Raymond Rivière du Loup. Lac au Saumon	17	1,953,059	299	293,149	246,231	691,6
Later Same	4	2,222,083	216	107,569	340,137	683.
Westmoust	6	1,462,759	227	279,723		672,
Carrobanno	10	1,168,912	284	230,986	75, 223 337, 215	668,5
Lannasville	8	578.267	1119	128, 973	370,431	663.1
Acton Vale	9	421,489	351	150, 475	287,569	630,
Thurso	6	886.629	132	143,490	429,666	609.5
Lennoville Acton Vale Thurso Pant Rouge Levis	8	816.952	156	141,650	320,048	604.3
Levis	16	785,366	264	197,923	208,587	568.
Contrecœur Warwick Calumet Murray Bay	5	300,888	188	144,149	329,667	547,
Warwick	10	526.898	171	134,126	305,128	521.
Calumet	3	604,820	129	116,226	397,499	513.
Murray Bay,	10	56,992	64	30,652	384,710	493,
JULIERIONE	i ii	482.597	112	128,256	304, 143	492, 475.
Distact.	7	1,898,342	179	178,876 221,962	141,730 113,457	445.
lberville Danville Waterloo	10	261,453 573,697	147	113,483	216.036	410.
Waterlee	10		182	118,444	164, 493	381.
	12	397.879 181.873	136	58 996	261, 115	377.
Ste. Marie	10	552,990	114	58,226 96,307	179,018	373.
Megantic (faspé Nicolet Shawville Beebe Plain	3	952.244	99	41,486	313,010	352
Visitat	10	304.875	128	87,476	176,910	347.
Shampillo	9	77, 994	29	21,538	276,380	346.
Rasho Plain	5	160,496	76	63,026	194,525	329.
Atune		426,416	112	105, 229	136.462	327.
Sutton	11	285,876	81	59,093	158, 059	312.
Huntingdon	9	151,116	41	36,940	206,087	309,
Amos Sutton Huntingdon Bagotville		326,800	10	9,916	16,996	293,
MORULANTICE	8	379.326	39	34,963	215,369	290,
Beauceville	9 1	230,766	96	64,233	131.805	268.
St. Pie St. Tite St. Lambert	11	140,353	66	39,581	196,178	261.
St. Tite	11	130,683	92	50,865	163,070	258,
St. Lambert	6	373.858	118	108,277	64,316	256.
1. A880HIPUOR	. 0	304,621	94	62,542	158,745 138,749	252.
Roberval	14	231.037	104	66,960	138,749	240.
Lachute	. 15	523,639	101	77,233	86,525	237.
Thetford Mines	. 14	385,663	104	88,548	93,939	224.
Macamie		216,611	104	54,798	113,811	223.

34.—Statistics of Manufactures of Municipalities with a Gross Production of \$220,000 or over, and with Three or more Establishments, 1928—continued.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products,
	No.	\$	No.	8	8	8
Ontario						
Toronto	2,221	505, 207, 658	100,034	125,579,599	293,830.796	565,444,323
Hamilton	426	201,584,803	30,787	40,276,968	79,114,898	166, 262, 355
OshawaOttawa	195	38, 643, 526 58, 207, 109	8,715 8,387	12,992,374 10,217,593	56,182,896 43,468,453	84,894,222 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 Ningara Falls	10	45, 139, 262	7.051	13,590,633	26,807,710	44, 293, 223
Ningara Falls	61	41,931,035	3,113	4,420,295	18, 498, 194	38,729,880
Windsor Peterborough	143	29,275,221 24,795,223	4,211 5,349	6,845,057	20,489,496	37,639,930
Brantford	101	60,061,627	7,714	5,712.694 8,600,204	20,844,956 16,439,312	36, 124, 040 32, 273, 886
New Toronto	12	23, 263, 688	3,357	4,736,182	19,766,829	31,114,973
Sarnia Sault Ste, Marie	41	21, 274, 999	2.507	3,788,580	17, 917, 152	27, 123, 165
Sault Ste. Marie	46	63,677,529	2,483	4,430,913	12,266,859	26,980,517
THERETVILLE	55	30,800,940	3,116	5, 150, 993	13, 149, 690	25,050,109
Welland Port Colborne	41 16	27, 274, 192 10, 891, 290	2.892 752	3,419,779 1,048,924	10,443,339 16,971,662	19,901,087
Guelph	92	18,270,653	4.515	1,048,924 4,804,929	9,542,111	19,894,201 19,595,669
CU, Churrines	100	19,748,301	3,905	4, 663, 401	7,699,561	17,584,863
Leasido	7	16,554,423	1,361	2,302,186	11,350,055	16, 017, 743
Leaside	79	17,291,600	3.932	4.329.550	7,212,355	15, 135, 908
Chatham	52	14,689,267	2,371	2,902,256	8,673,311	14,568,023
Kerwatin	3 43	6,096,954 22,268,501	364 4,233	482,804 3,968,273	12,874,723 6,273,735	14.540.450 14.353.376
Cornwall Stratford	62	10,932,025	3,249	3,870,933	6,947,049	13,300,646
Thorold	16	25,813,140	1,456	2,289,750	5,089,092	13,072,891
Woodstock	60	12,877,185	2,863	3,019,814	6,516,122	12,250,714
TOGUOUS PRUS	3	28,541,009	1,035	2,000,939	2,142,590	10,139,984
Brockville	33 16	7,137,127	972	1,031,566	7,428,380	9,983,856
Wallacehurg	20	15,850,168 8,202,594	670 979	807,072 1,308,493	5,960,433 6,390,989	9,441,470
Kenora Wallaceburg Fort William	36	20, 232, 205	1,089	1,201,109	4,746,311	9,338,742 8,574,384
Waterloo	34	11,285,286	1,504	1,693,740	3,596,130	7,928,589
Waterloo. Fort Frances	14	14,325,393	968	1,239,231	3, 193, 361	7,780,200
Fort Arthur	20	17,959,029	1,360	1,867,022	2,325,283	7,285.839
4 1 127116711	33	6,787,066 1,352,262	1.633	1,870,778 749,588	3,232,398 2,497,173	6,725,901
Fergus Belleville	53	9,857,805	1,371	1,424,341	1.862.661	6,723,388 6,289,735
Belleville Kingston Own Sound	60	14, 451, 763	1,455	1,692,387	3,423,623	6.221.074
Owen Sound	53	7,064,013	1,822	1,733,078	2,747,326	5,812,280
	20	2,250,686	341	339,623	4,317,270	5,372,029
St. Thomas. Leaunington. Simcoe	46	4,088,079	1,145	1,127,900	3,030,095	5,305,064
Simove Simove	15 36	2,728,754 4,079,572	485 761	491,900 610,983	2,176,005 2,751,673	4,943,442
	13	4.180.390	452	427.289	2,751,673 3,256,994	4,719,969 4,677,867
	1.3	6, 954, 198	849	957,900	2,365,128	4,606,395
Paris	20	5,024,135	1,125	1,081,812	2,123,858	4,215,741
nespeler	15 22	5,375,714 4,973,963	1,058	1,110,144	2,053,432	4,109,518
Paris Hespeler St. Marys Bownnanville	19	4,973,963	499 675	594,756 647,472	2,106,084 1,860,218	4,097,910 4,069,339
		30, 144, 894	886	1,290,870	1,530,920	4,047,719
Midhad Pembroke Weston Newmarket	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
Nowwender	13	4,346,507	885	1,066,870	1,615,344	3,764,866 3,715,826
Renfrew	20	4,291,847	640 672	690,083 745,995	1,614,006	3,715,826 3,672,518
Elmira Ingersoll Chippawa Sandwich Cardinal Orillia	14	2,330,117	859	674,549	1,392,273	3,655,480
Ingersoll	26	3,700,792	694	801,750	1,807,034	3,543,410
Chippawa	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
Orillia	8 38	3,200,475	273	382,807	2,500,897	3,478,429
Acton	14	5,354,318 3,077,049	1,123 451	1,112,461 408,054	1,598.030 2,299,953	3,317,887 3,284,594
Bridgeburg	23	2,971,856	524	637,841	1,474,620	3, 254, 990
Bridgeburg Petrolia	15	1,981,520	184	240,798	1,861,145	3,071,001
Brampton	21	2.414,491	897	872,988	1,302,331	3,052,789
Perth	23	3,726,893	698	795,629	1,189,067	2,976,078
Dundas	21	4,363,888	749	967,279	1,372,436	2,909,282
Merritton Bracebridge	20	4,164,085 3,129,733	482 422	711,319 335,804	1,179,369	2,900,245 2,849.068
Oak ville	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

34.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1928—continued.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	8	No.	8	8	\$
Ontarlo—continued.		4 400 000	4.500	000 001	1 700 000	0 744 45
Aurora	7	1,183,262	417	399,081	1,702,026	2,544,13
Tilsonburg	23	1,962,101	499	455, 471	1.678,091	2.539.37
Georgetown	19	2,735,850	559	511,610	1,446,031	2,459,20
Sudbury	26	4,442,397	388	460,844	1.090,742	2,399,95
Port Hope.	30	3,600,872	665	879,701	765,611	2,384,06
Port Hope	7	6,707,419	377	471,089 433,420	1,604,102 1,131,534	2,334,04
Cohourg	25	2,650,434	418	433,420	1, 131, 534	2,330,64
Lindsay	35	2,748,682	45()	460,511	1,284,105	2,320,82
Cohourg. Lindsay. Amherstburg.	9	10,128,834	239	376,116	313,590	2,277,04
Smith's Falls	21	3,919,497	687	768,225	1.149,012	2,238,99
Aylmer	9	1,877,278	198	192,888	1,303,467	2.118.31
Barrie Carleton Place Dunnville Port Credit	19	1,673.350	325	372,181	1.398,987	2,082,55
Carleton Place	19	2,331,893	598	570,440	955,679	2,054,14
Dunnyille	20	2,308,480	634	641,709	1,037,174	2.037.22
Port Credit	4	2,277,781	193	229,722	1,328,063	2.022.99
Trenton	27	2,960,316	564	477,020	972.468	2,002,78
Ammeior	16	4,125,332	518	581,295	1,147,542	1,977,75
Napanee	20	1,382.703	319	321,377	1.066,669	1,917,14
Port Dalhousie	5	1,215,217	486	468,196	516,019	1,906,52
Napanee Por ( Dalhousie Chesterville Cobalt Timuins	8	942.583	157	468,196 207,661	1,254,932	1,873.71
Cobalt	8	15,917,457	212	368, 367	64,638	1,863,013
Timmins	16	12,657,601	141	178,008	79,344	1,776,25
Tilbury	9	795,042	337	424,150 351,226 407,127	832,988	1,773,35
Listowel	19	851,547	360	351,226	894.768	1,642,94
Dryden	7	5,095,469	322	407, 127	585, 357	1,620,62
Campbellford	28	2.008,915	355	326,652	955,427	1,612,26
Listowel. Dryden Campbellford. Caledonia Kincardine	10	965, 785	221	256,454	740,167	1,610,88
Kincardine	12	1,672,585	427	404,020	665.029	1,493,20
Almonte	17	1.554,096	491	400.669	814,401	1,491,93
Meaford	16	1,448,340	330	304.984	1,008,614	1,478,75
Almonte. Meaford Strathroy Tavistock Milten	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 North Bay	17	3,020,191	359	414.272	482,919	1,432,058
North Bay	23	1,510,091	303	347,459	739,021	1.413,200
Sturgeon Falls	9	210,647	327	449,419	789,177	1,389,863
Stargeon Falls Ayr Wingham Collingwood	7	887,612	104	449,419 106,789	655, 153	1.358.773
Wingham	17	946,765	266	272,148 355,884	769.143	1.309,80
Collingwood	23	4,667,642	325	355,884	650,934	1,280,33
	27	1,271,826	282	161,750 j	724.592	1.264.47
Chesley New Liskeard Elora Frankford	12	973.953	356	343,818	498,415	1.238,16
New Liskeard	17	1,501,780	280	338,390	611.743	1, 232, 87
Elora	9	946.739	308	324.012	611,743 384,233	1,172,60
Frankford	10	2,342,382	210	154.546	669,495	1, 159, 75
	5	725,936	149	168, 192	838,975	1,146,84
Cache Bay.	3	875,927	189	199,496	753.041	1,137,19
Walkerton. Grimsby Penetunguishene.	21	1,598.373	324	294,643	594,564	1.115.01
Grimsby	14	959,677	362	268,502	541.762 413.390	1.083.69
Penetunguishene	14	1,374,174	348	353,007	413.390	1,071,76
Prosecuti	16	1,059.766	271	221,824	474.055	1,035,31
New Hamburg	12 17	985,719	252	226,823	568,722	1.002.75
Clinton	17	722,489	209	183,579	522.044	989.19
Milverton	9	423,181	84	73.688	703.355	958, 27
Norwich	17	484.536	121	111,514	691,221	953,38
	17	564,994	171	142,119	539,970	939.61
Kingsville. Mount Forest. Bloomfield. Whithy Humberstone.	13	1.138.098	183	132,956	636,793	861.09
Mount Forest	17	666, 182	198	145,433	512,236	820,65
Bloomfield	10	944.437	170	74,751 245,759	471,313 433,349	809.37
Whithy	8	790.588	223	245, 759	433.349	808,35
Humberstone	7	605,562	163	162.391	453,675	762,98
Durham	9	500, 432	215	188,582	396,386	737.89
Southaintton	8	023.720	240	230,383	373,942	713,72
Durham Southampton. Waterford. Riverside. Mitchell	9 3	923,720 619,788	163	85,524	475,108	708,20
Riverside	3	873,998	57	89,115	213,959	704.46
Mitchell	15	739.436	133	123,445	403,650	660, 16
mest Lorne	7	607, 283	98	78,334	481,416	639.74
	12	672,635	155	114,509	399,335	629,32
Brighton	17	815, 119	233	69,720	308,695	615,07
Dathi	8	648, 227	74	61,541	400,379	606,28
Port Elgin	10	604,073	167	170,406	282,829	604,64
Dresden	14	556, 347	150	124,352	325, 117	599.08
Brighton Delhi Port Elgin Dresden Gravenhurst	8	1,058,350	190	185,434	293, 108	595,41
Lucknow	15	380,307	84	70,386	385,385	574,67
Burlington	6	708, 572	134	124,789	331,178	573,34

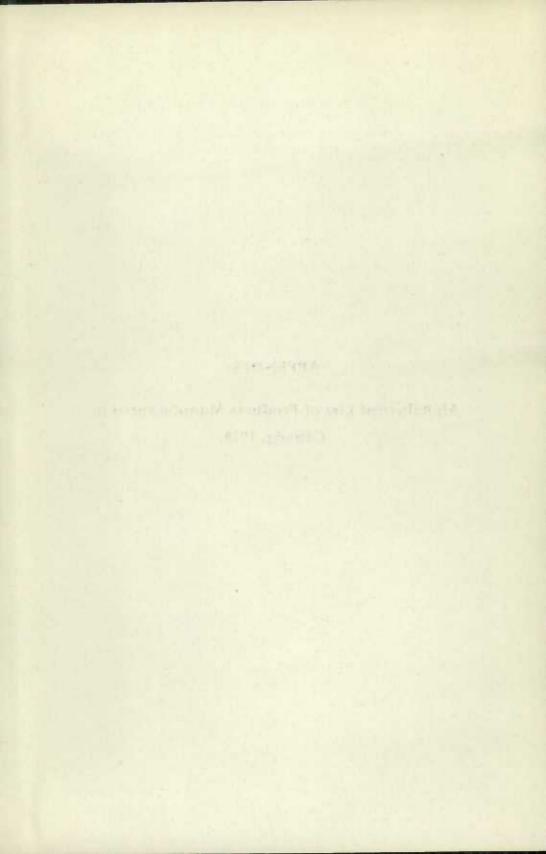
34.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1928—continued.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	\$	\$	8
Intario—continued.	13	618.218	118	66,760	359,021	570.98
Exeter,	6	165,958	23	28,869	419, 129	546,99
Jarvis. Wiarton.	14	476,497	23 122	87.344	274.273	545,65
Seaforth Lakefield	14	332,927	101	83,240	285,891	542,25
Lakefield	13	864,953	216	246,630	194,171	541,59
Tweed	14 7	328,185 490,727	130	120,729	306,244 321,301	541,04 529,16
Harristan	11	527, 670	139	133,261 97,803	323,618	528,06
Harriston Coppercliff Wellington Minico	3	5,541,873	27	41.521	12,821	502,82
Wellington	8	658,800	130	55,250	258,921	502,41
Mimico	8	. 1,066,916	111	140, 475	18,440	498,64
Hindeo Essex Teeswater Forest Hagersville Stirling Streatsville	9	519,425	106	82,792 52,396	228,894 302,908	493,89 492,62
Enrost	11	331,719	110	79,931	276, 260	482.28
Haversville	8	517, 197 98, 698	16	14.561	390,867	480.32
Stirling	13	101,411	52	35.984	372,859	457,90
1201 CC UPS THE	8	179, 133	79	92,282	248,332	452,38
Sioux Lookout	7	426,304	67	59,526	1:15,007	446,93
Dutton	11	145,793 416,411	45 102	33,587 68,718	342,564 221,100	438,28 437,78
Dutton Deseronto South River Waterdown	10	450,118	198	109, 462	218,212	427.5
Waterdown	7 7	537.085	92	156,316	79.384	423,3
Casselman	10	281,833	91	55,743	315,979	400.1
PSUMPESIAN	7	150, 172	24	24,487	313,117	397,2 363,2
Ridgetown	17	482,982	84	53,025	209,455	
Port Dover	10	406,877 1,013,949	69 78	46.574 96.400	213,252 157,929	333,3 332,3
Ridgetown Port Dover Haileybury Winchester	12	111,689	41	27,500	253,310	320.3
		115,858	23	20,725	251,231	319,8
Bancroft	10	165,688	113	37,977	200,677	319,4
Bancroft Kemptville Hradford Paisley Alliston	10	292,945	77	58,455	152,177	318,8
Bradford	16	232,542 114,939	73 24	66,610 21,714	194,324 236,162	311,2 310,2
Alliston	11	196,035	34	29,331	202,468	296,3
Alliston Vankleek Hill Port Perry. Drayton	14	174.120	67	21,892	219,629	287.90
Port Perry	12	174,120 188,713	37	28,788	201,686	279.4
Drayton	8	05,388	15	12.876	219.117	273.5
Finch	U U	70.337	21 76	19,296 50,050	234,600	273.0 265.8
Eganville	8	334,822 402,473	62	56,701	168,489 169,597	264,9
Metrickville Merrickville Iroquois Parry Sound Norwood Grand Valloy	11	352,977	104	79,621	145.794	284,2
1roquois	11	352,977 481,490	5 t	53,383	137,393	263,8
Parry Sound	15	510,638	99	48,712	106,259	248,0
Norwood	13	210.381	48	26,372	183,053 202,000	247,7 244,1
Arthur	5	52,624 57,861	11	14,215 9,860	187.089	238.1
Brussels	6	51,795	14	10, 178	194.891	237.6
Parkhill	9	164,527	37	23.196	154,912	226,1
Bolton	7	92,617	19	14.715	171,918	222,6
NOTWOOD Grand Valley Arthur Brussels Parkhill Bolton Stouff ville Morrisburg Cobden	12	109,334	21	18,515 57,502	159,159	221,4 220,6
Cobdon	8	238,514 84,213	77 23	16,431	100,304 150,361	219.4
Cobden Tara Stayner Thessalon	6	63,333	14	10,976	168,976	215,4
Stayner	8	85,550	25	16,141	167,595	213,6
Thessalon	9	342,991	98	78,026	145,689	210,8
Sutton Uxbridge Beamswille Hensall Neustadt	4	91.932	19	18.084	150,039	208,2
Danwarilla	11	142,636 115,852	26 58	20, 675 46, 823	135,080 112,869	206,9 206,7
Hensall	10	113.646	43	24,919	131,356	202.0
Neustadt	5	54,549	13	7,292	160,547	201,2
Winnipeg	491	115,678,092	18,340	23,994,480	35,275,785	105,456,0
et. Doringe,	. 30	8,107,117	1,557	1,936,112	19,516,408	26,965.0
Transconn	3	7,025,759	2,168	3,168,181	2.281.729	5,737,2
Brandon	87	4,109,956	455	608,814	2,377,276	3,799,0
Portage La Prairie	14	753,084	222	248,305	1,931,807	2,685,9
The Pen	7 7	2,025,820 1,425,208	422 332	563,429 388,527	566,898 552,802	1,910,4 1,456,7
Brandon. Portage La Prairie. Selkirk. The Pas. Dauphin.	13	442,473	70	71,699	254,937	457.6
A CHARLES WILLIAM AND A COLUMN		203,206	29	35,684	205, 275	289,3
Shoal Lake	4	84,495	18	17,455	191,582	245,3
Rapid Cily	3	28,090	7	12,083	193,383	232,4

# 34.—Statistics of Manufactures of Municipalities with a Gross Production of \$200,000 or over, and with Three or more Establishments, 1928—concluded.

