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CANADA—DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
MINING, METALLURGICAL AND CHEMICAL BRANCH



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MANUFACTURES OF THE NON-METALLIC MINERALS IN CANADA

MAR 9 1955

1930-1932



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



OTTAWA
J. O. PATENAUDE
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NOTES ON STATISTICS OF PRODUCTION

In the collection of production data, the Dominion Bureau of Statistics makes a division between primary and secondary production. In the first-named class there are separate sections for the collection of statistics on (a) **Agricultural Products**, (b) **Furs**, (c) **Fish**, (d) **Forest Products**, (e) **Mineral Products**.

In the second are included (a) **Manufacturing** and (b) **Construction**.

Manufacturing is subdivided into nine groups of industries, producing concerns being classified according to the principal component material of their major products. For example, manufactures of leather goods are classified under "Animal Products"; the pulp and paper industry under "Wood and Paper," etc. An outline of the scheme of classification in use for manufacturing industries is given below:—

Manufactures of:

- (1) **Vegetable Products**, including—Coffee and Spices; Cocoa and Chocolate; Preserved and Canned Products; Pickles, Vinegar and Cider; Flour and Cereals; Bread and other Bakery Products Macaroni and Vermicelli; Distilled and Brewed Liquors and Wines; Rubber Products; Starch and Glucose; Sugar; Tobacco Products; Linseed Oil and Oil Cake.
- (2) **Animal Products**, including—Fish and Fish Products; Dairy Factory Products; Meat and Meat Products; Leather and Leather Products; Furs and Fur Products.
- (3) **Textiles and Textile Products**, including—Cotton Textiles (Cloth, Yarn, Thread and Waste); Woolen Textiles (Cloth, Yarn, Blankets; Felt and Waste); Silk Products; Factory-Made Clothing; Carpets, Rugs and Mats; Cordage, Rope and Twine.
- (4) **Wood and Paper**, including—Pulp and Paper Mill Products, Paper Goods; Printing, Publishing and Lithographing; Saw and Planing Mill Products; Furniture; Carriages, Wagons and Sleighs; Wooden Containers; Woodenware; Turned Wood Products; and the Output of Similar Wood-Using Industries.
- (5) **Iron and Steel and Their Products**, including—Pig Iron and Ferro-Alloys; Steel and Rolled Products; Castings and Forgings; Boilers, Tanks and Engines; Agricultural Implements; Machinery; Automobiles; Auto Parts and Accessories; Bicycles; Railway Rolling Stock; Wire and Wire Goods; Sheet Metal Products; Hardware and Tools; Miscellaneous Iron and Steel Products; Bridge Building and Structural Steel.
- (6) **Manufactures of the Non-Ferrous Metals**, including—Aluminium Products; Brass and Copper Products; Lead, Tin and Zinc Products; Jewellery and Silverware; Electrical Apparatus and Supplies; Miscellaneous Non-Ferrous Metal Products; Non-Ferrous Smelting and Refining.
- (7) **Manufactures of the Non-Metallic Minerals**, including—Aerated Waters; Asbestos Products; Cement, Cement Products; Coke and Gas; Glass (blown, cut, ornamental, etc.); Lime; Petroleum Products; Products from Domestic Clays; Products from Imported Clays; Salt; Sand-Lime Brick; Stone, Monumental and Ornamental; Artificial Abrasives and Abrasive Products; Miscellaneous Non-Metallic Mineral Products, including (a) Artificial Graphite and Electrodes, (b) Gypsum Products, (c) Mica Products, (d) Magnesite Products, (e) Miscellaneous Non-Metallic Mineral Products, n.e.s.
- (8) **Chemicals and Allied Products**, including—Coal Tar Distillation; Acids, Alkalies and Salts; Compressed Gases; Explosives, Ammunition and Fireworks; Fertilizers; Medicinal and Pharmaceutical Preparations; Paints; Pigments and Varnishes; Soaps and Washing Compounds; Toilet Preparations, Inks; Adhesives; Polishes and Dressings; Flavouring Extracts; Wood Distillation; Miscellaneous Chemical Products including: (a) Baking Powder, (b) Boiler Compounds, (c) Celluloid Products, (d) Insecticides, (e) Sweeping Compounds, (f) Disinfectants, (g) Matches, (h) Dyes and Colours, (i) Miscellaneous Chemical Products, n.e.s.
- (9) **Miscellaneous Products**, including—Brooms and Brushes; Electric Light and Power; Musical instruments, etc.

The statistics of manufactures are also classified according to the **use** or **purpose** of the end product as follows:—

- (1) **Food**, including—Breadstuffs; Fish; Nuts; Fruits and Vegetables; Meats; Milk Products; Oils and Fats; Sugar; Infusions; Miscellaneous.
- (2) **Drink and Tobacco**, including—Beverages, alcoholic; Beverages, non-alcoholic; Tobacco.
- (3) **Clothing**, including—Boots and shoes; Fur Goods; Garments and Personal Furnishings; Gloves and Mitts; Hats and Caps; Knitted Goods; Waterproofs; Miscellaneous.
- (4) **Personal Utilities**, including—Jewellery and Time-Pieces; Recreational Supplies; Personal Utilities, n.e.s.
- (5) **House Furnishings**.
- (6) **Books and Stationery**.
- (7) **Vehicles and Vessels**.
- (8) **Producers' Materials**, including—Farm Materials; Manufacturers' Materials; Building Materials; General Materials.
- (9) **Industrial Equipment**, including—Farming Equipment; Manufacturing Equipment; Trading Equipment; Service Equipment; Light, Heat and Power Equipment; General Equipment.
- (10) **Miscellaneous**.

PREFACE

The importance to Canada of the manufacturing industries which use non-metallic minerals as their principal raw materials is indicated by the fact that, in 1932, the 1,182 factories in this group gave employment to 20,342 persons and produced goods valued at \$147,765,618. Petroleum refining, coke and gas making, the manufacture of Portland cement, building brick, glass, abrasives, and other important industries are in this group.

The decline in production value of about 19 per cent in 1932 was quite a severe one, the total value being \$147 millions compared with \$181 millions in 1931. Inactivity in construction was an important factor in this recession as a large number of the industries in this group manufacture building materials. The drop from 1929, the record year, has been about 40 per cent in value of output and 35 per cent in the number of employees.

This report presents detailed statistics concerning the manufactures of the non-metallic minerals for the years 1930, 1931 and 1932 and brings up-to-date, in printed form, the records which were begun in 1919.

Production values throughout this report represent the selling values at factories. The value of imports is the "fair market value when sold for home consumption in the principal markets of the country whence and at the time when the same was exported directly to Canada." The value of exports is "the actual cost or the value at the time of exportation at the points in Canada whence originally shipped."

Attention is directed to the note on the preceding page which outlines the Bureau's classification of industries for the collection of production statistics.

Directories of the reporting firms have been omitted for the industries in which there are a large number of companies. Such lists have been published in the preliminary mimeographed bulletins and may be obtained by writing to the Bureau.

This report has been prepared by Mr. Harold McLeod, B.Sc., under the direction of Mr. W. H. Losee, B.Sc., Chief of the Mining, Metallurgical and Chemical Branch of the Bureau.

R. H. COATS,
Dominion Statistician.

DOMINION BUREAU OF STATISTICS,
OTTAWA, October 12, 1933.

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DOMINION BUREAU OF STATISTICS

R. H. COATS, B.A., F.S.S. (Hon.), F.R.S.C., Dominion Statistician.

W. H. LOSEE, B.Sc., Chief of the Mining, Metallurgical and Chemical Branch.

MANUFACTURES OF THE NON-METALLIC MINERALS IN CANADA, 1932

CHAPTER ONE

GENERAL REVIEW

Continuing the decline which began in 1930, the manufactures of the non-metallic minerals in Canada dropped a further 18.6 per cent in 1932 when production was reported at \$147,765,618 at factory selling prices. In the previous year, 1931, the output was valued at \$181,431,906, in 1930 at \$216,812,827 and in 1929 at \$242,023,518.

A number of industries in this group such as cement, cement products, clay products, sand-lime brick, lime, stone dressing, gypsum products, etc., produce materials for the building and construction trades and have been very severely affected by the quietness in this field during the past few years. Construction awards in 1932 totalled only \$133 millions compared with \$577 millions in 1929. On the other hand the two most important industries, coke and gas and petroleum refining, produce goods for which the demand is fairly constant and the relative stability of these industries has somewhat counterbalanced the serious losses in other groups. On the whole the recession from 1929, the record year, has been about \$94 millions or 40 per cent, but the 1932 value still was slightly higher than the totals for the years 1921 to 1925 inclusive. The number of employees, however, was the lowest since records were commenced in 1919.

For the presentation of statistics the firms which use non-metallic minerals as their chief materials in manufacturing have been divided into 15 different industries according to the nature of the main products made. Only one of these, the salt industry, showed a gain in output value in 1932, the production being valued at \$1,947,551 as against \$1,904,149 in 1931. Losses in the other industries ranged from about 70 per cent in sand-lime brick and abrasives to 5 per cent in coke and gas. The percentage drop in each case was as follows:—Sand-lime brick, 71 per cent; abrasives, 69 per cent; cement, 56 per cent; cement products, 53 per cent; products from domestic clays, 53 per cent; stone dressing, 51 per cent; products from imported clays, 35 per cent; miscellaneous, 26 per cent; asbestos products, 18 per cent; aerated waters, 15 per cent; glass, 15 per cent; lime, 14 per cent; petroleum products, 6 per cent; and coke and gas, 5 per cent.

The number of individual factories in operation in 1932 was 1,182 or 7 per cent less than in 1931 but the decrease was chiefly in small plants in the cement products, stone dressing and clay products industries which did not operate during the year. Capital employed declined \$16 millions to \$312,569,679; the number of workers decreased by 4,553 to 20,342, salaries and wages were less by \$7.7 millions at \$24,479,677; the cost of materials was \$74,358,159 or \$4.6 millions less than in 1931, and the value added by manufacturing at \$73,407,459 was \$29 millions lower than in 1931.

Measured by production value, petroleum products was the leading industry and accounted for about 49 per cent of the total output for the entire group. Coke and gas was next at 20 per cent of the total, followed in order by aerated waters, glass, cement, products from domestic clays, stone dressing, miscellaneous, lime, salt, cement products, products from imported clays, abrasives, asbestos products, and sand-lime brick.

According to capital employed the coke and gas industry was of most importance with an investment of \$93,534,495. Petroleum products came next with \$69,475,860; cement mills reported \$55,294,814; products from domestic clays, \$25,347,582; glass, \$14,281,044; and aerated waters, \$12,640,708. The total capital for the entire group was \$312,569,679 of which \$238,589,314 was the value of lands, plants and equipment, \$25,909,726 was the value placed on materials in process and supplies on hand, \$21,603,574 was the inventory value of finished products on hand, and \$26,467,065 was the total for cash, accounts receivable, prepaid expenses, etc.

From the standpoint of employment, the petroleum products industry was again first in importance with a payroll of 4,116 in 1932. Coke and gas plants employed 3,639 persons; glass, 2,608; aerated waters, 2,302; manufactures of domestic clays, 1,740; cement, 1,216; and stone dressing, 1,003. For all of the industries in this group the average number of employees was 20,342 including 3,834 on salaries and 16,508 on wages. Payments for salaries aggregated \$6,869,821 and for wages, \$17,609,856.