City or Town.	Estab- lish- ments.	Capital.	Em- ployees.	Salaries and Wages.	Cost of Materials.	Gross Value of Products.
	No.	\$	No.	8	\$	\$
Saskatchewan-						
Regina	70	14,633,807	1,810	2,711.296	10,338,339	19,483,586
Moose Jaw	28 56	6,885,158 9,199,323	879 1,303	1,268,872	10.580,977 7.026.455	14,473,385
Prince Albert	19	2,214,089	399	482,367	2,127,410	3,465,595
North Battleford	11	590,740	93	129,594	285,475	668, 137
Estevan	8	848, 109	118	119,280	322,829	664,388
Swift Current	13	745, 183	69	107,419 54,878	206,068 281,840	567,463 460,993
Yorkton	9 11	367,617 507,874	54	67.874	174,352	420,940
Melville	3	112,350	14	19,099	246,455	288,978
A 20						
Alberta— 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
Redeliffe	6 3	1,791,349 2,093,165	269 81	308, 164 122, 626	253,751 371,510	984,339 604,788
Wetaskiwin	9	331, 119	37	46,750	290,076	430,358
Camrose	9	312,711	39	59,261	190,102	357.013
Red Deer	9 5	229,860 1,536,749	32 95	43,380 223,109	193,411 20,691	344,063 295,519
Ponoka	7	(17, 981	14	16.535	168, 623	237,942
Vegreville	7	119,660	20	29,527	163,534	227,448
Stettler	6	103,567	117	22,096	154,110	207,807
British Columbia-						
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
North Vancouver	140	18,836,174 5,996,636	3,060	3,822,926	4,891,852	13,585,950 4,261,290
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	2.146,779
Port Alberni	8 5	1,221,513	364 332	453,556 438,244	1,048,511 948,321	1,989,326
Nelson	25	1,880,621	360	487, 398	492,903	1,707.264
Nanaimo	27	1,324,808	540	435,957	820.821	1,605.514
Kelowna	17	898,715	307	270,048	683,401	1,289,338
Fernie Port Coquitlam	6	6, 404, 359 565, 303	183	254,959 209,014	457,246 560,727	1.242,096
Vernon	15	782,686	117	121,472	305, 405	659,150
Kamloops	15	934,083	163	165, 164	205,042	571,057
Merritt	6	320,613	113	165,206	233,919	494, 296
Craubrook	8 6	278,804 167,111	109	52.033 155,710	73,228 92,286	263,800 256,001
Prince George	8	202,362	56	56,783	134.824	238,432

# APPENDIX.



#### APPENDIX.

# Alphabetical List of the Products Reported as having been Manufactured in Canada during 1928.

The appended list of the products of Canadian manufacturing industries presents the value and in most cases the quantity of these products in a new and much more detailed form. Heretofore, in presenting statistics of manufacturing production, the whole production of an establishment has been taken as a unit. This has not only prevented the presentation of production figures for specific products in detail, but has involved numerous inaccuracies in the production statistics of classes of commodities, owing to the fact that commodities which may be the major line of production in one establishment may also be products of secondary importance in another establishment where the major line of production puts the establishment into a different class. The statistics which follow, however, have been compiled by taking from the individual returns of each of the 23,000 manufacturing establishments covered, the value and, when given, the quantity of each commodity specified as produced by that establishment. In this way, detailed production figures are obtained for specific commodities and furthermore the total production of each commodity is brought together, no matter how varied may be the operations in different establishments producing it. Nevertheless it should be pointed out to those making use of these figures that there is one element of incompleteness about them. In the returns of many manufacturers products of minor importance are grouped under the name "all other products." As will be seen from the group at the end of the list, the value of products not specified, while they may appear unimportant to the individual manufacturer, are, in the aggregate, a large amount, especially in the industries of the iron and steel group. It is obvious that one manufacturer may consider a product of insufficient importance to report separately for his establishment, while that same product may be reported separately by other establishments. In other words, included in the value of other products not specified at the end of the list, there are doubtless values which, had the products been specified by the manufacturer, would have been included in the values of commodities appearing in the list. However, the products not specified total only about 1.4 per cent in value of the whole manufacturing production, although in the iron and steel group this proportion is 5.4 per cent. With the exception of this group, therefore, the incompleteness of the figures on this account is insignificant.

An analysis of the value of the products of Canadian manufacture, similar to this, was made for the first time from the 1927 returns. In the course of further administrative experience it is hoped that it will be possible to reduce considerably the proportion of the products not specified.

The sum of the values of the commodities as listed here is \$3,769,850,364, which is the gross value of manufacturing production for the year. There is thus no duplication in the listing of products, nor do any of the items include products listed in more detail under another name. It is possible, however, that essentially the same commodity produced in different establishments may have been called by different names; in such a case, which is probably a very rare one, the items would appear separately in the following list.

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value,
			\$	0
Abrasive cloth and abrasive paper		_	9 _	\$ 202,382
Abrasive wheels, sharpening stones, etc.		_	_	905,519
Abrasive cloth and abrasive paper Abrasive wheels, sharpening stones, etc. Absorbent cotton Acetaldehyde Acetylene, compressed or dissolved	lb.	271,700 31,242,715	164,270	171.704
Acetaldehyde	44	31,242,715	4,998,834	4,998,834
Acetylene, compressed or dissolved	cu. ft.	360, 243, 954	2,566,974	2,566,974 3,785,245
Acid, acetic	10.	40,243,517	3,785,245	167.801
Acid, lactic Acid, nitric Acid, pho phoric Acid, snlphuric Acid, snlphuric Acids, recovered, nitric and sulphuric	lb.	28,303	14,152	14.152
Acid, nitrie	44	6,178,260 76,350	365,311	365.311
Acid, pho phoric	46	76,350	6,368	6.368
Acid, supported nitrio and adabasis	44	197,638,189 26,754,596	1,077,836 513,243	1,077,836 513,243
Advertising		20, 109, 090	310, 240	43,074.791
Advertising Advertising novelties, n.e.s. Aerated waters. (See "Waters".) Aeroplanes and hydroplanes. Aeroplane ski sets	doz.	21,066	42, 145	67,740
Aerated waters. (See "Waters".)				
Aeroplanes and hydroplanes	No.	108	1,124,953	1,124,953 7,761
Aproplane skr sets	11	31	7,761	7,761
Agricultural implements, n.e.s.			_	496,398 2,685,008
Albums	No.	43,661	54, ti71	54,671
Alcohol, denatured	pr. gal.	957,070	540, 613	540,613
Alrohol, denatured Alcohol, denatured Alcohol, non-potable Alloys and gold-filled wire Almond paste Almonds, ground Alminas, fused		957,070 2.622,315	1,320,844	1,320,844
Alloys and gold-filled wire				57,408
Almond paste	lb.	78,912 4,584	36,415 3,445	39,953 3,445
Alumina food	66	78,826,000	3,786.113	3,786,113
Aluminiam products, a.s		- 1	-	1,774,936
Alminas, groind Alminis, fused Aluminis, fused Alminosia, products, n.s Ammonia, inquor Ammonia, liquor Ammonia powder Ammonium phosphate Ammonium sulphate Ammonium sulphate Ammonium sulphate Ammonium sulphate Anathoris, rail Annuncutors, signalling apparatus, etc., n.s. Apple butter	-		-	155,279
Ammonia, liquor	lb.	1,644,516	25,867	25,867
Ammonia powder	lb.	12,693	1,168	410, 166
Ammonium sulphute	10.	56, 179, 417	1,108,744	1,168
Ammunition		00,119,411	*1*00*144	2,643,282
Anchors, rail	No.	1,470,740	306,648	456, 627
Annunciators, signalling apparatus, etc., n.s		-		57,269
Apple bulter	lb.	74.965	8,955	8,955
Apple council (See Esuite council)		1,399,614	36,583	36,583
Apples, evaporated	44	2,526,399	309,039	309,039
Aprons, fabric		-	-	212, 459
Aprons, leather	No.	2,257	4,541	4,541
Aprons, rubber, n.s.		1 005	11 770	164,065
Annueintors, signalling apparatus, etc., n.s. Apple chop and waste Apples, canned. (See "Fruits, canned".) Apples, canned. (See "Fruits, canned".) Apples, canned. Aprons, leather Aprons, rubber, n.s. Aprons, rubber, sanitary Arm bands. Artificial feathers and flowers. (See "Feathers" and "Flowers".	doz.	1,985 32,058	11,773 40,224	11,773 40,224
Artificial feathers and flowers. (See 'Feathers'		02,000	411,224	70,221
and "Flowers".) Artificial silk. (See "Silk".)				
Artificial silk. (See "Silk".)				210.025
Art work (lithographing and engraving)	1	00 200 300	2,016,933	246,325
Asphalt and wax compounds Astrukhan. (See "Woollen cloth".)	Imp. gal.	22,329,392 279,061	13, 953	2,016,933 - 13,953
Astrakhan. (Ser "Woollen cloth".)	10,	210,001	10, 500	10,010
Astomobile anti-freeze.	-	-	-	70.042
Augers and bits	1 -		-	43,257
Automobile badias		_	-	255,845 6,412,023
Automobile bumpers	No.	194,756	734.811	1,080,192
Automobile cabs	-	-	-	38,122
Automobile bodies Automobile bunpers Automobile cabs Automobile chassis Automobile differentials, transmissions and gears Automobile parts and accessories, n.e.s.	No.	48,450	19, 108, 450	19, 108, 450
Automobile differentials, transmissions and gears.		-	-	2,584,992
Automobile parts and accessories, it.e.s	-	_	_	4,997,083 63,380
Automobile tons			- 1	410.544
Automobile panels Automobile tops Automobile trailers	No.	110	103,981	104,972
Automobiles				
Commercial, 1 ton capacity	66	10.844	6,078.651	6,078,651
Commercial, under I lon capacity	66	4.310 2.592	1.963.468 3,214.193	1,963,468 3,214,193
Passenger alread -2 to 3 passenger	66	15 315	10, 173, 486	10, 173, 486
Passenger, open-2 to 3 passenger.	14	15.315 7.797	4.136,756	4, 136, 756
Passenger, closed -4 to 5 passenger	66	119,042	87,860,702	87,869,702
Passenger, open -4 to 5 passenger.	-4	32, 252	13,955,277	13,955,277
Commercial, ander I for capacity Commercial, ander I for capacity Commercial, I ton to under 5 ton capacity Passenger, closed—2 to 3 passenger Passenger, open—2 to 3 passenger Passenger, closed—4 to 5 passenger Passenger, copen—4 to 5 passenger Passenger, copen—7 to 5 passenger Passenger, copen—7 passenger	+4	1,089	2,133,421	2,133,421
		635	682.712 165.104	682,712 165,104
Special, n.s.		20	100,104	100,104

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	5
Awnings and verandah curtains		-		580.394
Axes Axles, automobile Axles, car and locomotive Babbit metal Badges, buttons, rosettes, medals, etc.	No.	642,436	607,498	607.498
Axles, car and locomotive	l. ton	8,069	727,094	1,411,395 727,094
Babbitt metal	lb.	5,514,175	1,693,940	1,093,940
Badges, buttons, rosettes, medals, etc		-	- 1000100	196,511
Budges, buttons, rosettes, medals, etc. Bugs, fabric, n.s. Bugs, bicycle tool. Bugs, burlap. Bugs, cotton, n.s. Bass, cotton, tea. Bugs, garment and other cretonne goods. Bugs, jute. Bugs, millinery. Bags, repaired. Bugs, school.				209,638
Bags, Dicycle tool	No.	20,520	5,854	5,854
Bays, cotton, n.s.	44	964.370 53,437,317	73,863 5,003,379	73,863 5,003,379
Bags, cotton, tea	8 d	17, 418, 000	83,333	81,433
Bags, garment and other cretonne goods				80,000
Bags, jute	No.	50,901,569	8,834,801	8,834,801
Ruge vanuisad	No.	828, 907	110 157	57.082
Bags, school	2910.	54,639	118,153 32,268	118, 153
Bags, self-opening (paper)			06.400	32,268 1,492,383
Bags, shopping Bags, sleeping	doz.	10.839	47,469	47.744
Bags, sleeping	No.	2,600	46,811	46,811
Bugs, special, paper Bugs (hand), satchels and hat boxes Bugs, travelling—club bugs and suitcases.	No.	545.015	1.385.005	1.765.712
Bags, travelling—club bags and suitenses	40,	450,271	1,385,005	1,385,005 1,686,248
Bags, travelling—club bags and surtcases. Bakelite products. Balloons Balls, golf Balls, other Bands, rubber Bardey, pot and pearl Bara and stable equipment, n.e.s.		100,011	1,000,410	211.454
Bale ties, steel.	lb.	6.882.854	260,860	269,860
Bulloons		~	44	25,000
Balls, goll	No.	108,000	26.870	273,048
Bands rubbor				18, 291 97, 415
Barley, pot and pearl	lb.	3,713,692	134,567	134,567
Bara and stable equipment, n.e.s.		-	101,001	136,246
Barrels, apple, etc Barrels, fish Barrels, floor, sugar, etc Barrels, oil, vinegar, etc	No.	754, 156	371.649	379,582
Barrels, fish	61	10,911	11,485	11,485 358,546
Barrels oil vinerar etc	44	439, 478 247, 442	358,546 590,044	358,546 593,044
Barrels, steel	16	274.015	1,898,060	1,750,717
Barrels, steal Barrels, whisky, beer, etc. Bars, alloy steel Bar, iron and steel, rolled	11	200, 166	1.316.070	1.316.070
Bars, niloy steel	1. ton	4,437	327, 807 11, 442, 879	327,807
Bar, iron and steel, rolled	14	215.921	11,442,879	11,442.879
Bars, iron and steel, reinforced, twisted, etc Baskets and crates, fruit and vegetable		46,005	2,220,644	2,220,644 972,936
Baskets, a.s.		_		174, 179
Bathing caps		-	-	2,900
Bathing suits	dos.	25,179	473,693	480, 219
Bathroom supplies. (See "Santtary ware".)				01.747
Butteries, storage, dry, radio, etc		_		21.767 8.189.573
Baskets and crates, fruit and vegetable. Baskets, n.s. Bathing caps Bathing suits Bathroom supplies. (See "Sanitary ware".) Bats, baseball. Batteries, storage, dry, rudio, etc. Battery eliminators Battery mixtures. Batting and wadding Batts, automobile Batts, flocks and rolls	No.	3,219	77,541	77.541
Battery mixtures.		-	-	84, 493
Batting and windding	lb.	2,456,627	475.005	475,008
Batts, flocks and rolls	64	1,345,140	136,933 82,310	313.657 82.310
Boans, baked. (Sce "Vegetables, canned".) Bearings, roller, ball and automobile		1,010,000	02,010	02,010
Bearings, roller, ball and automobile	No.	131,598	53,721	70,275
Beds and conches—	2.0			
Beds, brass and brass trimmed	No.	65,318	378.942	378.942
Beds, brass and brass frimmed Beds, non Beds, notal Beds, n.s. Courbes, metal Cots and bunks, metal Cribs, metal Bedspreads Bedspreads Bedspreads, pillow-cases, art needlework, etc.	16	118,420 156,077	750,853 1,221,930	765,598 1,221,950
Beds, n.s.		100,011	1, 22, 1, 10, 10	1,999
Courbes, metal	No.	77,409	396,337	396,337
Cots and bunks, metal	96	8,003	39.824	39,824
Rod-monda	96 64	20,802	133.243	138, 243
Bedspreads, pillow-cases, art needlework etc	_	136,370	451,031	451,031 76,987
				422.004
Beckeepers supplies		-	-	179.271
Beer, ale, stout and porter, full strength, in barrels	gal.	17,686.655	12,635,117	12,635,117
Beer, ale, stout and porter, full strength, in bottles Beer, ale, stout and porter, under full strength, in	11	43,424,464	46,341,782	46,341,782
barrels.	44	213.417	154, 194	154, 194
Hope ale stout and porter under full strongth in		910:471	102,103	103,104
bottles	16	441,859	461,053	461,053
Beer, ginger, root beer, etc	-	0.000	ang ta	29,545
bottles Beer, ginger, root beer, etc. Beet pulp, dry Beet pulp, wet Bells and gongs, n.e.s.	ton	9,860 9,410	280, 461 5, 085	280,461 5,085
Bells and gongs, n.e.s.		91210	0,000	40,701
				*******

Item,	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	8
Selting, duck Selting, rubber Selting, transmission	ft.	55,000	20,000	27.154
Belting, rubber	lb.	6,066,377	3,033,531	3,033,531
Belting, transmission	2.2	659, 487	1,477,217	1,481,859
Belts, all kinds, n.s	No.	432, 216	279.934	303,416 63,843
Belts, ladies'	1	20 174	012 074	213,276
selts, men's selts, fan selts, fan selts, sanitary tibs, infants sicycles	doz.	38,474 856,349	213,276 215,314	215,314
selts, fan	No. doz.	5,833	19.742	19.742
ieus, sanitary	GOZ.	10,249	11,512	12,466
MOS, IRIARIS	No.	27,999	899,480	899,480
Dicycles	140.	21,390	055, 100	747, 158
Sicycle parts Silliard room supplies Sinders, corn Sinders, grain, Sinders twine	_	-	_	747, 158 543, 733
lindore corn	No.	165	23,916	23,916
linders grain	44	30.314	4,657,612	4,657,612
linder twine	lb.	73, 210, 559	7,620,059	7,620,059
Sindings	gr. yds.	682, 171	723.780	757,695 38,392
Sins and hoppers	_		-	38,392
Biscuits, plain and fancy	ton	49,380	17,531,059	17,531,059
Black, acetylene, etc		-	-	114,418
Sins and hoppers iseuits, plain and fancy Slack, acetylene, etc Slackboards, asbestos	sq. ft.	103,500	31,050	31,050
Blades, razor	No.	34.171.297	1.911.934	1,911,934
Slacks, razor Slanket cloth. (See "Woollen cloth".) Slankets, cotton Slankets, cotton mixed Slankets, flannelette Slankets, flannelette				***
Blankets, cotion	pair	274.805	462, 147	490,603
Blankets, cotton mixed	_		1 000 100	342,048
Blankets, flaunclette	yd,	3,282,790	1,380,129	1,380,129
Blankets, all wool	lb.	912, 159	808,943	808,943
Slankets, all wool	pair	25.391 55.072	162,553 371,240	372, 134 371, 240
Blankels, n. s	No.	82,136	233,248	470,820
Shankets, horse	140.	04, 130	200,240	97,120
Plind, window (Sat "Shados and Blinds")				00,4-1
Horke butchere'	No.	302	8,443	8,440
tlocks building	210.	-	7	440, 430
Unomore	doz.	25,735	118.282	148,896
Slooms billets and slabs	i, ton	80.461	2.581,638	2.581.138
Bankets, all wool Blankets, all wool Blankets, n. s. Blankets, horse. Blankets, horse. Blankets, horse. Blankets, horse. Blankets, building. Blooks, building. Blooms, billets and slabs. Blooms, billets and slabs. Blooses and dresses. (See also "Dresses"). Blooses and shirtwaists. (See also "Shirts, boys".) Blowers and shirtwaists. (See also "Bhirts, boys".) Blowers and gresses.	_	-		181.97
Blouses and shirtwaists. (See also "Shirts, boys",)			-	398,049
Blowers	-	-	-	48.56
Blue, laundry		- 1	-	17, 109
Blueprinting Boards, paper, leather, etc. (See "Paper boards",		-	-	248,068
Boards, naber, leather, etc. (See Taper boards ,				
"Leuther typerds" etc.)		0.0	24 000	34,90
Bonts, life and whale Boats, motor Boats, row, sail, skiffs, etc	No.	92 454	34,906 765,458	765,458
Soals, motor	88	2,716	245.823	957 78
		2,110	240.020	257,78° 77,50°
Boats, steel				329,33
toiler and armine parts and agreemance			_	490,28
toilor hooting off kinds	No.	14,023	2,020,108	2,020,10
Pailore natter	46	639	1,017,032	1.059,54
Boilers range galvanized	AE	69.097	463,130	461.13
Boilers, n. s.	66	208	238,560	365.74
Boats, steel Boiler compounds Boiler and engine parts and accessories. Boilers, netting, all kinds. Boilers, power Boilers, range, galvanized. Boilers, n. Bolood pudding. Bolsters. Bolsters. Bolsters. Bolsters. Bolsters.		-		215.41
Bolsters	No.	1,207	78,579	78,57
Bolts, nuts and rivets	lb.	98,017,115	6,338.692	6,338,69
Bone flour and meal	_	-	-	H. 11 200, 98
Bone, raw, ground, etc	lb.	8,953,876	200,988	200,98
Bookbinding		0.00 504	01.000	2,888,30
Rone flour and meal.  Bone, raw, ground, etc.  Bookbinding.  Books, bunk.  Books, counter, check and receipt.  Books, exercise, drawing, scribblers, etc.	No.	203,534	21,923	21,93
Books, counter, check and receipt	31.	29,821,432	997, 791	793,63
Books, exercise, drawing, scribblers, etc	No.	29,821,482	994,491	997,79 2,105,46
Books, loose-feat and blank books			-	453,60
Books, loose-leaf and blank books. Books, text Bowling alley construction.			**	107,65
Bowling alley construction				201,00
Bowling alley supplies—	No.	1.815	17,020	17,02
Duck sine	140,	2,253	4,472	4,47
Fire ping	46	7.306	13.299	13.29
Bowling alley supplies— Alley bowls Duck pins Five pins Ten pins Bowls, water	44	8,006	30,801	30,80
Roule water	66	25,585	107,814	107,81
		6,086,985	154, 473	178,90
Boxes, metal	No.	313	17,900	17,90
Boxes, metal Boxes, paper, corrugated Boxes, paper, folding		_		5.213.18
Boxes, paper, folding	1			3,831,90