Most of the factories in this group were in Ontario and Quebec. Of the 1,182 establishments in operation in 1932 there were 586 or 50 per cent in Ontario and 280 or 24 per cent in Quebec. Ontario's plants produced commodities worth \$70,857,303 or 48 per cent of the total for Canada, and Quebec's output was worth \$39,714,694 or 27 per cent of the total. British Columbia ranked third with 79 establishments and an output worth \$11,357,569. Nova Scotia reported 53 plants which made non-metallic mineral products worth \$7,421,888; Alberta was next with production valued at \$7,328,792 from 46 factories; the 36 works in Saskatchewan produced commodities worth \$6,373,452; New Brunswick had 45 establishments with an output worth \$762,966; and the 4 concerns in Prince Edward Island reported a total production worth \$37,513.

About 78 per cent of the employees in 1932 worked in Ontario and Quebec. Of the 20,342 workers in 1932, there were 10,641 in Ontario, 5,149 in Quebec, 1,328 in British Columbia, 895 in Alberta, 883 in Nova Scotia, 719 in Manitoba, 455 in Saskatchewan, 258 in New Brunswick and 14 in Prince Edward Island.

Expenditures for fuel and electricity by the 1,181 factories in this group amounted to \$10,513,405 in 1932. Electricity alone cost \$2,206,909; bituminous coal cost \$2,623,210 for 316,767 tons of imported and 181,205 tons of Canadian coal; coke cost \$674,698 for 134,189 tons; anthracite coal cost \$44,191 for 5,764 tons and lignite coal \$25,271 for 5,669 tons. Fuel oil consumption, chiefly in petroleum refineries, amounted to 57,179,219 gallons at a cost of \$1,911,907. Manufactured gas cost \$2,290,609 for 10,497,323 M cubic feet, this quantity including still gas used in petroleum refineries and coal gas used in the producing coke and gas plants. Natural gas cost \$413,204 for 1,870,678 M cubic feet. Concerns in Ontario expended \$5,696,195 for fuel and electricity while firms in Quebec spent \$2,856,011 for the same purpose.

Imports into Canada of non-metallic minerals and their products totalled \$95,341,195 in 1932 as compared with \$106,087,909 in 1931; the United States supplied \$69,497,632 or 73 per cent and the United Kingdom, \$12,277,310 or 13 per cent. Imports of petroleum, asphalt and their products were valued at \$43,472,870 and coal and its products were worth \$34,660,474.

Exports of this class of goods from Canada during 1932 were appraised at \$9,657,909 of which \$5,461,582 went to the United States and \$1,287,089 to the United Kingdom. In 1931 exports totalled \$14,976,873. Exports of asbestos and its products were valued at \$3,176,752, coal and its products at \$1,960,810, stone and its products at \$2,016,614, and petroleum and its products at \$1,289,459. Re-exports of imported goods amounted in value to \$406,337 in 1932 and \$716,101 in 1931 including clay products, coal, glass, etc.

Table 1.—Principal Statistics of the Manufactures of the Non-Metallic Minerals in Canada, by Industries, 1928-1932

Years	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity \$	Cost of materials at works \$	Selling value of products at works \$	Value added by manufacturing \$
AERATED WATERS								
1928	347	11,650,038	1,967	2,407,881	133,401	4,705,658	10,677,811	5,972,175
1929	345	12,756,026	2,174	2,551,456	137,210	4,576,027	12,249,218	7,673,191
1930	385	11,931,798	2,440	3,014,451	145,582	3,667,202	13,550,407	9,883,205
1931	402	13,923,371	2,440	3,007,861	152,814	3,300,776	13,091,353	9,763,577
1932	398	12,640,708	2,302	2,682,099	151,912	2,760,548	11,067,886	8,307,338
ARTIFICIAL ABRASIVES AND ABRASIVE PRODUCTS								
1928	12	7,317,105	691	1,048,521	614,557	2,169,428	7,122,589	4,953,160
1929	12	6,683,533	828	1,270,898	873,068	2,905,928	8,961,951	6,056,023
1930	13	6,251,425	799	1,156,611	815,901	2,313,310	6,450,351	4,137,041
1931	14	6,070,652	691	982,820	610,815	1,709,983	4,857,914	3,147,931
1932	14	5,865,031	388	519,013	480,601	449,624	1,489,555	1,039,931
ASBESTOS PRODUCTS								
1928	14	3,031,104	345	421,448	72,421	925,601	2,050,432	1,124,771
1929	12	2,949,712	351	359,433	80,902	1,348,460	2,286,638	938,178
1930	11	2,316,645	306	401,490	77,082	1,327,025	2,301,224	974,890
1931	13	1,112,141	240	302,638	57,339	729,771	1,308,183	578,412
1932	13	2,682,892	279	280,953	67,732	559,673	1,067,801	508,128
CEMENT PRODUCTS								
1928	151	4,110,543	1,262	1,466,508	73,825	1,261,653	4,136,955	2,875,362
1929	153	5,024,497	1,347	1,609,238	84,130	1,502,952	4,419,417	2,916,465
1930	140	5,157,051	1,252	1,414,013	86,188	1,261,910	3,718,704	2,456,704
1931	157	5,091,227	1,166	1,296,250	83,032	1,245,483	3,807,188	2,561,705
1932	118	4,461,571	710	681,371	57,072	697,483	1,771,297	1,073,814
COKE AND GAS								
1928	45	92,145,190	3,914	5,698,770	2,073,739	17,164,246	34,708,447	17,544,201
1929	43	91,719,062	3,002	5,038,814	2,628,711	18,517,214	39,910,415	21,303,229
1930	41	89,987,235	3,970	5,861,802	2,384,300	17,082,364	36,592,859	19,510,495
1931	41	95,872,858	4,093	5,616,763	1,992,266	13,894,091	31,249,490	17,355,399
1932	42	93,534,495	3,639	4,897,746	2,223,414	12,241,698	29,812,650	17,570,952
GLASS								
1928	59	12,694,892	3,219	3,878,165	1,091,311	4,791,489	13,565,354	8,773,868
1929	60	16,289,304	3,918	4,740,670	1,323,150	5,355,150	15,507,442	10,152,286
1930	62	15,992,392	3,388	4,205,536	990,891	4,213,885	12,191,752	7,977,897
1931	66	11,873,963	2,956	3,564,192	822,091	3,589,570	9,937,411	6,360,841
1932	63	14,281,044	2,698	2,990,987	765,685	3,155,579	9,609,895	5,344,316
PETROLEUM PRODUCTS								
1928	25	56,531,654	4,310	6,922,580	3,447,782	57,383,841	83,122,172	25,738,331
1929	25	71,260,459	4,978	8,153,625	3,751,055	76,861,939	99,498,314	22,546,375
1930	28	70,331,331	5,131	8,190,130	3,868,544	71,800,429	91,787,205	19,986,776
1931	32	68,139,281	4,122	6,214,745	3,378,599	50,617,742	76,158,644	25,540,902
1932	31	69,478,860	4,116	5,980,681	3,345,651	52,237,397	71,697,757	19,460,370
PRODUCTS FROM IMPORTED CLAYS								
1928	14	3,068,592	696	891,125	195,716	708,571	2,458,801	1,750,230
1929	15	3,472,052	872	1,112,881	220,910	992,150	3,373,038	2,380,888
1930	15	4,099,965	841	1,052,286	196,135	834,181	2,978,143	2,143,962
1931	14	4,320,382	832	958,990	176,902	665,705	2,155,738	1,760,032
1932	16	4,207,797	715	707,269	149,779	400,411	1,590,411	1,183,970
SAND-LIME BRICK								
1928	11	1,916,630	281	352,311	92,749	322,027	1,112,466	790,430
1929	12	2,356,726	304	341,005	68,039	264,465	953,726	689,261
1930	11	2,165,392	225	265,091	51,478	215,921	671,301	455,380
1931	11	1,490,453	183	207,570	43,461	191,572	540,390	348,818
1932	6	759,211	75	74,521	14,872	40,106	153,716	104,410
STONE DRESSING								
1928	222	6,305,519	1,686	2,578,707	195,833	2,460,909	7,176,035	4,715,135
1929	220	7,107,132	1,893	3,048,081	119,508	2,788,931	8,224,060	5,435,126
1930	226	7,468,687	1,919	3,014,977	147,459	2,759,870	8,355,605	5,595,735
1931	223	6,880,835	1,436	2,145,023	136,135	1,770,559	5,989,372	4,218,813
1932	206	5,828,109	1,093	1,200,214	108,053	928,572	2,961,014	2,033,342
MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS								
1928	17	8,331,509	995	1,117,773	315,887	1,790,404	4,799,640	3,009,236
1929	23	9,747,157	982	1,224,592	262,694	2,035,995	6,000,697	3,964,792
1930	24	11,497,039	784	925,110	226,830	1,730,577	4,174,602	2,444,025
1931	31	8,427,192	582	715,468	218,091	1,293,513	3,727,158	2,523,915
1932	31	7,591,615	531	531,441	161,407	872,018	2,759,709	1,887,661
Total for all Industries Listed Above								
1928	917	207,165,677	19,375	26,693,778	8,217,248	33,683,873	170,939,721	77,216,848
1929	929	232,395,759	21,549	31,351,692	9,571,980	117,149,139	201,291,914	84,145,814
1930	952	238,874,989	21,058	29,564,529	8,990,399	107,296,674	182,772,855	75,566,179
1931	1,001	228,189,265	18,651	25,012,230	7,671,338	78,915,766	153,095,811	71,159,045
1932	934	221,298,326	16,361	21,528,194	7,529,298	71,358,159	132,842,591	58,184,433

Table 1.—Principal Statistics of the Manufactures of the Non-Metallic Minerals in Canada, by Industries, 1928-1932—Concluded

Years	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity \$	Cost of materials at works \$	Selling value of products at works \$	Value added by manufacturing \$
PRODUCTS FROM DOMESTIC CLAYS								
1928	186	32,473,203	5,105	5,181,398	2,294,350	.....	12,381,718	12,381,718
1929	196	34,190,056	5,530	5,719,014	2,020,384	.....	13,904,643	13,904,643
1930	203	33,430,777	5,026	4,961,130	1,922,606	.....	10,593,578	10,593,578
1931	189	33,819,194	3,259	3,511,250	1,486,438	.....	7,841,288	7,841,288
1932	164	25,347,592	1,740	1,576,586	579,803	.....	3,650,218	3,650,218
CEMENT								
1928	11	47,678,841	2,407	3,405,385	3,872,108	.....	16,739,163	16,739,163
1929	11	50,881,818	2,546	3,523,595	4,317,219	.....	19,337,235	19,337,235
1930	11	59,210,737	2,317	3,172,198	4,120,367	.....	17,713,067	17,713,067
1931	12	57,378,436	1,820	2,432,950	3,280,870	.....	15,826,243	15,826,243
1932	12	55,294,814	1,216	1,344,772	1,701,125	.....	6,930,721	6,930,721
LIME								
1928	51	6,952,079	1,218	1,316,415	912,395	.....	4,534,568	4,534,568
1929	53	7,404,677	1,382	1,393,092	1,183,313	.....	5,908,610	5,908,610
1930	50	8,816,879	1,086	1,087,778	886,351	.....	4,038,698	4,038,698
1931	60	7,289,000	709	785,868	612,278	.....	2,704,415	2,704,415
1932	60	6,823,040	677	575,072	535,433	.....	2,394,537	2,394,537
SALT								
1928	10	4,422,922	455	539,775	252,468	.....	1,495,971	1,495,971
1929	8	4,576,543	423	516,453	249,664	.....	1,578,086	1,578,086
1930	8	4,685,519	381	455,539	197,313	.....	1,694,631	1,694,631
1931	7	4,196,027	363	446,984	184,001	.....	1,904,149	1,904,149
1932	8	3,805,008	345	455,049	176,936	.....	1,947,551	1,947,551
Total of Mineral Industries Listed Above								
1928	261	91,527,045	9,275	19,442,673	7,331,321	.....	35,151,429	35,151,429
1929	268	97,053,091	9,882	11,152,151	8,709,589	.....	40,728,574	40,728,574
1930	272	106,143,942	8,810	9,676,619	7,126,610	.....	31,039,974	31,039,974
1931	268	103,684,517	6,211	7,297,052	5,563,587	.....	28,336,095	28,336,095
1932	241	91,271,353	3,978	3,951,479	2,933,197	.....	14,923,927	14,923,927
GRAND TOTAL								
1928	1,178	288,693,122	28,650	37,436,451	15,548,569	83,683,823	206,082,141	142,398,268
1929	1,188	329,448,811	31,431	41,593,846	18,272,560	117,149,139	242,023,518	124,874,388
1930	1,234	336,018,932	29,868	39,241,465	16,117,030	107,206,674	216,842,827	109,606,153
1931	1,272	328,823,782	24,895	32,219,282	13,235,125	78,915,766	181,431,996	102,486,110
1932	1,182	312,569,679	20,342	24,479,677	10,513,405	74,358,159	147,765,618	73,407,459