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	s
Boxes, paper, stiff	_	-	-	5,344,095
Boxes, paper, n.s. Boxes, service Boxes, wooden, berry. Boxes, wooden, butter.	_	-	-	1,503,313
Boxes, service				20,000
Boxes, wooden, berry	No.	16,209.872	108.704	108,944
Boxes, wooden, butter	16	1,169,421	321, 229	322,829
Boxes, wooden, butter. Boxes, wooden, cigar Boxes, wooden, cigar Boxes, wooden, rough (shells). Braces, wooden, n. s. Braids Brake beams and parts Brakes, brake shoes and parts.	14	1,670,318	268,086	268,086
Boxes, wooden, cigar	41	2,206,033	268,738	268,738
Boxes, Wooden, rough (shells)		49,704	258,823	258.823
Dates, wooden, n. s	A	_		4,766,842
Bruka baama and musta	No.	42,892	342.288	586, 138 342, 288
Brakes brake shows and marte	lb.	25,703,518	645, 178	645, 178
Rean	ton.	310,694	8,856,891	8,856.891
Bran Brass and bronze work, architectural Brass fittings, n. s. Brass fittings, water and steam Hrassieres. (See also "Corset covers, etc.".)	ton	310,084	0,000,001	488, 107
Brace fittings, n. s.		-	_	303,885
Brass fittings, water and steam		_	-	1.061.271
Hrussieres. (See also "Corset covers, etc.".)	gr.	6,861	106.381	106.381
Bread	1Б.	878.944.378	55,305,324	55.305.324
Breakfast foods. (See "Cereal products",)				
Breakfast foods. (See "Cereal products",) Breeches. (See "Pants, breeches, etc.".)				
Breechings, smoke	No.	163	32,628	32,628
Breechings, smoke	M	2,599	40,007	40,007
Bricks, clay	44	421,637	7,286,241	7,286,241 1,038,510
Bricks, sand-lime	41	82,271	1,038,510	1,038,510
Bridgebuilding		-		3,908,388
Bricks, clay Bricks, sand-lime Bridgebuilding Bronze powder Bronze work, ornamental		-	-	246, 178
Bronze work, ornamental		077 100	F 407 459	70,502
Brooms Brushes, made of corn or fibre. Brushes, made of hair or bristles.	dos.	275,153	1,421,457	1,421,457
Drushes, made of corn of fibre	11	282,103 51,381	384, 115	384, 115
Brushes, made of fight of bristies		21,381	360,184	360,184 432,269
Brushes, generator and motor. Brushes, paint. Brushes, shaving	dox.	294,396	1.040.451	1,040,451
Renchas chaving	UION.	10.357	63,065	63, 065
Brashes, toilet	84	24,811	174,599	174,5119
Remains tooth	64	45, 124	115,858	115,858
Brushes, tooth Brushes, n.s	- ((	55,345	152, 451	156,593
Brushes, n.s Building blocks, hollow coment,.	_	00,010	104, 101	1,158,508
Rudding material ne				1 241 655-
Building material, n.s. Buns	_	_	- 1	2,230,361
Buoys	b0	-	-	85,809
Burners, lamp	dos.	27,200 168,057,984	21,290	21,290
Butter, factory made	lb.	168,057,984	64,716,153	64,716,153
Butter, whey, factory made	44	1,582,364	542,339	542.339
Buoys Burners, lamp Butter, factory made Butter, whey, factory made Button covering, hemstitching, pleating, etc.				795,997
Button moulds	gr.	57,000	14,617	44,617
Butions, celluloid	44	23,030	63,380	86,964
Buttons, covered		-	2 000	28,403
Buttons, cuff	gr. pr.	507	2,206	2,206 12,743
Buttons, erinoid	-	200 244	0.40 0.01	12,748
Ductions, Ivory	gr.	528,541	348.651	348,651
Buttons motal	000 000	11,348	22,386 64,261	22,386 64,261
Hutton covering, hemstitching, pleating, etc. Button moulds Buttons, celluloid. Buttons, evered Buttons, cuff Buttons, crinoid Buttons, crinoid Buttons, ivory Buttons, lacatoid Buttons, metal Buttons, pearl Buttons, n s -futts and hinges Buttyl scetate	gr. gr.	17.368 475.603	229.092	229.092
Buttone ne	Rt.	970,000	220.082	37,177
Hutte and hingon				133,502 -
Butyl sentate	lb.	1,481,482	315,582	315,582
***************************************	10.	1,101,104	310,002	010,000
Cabinets, ice-cream		_		137.639
Cabinets, medicine	No.	1.842	10,135	10.135
Cabinets, silverware.	44	2,873	43,627	43,627
Cabinets, ice-cream Cabinets, medicine Cabinets, silverware Cages, wire	_	-		44,600
	lb.	10,540,702	319,563	319,563
Calcium chlorido Calcium carbido Calcium carbido Calcium cysnamid Calcium products, n.s.	66	153,644	12, 289 12, 277, 461	12,289 12,277,461
Caleium carbide	44	340,800,300	12,277,461	12,277,461
Calcium cyanumid	64	276,371,600	4,926,341	4,926,341 14,556
Calcium products, n.s		-	-	14,556
Calendars		-	-	2.063.740
Calks, horseshoe	lb.	1,417,708	123,578	123.578
Cameras.	No.	177, 415	324,049	324,049
Cundles		-	-	470.230
Cans, tin	training .		0.000	13,216,398
	doz.	1,397	8,982	8,982
Canes		1 7 4 7	DOC 000	D 2.4 000
Calendurs Calks, horseshoe Cameras Cundles Cans, tin Canes Canoes Canous	No.	4,541	338,839 224,756	341,239 224,756

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.	
			\$	\$	
Caps, bottle, toctal		- 1	-	1,656,99	
Caps, milk bottle, paper	. M	376,864	204,913	253.891	
Caps, bottle, idetal Caps, milk bottle, paper Caps, cloth. Caps, cotton, advertising	doz.	332,950	3,317,690	3.317,696	
Caps. cotton, advertising		22,502	19,696	19.69	
4 (9.Ds. 14F	NO.	25,605	77,609	77,609 118,209	
Caps, uniform Caps, n.s. Carbon dioxide Cardboard, bristol board, tickets, etc.	doz.	4,372	110,500	101.79	
Carbon dioxide	lb.	5,533,275	515,819	515.819	
Cardboard, bristol board, tickets, etc.	ton	6,882	902,499	902.499	
		-		947, 983	
Cards, playing Carpet, jute Carpet, in rolls, including stair. Carpet sweepers Carriage and wagon bodies and boxes.	No. packs	3,041,969	512,945	512,944	
Carpet, jute		700 749	4 007 050	40,000	
Carpet, in rolls, including stair	lin. yd.	701,547	1,687,053	1,687,080	
Carriers and warm hadian and house	No.	18,200	68,892	349.57	
Carriage and wagon materials.		-		848, 27	
Carriage and wagon materials Carriages and sleighs, baby. Carriages and wagons, complete Car repairs Carriers, litter Carriers, tire and luggage Cars, dump. Cars, electric and railway. Cars, hand, push Cars, mining, narrow gauge Carts, concrete and mortar. Carviages wood	No.	43,400	697,736	607.730	
Carriages and wagons, complete	66	9,098	601,724	631.72	
Car repairs.			-	37, 972, 64	
Carriers, litter	No.	2,572	179,590	179,59	
Carriers, tire and luggage		20,213	14,518	14,511	
Cars, dump.	No.	3.058	11,286,155	59.70 11,286,15	
Care hand nuch	NO.	509	48,269	48.26	
Cars mining narrow gauge	64	233	13.613	13,613	
Carts, concrete and mortar	6.6	425	8,519	8.51	
Carvings, wood	_	-		27.88	
Carvings, wood Cases, eyeglass Cases, fibre Cases, fist aid Cases, fist aid Cases, fist bit	lb.	779,961	113,138	113.13	
Cases, cyeglass	No.	155,000	25,699	25,60	
Cases, fibre	1	1.520	10,636	10.63	
Cases, first aid	No.	3.230 4.530	10.442	10,44	
Cause bather perchand other no	doz.	4.030	41,942	41,94 24,24	
Casas louther stationers and rousis				8.55	
Cases, motal			_	7.66	
Cases, toiletware and silverware, n.s	No.	31.348	51.711	51,71	
Cases, wooden, n.s	48	90	7,000	7.00	
Cashmere, cheviets, tweeds, etc. (See "Woollen					
cloth"				7 444 80	
Caskets	No.	69.322	2,009,704	2,009,70	
Caskets Casks, winc, etc. Castings, alloys, white metal Castings, aluminium Castings, brass Castings, brass and bronze.		32,892	40,875	40,87 125,27	
Castings aluminium	lb.	149,391	51,795	55, 15	
Castings, brass	41	459,704	125,932	125,93	
Castings, brass and bronze	. As	3,385,534	817,561	817.56	
Castings, copper	. 66	2,167,276	35,598	35,59	
Castings, copper Castings, die Castings, grey iron Castings, malleable iron Castings and machinery fittings Castings, iron, n.s. Castings, steel Castings, direct steel Castings, n.s. Castors. Castors. Castors.			m 004 mm	171.83	
Castings, grey iron	. lb.	16.086.089	7,086,306	7,086,30 3,378,08	
Castings, malicable from	- 66	44,530,892 26,320,560	3,378,981 6,307,854	6.307.85	
Castings and machinery nectages		20,320,300	0,001,001	2,972.57	
Castings steel	1b.	2,090,590	96.561	96,50	
Castings, direct steel	l. ton	37,842	96,561 6,962,748	6,962.74	
Castings, n.s.	1	-	-	269,44	
Castors		-	-	209.61	
Castors, truck	-		-	52,35	
Catalogues Ceiliags and sidings, metal	. –	~	-	496,23 203,52	
Collubrid modusts ms		_		704.53	
		11,023.928	16,739,163	16,739,16	
Courent, hoiler and radiator	-	= 1,000,000		10,00	
Centent, caulking		-	-	253,73	
Cement, furnace and silicates	. lb.	21,384,840	64,877	64.87	
Coment, boiler and radiator Cement, caulking Cement, furnace and silicates Cement, laundry tubs		-		58,95	
Cement, rubber	. —		-	308.39	
Cereal products, prepared			-	8,023,79	
Chains, automobile	1b.	10 010 007	1 121 027	1,001,76	
Chains journibury	ID.	12,010,687	1,131,037	1,176,71	
Cement, rubber. Cement, rubber. Cereal products, prepared. Chains, automobile. Chains, other than automobile. Chains, jewellery. Chairs, barber, beauty parlour and dental.			-	27.85	
Chaplets, foundry			_	25.80	
21) .	pr.	807	15,730	15,73	
Chapps					
Charcoai	bush.	2,580,426	610,708	694, 10	
Chaplets, foundry Chaplets, foundry Chapps Charcoal Checks and name plates, brass and aluminium Cheese, factory made, n.s.	bush.	2,580,426	30,494,463	30, 496, 7	

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value,
			\$	\$
Cherse, skim milk, and cottage	lb.	357,567 881,697	27,428 56,708	27,428 56,708
Chessecoth Chemical products, n.s. Chests, cedar Chowing gum Chicken, canned Chicken, canned	lb.	10,548,950	210,917	220, 105
Chests, cedar		-	-	352,925 3,599,796
Chewing gum				3,599,796
Chicken, canned	case lb.	4,856 440,248	53,901	53,901 33,913
Children's coats	doz.	5.233	180,038	227, 835
Children's dresses	26	5,233 27,763	448,042	773,980
Children's coats. Children's wasses. Children's wass suits and rompers. Children's wass suits and rompers. Children's wass suits and rompers. Children's wasts. Choppers, food. Churas, buckets, etc. Cider. Cider. Cigars Cigarst.	64	1.1101	32,995	32.995
Children's wash suits and rompers	66	73,112 14,513	667,263 56,890	677,932 56,890
Children's wear n s	46	2.550	49,000	50,900
Chisals		- 1		21,179
Chlorine, liquid	1b.	27, 175, 130	879,100	879,100
Chapping food	No.	9,819,611 36,106	2,303,697 33,322	2,303,697 33,322
Churns buckets ate	1401	3 520	63,398	66,602
Cister	gal.	3,520 315,055	103,331	114,086
Cigars	M	184, 284	9,321,919	9,321,949
Cigarettes.	1	4,225,500	41,706.317	41,706,317
Cistorns	doz.	412	2,340	2,340 2,857
Cleaner, hand		-	-	8.890
Cleaner, metal	lb.	181,731 68,330	20.724	20.724
Cleaners, vacuum	No.	68,330	2,428,230	2,428,2301
Clembers, vheuum, parts		_		283, 172
Cleaning nx		_	-	459,378
Clocks			-	2,851,532 597,658 157,026
Cloth, gummed	yd.	25,847,415	157,026	157,026
Cloth, hair		7	-	210,008
Clathes nins	gr.	1,411,567	140,516	149.516
Clothing, men's, n.s	-	-	-	149,516 1,187,238
Clothing, women's, n.s	_			234,713
Clothing oiled	doz.	16,450	544.132	619,815
Clathing rubber handwoos	No.	103,352 18,575	378,832 15,881	378,832 15,881
Clothing, rubber, n.s.	_	~		220,920
Clothing, work, denim	_	-	-	197.237
Clothing, work, other than denim	_		-	844,791
Court shalls and plates	No.	505	82,724	82,724
Conts-		000	00,121	02,108
Boys' overcoats and reefers	_	-	-	1,440,934
Man a nyare out a and ton costs		-	-	10,783,385
Winden a coats and cloaks	doz.	6,451	229, 481	18,934,182 244,481
Winners a coats and cloaks. Blazers. Dusters, and other cotton coats.	6.6	1,568	26, 945	26,945
Leather coats. Mackinaw coats, boys'. Mackinaw coats, n.s.	64	810	118, 191	118,916
Mackinaw coats, boys'	Jan	01 740	700 500	17,000
Mackinaw coats, n.s. Mackinaw leather and sheep-lined coats. Men's washable and office coats. Raincoats, women's. (See also "Oiled clothing"). Waterproof and raincoats, n.s. Windbreakers. Not specified.	doz.	21,748	766,537	813, 977
Men's washable and office coats	doz.	6,966	128, 494	525,973 128,494
Raincoats, women's, (See also "Oiled cloth-				
ing".),	No.	52,136	181,492	181,492
Windlygo kord		113,620	624,342	983, 875 66, 593
Not specified	_		No.	97,030
Children's	No.	859	33,167	33,167
Men's	36	5,135 78,037	373,511 13,547,199	373,511 13,547,199
Men's Women's Coats, fur-lined—		10,001	10,047,199	10,047,199
Children's	64	25	2,000	2,000
	16	599	65,736	65,736
Women's		2 410 046	66,181	66, 181
Coops buttar	lb.	3,412.046 1,493,886	1,027,006 506,806	1,027,006 506,806
Coco-nut, prepared and designated	46	3 276 576	556,744	556,744
Men's.  Cocoa.  Cocoa butter. Coco-nut, prepared and desiccated. Coffee, condensed. Coffee, roasted. Coffies. Coffies.	66	250,347	44,682	44.682
	44	27 472 100	DE PLANE AUGUS	P FAF LOA
Coffee, roasted	No.	17,471,108 15,987	7,565,188 162,356	7,565,188 162,356

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.	
Coke	ton	2,177,906	\$ 14,263,672	8 14, 263, 672	
Coke breeze Coke, petruleum Cold storage doors Collars, men's Collars and cuffs, men's	16	136, 221	272,039	272,039 561,430	
Coke, petroleum	64	95,908	561,430	561,430	
Cold storage doors	3	182,093	414,704	7,853 414,704	
Collars and ouffer mon's	doz.	269, 209	667,715	667, 715	
	No.	74,169	751,783	751,783	
Collodion	gal.	4,000	12,000	12,000	
Colouring, butter	1	4,128	13,416	28,495 13,416	
Collodion Colouring, butter. Colouring, cheese. Colouring, food. Colouring, sugar.	gal.	9,120	10, 210	7,535	
Colouring, sugar	44	10, 525	12,500	12,500	
Colourns, sugar Colours in oil and japan Comforters, cotton. Comforters, down. Comforters, n.s. Compound, welding, etc.	lb.	2,787,332	456,993	492,024	
Colours in oil and japan		21,068	212,009	504,170 212,009	
Comforters, cotton	dos. No.	31,638	307,648	307,648	
Comforters, n.s.	doz.	3,391	91,340	202,950	
Compound, welding, etc	4	-		18,602	
Compressors, air Conduit and moulding (interior)	No.	871	1,421,687	1,421,687	
Conduit and moulding (interior)			-	1,244,120 1,042,210 500,534	
Conduit pipe Cones, ice-cream, (See also "Wafers, ice-cream".) Confectionery, chocolate. Confectionery, sugar	M	181,260	499,565	500,534	
Confectionery, chocolate,	1b.	66, 869, 483	20, 139, 200	20, 139, 200	
Confectionery, sugar,	46	51,472,729	10,965,007 228,950	10,965,007 434,095	
Confectionery, n.s. Connections, rubber and force cups. Containers, n.s. Controllers, rheostats, and auto starters, n.e.s	44	886,360 17,524	5,609	5,609	
Containers, n.s.	_	111001	-	184,994	
Controllers, rheostats, and auto starters, n.e.s		-	-	1,045,643	
Conveyors		**	~	622, 32- 13, 59:	
Cooling units	_	_	-	12,14	
Cooperage products. (See "Barrels, Casks, etc.".)					
Cooperage, slack, n.s	_			12,96	
Cooling units. Cooperage products. (See "Barrels, Casks, etc.".) Cooperage, slack. n.s. Cooperage, tight, n.s. Copper carbonste and copper cyanide.	-	_	-	340,705 11,655	
Copper carsonate and copper cyanice.  Copper metal (other than smelter products)  Cords and tassels. (See "Fringes, cords, etc.".)  Core compound  Cores, paper  Cores, paper	lb.	2, 173, 471	340, 235	340, 23	
Cords and tassels. (See "Fringes, cords, etc.".)					
Core compound	ton	1,141	45,026	45,026 139,14	
Corps radiator	_			15 60:	
Corn, cracked	lb.	40,045,259	882,087	15,60: .882.08	
Cores, radjator. Corn, cracked. Corrupated paper and wrappers. Corselettes, corsettes and corsetalls		00 0/45	1 445 000	202,91	
Corselettes, corsettes and corsetalls	dos.	88,808 143,248	1,445,262 2,256,851	1,445,26 2,256,85	
Corset covers, brassieres, bandeaus, etc. (See also		110,210	8,800,000		
Corsets, consenses and consenses, etc. (See also "Brussieres".) Cotter pins.	ш	115,628	673,422	673, 425	
Cotter pins	lb.	62,495	43,076	43,07	
Olevated as white		71,934,497	10,578,969	10,583,00	
Unbleached or grev	yd.	112,570,402	14,889,452	14,889,45;	
Ducks, hose and belting	lb.	12,904,797	5.811.612	5,811,613	
Unbleached or grey Ducks, hose and belting Printed, dyed or coloured. Cotton goods, n.s Catton, rubberized.	yd.	88, 977, 023 196, 084	17,476,770 19,935	17,476,779	
Cotton rubbarized	44	46,522	24,008	24,06	
Counterbourd. Counters, butchers' and cold storage. Counters, leather. Covering, asbestoe, pipe and boiler. Covers and vents, battery.		-		104.58	
Counters, butchers' and cold storage,	_		#4F 0F0	25, 22 515, 27	
Counters, leather	pr. ft.	21,227,534 3,674,092	515,270 376,399	376,39	
Covering, aspessor, pipe and boner	16.	0,014,002	-	70.70	
Covers, bacon and harn,	-	-	-	3, 29 252, 13	
Covers, canvas, not specified	767-	04 000	20 502	252, 13 29, 50	
Covers, bacon and hum. Covers, cunvas, not specified. Covers, couch and table. Covers, radiator, sent, tire, etc.	No.	24,080	29,593	493,38	
Covers, leather, tool and spring	_	-	-	7.45	
Covers, tub. Covers, typewriter, piano and cash register	-	760	**	26,86	
Covers, typewriter, piano and cash register	lb.	6,826,007	167,105	8,50 167,10	
Cracklings Cream, sold in dairy factories	317,	14,543,108	9, 225, 837	9, 225, 83	
Cream, casein	to make the same of	_	- 1	74.49	
Cream, whey, sold in dairy factories	lb.	837,640	275,344	275,34 160,25	
Cream of tartar, refined	No.	561,092 14,921	160,250 995,237	160,25 995,23	
Cream, sold in diary inctories. Cream, caseia. Cream, whey, sold in dairy factories. Cream of tartur, refined. Cream sparators, hand and electric. Creste, pennants and emblems. Croquet sets. Cross arms	140.	17,821	000,201	25,09	
Croquet sets	No.	350	1,110	1,11	
Cross arms	-	_	-	60, 2	

Item,	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	8
Proton aldehyde Pracifixes Prumpets	Ib.	80,771	54,718	54,71
rucinxes	No.	2,000	4,000	4,00
rumpets		30,000	4,800	4,80
rushers, mining	No.	62,222	64,043 522,683	64,04 522,68 1,059,49
ultimators	64	15, 440	1,059,499	1 050 40
ulverty (about matel)		10, 110	8 2 0000 2 3210	1,443,2
HIN THIS CHICE INCURATE THE THEFT		-		131,73
urtuin goods	yd.	434,560	74,603	7.1 64
nrtaina	pr.	227,457	273,338	612, 6 122, 5 30, 1
urtain rods	_	- 1		122,5
ashion forms	doz.	5,236	30,109	30,1
ushions	4.6	70,012	614, 264	629.8
ushions and runners		-	d+	23,4
utlery, electro-silver plated		-	-	435,8
utlery, stainless, steel		-	de	72,4
dlery, other	_		4~	129.5
nstiers, mining.  iffs, fur.  iffs, fur.		-	0.00	704,2
nive and above factory equipment -				1 150 0
airy and cheese factory equipment, n.s	lb.	527, 157	78,802	1,150,9 103,3
ates, pitted and stuffedecorations, confetti, fayours, etc		461,107	10,000	10.3
ecotations, conlett, layours, etc. enims. (See "Cotton fabrics") ental cuspidors ental supplies. eoxidine. erricks esk sets and pads. extri-mattose insphragms and rings, rubber. ics, n s ics, taps, etc. igesters, paper-mill iggers, potato, isser, rubber issurfectants isplay forms and display mounting.				10.0
ental cuspidars	-	-		18,0
ental supplies		-		174,1
ecclorant	=		-	8,0
eaxidine	_	-	-	57,0
erricks	-	-	-	7.4
esk sets and pads	No.	13,898	72,831	74.0
extri-maltoso	_	-	-	149,2
iaphragms and rings, rubber	lb.	19,452	10,013	10,0
ies, n s	_	-		148,5
ies, taps, etc		44	-	704,5
igesters, paper-mill	_	PO	05 550	38,8
iggers, potato	No.	385	37,570 12,925	37,5
ises, rubber	lb.	16,653	12,925	12.0
Binfectants	_			158,1 110,8
isplay forms and display mounting				123,2
italian standa mond				61.9
isplay volus and display nonling isplay stands, metal isplay stands, wood istillers' grain og collars and leads	-		40	938,0
og collars and leads			-	12,7
olla mana	doz.	9,803	151,660	151,6
olls, mama and crying voices	43	16,800	110,000 92,895	122,9
olls, n.s.	86	9,980	92,895	93.0
loors, tinelad, kalomein and steel	_	-		269,7 53,3
owels	No.	11,868,058	51,675	53,3
raperies	yd.	58,587	64,790	414.7
resses, including house dresses	-	-		26, 852, 2
og rollars and leads  olls, nuama  olls, nama and crying voices  olls, n.s  ors, tinclad, kalomein and steel  owels  traperies  resses, including house dresses  ressing gowns, negligees, bathrobes, etc.  ressing, belt.  ressing, mind  reres. inclusive	11	14 000	2 010	740,8
ressing, beit	lb.	14,600	3,210	3,2
ressing, mund	gal.	114,604		300,6
riers, linoleate	16	26,972 147,262	46,209 123,652	46, 2 123, 6
riers, resinate		197,492	120,032	10,0
rilla engin	No.	18,342	2,662,558	2,862,5
rilly of all kinds (tools)	310.	10,042	w , D(12 , 000	495,9
riers, resinate riers, stocking rills, grain rills of all kinds (tools) rills, rock		-		795, 4
	-	***		751, 1
uek, wuterproof	yd.	86,140	45,654	45,0
yeing and bleaching	-	-	-	43.5
yeing and cleaning of garments		ma	-	3,532,6
uck, waterproof yeing and bleaching yeing and cheming of garments yeing and finishing of textile goods	-	-	-	3,012,8
yes, all kinds		-	_	320,4
				400
avestrough and pipe. gg substitute. derdown	_	44	_	431.7
gg substitute		-		102,2
iderdown	-	-	**	24.4
		-	-	27.0
lectricul apparatus, n.s	_		-	2,327.7
rectricul apparatus and supplies, pneumatic		-	***	2.046,0 1,566,2
lectricul apparatus, n.s. lectricul apparatus and supplies, pneumatic lectricul instruments lectric light and power		_		143,692,4
locteralny no shop	ton	33,012	1,663,701	1,663.7
lectrodes, carbon	DU-III	00,015	110001101	48,1

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	\$
Electrotyping Elevator parts Elevators, grain Elevators, passenger and freight Embalming fluid		-	~	1,020,626
Flavators grain			_ [	191,249 79,919
Elevators, passenger and freight		_		3,995,081
Embalming fluid		_	- 1	22,653
Embolining fluid Embosing Embroideries and laces Emulsian Enamelled ware, n.s. Enamels Engines, gas and oil Engines, gasolene. Engines, steam Engraving Enstluge cutters Envelopes		44	-	322,848
Embroideries and laces		**	~	82,335
Engualled were ns				18,328 287,591
- Enamels	gal. No.	768.389	1,974,933	1,974,933
Engines, gas and oil	No.	284	45,372	45,372
Engines, gasolene	44	4,441	864.654	889, 654
Engines, steam		44	104.674	104,874 2,190,418
Englage autiers	_	_		5, 210
Envelopes		60.		3, 107, 726
Erasers Etched metal products Ether, nitrous, spirits of Ethyl acctate Evaporators, maple syrup	A-1-1	-	-	47,846
Etched metal products	_	010	F 003	147,801
Ether, mtrous, spirits of	gal. lb.	813 1,672,107	5, 691 200, 653	5,691 200,653
Evaporatore munic symp	10.	1,012,101	200,033	99, 193
Eveners	No.	1,204	8,498	9.498
Excelsior and wood wool	ton	4,936	129,090	132.570 97.410
Eveners. Excelsior and wood wool Excelsior wraps, nuats and pads Explosives. Extracts and colours. Extracts Involving				97,410
Explosives.	lb.	45,955,615	0,986,347	6.986,347
Extracts and colours.  Extracts, flavouring	gal.	106,590	727,610	26,072 1,536,398
	Repe.	100,000	721,010	1,000,000
Fubric, varnished Facings and parting, foundry Fanning mills Frans, electric, desk type Fushion books and sheeta. Fasteners. Fenthers, artificial Feed, shorts or middlings Freed, electronic	yd.	103.357	27,936	27,906
Facings and parting, foundry	ton	4,362	126,359	128, 359
Fanning mills.	No.	2,258	488,973	488.973
Fans, electric, desk type		2,432	60,813	60,813
Englybors		-	-	111,658 235,179
Fenthers, artificial		-	-	3,950
Feed, shorts or middlings	ton	448,292	14,563.623	14,563,623
Feed, chopped	5.6	876,128	31,592,663	31,592,663
Felt gotton (See "Wooden cloth .)	1ь.	624,579	64,640	64, 640
Felt for mattresses	47	283, 480	33,477	33, 477
Felt, hair	yd.	64,000	49,000	87,535
Feed, shorts or middings Fred, chopped Felt cloth (See "Woollen cloth") Felt, cotton Felt for mattresses Felt, hair Felt, harness. Felt, jute. Felt, jute. Felt, padding. Felt, trimming and lining. Felt, trimming and lining.	lb.	182,890	72,861	72,861
Felt, jute	yd.	114,971 230,484	7,590 213,929	7,599 213,929
Felt pudding	34.	346, 781	91,597	165,926
Felt, trimming and lining	43	70,000	53,854	53,854
Felt, saturated	ton	1,493	108.901	108,901
Felt, saturated and sheathings	16	12,859	829,173	831,851
Felt, saturated Felt, saturated and sheathings Felt, turred and sheathings Felt, wool and cotton, for pulp and paper making.	lb.	8,971 2,625,440	735,311 3,398,942	735,311 3,398,942
Felt, woot and cotton, for pulp and paper making.	10.	2,020,490	3,398,942	28,849
Feit goods, n.s.			-	67,100
Feit, ns. ns. ns. Feit goods, ns. Feit goods, ns. Fence and railing, iron Fence rods and posts Fencing wire	_	-	-	243,433 -
Fence rods and posts	lb.	2,608,208	107, 967	107, 907
Fenring wire	**	55,275,680	2,622,377	2,622,377
Fencing, wooden			-	23,360 3,398,056
Ferra-silicon	Ib.	6,270,700	42.231	42.231
Fertilizers, complete	16	148, 875, 804	2, 945, 998	42,231 3,027,998
Fibre and fibre products		-		359,490
Filtre board		-	-	75,942-
Elite and rasps		_		419,806 296,271
Fillers and thats, egg-case	_		-	162, 928
Fillers, cork	lb.	32,018	4,115	4,115
Fillers, wood	16	10,000	5,000	5,000
Fillings, pie and cake	11	1,539,420	156,058	156,058
Filter transpar	_	-	-	4,391 81,905
Fifter sheaths and discs				6,274
Firebrick from imported clay	_	_	_	313,637
Fencing wire Fencing, wooden Ferro-silloys Fillors Fillors Fillors and fibre products Fillors and fints, egg-case Fillers and fints, egg-case Fillers, cork Fillers, wood Fillors, wood Fillors, pie and cake Filter presses Filter presses Filter rheaths and dises Fire-brick from imported elay Fire-brick from domestic clay Fire-lay blocks and shapes from domestic clay	No.	4,939,778	234,460	234,460
Firevlay from domestic clay	ton	5,123	35,284	35,284
<ul> <li>Fireciay Diocks and shapes from domestic clay</li></ul>	_	44.	-	105.091

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Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			S	8
Fire escapes and steps.	=	- 1	-	192,337
Fire-fighting equipment Fire-hose. (See "Hose, linen".)		- )	-	1,043,416
Fire hose, (See "Hose, linen".)				CEN NO
Fireplace furnishings Firesand. (Included under "Silicon-carbide".)			-	86,653
Fireworks				106,010
Fish, canned and otherwise prepared in factories			-	27, 992, 063
Fish, fresh, marketed for consumption, sold by				0 804 305
factories.		~	-	8,524,695 2,852
lishing nate				44.753
Fishing tackle	rdun.	-	- 1	18,394
Fittings, boat			-	10.000
Fittings for gas stoves			-	90,000
Fittings, trunks			-	47,275 2,013,190-
Flues and hunting		-		102,279
Fish, fresh, marketed for consumption, sold by factories. Fish waste Fishing tackle. Fishing tackle. Fittings, boat Fittings for gas stoves. Fittings, trunks Fixtures, lighting Flannels. Fixe "Woollen cloth".) Flannels. Flannelstes. (See "Cotton fabrics".)				474,612
Eliterra plactro-silver plated	_			1,518,199
Flax, dressed	lb.	25,000	6,000	6,000
Flatware, ricetro-silver plated Flat, dressed Flat products, n.s		-	- 1	2.600
Flax seed	bush.	25,389	50, 187	30, 187
Flux seed screenings			~	10,603 5,879,037
Flax seed Flax seed screenings Floor covering, saturated and other Flooring, lardwood. Flooring, steel	Mit. B.M.	71,274	4.586.038	4,586,038
Flooring, steel	-	14,647	2,000,100	13,615~
Floss, dental. Flour and meal, barley. Flour and meal, rye. Flour, buckwheat				6,845
Flour and meal, barley	lb.	500,700	11, 105	11.105 51.549 152.503
Floor and meal, rye	46	1,694,775 3,571,517	51.549	31,549
Flour corn	45	5,902,118	152,503 152,710	152.710
Flour, corn Flour, grahum and whole wheat		77,01-01,11017		36,591
Flour, low grade or feed	ton	37,870	1,660,769	1,660,769
Flour, malt	lb.	169.750	18,994	18,99I
Flour, prepared, self-raising, etc	bel.	5,731,239 626,408	418,577 3,964,352	428,387 3,964,352
Flour wheat (full or winter)	DET.	1,288,486	8,047,530	8.047,530
Flour, wheat (spring)	64	18.474,648	112.762.398	112,762,398
Flowers, artificial	dos.	129,751	208,077	249.836
Flowers, artificial and novelties		-	- !	128, 288
Flour, low grade or feed Flour, malt Flour, prepared, self-raising, etc. Flour, wheat, hlended Flour, wheat (fall or winter) Flour, wheat (spring) Flowers, artificial Flowers, artificial Flowers, artificial and novelties Flowers and feathers Fluids, machine Fly pnds.		25,565	7,941	112.974 7.941
Fly pads	gal.	40,000	4,3793	3,367
Fly swatters			-	4,164
Foil	lb.	107, 122	91,054	91,054
Food, fox	61	1,010,400	32,392	32.392
Food, poultry	96	1,476,540 2,696,000	37,080	37,080
Fly swatters. Foil Food, fix Food, poultry Food, poultry and stock Food and remedies, poultry and stock		2,090,000	93,425	93,425 3,295,764
Food infants		_	_	54, 480
Food, infants'. Food, dietetic. Footwear, felt uppers—	_		-	377,040
Footwear, felt uppers-		44 999	00 101	80.202
Babies'	pr.	44,757 48,595	30,585 60,371	30,585 60.371
Boys' Children's Men's Women's Footwear, leather or fabric uppers	- 60	139,327	155,354	155 334
Men's	3.5	451,419	663,790	155,354 663,790
Women's	44	561,178	504,938	504.938
Footwear, leather or fabric uppers-		1 000 440	1 000 000	7 010 000
	pr.	1.279,440 3,337.671	1.262,603 2.816,462	1,262,603 2,816,482
Children's	66	2,345,451	3,434,960	3, 434, 960
Men's	+4	5, 431, 994	17,547,088	3,434,960 17,547,088
Women's	46	7,613,049	21,566,468	21,586,468
Boys Children's Men's Women's Footwen: Shoepacks, larrigans and moccasins—		10 000	0.000	P nou
Boys	pr.	15,866	8,900 94,951	8,900 94,931
Children's	44	67,459 27,871	20,638	20.638
Men's	41	207,345	458,607	458,607
Wumen's	44	52.077	52, 243	52,243
Not specified	*4	30.096	47,800	93,843
Bubies Bubies Boys Children's Wumen's Not specified Footwerr, rubber— Boots, knee and hip	44	2,048,836	5,701,363	5.701.563
Lumbermen's boots	14	1.893,799 6.179,130	4,496,425 5,080,574	4,496,425 5,080,574

Item.	Unit of Measure.	Quantity Reported,	Value of Quantity Reported.	Total Value.
			S	\$
Footwear; rubber-concluded.				
Overshoes, not including Jersey storms	pr.	3,647,258 1,158,039	8.153,385 1,275,629	8,153,385 1,275,629
Tennis, balmorals	46	9,014,102	7,705,035	7,705,035
Not specified		9,014,102	7,100,000	100, 299
Not specified. Forges and blowers. Forgings. Forks, hand implements.	No.	1,043	109,652	109,652
Forgings	lb.	68, 155, 749	4,720,672	4,720,672
Forks, lined implements	No.	800,948 1,424,293	605,849 128,186	605,849 128,186
Forms register	10.	1,424,195	120,100	100,000
Forms, register Frames and cases, spectacle Frames, furniture Fringes, cords and tassels		-		176,770
Frames, furniture	-	- 1	-	231,141
Fringes, cords and tassels	lb.	207 001	36,045	183,436 36,045
Fruit juices and extracts (See "Syrate")	10,	327,881	30,040	30,040
Fruit butter Fruit juices and extracts. (See "Syrups".) Fruit peel, candied.	lb.	1,493,724	217, 156	217, 156
Fruits, ranned -	case	177.282	420,211	420,211
Cherries	11	73,559	335,944	335,944
Apples Cherries Peaches	14	128.386	404,614	404,614
Pears	- "	310,525	940,811	940, 811
Plums		141,999 47,529	343,567 234,249	343,567 234,249
Raspberries Struwberries Small fruits, all other Fruits, n.s. Fruits, taney, packed	44	40.587	232,877	232,877
Small fruits, all other	44	46,092	176, 597	176,597
Frui(s, n.s.	24.	53, 493	195,003	195,003
Fruits, fancy, packed	lb.	43,861	21,930 369,672	21,930
Fruits, glaces Fruits, crushed and preserved	gal.	1.063,874 137,585	404, 155	369,672 425,331
Fumigators, formaldehyde			-	3,503
Furnace parts, n.s.	_	-	(	60,388
Furnaces, electro-metallurgical	No.	34,379	2,580,292	243,128 2,580,292
Furnace parts, n.s. Furnaces, electro-metallurgical Furnaces, hot-sir Furnaces, industrial	410.	02,015	2,000,202	15,622
Furniture				
Bedroom	_	-	-	6,117,970
L'italian	_			5,529,832 1,683,817
Parlour	_	_	-	5,510,481
Dining room Kitchen Parlour Other, household	_	-	-	2,690,314
Camp	-	-	-	16, 450
Hospital, steel				142,189 728,572
Office steel. Office and store, n.s. School, lodge, church and theatre		-		5.091.164
School, lodge, church and theatre		-	-	1,255,965
Window rood rotion etc		- 1	-	1,304,772
Firs dressed and dved		_	_	2,013,044 2,758,724
Other, n.s. Furs, dressed and dyed. Furs, remodeled, repaired, etc. Fusees, railway Fuses and fuse wire.	-	-	-	2,879.400
Fusees, railway	No.	1,116,919	116,346	116,346
Fuses and fuse wire		-	-	438, 208
Gaiters, spats and leggings	doz. pr.	22,688	226,904	228,776
Galvanised ware	_	-	-	992,895
Galvanized ware Garages and garage equipment Gas, artificial, from gas and coke plants. Gas, still, from petroleum refineries. Gas, other, n.s. Gasolene. Gates	75 14	05 050 000	10 010 100	264,983-
Gas, artill from potrology, refineries	M cu. ft.	35,058,920 2,489,346	16,810,183 572,847	16,810,183 572,847
Gas, other, n.s.	_	2,100,010		1.962
Gasolene	Imp. gal.	344,129,861	52,228,842	52,228,842
Gates	_		~	162,654
Gears carriage and wagon	No.	11,067	460,045	7,640 518,753
Gear wheels and chain sprockets		**,001	-	43,493
Gauges Gears, carriage and wagon. Gear wheels and clinin sprockets. Generators, steam Congress, editors in august t	No.	3	34,792	34.792
Generators, alternating current	64	77 113	4,762,889 279,103	4,762,889
Generators, direct current. Ginghams. (See "Cotton fabrics".) Glass, bevelled and ground edge plates.		110	219,103	279, 103
Glass, bevelled and ground edge plates	_	-	_	1,159,806
Glass, bent	-	-	-	16.269
Glass, cut	-	-	-	342,648
Glass nirror silvared		_		239,313 664,783
-Glass, ornamental.	-		_	89,760 -
Glass, bent Glass, out Glass, leuded. Glass, mirror, silvered. Glass, plain sheet and window Glass, plain sheet and window	-	-	-	223,811
_Glass, plate	-	-	-1	249,190_

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			\$	\$
Glass, pressed and blown	-	-	0.0	9,323,968
Glass, show-case	_	90	-	218,146-
Glass, sign Glass, silvered, electric reflector Glass, store-front Glass, violet-ray Glass, window, memorial Glassa, window, memorial	1	~	-	4,580
Class, savered, electric renector				325,124~
Glass, violet-ray	_	_		5,906
-Glass, window, memorial	_	-0	-	126,365 ~
Glassware			10	70.527
Gloves, mittens and gauntlets, fabric, working	doz. pr.	305,120	484, 497	484, 497
Ciloves, Buttens and gauntiets, labric, h.s	64	101,918 66,924	364,361	374,174
Gloves, mittens and gauntlets, silk		874	716,593 4,832	710,593 5,029
Gloves, mittens and gauntlets, leather, dress-	pr.	0/4	4,002	0,000
Men's	doz. pr.	99,139	1,638,439	1,638,439
Women's and children's	81	24, 498	303,546	303,546
Men's Women's and children's Gloves, mittens and gauntlets, leather, working		41		
Boys	doz. pr.	61.701	269,803	269,803
Men's Gloves, mittens and gauntlets, leather, n.s	64	343,369	2,949,781	2,949,781
Choose and dayteers	lb.	5,078 43,202,804	56,198	79,094 1,627,652
Class	14	980, 262	1,627,652 71,833	71,833
Glucose and dextrose Gluc Gluc, mucilage and paste.	all man	- 000,200	- 1	1.244,302
Gitte stock	l ib.	22,945,387	190,709	196,709
Gluten Glycerine, grude Glycerine, refined Gold, including dental gold	64	38,807,725	750,504	750,504
Glycerine, crude	46	2,2141,000	195,343	195,343
Glycerine, refined	-10	5,223,765	830,105	830,105 853,530
Gold, including dental gold		_	~	853,530
Coll how and aloba	_			7,087 3,224
Gold, including dental gold Gold, leuf Golf bugs and clubs Golf stick heads Golf stick shafts Grain blowers Grain blowers	No	50,281	63,297	63,297
Golf stick shafts	No.	44.506	105,900	105,906
Grain blowers	_	~	-	16,685
Grain cutters and rollers	No.	137	13,834	13,834
Grain cutters and rollers	-	-	200 400	12,399
Grain grinders Grain tanks	No.	3,233	200,288	201,088
Grain tanks		1.154	51,561	51,561 (30,555
Granite, cut and polished			10	2,033,541
Graphite, artificial. Graphite, artificial. Grate burs. Greuse, n.s. Greuse lubrication.	gal.	70,147	125, 265	125,265
Graphite, artificial	_	- 1	-	16,228
Grate bars	lb.	1,345,239	6F.384	61,384
Greuse, n.s.	66	6,594,184	471,525	598,274
Greese fubrication Grill and plates, electric Grinders, metal-working Grips, becycle Guards, furniture Guards, wire Guards, highway Gymnasium supplies, n.s. Gypsum products, n.s.		15,100,960	348,915	348.915
Crill and olates electric	No	47,254	284, 492	284, 492
Grinders, metal-working	No.	30	44,197	44,197
Grips, bicycle	pr.	32,400	6,642	6,642
Gunrds, furniture	_		-	2,106
Guards, wire		-	-	205,515
- Guards, highway	=			30.021 ~
Gymnastum supplies, n.s	_			34,952
Gypsum products, n.s		_	-	1.056
Hair, animal, raw	-	_	-	230,052
Hair, brush		-	_	17,049
Hair, surled		-	~	141,584
Hair, surled Hair goods, made from human hair		-	-	37.031
Halters Hammes Hammers Hammock-couch stands	No.	95,854	118,471	126,143 22,701
Hames.	14	FF0 000	60 500	22,701
Hummers	No.	550,000	64,529	84,529 21,335
Hararacks	-			19,356
Handkerchiefs	dos.	236.868	156.001	266, 263
Hamnocks Hamderchiefs Handles, axe and long tool Handles, small tool Handles, brown and non	No.	2,015,745	425.696	425,696
Handles, small tool	46	4,296,704	179,421	179,421
		4,658,363	124,683	186,611
Handles, dowels, etc Hangers, garment Hardware, budders, a.s Hardware, carriage and saddlery		-	-	42,000
Hangers, garment	_	-	-	2 711 492
Hardware garriage and and days		-		2,71-C,908 ° 216,565
				85,523
Hardware, other	_	_		1,738,873
Hardware, other Darness, double Harness, single Harness collars	No.	29,510	1,398,494	1,398,494
Harness, single	14	10,470	228,973	228,973
	14	179,893	688,799	688,799