NOTE.—Statistics on Salt, Lime, Cement and Manufactures from Domestic Clays are also included in totals of the Mineral Production of Canada as published annually by the Dominion Bureau of Statistics.

GENERAL REVIEW

Table 2.—Principal Statistics of the Manufactures of the Non-Metallic Minerals in Canada, by Provinces, 1928-1932

Years	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity \$	Cost of materials at works \$	Selling value of products at works \$	Value added by manufacturing \$
PRINCE EDWARD ISLAND AND NOVA SCOTIA								
1928	52	27,080,980	1,176	1,501,313	670,271	8,971,708	14,611,043	5,639,335
1929	58	24,403,034	1,297	1,701,083	717,692	10,663,221	15,402,285	4,739,064
1930	63	17,845,094	1,391	1,754,641	602,602	9,049,972	12,741,892	3,891,920
1931	62	17,621,652	1,138	1,351,267	508,833	5,981,098	9,996,518	4,015,420
1932	57	16,511,242	897	1,037,382	457,590	4,848,125	7,459,401	2,611,276
NEW BRUNSWICK								
1928	41	1,094,731	334	331,723	71,951	222,310	853,476	631,166
1929	41	1,405,574	388	375,084	104,496	243,945	1,121,926	877,981
1930	47	1,537,939	404	375,743	100,352	257,816	1,156,535	898,719
1931	47	1,807,950	295	301,434	93,260	186,817	939,472	762,655
1932	45	1,923,311	258	243,064	66,133	172,692	762,966	590,274
QUEBEC								
1928	254	76,791,419	7,926	9,711,750	4,610,191	19,031,096	48,532,268	20,501,172
1929	249	82,298,831	8,298	10,546,463	4,918,939	26,137,403	54,684,907	28,647,604
1930	259	89,245,232	7,584	9,909,070	4,715,135	21,740,701	49,895,482	28,124,781
1931	280	94,198,992	6,541	8,466,890	4,316,852	16,990,350	46,939,594	29,949,244
1932	280	92,146,362	5,149	6,175,428	2,856,011	17,222,610	39,714,694	22,492,084
ONTARIO								
1928	637	130,185,263	14,197	10,088,109	7,942,665	42,433,900	96,995,773	54,561,873
1929	642	146,284,130	15,936	21,537,831	9,466,828	50,084,186	115,368,237	65,284,051
1930	640	152,393,947	15,330	20,402,225	8,128,562	46,846,026	103,164,181	56,318,155
1931	645	149,819,275	12,860	16,890,732	6,548,382	35,526,430	85,833,150	50,306,720
1932	586	141,308,091	10,641	13,050,771	5,696,195	34,051,497	70,857,302	36,805,805
MANITOBA								
1928	48	13,037,947	1,067	1,174,143	519,410	1,335,515	5,454,168	4,117,653
1929	51	16,190,352	1,156	1,338,847	917,365	1,665,571	7,500,021	5,934,459
1930	53	18,985,054	1,043	1,177,237	709,449	1,326,081	5,971,059	4,644,978
1931	55	14,480,104	814	936,260	429,510	1,309,338	4,624,968	3,315,030
1932	53	13,169,916	719	736,998	341,506	1,454,595	3,911,442	2,456,847
SASKATCHEWAN								
1928	34	7,308,473	692	975,696	420,505	6,546,164	11,111,638	4,565,474
1929	34	9,049,952	773	1,110,036	528,524	8,876,745	14,300,871	5,514,126
1930	38	7,737,830	700	942,741	525,080	7,353,985	11,485,957	4,132,272
1931	38	6,832,930	539	647,878	295,072	4,465,024	7,866,826	3,401,802
1932	36	6,204,460	455	604,663	296,790	4,883,575	6,373,452	1,489,877
ALBERTA								
1928	43	15,375,722	1,468	1,856,588	659,322	7,779,949	15,727,186	7,947,239
1929	43	18,623,714	1,574	2,074,263	717,042	9,708,887	17,746,774	8,031,887
1930	47	19,102,953	1,508	2,005,476	591,699	10,187,492	16,000,905	5,813,413
1931	50	18,474,373	1,104	1,415,846	477,582	6,820,152	11,642,445	4,822,293
1932	46	15,403,837	895	1,081,324	321,439	4,550,897	7,328,792	2,777,895
BRITISH COLUMBIA								
1928	69	27,818,587	1,790	2,497,129	654,254	7,303,231	12,797,587	5,434,356
1929	70	31,193,257	2,009	2,820,239	900,774	9,869,172	16,814,497	5,045,325
1930	87	20,170,863	1,908	2,673,123	737,742	10,444,901	16,426,816	5,981,915
1931	95	25,638,506	1,604	2,209,275	565,034	7,666,557	13,588,933	5,922,376
1932	79	25,902,460	1,328	1,550,047	477,741	7,174,188	11,357,509	4,183,401
CANADA								
1928	1,178	239,693,122	28,659	37,136,451	15,548,569	83,683,873	296,082,141	112,398,268
1929	1,188	221,448,844	31,431	41,593,816	18,272,589	117,119,139	212,023,518	121,874,388
1930	1,231	336,018,922	29,868	33,211,165	16,117,939	107,296,674	216,812,827	109,606,153
1931	1,272	328,873,782	21,895	32,219,282	13,335,125	78,945,766	181,431,966	102,486,140
1932	1,182	312,563,619	20,342	24,479,677	10,513,195	74,358,159	147,765,618	73,407,459