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.		
			S	\$		
Harness parts, n.s. Harrows Harrow parts Harrow parts Harvesters Hat blocks	No.	-	-	867,989		
Harrows	64	41,689	1,539,070	1,539,070		
Harrow parts		070	60,678	142,617 69,678		
Harvesters	No.	270	00,078	20,313		
Hat livings	doz.	632,181	367,763	367.763		
Hat linings Hat shapes, buckram			-	254.005		
Fur felt	doz.	186,495	3.638.029	3,638,029		
Fur felt	44	3,323	95.204	95.204		
Straw	66	196,133	3,058,974	3,058,974		
Velour Velyet Wool All other Hats, cleaned, reblocked, etc.	64	4,679	139,667	139,667 672,545		
Velvet	14	33.147 115,989	672,545 2,117,903	2.117.903		
All other	61	135,425	2.723.582	2,967,997		
Hats, cleaned, reblocked, etc.	ea	-		72.842		
Hay carriers	No.	6.145	243,772	243,772		
Hay forks	66	4,856	15.965	15.965		
Hats, cleaned, reblocked, etc. Hay carriers Hay forks Hay knives Hay loaders Hay presses Hay racks, wooden.	No.	1.429	97.424	12,780 97,424		
Thy loaders	No.	1,429	1,250	1.250		
Hay racks wooden		0	2,4490	8,000		
Hay rakes.	No.	7,855	240,415	240.415		
Hay rakes. Hay rakes, side delivery and tedder combined.	- 0	1,178	76,093	76.093		
Hay tedders	**	124	5,345	5.345 1.459		
Hay rakes, side delivery and tedder combined. Hay sling Heading Deaters, boiler Heaters, electric, n.s. Heaters, electric, water and air. Heaters, water lank Heating and ventilating equipment, n.e.s.	M pr.	2.740	192,383	192,383		
Heading	No.	106	315,375	315.375		
Heaters, electric, n.s.	1747.	-		22, 150		
Heaters, electric, water and air	No.	49,360	387,946	387,946 =		
Henters, water lank	4.0	26.826	329.565	329,565-		
- Heating and ventilating equipment, n.e.s		_		2,751,312 86,571		
Heeling Heels, n.s. Heels, rubber and composition. Heels, wooden Henap Hessians	pr.	5,922,288	278,007	281, 192		
Hools subher and composition	100	20,600,402	1.611.319	1.811.319		
Heels, wooden	No.	2,463,090	592,304	592.304		
Hemp.,				6,276		
Hessians	yd.	1,065,007	114.757	114.757		
Hockey pucks			-	7,667,003 6,435		
Hockey picks	No.	615,732	185,947	185.947		
Hockey sticks Hoes, hand Hoes, horse	és .	243,243	135,388	135,388		
floes, horse	64	2,624	34.811	34.811		
Hoists. Hollow-ware and flatware, sterling silver	14	110	208,544	212, 454 661, 933		
				1,382,209		
Hollow-ware, brass and copper		_		288, 708		
Hollow-ware, iron and steel, enamelled	_	644		379,115		
Hollow-ware, iron and steel, not enamelled	-	- 1		648, 291		
Hollow-ware, nickel-plated		_		19,840 324,331		
House, cyes, notions, etc	M	6,946	104,816	104,816		
Hollow-ware, silver piated. Hollow-ware, briss and copper. Hollow-ware, iron and steel, enamelled. Hollow-ware, iron and steel, not enamelled. Hollow-ware, nickel-plated. Hooks, eyes, notions, etc. Hoops, n.s. Hoops, steel. Horseradish. Horseradish. Horseradish.	108	7,000	-	131.940		
Horseradish	lb.	93,400	29,380	29,380		
Horseshoes Hose, linen, fire Hose, rubber		7,249,987	381,634	381.634		
Hose, linen, fire	ft.	691,656 5,109,685	2.096.549	111.186 = 2.096.549		
Hose, rubber	lb.		2.950.013			
	doz. pr.	1.622,715	1.637.587	1,637,587		
Elastic	pr.	5.108	39.746	30,746		
Mercerized	doz. pr.	112,827 487,425	265,256 1,783,925	265, 256 1, 783, 925		
Merino and mixed	26	187,420	2.985.713	2,985,713		
Silk or silk mixed	+6	1,103,183	10, 154, 413	10, 154, 413		
Woollen and cotton	- ((		15.346	15,346		
Woolles and worsted	54	3,837 947,521	4,172,603	4,172,603		
Not specified	Ni-	66,334	752,233 93,130	793,089 93,130-		
Hydrants	No. cu. ft.	1, 185 44, 491, 114	93.130 44.491	44,491		
Hydrogen peroxide	CU, IC,	77, 101, 111	77,784	38,022		
Cotton Elastic Mercerized Merino and mixed Silk, artificial and mixed Silk or silk mixed. Woollen and cotton Woollen and worsted Not specified Hydrants Hydrogen Hydrogen Hydrogen sulphide	-	-	-	5,108		
			1 200 000			
lee, artificial	ton	307,842 8,524,662	1,263,361 H,620,971	1,267,331		
lee-cream mix	gal.	396,335	385,625	391,925		
ACCOUNTED HILL		700,000	17.707; 17603	- Contract of sciences		

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	\$
Ice-cream sundries Lee-cream cones. (See "Cones, ice-cream".)	-	-	~	34,722
Ice-cream cones. (See "Cones, 10e-cream".)	. lb.	169.385	19,441	19.441
leings and icing paste Ignition accessories	40-	200,000	10, 111	3.059
Incinerators Incubators and poultrymen's supplies Infants' wenr, n.s. Ingots and bars Ingots steel	_	-	-	32,905
Incubators and poultrymen's supplies		-	-	18.730
Infants' wenr, n.s.		_		47,000 78,822
Ingots steel				59.948
Ingots, steel Ink powder and pellets. Ink, printing. Ink, writing. Innersole board. Innersoling, canvas and other, n.s.	_	-	-	1,422
Ink, printing		7,607,566	2,026,637	2.026.637
Ink, writing	No.	-	-	359, 277 27, 118
Innersole Doard		~	-	69,635
Insecticides	_	-	_	639.828
Insecticides Insulating material, n.s. Insulating pins and brackets. Insulators, porcelain. Insulators, rubber.		-		76,502
Insulating pins and brackets	No.	1,482,244	57,518	57.598
Insulators, porcelain				1,321,556 ° 20,570
Insulin	1 _	_	-	367,505
lodine, resublimed	lb.	4.286	23,356	23, 356
Iron products made of corrugated iron		- 470	P 000 700	2,692,100
Insulin Iodine, resubfimed Iran products made of corrugated iron. Iron, pig Iron phosphide.	l. ton	258,479	5,085,091	5,085,091
from phosphide from phoards fromers, electric froms, dat, electric froms, gaselvne, from y gaselvne, fromwork, ornamental and architectural, n.s.				14 763
frozers, electric	No.	250	22,500	14,763 27,421
frons, flat, electric	- 44	219,082	419,294	419,294
Irons, gasolene		-	-	22,431
Ironwork, ornamental and architectural, n.s  Ivory ornaments		-	-	1,469,089 5,500
Trony Ornantenta				0,000
Jacks, hand	No.	240,108	189,199	231,790
Jacks, hand Jacks, logging Jacks, pump				4,963
Jacks, pump	No.	742	8,636	8,630
June Institute	lb. No.	45, 528, 696 238, 992	5,339,602 158,056	5,340,644 188,514
Jams Jurs, buttery Juvelle water Jelles Jersey cloth, stockinette and tricolette	4	94	-	300.740
Jeffien	lb.	2,397,050	290,386	290,386
Jersey cloth, stockinette and tricolette	yd.	991,328	961,135	1,375,912
Jerseys	dox.	28,952	309,047	309,047 3,530,837
Jerseys Jewellery Jewellery store secessories, n.s.		_		1,215
Kalsorgine.	. lb.	3,973.576	262, 888	262,888
Kegs, beer, fish, etc	No.	9,513	31,223 398,511	31,223 398,511
Kegs, nail, etc. Kerosene Kotchup. (See "Sauces, etc.",)	Imp. gal.	55,981,919	7,340,544	7.340,544
Fotchup. (See "Sauces, etc.",)				
Kitchen equipment, n.s		-	-	167,011
Kitchenware-	-			1,457,679
Aluminium Enamelled			-	1,229,510
Enamelled Not specified Knitted goods, fancy Knitted goods, miscellaneous		-	-	491,768
Knitted goods, faney	_	-	-	205,912
Antited goods, miscellaneous		126,220	204,912	562,482 204,912
Knives, machine	No.	120,220	204,412	4473, 22.6
Labels, paper, gummed	M rolls	100	53,853	53,853
Labels, woven			-	309, 465
Lauces, sho	gr. pr.	1.098,315 135,882	339,820 136,256	525,308 138,256
Languary mitrocollulose	gal.	597 039	1.954 774	1,954,774
Lucrosse st eks	No.	14,220	1,954,774 35,538	35 538
Lacquers, Japan Lacquers, nitrocellulose Lacquers, nitrocellulose Lacquers, set cks Ladders, step and extension Lamps and lanterns, railway, mine, marine, etc.		23,954	64,012	227, 626
lamps and lanterns, railway, mine, marine, etc		040 140	003 222	487,802
Lamps, automobile	No.	642,100 49,500	801.557	801,557 221,987
Lamps invariousant	66	25,051.535	166,265 5,054,834	5, 137, 051
Lamp shades.	44	80.159	387,683	737,666
Lamps, automobile Lamps, flour and table. Lamps, incandescent. Lamp shades Lamp stands.		15,954	104,866	104,866
Lard	Ib.	51,362,134	8.383,608	8,383,608 2,864,580
Last blocks		19,550.118	2,864,580	26 138
Lard Lard compound. Last blocks Lasts, shoe, aluminium Lasts, trees and shoe findings.		-	-	26,138 109,798
Lasts, trees and shoe findings				597,662

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			\$	\$
athes, metal working. athes, woodworking. aths, netal. aths, wooden aundry cloths and nets.	No.	79	306,140	306,14 12.51
athes, woodworking	"	52	12,516	602, 42
aths wooden	М	1,138,417	4,802,616	4,882,30
auntly claths and nets		1,100,317	- 1,00%,010	16,26
anndry work ead arsenate ead and zinc, white ead antimonial ead metal (other than smelter products)	_	_	-	13,057,28
ead arsenate	łb.	180,327	28,512	28, 51:
ead and zinc, white	46	107,960 3,097,553	19,217	19,21
end antimonial	44	3,097,553	208, 544 36, 805	208,54 36,80
ead metal (other than sinelter products)	4.6	503,783	208,909	208, 90
ead, sheet	1.6	2,367,215	192,022 133,193 757,496 1,603,264	192,02
ead bars and ingots	64	1.750,870	133, 193	133, 19
ead, white, basic carbonate, dry	44	8,769,360 15,149,714	757,496	757, 49
ead, white, basic carbonate, in oil	41	15, 149, 714	1,603,264	1,603,26
ead, redd. ead, sheet. ead bars and ingots. ead, white, basic carbonate, dry. ead, white, basic carbonate, in oil. eads for pencils	_	-		46,48
Rolling	lb.	845,486	299,536	299,53
Book binders'	sq. ft.	160,407	43,679	43,67
Glove, trunk and pocket-book	44	8,334,168	1,474,065	1,474,06
Harness	Ib.	6,416,485	2,643,104	2,643,10
enther— Belting Bookbinders Glove, trunk and pocket-book Harness. Lace Mocussin Oiled, tanned, etc Shoe, upper, call skins Shoe, upper, cattle or horse hides Shoe, upper, goat skins, Shoe, upper, goat skins.		- 1		122,74
Mocassin	Ib.	297, 162	110 991	8,28 110,22
Shoe upper call skins	sq. ft	8,542,677	110, 221 3, 352, 256 3, 856, 128	3,352,25
Shoe, upper, cattle or horse hides	sq.ft.	12,635,759	3,856,128	3,856,12
Shoe, upper, chrome splits	4.6	5,316,338	815,672	815,67
Shoe, upper, chrome splits. Shoe, upper, goat skins. Shoe, upper, patent and enamelled. Shoe, upper, sheep skins. Shoe, upper, sheep skins. Shoe, upper, wax splits. Splits, n.e. s. Not specified. Sole, chrome. Sole, chrome. Sole, hemlock. Sole, union. Sole, splits. Upholstering. entherboard. esther tunning (custom). eather goods made of artificial leather. esther goods, n.s. ezoo.	64	2,003,287	531,330	531.33
Shoe, upper, patent and enamelled	44	13, 165, 418	4, 266, 652	4,266,65
Shoe, upper, sneep skins	41	12,113,436 487,400	1,639,762 73,795	1,639,76 73,79
Splits ness		701,700	10,100	808,07
Not specified	_		-	231,26
Sole, chrome	lb.	516,000	194, 470	194,47
Sole, hemlock	44	60,320	39,468	39,46 10,584,75
Sole, oak	14	24,495,805 6,456,858	10,584,752 2,787,922	2,787,92
Sale solite	44	423, 693	64, 232	64.23
Upholstering	eq. ft.	867, 462	188,553	188,55
eatherboard		_		21,39
eather tunning (custom)	_		-	421,98 831,08
eather goods made of artificial leather		_		582,12
ano			-	18,98
enses.		-	-	338,43
ife preservers	_	-	-	9,74
ifts, automobile			-	48,73 66,00
aghthouse apparatus			-	7,6
ightning arrestors, n.e.s.				508.8
inte, hydrated	Ib,	366, 864, 580	1,861,815	1,864,9
geno genses ife preservers ife preservers ifs, nutomobile bighthouse apparatus, n.e.s. pighting apparatus, n.e.s. inc, hydrated ince, quirk ince daterial incen incens, tagle, including centres, runners, etc. innings, brake, asbestos	bush.	12,254,857	3, 552, 191	3,552.1
imestone	-	And And	-	2,993,7- 209,2
ane material	an aid	546,868	198,567	198,5
inens tagle including centres support etc	sq. yd.	340,000	100,001	66,0
inings, brake, asbestos	ft.	2,178,278	439, 431	439, 43
inings, brake, cotton		-	-	1,30
inings, glove and shoe	_	-	-	182,5
moleum. (Sec "Floor covering".)				194,8
idueurs cordiels ata	_	-		151,39
itharge	lb.	4,483,572	356, 791	356,79
omens, tagle, including centres, funners, etc. jinings, brake, asbestos. inings, brake, cotton imags, glove and shoe imoleum. (See "Floor covering".) inotyping iducurs, cordials, etc. itharge itharge	_	-	00	8,097,18
Amographing Occ ks. Occomotive parts. Occomotives new Occomotive new Occom	_		-	1,061,93
ocomotive parts	Mo	40	3,086,266	435,3° 3,086,2°
cone and slides wire	No.	48	0,000,400	24,1
ubricators.	-	_		46,1
ubricating systems, automobile		_	_	620.4
amber, asbestos amber, matched amber, planed amber, sawn	aq. ft.	897,652	78,269	78.2
umber, matched	Mft. B.M	115,596 267,261 4,337,253	5,479,693	5,479,6 11,137.0
gumer, planed	44	267,261	11,135,463 103,590,035	11, 137, 0

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value,
			\$	\$
umber, n.sys.	lb.	2,885,270	376,958	5,098,75 376,95
facaroni danaroni, vermicelli, spaghetti, noodles, etc	lb.	865,081 18,682,465	85,422 1,423,746	85,42 1,423,74
Jacaroni, canned	oase No.	18,662,465 70,505 8,599	1,423,746 309,400 2,198,827	309,40 2,198,82
fachinery— Bakers		_		489.68
Boot and shoe	_			365,64
Boring (woodworking)	No.	39	28,838	28, 83 196, 06
Bakers. Boot and shoe. Boring (woodworking). Bottlers, n.e.s. Box and basket making. Brewery and distillery.	No.	-	49	8,71
Canning	-	-		90,00 27,48
Canning Cement mill. Cheese factory. Clay working Cleaning and pressing.			-	7,50
Cheese factory	-		-	18,78 15,78
Cleaning and pressing.	-	-	_	259.72
Coal handling. Concrete and cement-making. Concrete mixers Confectioners Cutting	_		-	30,00
Concrete and cement-making	No	1.012	328,359	134,14 328,33
Confectioners'	- 140.	2,012	020,000	86,0
Cutting	-	-	-	5.25
Cutting Elevating. Flour and grist-mill, n.e.s. Fog signalling. Glue spreading. Grain clevator Hand-knitting. Hoisting. Ice-making. Laundry Leather-working Lumber and shingle drying. Metal-working.				151,8 986,4
Fog signalling	****	_		331,0
Glue spreading		Aug.	-	29,00 941,90
Hand-knitting	No.	2,598	155,880	155.8
Hoisting		Aus	-	1,330,6
Ice-making		-	-	15,7 1,193,6
Leather-working			-	22.4
Lumber and shingle drying		-	-	39,9
Metal-working			_	122, 1 124, 8
Lumber and shingle drying.  Metal-working.  Metering Milking Milking Milling-cutter. Mining and metallurgical. Office and business, n.c.s. Paint-making Parking-house Pipe-cutting and threading. Printing Puln and paper, n.e.s.	No.	3,382	384,864	384.8
Milling-cutter.			~	123.5
Office and husiness, n.c.s	No.	584	64,044	755, 4 64, 4
Paint-making	-	-	-	9.0
Packing-house	_		-	15,0 111.6
Printing		_	-	8.3
Pulp and paper, n.e.s		-	40	7,542,6
Pulverized fuel	_		-	198.2 835,4
Rubber-mill				294.8
Pulp and paper, n.e.s. Pulverized fuel Road and excavating Rubber-mill Saw and planing-mill Sawand pand				631,1
Sawing, band	No.	78 155, 475	48,276 3,050,945	48,2 3,050,9
Sewing Shipbuilding Shoeworking Textile Transmission		100,710	0.000,540	237.5
Stone-working		~	**	218,0
Transmission		-		13,3
Vulcanizing		~	-	25,9
Washing, electric	No.	60,871 22,048	7.724.740 372.741 213.778	25,9 7,724.7 372.7
Washing, other power	61	3,478	213,778	213.7
Well-drilling	-	-	-	3.8
Woodworking n.s.			-	311,2 1,334,8
achinery parts, a.s.	_	_	-	744,4
Frunstilission Vulcanizing Washing, electric Washing, other power Well-drilling Woodworking n.s. Not specified Inchinery parts, n.s. Iackinaw Jakinaws. (Sre "Coats, mackinaw".) Jagmesite flooring	sq. yd,	536,376	630,406	703,7
ackmaws. (See "Coats, mackinaw".)			-	103,2
lagnesite flooring laft fult coomings and malt sprouts fult extract and malt syrups fult screenings functies fu	bush.	4,541,492	4,593,088	4,593,0
alt coomings and malt sprouts		-		42.9
alt extract and malt syrups		-	AA.	665,3 90,9
ant screenings	-		_	137,1
lanure spreaders	No.	2,262	301,818	301,6
laple butter	lb.	41,210	12.363	12.30 29.10

Item.	Umt of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			S	8
Marble, cut and polished	-114	1	-	1,287,134
Marble chips and dust. Marine and fishermen's supplies Marking devices. Marmalades Match blocks and match splints. Matchers (woodworking).	-	wa,	- 1	24.677
Marine and fishermen's supplies		-	- 1	73,499
Marking devices,,,,	lb.	7 072 073	880, 167	50,025 880,167
Marmalages	M.	7,973,072	543,305	543.305
Matchers (woodworking)	No.	17	103,816	108,816
Matches		-		1,336,686
Mats and matting, coco		-		18,725
Mats and matting, rubber	lb.	2,265,465	427, 105	427, 105
Matchers (woodworking) Matches Mats and matting, coco Mats and matting, rubber Mats coir Mats, n.s Mattresses Mattresses Mattresses Mattresses Mattresses Mattresses		44		90,000
Mattenegas	No.	724.916	4,913,215	4.977.757
Mattress materials, n.e.s.	-	-	-	5,300
Meal, alfafa	ton	1,611	39,640	39,640
Menl, ulinta Menl, corn. Menl, linseed and oil cake. Menl, rice	lb.	61, 174, 224	1,508,624	1,508,624
Meal, linseed and oil cake	400	1,812	54, 225	1,861,814 54,225
Meal, rice	ton	1.512	04,220	8,123
Meal, n.s. Meats, canned, all kinds. Meats, cooked, all kinds.	Ib.	6,815,051	947,225	956, 401
Meats, cooked, all kinds	66	23,385,050	7,140,477	7,143,127
Bacon and sides Beel Hams	64	52,079,038	14, 247, 317	14,247.317
Beet	14	2,621,709 28,233,187	377,914 7,326,077	377.914 7,326,077
Penk	44	35, 224, 450	6, 185, 208	6, 165, 208
Shoulders	64	10,063,612	1,964,118	1,954,118
Other.	44	29,324,326	5,485,105	5,491,105
Pork Shoulders. Other Meats, sold fresh—	26	man	10 000 515	40 000 545
Beel Beel Buffalo Fancy meats, n.s. Mutton and lamb Pork	- 44	353, 116, 079	49,660,545	49,660,545
Funey treats no	44	39.174 15 097 375	1,388,771	1.388.771
Mutton and lamb	66	15,097,375 28,609,768	5,984.751	5,984.751
Pork	64	141,356,588	23,624,518	23, 624, 518
Veal	46	36, 574, 056	5,863,106	5.863,106
All other. [See also "Pouttry",),	26	246, 222	47, 244 264, 410	47.244 264,410
Melisings putent and proprietory		1,405,655	204,910	7,355.384
Metal products, n.s.		_		494,838
_ Meters, gas	No.	31.719	428.983	428.983
Meters, gasolene	- 66	2.021	45,068	45,068
Meters, water	Imm and	18, 116 435, 146	202,661 247,272	202, del = 247, 272
Wethyl hydrate pure	Imp. gal.	338,338	243,626	250,631
Mica products		- 1	-	67.574
Microtomes		-		1,000
Milk seidophilus		40 200 446	10 200 000	3,300 19,369,280
Milk, sold in dairy factories,	gal,	43,708,410	19,369,286	370.336
Wilk buttermik condensed	lb.	552,456	21,462	21.482
Milk, condensed	. 46	27,728,995	2,926,477	2,926,477
Milk, skimmed, condensed	. 64	7,920,255	437,721	437,721 17,156
Milk, skimmed, sold in dairy factories			-	17,100 23,374
Milk, cremits and milk drinks	lb.	51,654,377	4,815,638	4,815,638
Milk, homogenized	_	-	4	6,570
Minesment	. lb.	3.349.349	363,953	361.953
Mirrors		POT 200	T 05 a 45 4	25,406 1,354,454
Mohair	. yd.	527.582	1,354,454	346,875
_ Monuments lettered		_	-	773.975 -
Mon heads	gr.	1,017	31,576	31,576
Mops, all kinds		-	-	485,138
Mosquito bars.		-	-	1,327 2,770,877
Motion picture huas				651,971
Motors, alternating current		_	b-1	4,433,339
Mutton and lumb Pork Venl All other. (See also "Poultry".). Ments, pickled. Medicines, patent and proprietary. Metal products, n.s. Aleters, gas Meters, gasolene. Meters, gasolene. Methyl hydrate, crude Methyl hydrate, pure. Mica products Microtomes. Mid acidophins Milk, sold in dairy factories. Milk, binternalk, condensed. Milk, binternalk, condensed. Milk, skimmed, condensed. Milk, skimmed, sold in dairy factories. Milk, binternalk, sold in dairy factories. Milk, condensed. Milk, skimmed, sold in dairy factories. Milk, homogenized. Milk, caporated Vilk, homogenized. Mincross. Mohuir Molassers. Monuments, lettered. Mop heads. Mops, all kinds. Mosquito bars. Motors, diroct current. Motors, diroct current.		_	-	I. 199, I21
Motors, n.s.		-	-	19,328
Motors, direct current Motors, n.s. Motors, phonograph Moulders (woodworking) Mouldings	gr.	41	119,562	132,644 119,562
Mouldings (Woodworking)	, NO.	41	113, 302	142.042
		23, 121	1,280,673	1,280.673
Mowers, lawn Muffs	. 64	46,263	327,018	327.018
Muffs		-	-	309

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	\$
Music, printed	_	-	-	5,000
Musical instruments and parts, n.s		-	-	97, 122
Musical instruments in process of manufacture	_ = =	-	10	69.387
Mustard, dry Mustard, prepared	lb.	420, 129	92, 609	92,009
mustaru, prepared	Est.	357,090	311,455	312,061
Nails and tacks, cut	lb,	3,062,908	874, 178	443.378 ~-
Nails, horseshoe	4	2,452,813	222, 627	222.627
Nails, tacks and brads, wire	60	122, 185, 110	4, 185, 172	4, 185, 172 -
Nails, horseshoe Nails, tacks and brads, wire Napths	-	10	-	662.941
Neckties	dos,	582,935	3,670,172	3,670,172
Nuckties Neckwear, n.s. Nockwear, fur Needles, knitting, and hooks		45,812	355, 756	636, 406
Needles britting and backs		_		1,521,950 9,454
Naudles knitting-machine				722.406
Neverleak polish.	_		44-	21,480
Niekel-silver components	-	-	-	17, 961
Nickel salts, n.e.s.		-	-	8.151
Night dresses	dos.	66,601	554.711	554.711
Needles, knitting-machine Newfles, knitting-machine Newfleshver components. Nickel-silver components. Nickel-silver components. Nickel-silver components. Night dresses Night shirts. Nitrogen	"	7,159	94,065	91.065
Nitrogen Nitroglycerine Novelties, Christmas	lb.	10,009,088	1,398,526	3,501 1,398,528
Navulting Cheistman	110.	10,009,000	1,390,320	37,300
TOTTOG CHISTINGS,,,,,				01,1100
Oars and paddles			_	37,076
Oatmesi	lb.	15,861,456	528,708	528,708
Oatmeal Oats, rolled	6.6	143,655.467	6,521,023	6.521.023
Offal	-		-	1,941.745
Oil burners and parts	No.	3,371	880.840	942,796
4 id makes	lin. yd.	4,714	1,008,145 198,214	1,008,145 198,214
Oil care	gal.	49,867	42,613	42,613
Oil, corn crude	lb.	3,314,111	295,899	197.087
Oil, corn, refined	1.6	1.851.594	307,365	307,365
Oil, creosote, and other	Imp. gal.	7,552,768	1,416,956	1,418.013 =
Oats, rolled Offal Offal Oil burners and parts Oil-cloth, cotton Oil caske Oil, core, Oil, corn, crude Oil, corn, refined, Oil, creosote, and other, Oil, floar Oil,	-	-		5,427
Oil, luct and gas	Imp. gal,	361,391.850	14,451,334	14, 451, 334
Oil land	au.l	110 517	129,957	7,125 129,957
Oil linged boiled	Trun gal	110,517 1,067,770	842.283	994,361
Oil, linseed, raw	Imp. gal.	3,388,583	2.689.551	2,689.551
Oil, lubricating	16	20, 293, 396	3,808,594	3,809,075
Oil, lard Oil, linsed, boiled Oil, linseed, boiled Oil, linseed, raw Oil, libricating Oil, olyo Oil aliye	1b.	2,948,402	330,609	330,609
Oil, alive Oil, paint and elixir Oil, sift Oil, refined, n.s. Oils, fruit	gal.	7,788	50,986	50.988
Oil, paint and elixir		133, 196	123,076	123,976
Oil estings we			-	26,609 778,152
Oils fruit		-		12,000
Dils, light	Imp. gal.	4, 052, 859	500, 365	500,365
Oils, stand, blown or enamel	gul.	148,892	211.272	211, 272 45, 594
Oils, sulphonated	lb.	436,026	211.272 45,594	45,594
Oils, rint Oils, stand, blown or enamel Oils, sulphonated Oils, terpenless Oils, ns. Olives, packed	13-	0. 400 7004	000 001	16,000
Oliver packed	lb.	2,403,734 270,222	296.981	553,805
Organs pine	gal. No.	93	687, 336 785, 924	687, 336 785, 924 =
Organs, pipe Organs, reed	41	469	65,949	65,949
Organs, n.s.	*	_	-	4,747
Ornaments, church and other, n.s.	_	-	-	18,607
Ornaments, hat, dress, etc		-		8,478
Ornaments, composition. Orthopædic appliances. (See "Surgical appli-	_		-	4,945
Orthopædic appliances, (See "Surgical appli- ances".)				
Ovens bakers'				214,062
Ovens, bakers'Ovens, enamelling, tempering, etc	_	_	_	48,693
Overalls	doz.	314,103	5,330,189	5,330,189
Oxygen	eu. ft.	138,688,619	1,471,218	1,471,218
		100 415	2.0	010.001
Packing, asbestos	lb.	383,837	218,904	218,904 7,000
Packing, metal	lb.	399.346	91,710	91,710
Packing rubbar other than shoot	10.	399,340	91,710	23,414
I WE WINE I THENET, INTHE PRINT BRIDGE				
l'addings, buckram, etc.	vd.	100.221	14.063	14,063
Paddings, buckram, etc	yd.	100, 221	14,063	14,063 20,852
Packing, metal. Packing, rubber, sheet. Packing, rubber, other than sheet. Paddings, buckram, etc. Pads and doily mats, asbestos. Pads, horseshoe.	yd.	100,221	14,063	14,063

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	S
Pads, stamp		-	-	17,873
Pails and tubs		-	-	264, 641
Paints, asphaltic and tar	gal.	204,619	170,891	170,891
Paints, automobile Paints, mixed, ready for use Paints and enumels Paints, cold water		- 107 000		10,000
Paints, mixed, ready for use	gal.	3,495,326 292,563	9,051,497	9,051,497
Paints and enamels	1b.	947.398	243.086 71.915	71, 91
	113.	8,568,771	879,370	879.37
Prints, red oxide dipping. Punel boards, electric and cabinets,:		0,000,171	0.0,1110	19.380
Punel boards, electric and cabinets,			_	737.187
Pans, tir		-	-	47,025
Pants and bloomers, cotton, for boys				5,582.026
Cants and bloomers, cotton, for boys	doz.	6,138	64,752	64.752
Pants, baby, rubber		-	_	99, 88; 200, 95;
Pants, baby, rubber Pants, breeches and knickers. Pants, outing, made of duck or denim	doz.	82,377	1,450,470	1,452,620
Paper—	UUE.	02,011	1,200,210	1, 102, 1121
Adding machine		-	_	11.483
- A alvantas	lb.	2,815,259	84,457	84.45
Blotting	ton	482	86,760	86,76
Blotting Blue and brown print and linen Book, wood fibre chief ingredient. Book and writing, cover Book and writing, plate, map, etc.			-	88,42
Book, wood fibre chief ingredient	ton	30,591	4,480,428	4,480,42
Book and writing, cover	44	1,018	175,060	175.06
Book and writing, plate, map, etc		1,267	216, 176	216, 17
Building, rooting, etc. Carbon				4.969,65 386,19
Cigarette tube		-		11.08
Coated	ton	9,305	2,167,038	2,167,03
Coated Corrugated, (See "Corrugated paper and wrap-				
TRAPS )				
Dry transfers. Foolscap and type. Glassine, etc				240,99
Foolscap and type	Mah.	509, 207	57,700   17.0,057	57,70 17J,05
Chassine, etc	lb.	351, 414 3, 407, 165	456, 103	456,10
Gummed Kra(t		60,876	6,528,369	6,528,36
Nyatt Newsprint, hanging Newsprint, in sheets Newsprint, in rolls Newsprint, poster Purchment Vegetable parchment Saturated Tissue paper Tailar paper	16	7,788	579,004	579,00
Newsprint, in sheets	4.6	9.842	592.301	592,30
Newsprint, in rolls	64	2,396,238	142,907,187	142,907,18
Newsprint, poster	66	525	68,140	68,14
Parchment	lb.	615,791	141,632	141,63
Vegetable parchment	ton	1,000	313,721	313,72
Plantaged	46	1,061 4,512	79,611 927,235	79,61 927,23
Toilet minor	46	6,384	1.119,971	1,119,97
Tissue paper Toilet paper -Wall paper Waterproof. Waxed Waxed Wropping, bogus or wood manils.	roll	24,301,191	2,936,576	2,936,57
Waterproof	lb.	1,630,616	126,819	126,81
Waxed	6.6	8,990.445	1,607,090	2,081,08
Wrapping, bogus or wood manila	ton	6,432	618.392	618.39
Wrapping, manila	66	4,139	482,567	1 097 22
Wrapping, manila Wrapping, heavy Wrapping, u.s. Wribing, n.s.	44	26,794 13,426	1,087,332	482,56 1,087,33 1,707,55
Writing, p.s.	66	32,201	7,215,052	7,886,42
Paper, fine, n.s.	_	- O 00 7 00 7 1		1,356,37
Paper, fine, n.s. Paper, miscellaneous	-	-	_	517,43
aper board -				
Chipboard	ton	29,592	1,375,004	1,375.00
Mounting board		200	1.0 000	136,76
Newsboard	ton	306 14,993	16,830 799,886	16,83 799,88
Strawboard	44	28,394	1,605,380	1,605,38
Trunk, leather binders and press boards	44	197	14,075	14,07
Wall-board	26	7.256	487,938	938,41
		85,165	4,573,338	4,573,33
All other	6.6	27,158	1,783,749	1,783,74
aper ruled, meter charts, etc	-		_	36,00
aper-mall supplies, n.s.	-	0.00	00 470	54,91
aper towels	ton	295	68,419	68,41
Paraldohard.	No.	1,697,178	456.945	456,94 26,62
Pacto fish and mont			_	26, 62 8, 64
Paste, flour	lb.	1,223,440	22,640	22.64
Paste, tooth	-	- 1 4 40 1 5 5 0	201010	1,190,37
Wood-pulp board		-	-	194.98
Putterns and models, n.s	_	-	-	365,26
Patterns, paper, n.s				690.97

Itom.	Unit. of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	s
Patterns, rug			-	76,545
Patturns when	No.	239,706	110,401	110.401
Peanut butter	lb,	3,680,324	632,739	632,739
Peanut butter Peanuts, roasted and salted Deas, split. Peavies, cant-hooks and pike poles	44	4,269,238	814,698	814.698
feas, split		1,384,535	55,695	55,695 245,346
Ceavies, cant-nooks and pike poles			2.1	386.645
Percin	No.	519,975	373.408	373.408
Pens, fountain	61	862.461	1.546.947	1,546,947
Pens, fountain, parts		-	19	63,581
Penerls, fancy Pens, fountain Pens, fountain, parts Penstocks and riveted steel pipe			-	180,914
Parolects and received steel pipe. Perfolators, electric. Perfolatin Pharmaceutical preparations. Phonograph accessories Phonograph cabinets Blumparants properts.		-		41,278
Persones	lb.	27,190	4,052	600,470 4,052
Pharmacoutical propagations	HD.	21,180	9,002	5,680,599
Phonograph accessories			-	325.193
Phonograph cabinets	- 1	-	-	106,618
Phonograph records	No.	5,955,984	2,278,286	2.278.286
Phonographs and gramophones	11	0.000 -	400 40	3,306,015
Honograph condes Phonographs and gramophones Phonographs and gramophones Photo-ongraving Photo-ongraving Photographic material	lb.	3,069,560	460,434	460,434 3,596,213
Photo-engraving				4,183,195
	-			10,035
Pano actions Pano, phyer, actions Piano and organ keys Piano hammers	No.	18,454	441.098	441.098
Pano, player, actions	41	3.222	226,831	226,831
Piana and organ keys	set	15,630	304.510	304,510
Piano hammers	15	14,467	66,822	66,822
Piano plates Piano strings	No.	4,200	59,651	59,651 27,057
Pianos	set	9,206	27,057	21,001
Grand	No.	668	351.830	351.830
Grand, player, electric.		49	54,442	54.442
Upright	61	9,918	1,937.471	1,937,471
Upright, player	16	2,499	700,034	700,034
Upright, player, electric	14	42	23.256	23, 256
Grand, player, electric. Upright, Upright, player, Upright, player, Upright, player, Upright, player, Upright, player, Pickets, Pickets, all kinds Pickles, all kinds Pickles, all kinds Pickles, all kinds Pickles, eakes and pastry Pigments, iron oxide Piling	M	24 000	394.124	4,687 394,124
Piakets	gal,	34,896 1,540,275	2,300,829	2,300.829
Pictor teams mouldings ate	BC 27 1 1	0,1190,210	6,000,068	963,657
Pies, cakes and pastry		_		13,368,169
Pigments, iron oxide	1Б.	136,362	12,101	12,101
Piling	M lin. ft.	135	28, 494	28, 494
Pillows	pr.	180, 203	466,419	466,419
Fillow cases. (See "Bedspreads, etc.",) Pins Pipe, brass and copper. Pipe, cast iron soil Pipe, cust iron soil				154,125
Ping being and ronner		_		11.729
Pine cool iron	lb.	126,362,461	3,814.270	3.814.270
Pipe, cast iron soil	43	35, 464, 819	1,400,910	1,400,910
		en .		145,908
Direct Local	łb.	4,906,410	477,667	477.667
Pipe, malleable iron, and fittings	**	7,894,290	974,799	974,799 1,723,644
Tipe, sower, from domestic clay	_			127, 943
rpe, rend Pips, malleable iron, and fittings. Pipe, sewer, from domestic clay Pipe, sewer, from imported clay. Pipe, sewer and culvert tile, coment.				1,233,885
Pine steel	lb.	189, 229, 891	8,179,029	8,179,029
Pipe, wooden		~	-	223, 149
Pipe, wrought iron	Hh.	56,385,396	2,657,305	2,657,305
Pipe (tubseco) cleaners		1 000	05 000	40,916
Pipes, Iobacco	doz.	4,623	26,288	27,135 110,617
l'iston rings, locomotive and auto	lb.	108,095,427	585,027	585,027
Planes band	10.	100,000,447	0001021	7.786
Pipe, sewer and culvert tile, cement.  Pipe, wooden  Pipe, wrought iron  Pipe (thisceoi cleaners  Pipes, tobacco  Piston rings, locomotive and auto  Pinels, hand  Planters, corn  Planters, potato  Plaster bourd  Plaster word	No.	2,435	134,369	134,369
Planters, potato	66	133	14,554	14,554
Plasterwork, ornamental		-	41.0	14,262
Plaster board Plaster, fund Plasters, medicated Platers and sheets, brass, copper, etc	rq.ft.	27,514,368	757,482	757,482
Plaster, land		-		5,651
Plasters, medicated	_	-	- 1	337,409 3,509,679
Plates and sheets, brass, copper, etc		-		61,048
Plates licence name ate	_			22,508
Plates, boiler and other. Plates, licence, name, etc. Platos, licence, name, etc. Plating blanks. Plating blanks.	_	-	- 1	54,490
the state of the s				91,113
lating blanks				10,791

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.		
			\$	\$		
Plugs, wooden Plumbers' supplies, washers, stoppers, etc. Plumbers' supplies, iron Poison, gopher and rat Poles, all kinds Polish, automobile Polish, furniture Polish and soap, harness Polish metal Polish, shee Polish, stove and pipe Polish and waxes, floor Polishes and dressings, n.s. Polishes, floor, electric Ponteans Popern Posts.		-	-	68,000		
- Plumbers' supplies, washers, stoppers, etc				433,946 - 295,633 -		
Poison, gopher and rat	_	-	-	29,642		
Poles, all kinds	No.	73,772	206.704	208.704 -		
Polish, automobile		-	-	22,442		
Polish and soon barrage				237.323 14.791		
Polish, metal	_	-	_	103, 175		
Polish, shoe		-	-	321.663		
Polish, stove and pipe		-		200,033 515,743		
Polishes and dressings, n a				9,910		
Polishers, floor, electric.	No.	480	14,328	14,328		
Pontoans				28,640		
Popeorn	lb.	1,127,112 146,414	358,446 23,134	358,446 24,434		
Posts, fence, iron	No.	140,414	20,109	49,317		
Popcorn Posts, feace, iron Posts, poles and piles of coment. Posts, poles and piles of coment. Pottsh and mother liquor Pottssium iodide Potts, glue, electric Pottery from imported clay. Pottery from domestic clay Poultry, fresh Powder, baking. Powder, baking. Powder, eleaning or scouring. Powder, cream	p. 40	-	-	17.748		
Potush and mother liquor	P-4	0.000	00 000	14,649		
Potassium iodide	lb.	9,372	38.026	38,026 2,348		
Pottery from imported clay			- 1	38.144		
Pottery from domestic clay		-	- 1	356.093		
Poultry, fresh	lb.	5,930,432	1.891.206	1.891.206		
Powder, batterwill	44	10,108,068 380,442	2,232,473 28,745	2,232,473 28,745		
Powder, cleaning or scouring		300,312	20,140	1.037.784		
Powder, cream	lb.	114,835	57,599	57.599		
Powder, custard		-	-	82,079 12,390		
Powder, cream ger scouring. Powder, cream Powder, ice-cream, jelly, custard, etc. Powder, jelly Powder, july Powder, july	lb.	2,632,201	542.893	1.394.395		
Powder, junket	117.	- 1000	- 1	16.692		
Powder, junket Powder, hunon Powder, milk Powder, pudding Powder, skimmed milk Powder, taleum	lb,	35,400	24,780	24,780		
Powder, milk	17	2,314,490	578,088 38,144	578.088 38,144		
Powder, padding	68	225,741 12,509,187	1,236,277	1, 236, 277		
Powder, talcam	-	-	-	136.480		
Powder, falcim Powder, whipping, icing, orangeade, etc. Power-house equipment, n.s. Press cloths Presses, sent Presses, hydraulic and other power, n.s.		-	-	17,344		
Power-house equipment, n.s				2,931 71,314		
Presses, soul	No:	1,422	7.895	10.068		
Presses, hydraulic and other power, n.s	_	-		70,280		
Pressure systems	_			19,652 38,356,249		
Prints. (See "Cotton fabrics".)				00,000.448		
Protein	lb.	23.247	13,948	13,948		
Pressure systems Printing, commercial Prints. (See "Cotton fabrics".) Protein Publications, subscriptions and sales of	_	-	-	15,461,592		
Pullars wood		_	_	292,811 6,754		
Pulp, fruit	lb.	266,008	7.899	7,899		
Puddings. Pulkys, wood. Pulp, fruit. Pulp, pure, tomato. Pulpers and slicers.		-	_	37,304		
Pulpers and slicers	No.	908,446	2,843	2,843		
Pulpwood—	cord	000,110	11,000,000	11,000,000		
Ground wood	ton	201,636	4,907,434	4,907,434		
Sereenings	44	47,834	711,417	711.417		
Sulphyta fibro	44	10,212 188,116	661,060 10,543,019	661,060 10,543,019		
Sulphite fibre, bleached	64	277, 863	20.508.497	20,508,497		
Ground wood Screenings. Soda fibre Sulphata fibre. Sulphite fibre, bleached. Sulphite fibre, unbleached. Not specified Pumps, centrifugal. Pumps, hand	- 44	277, 863 243, 728	11,276,913	11,278.913		
Not specified		206 933	6,540 525,127	6,540 525,127		
Pumps, hand	NO.	52,706	634, 071	634,071		
Pumps, piston, gasolene	41	278	45.943	45.943		
Pumps, piston, steam	N1.	8.253	793.742	208,368 1,024,525		
Pumps, biston, other power	No.	8,253 3,087	40,956	1,024,525		
Pumps, other, and pump parts.	_	- 01001	-	190,549		
Punches, toetal working.		F. 60 C C C C C C C C C C C C C C C C C C	455 005	70,875		
Purses, pocket books and folders	No.	515,332 6,701,896	415.397 283.517	415.397 283.517		
Pumps, centrifugal Pumps, hand Pumps, piston, gasolene Pumps, piston, steam Pumps, piston, other power Pumps, wooden Pumps, wooden Pumps, other, and pump parts Pumeles, noetal working Purses, pocket books and folders Putty and other fillers Pyjamas Pyroxylin, compounds and thinners.	ib.	0,101,090		1,390,631		
- Pyroxylin, compounds and thinners	gal.	576,260	1,077,643	1,077,643 -		
			1			

Item.	Unit of Mensure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
- CO27			8	8
uilted goods	No.	158.091	212,960	214,42
	yd.	101,073	67, 824	67,82
acquets, tennis Indintors, nutomobile Audiators and parts, heating Audios, complete Eadio cabinets	No.	54,023	177,649	185,98
indiators, nutomobile		-	-	786.20
ladiators and parts, heating	N.a	84.083	7,486,302	2,945,87 7,486,30
adia cubinata	No.	44,546	899, 498	899,49
aulio speakers aulio vacuum tubes aulio vacuum tubes aulio apparatus and supplies, m.s. auli, bruss and other aulis, steel auliway fish plates	4.6	1.518	21,757	21.75
adio vacuum tubes	14	1,556,927	2,043,473	2,043,47
adio apparatus and supplies, n.s		-		659,60
all, brass and other	1, ton	349.007	16,109,847	16,109,84
silway fish platos	1-H	15,179	957,447	957, 41
alway tie plates	84	71,523	3,910,522	3,910,52
ailway track equipment		~	pts.	1,458,34
allway equipment, n.s	767	021 607	110 279	1,379,02
akes, hand	No.	231,697 1,075,050	119,378	119,37 408,06
eaners	46	1,412	134,627	134, 62
caper-threshers, combined	8-6	2,429	2,010,473	2,010,47
allway lish plates ullway truck equipment allway equipment, n.s. akes, hand azers, sulety capers caper-threshers, combined cooders, time cetriers for storage battery chargings cels, cable	46	1,176	285,110	285,11
cetifiers for storage battery chargings	_	***	0.0	109,13
ecis, cableefining equipment, oil		-	-	58,77 6,00
chaing equipment, oil	No.	45.025	1.613.047	1,983,04
efrigerators, electric efrigerators, electric egalia, all kinds egasters, account egasters and grills egasters cash enovers, puint, varnish and enamel.	41	3,108	780, 802	780.80
egalia, all kinds	-	-	-	200,88
egisters, account	No.	653	83,094	83,01
egisters and grills		-	-	295.91
egisters, cash	-nl	17.111	118,004	1,669,62
emovers, paint, varmen and ename	gal.	21,993	56, 164	56, 16
epair gums and fabrics	lb.	1,819.505	864,347	864.34
epair kits and blow-out boots	-	-	~	91,46 108,53
epair patches, tire		-	-	108,5
entovers, pant, varmsh and enamel.  ennet, cheese.  epair gums and fabrics.  epair kits and blow-out boots.  epair patches, tire.  esin, prepared.  fabous, inked.  likkons.		-		9,12
iblions, inked	yd.	10,853,420	307,095	11,00 308,71
ibbons ibbon novellies ice, cleaned, etc. ifles.	J 44.		-	32, 14
ice, cleaned, etc	ton	14,694	1,648,920	1,648,93
ifles	No.	13,200	40, 200	40,20
			~	333,20
ings and loops	Ib.	388.099	113,411	113.4
ohes fur and other	No.	1,728	31.767	32.20
ings and loops	44	5,200	48,000	48,00
obes and cloths, n.s		-	***	534,3
abes, sleeping		-		94.40 5,340,8
ula wiro	I. ton	45,032	1,765,168	1,765,11
obes and clotts, n.s. dbes, sleeping uds, metal uds, wire oll covering, wringer ull covering other than wringer ull covering and land packers ollers, printers ooling preparations and materials, n.s.	1. con	-	2,100,100	51,89
oll covering other than wringer	-	-	-	222.7
ollers, land, and land packers	No.	1,321	40,674	40,6
ollers, printers	_	-	- 1	280,71 71,8
ooning preparations and materials, n.s		~		2,342,6
uno steri wire			-	368.0
uliber, hard	_	-	-	271,6 25,1
ubilier proofing		-	-	25,1
ubber, reclaimed	_	-		441, 25
RDDer, H.Suhbar gande moulded			-	120, 1
ubber goods, coated cotton	_	-	_	523.3
oofing preparations and materials, n.s. ope, steel wire uber, hard ubber, roofing ubber, reclaimed ubber, n.s. ubber goods, moulded ubber goods, coated cotton. ubber goods, assitary. ubber goods, n.s.	dog.	38,789	107,975	124.3
ubber goods, n.s. lugs, woven whole, 4' 6'' x 7' 6'' or longer lugs, woven whole, small	-	440 500	-	148,7
ugs, woven whole, 4' 6" x 7' 6" or longer	carpet yd.	419,600	1,165,574	1,296,2
ugs, woven whole, small	lin. yd.	788,613	2,012,227	2,036,98
ugs, made from old carnets		_	_	13. 1
ules, wooden		V	_	74.6
ugs, n.s. ugs, nude from old carpets ules, wooden uling	-	-	-	497, 1:
	3.7	v 600	00 007	00 0
addlesaddle parts	No.	5,900	83,337	83,3 27,5