Table 3.—Principal Statistics of the Manufactures of the Non-Metallic Minerals in Canada, according to Production Values and Number of Employees, 1931 and 1932

	1931				1932			
	Total number of plants	Total capital employed	Total number of employees	Total value of products	Total number of plants	Total capital employed	Total number of employees	Total value of products
	No.	\$	No.	\$	No.	\$	No.	\$
(a) Production values								
Under 5,000.....	302	2,808,607	580	945,067	441	4,028,325	695	1,007,209
From 5,000 to 10,000.....	222	4,045,996	664	1,542,090	214	5,147,453	702	1,518,063
“ 10,000 to 25,000.....	239	7,518,071	1,293	3,799,302	211	9,721,240	1,230	3,294,095
“ 25,000 to 50,000.....	159	11,869,021	1,699	5,395,558	116	9,459,355	1,423	3,993,477
“ 50,000 to 100,000.....	92	12,444,436	1,973	6,053,249	71	15,204,993	1,728	5,167,426
“ 100,000 to 250,000.....	85	29,104,519	3,619	13,346,061	66	36,868,625	2,788	10,882,873
“ 250,000 to 500,000.....	29	28,683,225	2,252	10,005,872	28	36,118,761	3,394	14,796,899
“ 500,000 to 1,000,000.....	22	31,083,134	2,425	16,734,854	16	42,270,541	1,652	12,466,231
“ 1,000,000 to 5,000,000.....	25	128,420,879	5,611	50,011,163	12	82,487,658	2,183	36,447,873
Over 5,000,000.....	7	72,105,804	4,779	64,017,730	7	71,172,728	4,547	58,191,482
Total.....	1,272	328,873,782	24,895	181,431,906	1,182	312,569,679	20,342	147,765,618
(b) Number of Employees								
No.								
1 or 2.....	506	4,766,973	627	2,537,011	508	4,610,396	651	2,339,425
3 to 10.....	438	15,325,552	2,289	8,287,573	406	16,090,937	2,082	6,876,897
11 to 20.....	113	13,156,497	1,630	6,205,519	99	17,787,171	1,411	6,045,052
21 to 50.....	113	27,809,074	3,527	14,275,530	63	32,293,227	2,892	11,557,387
51 to 100.....	49	37,815,543	3,384	16,565,136	36	39,876,960	2,524	11,215,557
101 to 250.....	40	111,569,119	5,910	63,161,594	29	89,708,570	3,992	48,140,942
251 to 500.....	9	85,489,416	3,238	30,873,442	7	57,788,136	2,184	22,940,459
Over 500.....	4	52,942,608	4,290	39,530,101	4	54,414,282	4,606	38,649,899
Total.....	1,272	328,873,782	24,895	181,431,906	1,182	312,569,679	20,342	147,765,618

Table 4.—Principal Statistics of the Manufactures of the Non-Metallic Minerals in Canada, by Industries and by Provinces, 1932, with Comparative Totals for 1931 and 1930

NOTE.—According to the Statistics Act, the Bureau is not authorized to publish statistics which will in any way reveal the operations of individual concerns. Consequently, in the following table the number of plants is shown by provinces and by industries, but other data have been omitted in cases where only 1 or 2 concerns are involved. The totals for each province however, includes data for the industries in which there were only 1 or 2 plants in operation.

Provinces and industries	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
PRINCE EDWARD ISLAND—								
Aerated waters.....	2							
Stone dressing.....	2							
Total.....	4	114,851	14	11,612	750	15,212	37,513	22,301
NOVA SCOTIA—								
Aerated waters.....	27	309,414	83	67,875	6,043	74,151	198,067	123,916
Asbestos products.....	1							
Cement products.....	2							
Coke and gas.....	2							
Glass.....	1							
Lime.....	3	60,700	14	10,126	11,344		35,534	
Petroleum products.....	1							
Products from domestic clay.....	6	788,626	123	93,128	35,529		172,557	
Salt.....	1							
Stone dressing.....	9	106,776	30	30,255	2,951	37,489	105,618	68,129
Total.....	53	16,396,391	883	1,025,740	456,840	4,832,913	7,421,888	2,588,975
NEW BRUNSWICK—								
Aerated waters.....	21	531,043	72	72,768	4,434	76,380	274,111	197,731
Cement products.....	4	32,000	5	3,332	401	4,439	14,332	9,893
Coke and gas.....	2							
Glass.....	1							
Lime.....	4	207,391	52	46,401	25,845		109,181	
Petroleum products.....	1							
Products from domestic clays.....	5	252,603	52	36,059	10,695		68,151	
Stone dressing.....	6	72,807	24	24,919	1,922	9,611	51,343	41,732
Miscellaneous.....	1							
Total.....	45	1,923,311	258	243,061	66,133	172,692	762,966	599,274