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.			
				8			
C. J.J sussibline			8	37.79			
Saddlery specialties		_		1,237,75			
Spile all kinds	_	-	_	66,06			
Salt. Salts, galvanizing Sanders, woodworking Sanitary towels. ( <i>See</i> "Towels".) Sanitary ware, enamelled	ton	299, 445	1,495,971	1,495,97			
Salts, galvanizing		-	-	1.51			
Sanders, woodworking	No.	99	70,935	70,93			
Sanitary towels. (See "Towels".)				0.000.46			
Sanitary ware, enamelled	-	~	-	3,818,41			
santary ware, e.a. santary ware, e.s. santary ware from imported claysash, doors and millworksash, doors and millworksash weights sauces, ketchups and relishessash.		-	1.00	520,87			
Sanitary ware from imported clay				21.448.73			
Sash stool		-		1,025,60			
Sasti, Sveci	lb.	2,532,129	37,816	37,81			
suces ketching and relighes	gal.	1,719,110	2,863,800	2,866,34			
auerkraut	lb.	3,228,587	130,623	130,62			
Busage casings susage, fresh or cured saw benches saw parts and saw outfits saws, all kinds				1,901,38			
sausage, fresh or cured	lb.	47,347,877	8,689,039	8,689,03			
law benches	No.	158	5,922	5,92			
aw parts and saw outfits	_		-	284.42			
aws, all kinds		-	64	1,458,48			
awdust	NI.	34,269	2,314,396	2,314,39			
Cales,	No.	34, 208	2,014,000	799. 23			
carves and municis				44.59			
awdust cales carves and nufflers cows crap, aluminium crap and scale, brass and copper crap, b.s. crap, b.s. crapes, rond creen doors creens, n.s. creens, window crew products crews cufflers culflurs		-		3,04			
erap and scale, brass and copper				65.29			
crap, iron and steel	lb.	153,611,644	787,135	1,061,51 256,77			
crap, b.s	No.	-		256,77			
crapers, road	No.	6,916	115,665	145,66			
creen doors,	-11	38,692	74,783	74, 78			
creens, n.s.	No.	116,586	40.541	431,87			
creens, window	NO.	110,000	10, 911	474, 19			
erew products				2,092,55			
oufflors	No.	12,766	104,370	104,37			
culptures, plaster	_	_	-	2,34			
culptures, wood		-		4,55			
culptures, woodcythes, sickles and hay knives	No.	118,660	129,500	129,56			
eals, corporation and othereals and labels, lithographed and embossed	_	-	~	15.56			
eals and labels, hthographed and embossed		-		107,79 76.82			
earchights, projectors, neadights, etc				13.84			
eats, Chair.		_	_	6.95			
ears in horse and power eparators, boilers	No.	513	24,316	24,3			
eparators, boilers	_	-	-	21,00			
eparators, buttery hades and blinds, window hade cluth and rollers hade rollers, spring			-	4.80			
hades and blinds, window		-	-	520,8			
hade cloth and rollers		64		726,8			
hade rollers, spring	_	-	-	249.51			
haaks, shoe	37.0	136	96, 401	98,43 96,46			
hances metal-working	140,	100	10F, UC	492.7			
hade rollers, spring- hanks, shoe hapers and jointers, woodworking. hapers, metal-working heavis, woven heaf loaders heepskin socks and fillers. heeting, rubber, hospitul heeting, rubber, n.s. heeting tubber, n.s. heet metal products, n.s. heets galvanized	No.	12,365	24, 752	30, 8			
heaf loaders	76	135	119,457	119.4			
heepskin socks and fillers	_	4	44	137, 6			
heeting, rubber, hospital	yd.	185, 825	84,842	94,8			
heeting, rubber, n.s	1.6	2,375	1,425	1,4			
heeting, rubber, crib		-	400	9,45			
heet metal products, n.s	ton	48,023	4, 435, 889	4, 435, 8			
heets iron and stool	l, ton	26, 322	1 754 914	1,754,2			
hellar	gal.	194,832	1,754,214 595,223	595, 2			
hields, dress		-	-	-84,03			
heet metal products, n.s. heets, galvanized. heets, iron and steel. hellac. hields, dress. hins, railroad. hingle bands.	_	_	84	35,00			
hingle bands	-	~		56,5			
lingles	M	2,865,994	10,321,341	10, 330, 83			
hingles, usbestos hingles, usbestos hingles, composition hipbuilding and repairs hirts and blouses for boys.	_	-	-	107.5			
hingles, composition		-		1,689,68 12,486,1			
history and blouses for hour	doz.	72,658	501,310	501.33			
Shirts fine	41	415,978	7,088,488	7.088.48			
hirts, work	AR;	363,554	4,078,140	4,136.1-			
Shirts, line Shirts, work Shirts, n. 8. Shock absorbers, automobile.	-	-	-	38.97			
Shark absorbers sutamobile	-	_	-	615,90			
Shoddy, mungo and wool extract	lb.	5, 117, 468	703,691				

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
19 19 19 11			\$	\$
Sine laces. (See "Laces".) Sine supplies. Sine trimmings.				16.73
Show triminings	pr.	176,497	2,474	2.47
hoe uppers	64	5,000	12,500	2.47 12,50
Shoe uppers. Shooks, box. Shortening (animal). Shortening and lard compound (vegetable)	_	-		5,149,89
Shortening (animal)	lb.	30, 487, 575 21, 535, 233	4,239,298 2,899,151	4, 239, 29 2, 899, 18
chortening and lard compound (vegetable)	Jb.	1,657,005	131, 239	131.23
hovels, wood		210011000	-	1,50
brinking		-		1,50 107,9- 32,2
hrinking cloth	yd.	1,291,421	32,283	32,21
hovels, wood. hrinking hrinking cloth ifters, ash. ignals, train and other.				30, 1
		-	-	93,2
gns, and scenery gns, brass, name plates, etc. licates, ns. licen carbide, crude	_	-		10,4
igns, brass, name plates, etc			-	26,6
ilicates, n.s	lb.	38,016,266	2,098,199	27.0 2,139.9
ilk piaca goods	yd.	2,282.408	2,952,331	2,961.4
Ilk fabrics, artificial	46	1,031,593	1.136.283	1,136.2
ilk knitted goods, artificial	lb.	239, 423	415,275	621,8
ilk piece goods tk kebries artificial, lk knitted goods, artificial, ilk yarn ilk yarn, artificial	68	156, 240	608,146 3,612,999	608,1 3,612,9
los and troughs		3,230,662	9,012,999	31,4
ilver, other than smelter products		_	(4)	18,6
ilke yarn, artificiali, ilke and troughs, ilver, ather than smelter products, ilver nitrate, ize, kates	lb.	5,839	39,117	39,1
ize			-	283,0
		_	-	570.7
kewers	Dr.	36,372	74, 247	22.7 74.2
kins, calf	pr. No.	221,191	651,592	651,5
kins, sheep, kins, sheep, pickled		564, 923	1,033,569	1,033.5
kins, sheep, pickled	doz.	31,016	245,509	245.5
kirts				592, 2 965, 3
licine		-	-	23.9
leeve supporters, (See "Armlets".)				
leighs	No.	15,765	696, 475	696,6
kins, sneep, pickied. kirts labs and edgings, wood ledges leeve supporters. (See "Armlets".) leighs. leighs, children's.		148,981 406	270,877 79,600	270,8 79,6
ligers, meat. lippers, cloth and carpet— Babius'. Boys'. Children's.		400	ro, our	10,0
Babies'	pr.	100,797	44,167	44,1
Boys'	46	22,861	15,972	15,9
Children's	46	113,605	64,986 89,291	64, 9
Woman's	66	85,550 847,446	761,384	8t, 2 761, 3
Women's. Not specified. melter and refinery products		011,110	101,009	2,7
melter and refinery products		-	-	94,341,7
mocks	dos.	83.937	868,178	875,9
moker's sets			n	11.7 60.9
naths southe.	dos.	4,440	61,240	61,2
metter ind remery products imoker's sets mokestacks, steel maltis, scythe mowalices		-	in la	12,5
inowahioes.  Soap, hard, n.s.  Soap, household, n.s.  Soap, liquid.  Soap, medicated.  Soap, medicated.  Soap, soft.  Soap, textile.  Soap, textile.  Soap, toxtile.  Soap, toxts.	lb.	2,343,069	202,462 3,393,588	202.4
Soap, household, n.s.	44	44, 916, 489 66, 225, 955	3,393,588 5,415,315	3,393,5 5,415,3
oap, laundry and soap chips,	44	1,048,662	105, 281	106, 5
pap, medicated				17.8
oap, polishing and scouring	1b,	353,711	20,970	20, (
oap powder	44	fl. 045, 901	391, 400 98, 835	391,4
OSD, BOIT.	14	1,309,590 1,803,723	138,791	98.8
our tailet	64	18, 479, 868	4,000,841	4,000,8
oap stock	_	_	-	66, 6
oap, n.s	lb.	1,319,178	156, 570	180,3
ociety emblems and paraphernalia	_	-	-	14,5
ockets, receptacles, rosettes, plugs, stc	-		-	745,8
odium biborate	1b,	47,675	4,768	4,7
odium bisulphate (nitre cake)	(1)	5,325,936	6,465	6.4
odium carbonate (soda ash)	12		2 500 443	1,618,3
soap, n.s. society emblems and paraphernalia. sockets, receptacles, rosettes, plugs, etc. sodium biborate. sodium bisulphate (nitre cake) sodium carbonate (soda ash) sodium hydroxide (caustic soda).	1b,	29,034,646 30,337,563	3,593.647 890.747	3,593,6 890,7
sodium hydroxide (caustic soda)	16	50, 970	2,036	2,0
Court in the Control of the Control	66	4, 398, 861	45, 484	45,4

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
			8	8
Sodium sulphate (salt cake)	lb.	6,384,650	57,788	57,788
Solders, water	46	307,338 3,361,987	42.369 851.385	42,369 851,385
Sodium sulphate (salt cake). Softeners, water. Solders Soleing, rubber. Soleing, rubber and composition soles. Soleing, rubber and composition half-soles.	_	9,001,901	001,000	26, 201
Soleing, rubber and composition soles	pr.	3,534,885	896, 363	896,363
Soleing, rubber and composition half-soles	44	499, 163	130, 128	130, 128
Soles, felt			-	4,500 222,370
Soles, felt Sole tops and heel lifts Soup, canned Spades and shovels	case	408, 265	1,390,612	1,390,612
Shades and shovels	No	1,170,568	831, 982	831,982
Spark plugs	No.	3.720.379	960, 808	960,808
Spices, mixed, whole or ground	Ib.	3.758,608	1,550,675	1,550,678
Spikes, railway	16	38,859,040	1,258,906	1,258,90
Spinning Wheels	No.	550	3,605	3,605 434,900
Spoolwood	_			308, 262
Sporting goods, n.s.	~-		_	549,791
Sprayers, barrel or tank	No.	399	23.774	23,774
Sprayers, hand	64	4,726	23, 108	23,108
Sprayers, power	6.5	245	34,600	34,600
Surings automobile	-	-		30,406 2,572,058
Spindes and shovels.  Spindes and shovels.  Spindes and shovels.  Spindes and shovels.  Spindes, railway.  Spinning wheels.  Spools, bobbins and shuttles.  Spoolwood.  Sporting goods, n.s.  Sprayers, barrel or tank.  Sprayers, hand.  Sprayers, n.s.  Springs, automobile.  Springs, automobile.  Springs, steel and wire.  Springs, spholstering.  Springs, flat, and railway coil.  Springs, bed, box.  Springs, bed, woven wire.  Springs, bed, woven wire.				290,049
Springs, upholstering	_	-	-	33,941
Springs, flat, and railway coil			-	242.340
Springs, bed, box	No.	8, 567	189, 255	189, 258
Springs, bed, woven wire	44	28,909 358,990	105,089	105,089 1,895,721
Stains	gal.	508,315	1,781,474 777,835	777.835
Stairs, iron		-	-	777, 835 542, 653
Stampings, automobile	_	~	-	352,945
Stampings, metal, n.s		-	-	480, 211
Stamps, metal and rubber	_	P 00	_	290, 230 12, 505
Stamps steel and dies			_	32,463
Springs, bed, woven wire Springs, bed, n.s. Stains Stairs, iron Stampings, automobile. Stampings, metal, n.s. Stamps, metal, n.s. Stamps, metal, n.s. Stamps, atcel and dies. Stamps, atcel and dies. Stamps, steel and dies. Standpipes, ruilway	_		_	14.680
Staples, wire Starch, n.s. Starch, corn, edible Starch, corn, laundry Starch, potato	lb.	4,816,979	175,322	175,322
Starch, n.s	lb.	10 025 550	7 000 000	34, 035
Starch corn laundry	10.	18, 265, 559 8, 190, 392	1,003,882 407,616	1,003,882 407,616
Starch, notato	66	2,410,601	96,732	96, 739
Stationery goods, n.s.		-	-	2, 251, 253
Stationery goods, n.s. Statues, n.s. Statues and church supplies, plaster. Staves Staves Stearine Steel, cold drawn. Steel, cold rolled	-		-	50, 688
Statues and church supplies, plaster	M	29,305	375,519	231,531 375,519
Stearine	lb.	1,437,376	112, 205	112, 208
Steel, cold drawn	64	14.052.000	514,083	514 083
Steel, cold rolled	66	21,725,543 32,005	936, 128 1, 483, 768	936,128
Steel, structural and ornamental.	i. ton	32,005	1,483,768	936,128 1,483,788 16,024,759
Steel shapes structural		-		7,430,605
Steel work, n.s.				1,649,80
Stencils	_	-	-	29, 648
Stereotyping.		-		635, 669
Stockmette and tricolette. (See "Jersey cloth".)				PR So
Stokers mechanical	No.	8	28,905	57, 730 28, 900
Stone, artificial		_	20,000	T 173 645
Stools, benches, etc		-	-	132,913
-Stove pipes	_		-	697, 320
Stove parts, n.s.	No.	DOE OOT	C 000 000	327,91
Stoves electric	140.	205,091 46,849	6.068,320	6,068,321 3,075,391
Steel, cold drawn Steel, cold rolled. Steel, structural and ornamental. Steel, structural for buildings and bridges. Steel shapes, structural. Steel work, n.s. Steneils Steneils Stereotyping. Stockinette and tricolette. (See "Jersey cloth".) Stoker parts Stokers, incehanical. Stone, artificial. Stools, benches, etc. Stove pipes Stove pipes Stove pirts, n.s. Stoves, coal and wood. Stoves, cleetric. Stoves, gilled academ.	44	66,382	1,837,905	1,837,90
Stoves, gas Stoves, oil and gasolene		1,249	25,663	169,333
Straps, leather	doz.	100,402	75,328	75,328
Straps, deckle	da-	7.010	90 004	4, 19
Straw retted	doz.	7,010 551	29,804 33,080	29,80- 33,08
Straws, soda	CON!	301	90,000	89, 55
Strings, violin and ukelele	_	-	-	1.217
Stoves, oil and gasolene Straps, leather Straps, deckle Straps, watch Straw, retted Straws, soda Strings, violin and ukelete Strops, razor. Sugar butter Sugar, granulated. Sugar, granulated.	No.	63,808	22,029	22.029 87,573
Sugar butter	lb.	774.421	87,577	87,577
CHARLE & CHARLES CO. L. C.		829, 850, 567	46, 158, 093	46, 158, 093

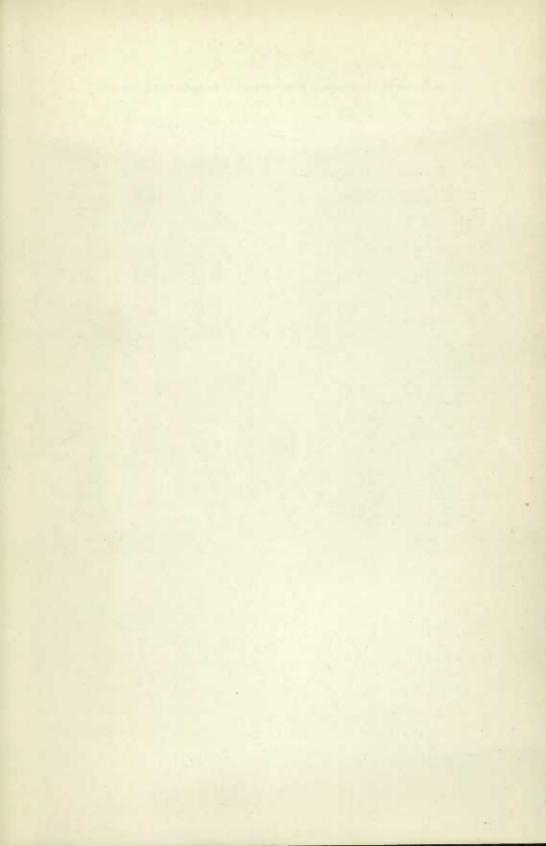
	1			
Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
Sugar, grape Sugar, maple Sugar, soft Sugars, soft Suit cases (See "Bags, etc.".) Suits and pants, boys Suits, men's Suits, men's Suits, women's Suits, soft Surfacers (woodworking) Surgical and orthopedic appliances— Artificial limbs.	15	1 046 001	\$	\$
ugar, grape	lb.	4,946,381 2,897,753	172,998 585,175	172,998 585,175
Sugar of milk	_			7,491
Sugars, soft	lb.	97,766,317	5, 144, 504	5,144,504
suit cases. (See "Bags, etc.".)				2 920 726
suits, men's		_		3,820,736 26,303,245
duits, women's		_	-	26, 303, 245 1, 135, 256
duits, jersey, n.s. (See also "Children's jersey				
suits".)	doz.	8,191	114,198	114, 198
superneaters and equipment	lb.	3,646,000	29, 168	34,305
Surcingles	201	0,010,000	20,100	29,168 26,008
Surfacers (woodworking)	No.	53	69,058	69,058
surgical and orthopædic appliances		FAR	48.01.	
Surgical and orthopædic appliances— Artificial limbs. Braces. Corsets and brassieres. Foot easers and arch supports. Foot plates. Heel cushions and walk strates. Supports. n.s. (See also "Trusses".) Surgical helts. Surgical elastic stockings. Surgical elastic stockings.	No.	507 59	67, 214 800	67,214
Corsets and brassieres	68	5.189	24,757	24.757
Foot casers and arch supports	pr.	33,168	62.555	62,555
Foot plates	No.	438	3,249	3,449
Heel cushions and walk strates	pr.	50,076	10,943	10,943
Supports, n.s. (See also "Trusses".)	No.	480 14,474	10,663	10,663 34,058
Surgical plantic stackings	64	3,968	25, 861 6, 647	13,950
Surgical clastic stockings, suspensories, etc	-		V, (M)	67,355
Surgical and athletic appropriate	dos.	7.779	60,052	60.052
Not specified.cs. surgical bandages. surgical dressing. suspenders, supporters and garters.	_		MA DOM	32,331 76,757
surgical bandages	gr.	4,352	76,757 161,543	333,449
usnendura supporters and services	yd.	362,557	1,278,285	1,280,285
wathers.	No.	129	35, 505	35,50
weaters, cardigans, jackets, etc.	-		-	8,983,934
weat pads	_	-	-	402,825
weeping compounds	No.	2,072	11,800	84,041 11,800
Switchhoards light and names	140.	2,073	11,500	2,955,697
witches and accessories	-	_	-	2,495,968
Syrup, corn	lb.	17,046,631	780,080	780.080
Syrup, maple	46	1,698,530	332,946	332,940
Syrup, table, lountain, etc	gal.	246,585	238,349	238,349
buspenders, supporters and garters swathers. Sweaters, cardigans, jackets, etc. Sweaters, cardigans, jackets, etc. Sweaters, cardigans, jackets, etc. Sweaters, compounds Swings, lawn Switcheo and accessories. Syrup, corn Syrup, corn Syrup, table, fountain, etc. Syrup, fountain and fruit juices Syrups, fountain and fruit juices Syrups, fountain and fruit juices	lb.	5,599,849	202, 133	1,681,287 202,133
		0,000,000	402,100	0001200
Tablets, memorial Tags and labels, shipping Tags, dog, bicycle and licence	-	-	-	17,627
Tags and labels, shipping	_	-	-	244,933
Lags, dog, bicycle and licence	_	-	0.0	1,067 347,118
Pallow	lb.	19, 179, 543	1,556,436	1,556,43
Callow, refined			-	20, 170
Cankage, animal	lb.	38,078,537	838, 594	838,59
Ings. dog, bicycle and licence lailors supplies Callow. Callow. Callow. Callow. Cankage, animal Canka, gusolene and oil. Canka, pressure. Canka, steel, n.s. Canka, storage Canka, n.s. Cape, piretion and splicing compound.		0.0	-	800,60
Lanks, pressure		-		126,01
Tunke storage		_		32,540 2,083,53
anks, n.s.	-	-	_	865,86
ape, friction and splicing compound	lh.	685,460	232,064	232,06
Tape, paper, gummed	-	240 440	mo 004	7,39
lapes, measuring.	No.	146,115	73,834	73,83- 203,07
apes, cotton. (See also Bindings .)	yd.	669,705	379,247	379,24
aps, brass	3 4.		-	1.024 31
ar, coal and tar products	Imp. gal.	27,141,332	1,721,432	1,721,43
nr, erude and refined, tarco, tarvia, etc	42	9,453,666	1,208,635	1,208,63
ape, paper, gummed apes, measuring apes, cotton. (See also "Bindings".) apestries aps, brass aps, brass ar, coal and tar products. nr, erade and refined, tarco, tarvia, etc. ar products, n.s. argets, blackbird and duck appaulins. (See "Covers, canvas".) lea, blended, etc.		-	***	1,69 8,12
arnualing (See "Covers convos")		-		0,12
ea, blended, etc.	1b.	25, 178, 537	13,819,924	13,819,92
elephone material	_		10	7, 162, 40 42, 92
argees, mackord and duck.  arpunlins, (See "Covers, canvas".) es, blended, etc. elophone material. enonors and mortisers (woodworking).	No.	63	42,929	42,92
ents Thermits Thread, cotton		04 500	10 101	782,83
Thermits	lb.	31,590 5,981,651	12,161 3,484,368	12,16 3,892,65
Thread, cotton	doz, spls.	211,368	560,949	560,94
Thread, artificial silk	lb,	1,500	3,400	3,40 860,79
Thread, silk, twist and floss		106,590	860,796	