Table 4.—Principal Statistics of the Manufactures of the Non-Metallic Minerals in Canada, by Industries and by Provinces, 1932, with Comparative Totals for 1931 and 1930—Continued

Provinces and industries	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
QUEBEC—								
Aerated waters.....	123	5,196,436	955	1,119,400	64,691	1,211,477	5,125,491	3,914,014
Abrasive products.....	1							
Asbestos products.....	5	2,168,947	206	179,170	58,538	414,913	725,011	310,093
Cement products.....	29	1,601,895	226	225,336	18,117	215,286	539,881	324,505
Cement.....	3							
Coke and gas.....	4	13,593,132	383	553,507	169,288	2,737,705	4,911,737	2,204,033
Glass.....	12	5,803,416	767	961,415	270,645	955,882	2,823,395	1,867,513
Lime.....	18	1,743,599	239	170,599	198,358		587,901	
Petroleum products.....	7	19,472,927	897	1,331,087	867,633	10,940,719	18,241,142	7,300,423
Products from imported clay.....	4	1,952,474	227	275,858	74,163	115,580	682,863	567,277
Products from domestic clay.....	20	7,625,855	365	327,831	142,400		1,064,551	
Sand-lime brick.....	2							
Stone dressing.....	42	1,018,236	205	224,692	32,117	157,480	504,295	340,815
Miscellaneous.....	10	4,143,542	208	232,653	83,177	399,887	1,101,523	701,636
Total.....	290	92,116,362	5,149	6,175,428	2,856,011	17,222,610	39,714,694	22,492,084
ONTARIO—								
Aerated waters.....	157	4,496,327	790	963,277	49,979	970,773	3,894,651	2,923,878
Abrasive products.....	13							
Asbestos products.....	6	486,615	56	84,298	8,888	127,353	290,256	162,903
Cement products.....	69	2,286,460	352	308,898	27,692	278,040	737,326	459,286
Cement.....	4							
Coke and gas.....	21	51,648,995	2,463	3,463,103	1,707,784	7,481,553	19,812,034	12,330,481
Glass.....	37	6,450,288	1,541	1,713,347	432,739	1,818,855	4,834,170	3,015,315
Lime.....	23	3,424,782	201	189,428	230,444		1,273,230	
Petroleum products.....	6	25,760,241	1,943	2,770,767	1,570,983	21,761,498	28,842,559	7,081,001
Products from imported clay.....	12	2,255,293	488	431,411	69,616	290,855	907,548	616,693
Products from domestic clay.....	105	12,875,622	797	744,490	319,706		1,639,508	
Salt.....	6	3,041,154	268	367,826	192,111		1,789,751	
Sand-lime brick.....	3	405,086	51	50,057		32,292	100,674	
Stone dressing.....	109	3,711,781	578	742,743	55,639	507,391	1,881,313	1,283,922
Miscellaneous.....	15	2,421,470	241	214,510	60,853	301,119	1,240,253	945,134
Total.....	596	141,368,091	19,641	13,659,771	5,696,195	31,851,497	70,857,202	36,805,885
MANITOBA—								
Aerated waters.....	13	540,030	125	144,832	7,853	153,192	627,068	473,876
Cement products.....	1							
Cement.....	1							
Coke and gas.....	4	5,550,457	195	209,776	61,349	509,984	1,181,437	671,453
Glass products.....	4	583,620	107	90,908	49,603	79,718	174,054	94,336
Lime.....	4	617,913	72	60,503	41,918		172,110	
Petroleum products.....	4	429,102	43	40,135	40,662	606,401	829,049	223,248
Products from domestic clay.....	3	230,582	18	20,978	9,191		49,773	
Salt.....	1							
Sand-lime brick.....	1							
Stone dressing.....	15	296,018	54	57,579	6,437	50,734	143,612	92,878
Miscellaneous.....	2							
Total.....	53	13,169,916	719	736,998	341,596	1,454,595	3,911,442	2,456,847
SASKATCHEWAN—								
Aerated waters.....	15	379,697	60	71,804	6,490	65,874	210,357	144,483
Cement products.....	3	181,842	66	80,400	6,876	104,401	263,253	158,852
Coke and gas.....	1							
Petroleum products.....	3	4,920,853	251	364,798	265,373	4,685,874	5,694,731	1,008,857
Products from domestic clay.....	6	523,975	41	47,959	12,659		109,739	
Stone dressing.....	8	170,093	33	34,007	3,064	23,321	70,756	47,435
Total.....	36	6,294,460	455	694,663	296,790	4,883,575	6,373,452	1,489,877
ALBERTA—								
Aerated waters.....	15	717,377	110	128,450	6,580	108,453	404,968	296,515
Cement products.....	3	58,327	8	6,360	378	3,704	17,203	13,499
Cement.....	2							
Coke and gas.....	2							
Glass products.....	1							
Lime.....	3	196,690	17	16,057	6,908		56,577	
Petroleum products.....	6	7,224,511	292	440,853	167,261	4,111,166	5,363,289	1,252,123
Products from domestic clay.....	8	2,053,518	184	185,319	14,711		329,584	
Stone dressing.....	5	250,830	35	32,623	2,687	17,058	94,836	77,778
Miscellaneous.....	1							
Total.....	46	15,483,837	895	1,981,324	321,439	4,559,897	7,328,792	2,777,895

Table 4.—Principal Statistics of the Manufactures of the Non-Metallic Minerals in Canada, by Industries and by Provinces, 1932, with Comparative Totals for 1931 and 1930—Concluded