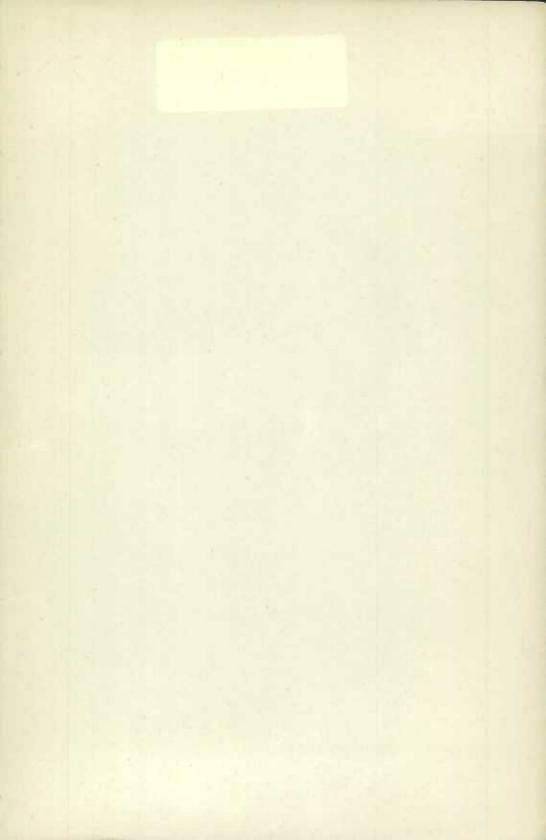
Threshers					
Three-hers — No. 3,439 2,466,999 2,466,999 179. The Seaway — " 6,637,669 4,301,588 4391,588 — Tile, ceramic, floor, from imported clay — No. 22,627,982 656,654 856,054 133,411	Item.	of		Quantity	
Ties, sawn					
File ceramic, floor, from imported clay.   No.   22,627,992   656,634   868,004   771e, floor from domestic clay.   No.   22,627,992   45,729   4	Threshers	No.	3,439	2,466,999	
File drain, from domestic clay	Ties, sawn	**	0,637,669	4,301,598	4,391,598-
Tile, Roof from domestic clay.  Tile, Rypsian and other, n.s.  Tile, Rypsian and other, n.s.  Tile, Roofing and hollow blocks.  Tile and the control of the	Tile degin from domestic clay	No	22 627 002	656 054	
Tile, gypsinn and other, n.s. — — — — — — — — — — — — — — — — — —	Tile floor from domestic clay				45 729
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tile, gypsum and other, n.s.	DQ. 640	111,020	10,100	87.783
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tile, roofing and hollow blocks		-	-	1,936,587
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tiling and flooring, rubber	1b.	746,257	170,444	170,444
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Timber, square	M ft.	26,239	572.797	572,797
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Timbers, mine	M lin. ft.	139	6, 131	6,131-
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tin	Ib,	88,015	47,723	47,733
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tingel ememonts	gr. ya.	18,810	48,004	10 750
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tingel rithon	gr.	2,801	12,102	95 847
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tinware, iananned or not	_	_		1.804.363
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tire fabrics	lb.	7,997,805	3.813.403	
Tires and tubes, balloon casings.  No. 2, 261, 448 2, 1706, 002 2, 170	Tire sleeves	_	-		11.167
Tree, carriage, solid rubber.  Tires, carriage, solid rubber.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Toasters, electric.  No.  36, 467  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  204, 109  207, 375  208, 239  208, 208  208, 208	Tires and tubes, balloon casings	No.	2,621.448	21,706,002	21,706,002
Tree, carriage, solid rubber.  Tires, carriage, solid rubber.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Toasters, electric.  No.  36, 467  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  204, 109  207, 375  208, 239  208, 208  208, 208	Tires and tubes, balloon inner tubes	14	2,387,717	3,633,126	3,633,126
Tree, carriage, solid rubber.  Tires, carriage, solid rubber.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Toasters, electric.  No.  36, 467  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  204, 109  207, 375  208, 239  208, 208  208, 208	Tires and tubes, pneumatic casings	14	1.717,130	19,369,592	19,369,592
Tree, carriage, solid rubber.  Tires, carriage, solid rubber.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Tires, motorcycle.  Toasters, electric.  No.  36, 467  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  203, 704  204, 109  207, 375  208, 239  208, 208  208, 208	Tires and tubes, pneumatic inner tubes	14	2,250,712	3,725,434	3,725,434
Chewing cut and twist	Tires, bicycle	16			181,193
Chewing cut and twist	Tires, carriage, sonu rubber	ID.	26 167	000 764	110,010
Chewing cut and twist	Tires, solid rubber, n.s.	210.	00, 101	200, 104	604.109
Chewing cut and twist	Tires, railway car	ton	3,177	315, 134	
Chewing cut and twist	Toasters, electric	No.			273,756
Traps, game	Tobacco -				
Traps, game	Chewing, cut and twist	lb.	280,150		
Traps, game	Chewing plug	10	4,941,551		
Traps, game	Smoking, leal	46	6,305,306		
Traps, game	Smoking, package, cut	14			
Traps, game	Smoking twist	14			2,037,100
Traps, game	Shuff	ad	1 000 011	1 977 990	1 277 230
Traps, game	Stoms and cuttings		2,000,011	1,211,400	18 808
Traps, game	Toboggans	No.	12.671	41.576	
Traps, game	Toilet preparations			-	4,370,869
Traps, game	Toilet systems, chemical	1-0	-	ma .	80,427 -
Traps, game	Tools, pnementic and parts,		-	-	172.812
Traps, game	Tools, edged, n.s		-	-	11.097
Traps, game	Tools, machine		-	-	92,245
Traps, game	Toothninks				1,932,390
Traps, game	Tow	ton	1 601	119 417	112 417
Traps, game	Towelling	vd		236 170	236, 170
Traps, game	Towels	doz.	165.245		
Traps, game	Towels, dish	16	18,259		
Traps, game	Towels, face cloths.	84	126,471	83.437	83,437
Traps, game	Towels, sanitary	ger.	305,347	1,072,979	1,072,979
Traps, game	Toy animals	doz.	1,435		
Traps, game	Toy furniture		0,000	0, 1.54	0,434
Traps, game	Toy vehicles dolls carriages				
Traps, game	Toy vehicles—wagons, carts, coasters, etc.	1	-	4	297, 248
Traps, game	Toys, wooden	_	_	-	213, 462
Traps, game	Toys, n.s	_	-	_	45.484
Traps, game	Tractors, gasolens	No.			237, 189
Traps, game	Tractors, steam	16			14,000
Traps, steam	Tractors, n.s	4.4	3	6,389	0,389
Traps, game	Transporters.	115	262 460	100 412	1,700,082
Trousers. (See "Pants, etc.".)	Trans ourse	No.			101 037
Trousers. (See "Pants, etc.".)	Traps, steam	140.	031,000	103,001	
Trousers. (See "Pants, etc.".)	Trays, display, optical, etc.		_	_	
Trousers. (See "Pants, etc.".)	Trays, communion	No.	500	2,500	
Trousers. (See "Pants, etc.".)	-Trays, laundry, cement	_	-		18, 192
Trousers. (See "Pants, etc.".)	Tricycles	No.	48,551	273,080	273,080
Trousers. (See "Pants, etc.".)	Trimming, fur			-	242,919
Trousers. (See "Pants, etc.".)	Trimmings, dress and other		-		
	Troughs		700	-	58,855
Trunks of all kinds No. 92,906 788,482 788,482 788,482 Trunks of all kinds 389 43, 181 43, 181					102 220
Trussers. 3 580 43 181 43 181	Trunks of all kinds	No	92,906	788 482	788, 489
	Trussers.	3 32			43.181

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value,
			8	\$
Trusses, surgical Trusses, surgical supports, etc Tubes, bicycle Tubes, notorcycle. Tubes, collapsible, and other. Tubes, vacuum, X-ray, etc., not inc. radio tubes. Tubing, carriage Tubing, rubber, n.s Tubing, steel Tubing, steel Tubing, steel Tubing, steel, bed-spring. Tubing and wristing, glove. Tubs, butter and ice-cream Turbines and water wheels. Turnang, wood. Turpentine Twinns—	No.	246	2,588	2,588
Trusses, surgical supports, etc.	- 66	23,150 207,747	46, 678	46,678
Tubes, Dicycle	44	22,394	91.010 23.633	91,010 23,633
Tubes, collapsible, and other	gr.	105,388	381,359	381,359
Tubes, vacuum, X-ray, etc., not inc. radio tubes	_	pro-	-	149, 207
Tubing, carriage	lb.	65,734	10,009	10,009
Tuting copper	and .	3,973 370.718	1,907 27,285	1.907 38,374
Tubing, runner, a.s.,	yd. lb.	5,682,433	534,834	534.834
Tubing, steel, bed-spring.		-	-	425, 437
Tubing and wristing, glove	lb.	25.659	14.483	14,483
Tutes, butter and ice-cream	_	-		4,000 2,237,67I
Turning wood	_	_		310,707
Turpentine	U.S. gal.	30,586	14,400	14,400
Twines—				
All hemp	lb.	1,006,348	245,523	245,523
Twines— All hemp All cotton All jute Other  Twine and cordage Type and type metal Typesetting Typeswriter ribbons Typewriters.	1.6	133.919 2.384.891	102,333 387,331	102,333 387,331
Other	66	13,978	6,989	28.6.421
Twine and cordage	8.6	3,312.883	1,412,329	1,412,329 253,619
Type and type metal	44	3,312,883 2,475,724	253,619	253,619
Typesetting		** 000	200 070	418,537
Typewriter ribbons	doz.	52,380 4,262	205,973 245,037	205,973 245,037
Typewriters	No.	1,202	490,001	440,007
Umbrellas	dos.	53,708	981,307	981,307
Umbrellas Undertukers' supplies, n.s	-	-	to.	897,067
Underwear-		140 401	0.040.010	0.010.110
Combination, all cotton	doz.	412,401 42,902	3,848,648 1,030,058	3,848,648 1,030,058
Combination, marino and mixed	64	97, 975	1,810,222	1,810,222
Combination, silk or silk mixed	84	11,400	137.479	137, 179
Combination, all wool. Combination, merino and mixed. Combination, silk or silk mixed. Combination, artificial silk Separate, all cotton.	44	151.995	137,479 1,053,283	1,003,283
Separate, all cotton	44	1,384,782	5,693,825	5,693,825
Separate, all wool.	66	125, 161	1,456,079	1,456,079
Separate, merino and mixed	64	189,970 4,126	1,826,150 50,298	1,826,159
Separate artificial silk	64 .	305.839	2,976,553	50,298 2,976,553
Not specified	66	-	-	3,689,340
Uniforms, firemen's duty coats		0.707	77 100	14,908
Separate, all cotton Separate, all wool Separate, userino and mixed Separate, silk or silk nixed Separate artificial silk Not specified Uniforms, fremen's duty coats Uniforms, hospital, and hospital garmenta.	doz.	3,535 550	65,400	104,242
Uniforms, military and athletic	_	- 000	17,000	17,000 201,540
Uniforms, n.s.	-	-	-	575
Upholstering	_			4,997,059
Uniforms, maids and writers Uniforms, military and athletic Uniforms, military and athletic Uniforms, n.s. Upholstering Upholstering material, n.e.s.	-	-		29,766
Valises Valves, brass and bronze. Valves, gaskets and washers. Valves, iron Varnishes, oil Viscs. Vaults, burial, cement. Vaults, burial, steel. Vagetables, cunned.—	No.	63.177	184, 116	184,116
Valves, brass and bronse		VU, 111	201,110	1,791,701
Valves, gaskets and washers.		-	-	26,350
Valves, iron	No.	23,362	598,378	881, 222
- Varnishes, oil	gal.	2,933,948	5,073,940	5,073.940
Vulta hurial coment		-	_	6,733 8,619
Vaults, barial, steel	_	_	_ 1	50, 540
Vegetables, canned-				
Beans, baked	08668	1,246,356	3,358,940	3,358,940
Beans, green or wax.	46	216,802 917,846	643,845 2,300,146	843,845 2,300,446
Ponu	46	1,432,806	2,536,556	2,536,556
Tomatoes	4.6	1,864,956	4,288,849	4,288,849
Other	46	205,694	571,245	651,342
Velours and plushes. (See "Woollen cloth".)				70× 004
Vencer			7	738,291 375,947
Vieto fanov		-	And And	48, 433
Vests, leather	doz.	8,165	135,040	135,040
Vests, men's	_	-	-	91,816
Vinegar	gal.	4,396,866	1,506,589	1,506,589
Vauits, burnd, steel. Vegetables, cunned— Beans, baked. Beans, green or wax. Corn. Peas. Tomatoes. Other Velours and plushes. (See "Woollen cloth".) Veneer Veneer panels. Vests, leather. Vests, men's. Vinegar. Vinegar. Vinegar. Visors.	_	-	-	37,987
Wafers, ice cream				17,197

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.	
			\$	. 3	
Wagons, complete	No.	5,433	243.126	243,126	
- Wallboard, asbestos		-	-	16.552	
- Wallboard, gypsum	lb.	6,140,735	399,148	1,009,693 ··· 399,148 ···	
Wagons, complete  -Wallboard, asbestos  -Wallboard, gypsum  -Wall coating, gypsum  Wall paper. (See "Paper".)  -Wall plaster, gypsum  Washbourds  Washers, metal  Washers, leather  Washing compounds  Wasters	ID.	0,140,733	388, 140	555, 130	
-Wall plaster, gynsum	ton	27,729	311,961	311.961 -	
Washboards	No.	215,043	121,166	121,166 107,279 28,827	
Washers, metal		do	~	107,279	
Washers, leather				299,994	
Waste ~	_			200,001	
Cotton	lb.	14,859,951	807,061	808.664	
Cotton and wool	64	12,327,327	1,345,945	1,468,845	
		947.247	206,476	211,982 236,893	
Wool and noils Not specified Waste, sawmill and other wood waste	10.	921,421	200,470	46.088	
Not specified	_	6	-	512.017	
Waste, sawmill and other wood waste	-			41,766	
Water, distilled	-	-	-	16,750	
Water, distilled Water, mineral, natural	_	_		261.977 9,730,250	
Watches and watch cases				705,389	
Water, merated Water, neerated Watches and watch cases Waterproof clothing. (See "Clothing".) Wax, parafin Wax, senling Wentherstrip Welbling, automobile Webbing, duck and jute Webbing, elastic and non-elastic.					
Wax, paratfin	lb.	15,883,074	535,814	549,757	
Wax, scaling	-	_	-	31,278 173,784	
Waldang automobile	_	_		43,380	
Welding duck and jute	0.00	-	-	7,202	
Webbing, elastic and non-elastic	lb.	880,158	1,089,674	1,478,649	
Weeders	No.	2,112 651,349	127,803 247,699	127,803 247,699	
Weed killer (chemical)	gal.	951,349	247,099	105,080	
Webbing, clastic and non-elastic Weed killer (chemical) Wisking apparatus and accessories Wolting Wheelbarrows and parts Wheels, automobile Wheels, disc, for toy carts Wheels, rnilway car Wheels, n.s. Whey Whip lashes Whips			- 1	243,027	
Wheelbarrows and parts.		am.		159,605	
Wheels, automobile	No.	452,124	1,863,502	1,863,502	
Wheels, disc, for toy earts	No.	461,471	4,276,449	32,290 4,292,045	
Whools nu	140,	30,256	68, 155	68, 155	
Whey	_		-	3.978	
Whip lashes	-	000 000	01 710	7,250 61,518	
Whips.	No.	232,096 12,216,326	61,518 35,894,597	35,894,597	
Whisks	pr. gai.	36,958	82,628	82,628	
White, satin	1b.	986,700	14,678	14,678	
Windbreakers. (See "Coats".)	37.	1 500	00.290	99,380 -	
Window Minds and shades / See "Shades"	No.	1,529	99,380	55,000	
Wine fermented	gal,	4,351,123	3,531,290	3,531,290	
Wine, unfermented		-	-	1,425 105,731	
Wines, medicated	11.	2 200 100	505.728	505,728	
Whip lashes. Whips. Whips. Whisks Whisks White, satin. Windbreakers. (See "Coats".) Windmills Window blinds and shades. (See "Shades".) Wine, fermented. Wine, unfermented. Wines, medicated Wiping cloths and rugs -Wire, barbed -Wire, lare, copper. Wire, tare, copper. Wire, cold rolled, flatWire, galvanized. Wire, nitlinery. Wire, nitlinery. Wire, nitlinery. Wire, nitlest, silverWire, conted, other, n.sWire, plain.	lb.	3,299,199 22,108,020	709, 212	709,212	
-Wire, hare, copper	и	1,639,296	302,969	302,969 -	
-Wire, brass	11	75,865	21.977	21,977	
-Wire, cold rolled, flat	44	471,935 35,007,350	33,933	33,933 1,441,320	
- Wire, galvanized		30,007,300	1,441,320	9 257	
Wire, nickel, silver	_	-	-	4,712	
- Wire, coated, other, n.s	lb.	8,048,407	400,784	400,784	
_ Wire, plain		84,099,080	2,783,812	2,838,095	
Wire, welding	sq.ft.	262,934 2,204,401	32,222 1,073,045	32,222 1,077,045	
Wire cloth, prass	SQ. 10.	a, 201, 101	-	2.900	
Wire cloth, iron and steel	_	_	-	499,789	
-Wire notting	-	6~	-	321,711 90,846	
Wire shapes, garment hangers, baskets, etc	_		-	19,777,224	
Wire work, iron		-		64, 044	
wire, plant Wire, velding. Wire cloth, brass Wire cloth, copper. Wire cloth, iron and steel. Wire netting. Wire shapes, garment hangers, baskets, etc. Wires and cables. Wire work, iron. Wiring traterial, n.s. Wooden products, n.s.		-	-	261,745 2,083,344	
Wooden products, n.s.			100	2,083,344	
Woodenware, fi.s		-		40.043	
Wood flour				27,940	
Woodenware, n.s. Woodenware, kitchen, n.s. Wood flour. Wood preservation.		-	-	3,514,100	
Woodwork, sanitary and other, n.s	.[ _	-	-	509,538	

Item.	Unit of Measure.	Quantity Reported.	Value of Quantity Reported.	Total Value.
Wool Wool, pulled Woollen cloth—overcoatings, closkings, jerseys,	lb.	1,489,341 1,045,433	\$ 708,398 461,148	\$ 708,39 461,14
ete Woollen cloth—velours and plushes. Woollen cloth—flannels for underwear. Woollen cloth, n.s.	lin. yd. sq. yd.	700,000 374,206	1,500,000 121,033	8,342,92 1,500,00 121,53 358,48
Wrenches and spanners. Wringers, clothes. Wringers, mop.	No.	40,016	220,944	45,140 220,94 22,46
Yarn, bleached and dyed, cotton Yarn, grey, cotton Yarn, cotton, n.s.	ib.	3.572,875 23,836,037 927,026	1,499,933 9,700,637 286,730	1,499,93 9,700,63 286,73
Yarn, cotton and merino	и	20,000 544,372	17,000 06,472	17,000 96,47
Yarn, woollen. Yarn, worsted. Yeast Yeast and yeast food.	lb.	6,106,179 6,369,625 10,433,438 1,400,291	3,290,135 6,930,963 1,696,694 144,911	3,290,133 6,930,96 1,613,28 154,73
Zine	44	949,086	69,702	121,63 5,75
Oustom work and repairs— Vegetable products group		-		1,38
Animal products group.  Textiles and textile products group.		-		703,36 2,806,02
Wood and paper products group		1 -	_	3,130,42 19,200,71
Non-ferrous metal products group.  Non-metallic mineral products group.  Chemicals and chemical products group.		-	-	1,599,26 23,19
Miscellaneous industry group.		-		69,62 1,058,48
All other products, not specified— Vegetable products group		-04		1,990,69
Animal products group.  Textiles and textile products group.	-			1,277,46 663,11
Wood and paper products group		-	to to	7,604,19 33,019,29
Non-netallic mineral products group		-		1,832,80 1,679,99
Chemicals and chemical products group.  Miscellaneous industry group.	_	-	100	2,703,73 3,482,48
Total				3,769,859,36





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