Provinces and industries	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
BRITISH COLUMBIA—								
Aerated waters	25	403,456	103	110,931	5,440	98,249	322,535	224,286
Asbestos products	1							
Cement products	7	278,047	45	56,197	3,399	87,997	190,137	102,140
Cement	2							
Coke and gas	6	13,584,408	372	414,800	102,274	768,826	2,500,067	1,731,241
Glass	7	91,334	24	24,079	1,281	10,663	38,504	27,841
Lime	5	572,874	82	81,958	20,616		160,001	
Petroleum products	3	5,759,995	332	516,989	207,405	6,107,709	7,182,495	1,074,786
Products from domestic clay	11	990,801	160	120,822	34,012		216,355	
Stone dressing	10	147,945	36	44,516	2,918	22,275	83,296	60,991
Miscellaneous	2							
Total	79	25,902,460	1,328	1,550,047	477,741	7,174,168	11,357,569	4,183,401
Canada, 1932—								
Abrasive products	14	5,865,031	386	519,013	480,601	419,671	1,189,555	1,039,921
Aerated waters	398	12,610,708	2,302	2,682,699	151,942	2,760,548	11,067,886	8,307,338
Asbestos products	13	2,682,882	279	280,953	67,732	559,673	1,067,801	508,128
Cement products	118	4,161,571	710	684,371	57,072	697,483	1,771,297	1,071,814
Cement	12	55,291,851	1,216	1,311,772	1,701,125		6,930,221	6,930,721
Coke and Gas	12	93,531,195	3,639	4,897,746	2,223,411	12,241,698	29,812,650	17,570,952
Glass	63	11,281,011	2,608	2,969,887	765,685	3,155,579	8,469,895	5,311,316
Lime	60	6,823,919	677	575,072	535,442		3,394,537	2,394,537
Petroleum products	31	69,175,860	4,116	5,980,681	3,345,631	52,237,387	71,697,755	19,460,370
Products from domestic clay	164	25,347,582	1,740	1,576,586	379,803		3,650,218	3,650,218
Products from imported clay	16	4,297,265	745	797,269	113,779	106,441	1,590,411	1,183,970
Salt	8	3,805,008	345	155,649	176,856		1,947,551	1,917,551
Sand-lime brick	6	759,211	75	71,521	11,872	49,106	153,716	164,610
Stone dressing	206	5,828,109	1,003	1,200,211	108,053	928,572	2,961,914	2,031,342
Miscellaneous	31	7,561,645	531	531,444	161,107	872,048	2,759,709	1,887,661
Total	1,182	312,569,679	20,312	21,479,677	10,543,405	71,358,159	117,765,618	73,407,459
Canada, 1931								
Aerated waters	102	13,923,371	2,440	3,007,861	152,811	3,300,776	13,064,353	9,763,577
Abrasive products	11	6,070,652	681	982,820	610,845	1,769,983	1,857,914	3,147,931
Asbestos products	13	1,112,144	240	302,638	57,339	729,771	1,308,183	538,472
Cement	12	57,378,436	1,820	2,432,950	3,280,870		15,826,243	15,826,243
Cement products	157	5,084,227	1,166	1,296,250	83,032	1,215,483	3,907,188	2,561,785
Coke and gas	41	95,872,858	4,006	5,616,763	1,962,266	13,891,061	31,249,460	17,355,399
Glass	66	14,873,963	2,956	3,564,192	822,091	3,586,570	9,937,441	6,350,841
Lime	60	7,280,990	799	785,868	612,278		2,761,415	2,761,415
Petroleum products	32	68,136,281	4,122	6,214,745	3,378,599	50,617,742	76,158,610	25,540,902
Products from imported clay	14	4,320,482	832	958,900	176,902	695,706	2,455,735	1,760,032
Products from domestic clay	189	33,819,464	3,259	3,511,250	1,186,438		7,841,288	7,841,288
Salt	7	4,196,922	363	446,984	184,904		1,904,149	1,904,149
Sand-lime brick	11	1,499,453	183	207,570	33,401	191,572	540,369	318,818
Stone dressing	223	6,880,855	1,136	2,145,023	136,135	1,779,559	5,989,372	4,718,813
Miscellaneous	31	8,127,402	582	715,468	218,084	1,204,513	3,727,158	3,523,615
Total	1,272	328,873,782	21,885	32,219,282	13,235,125	78,945,766	181,431,906	102,426,140
Canada 1930								
Abrasive products	13	6,251,425	793	1,156,641	815,901	2,313,310	6,450,351	4,437,044
Aerated waters	385	14,934,798	2,440	3,044,451	145,592	3,667,202	13,550,407	9,881,205
Asbestos products	11	2,116,615	306	401,490	77,082	1,327,023	2,201,924	974,809
Cement	11	59,240,737	2,317	3,172,198	4,120,367		17,713,067	17,713,067
Cement products	116	5,157,054	1,352	1,411,043	86,188	1,261,910	3,718,204	2,466,794
Coke and gas	41	89,287,254	3,970	4,861,892	2,384,300	17,082,364	36,592,859	19,540,495
Glass	62	15,962,392	3,388	4,205,666	990,891	4,213,885	12,191,752	7,977,967
Lime	50	8,816,879	1,086	1,087,278	886,554		4,038,698	4,038,698
Petroleum products	28	70,334,381	5,131	8,490,130	3,868,544	71,800,439	81,785,285	19,986,726
Products from domestic clay	203	33,430,777	5,026	4,961,130	1,922,606		10,593,578	10,593,578
Products from imported clay	15	4,099,965	811	1,052,286	196,135	834,181	2,978,143	2,144,962
Salt	8	4,685,549	381	455,530	197,313		1,694,611	1,694,611
Sand-lime brick	11	2,165,362	225	265,091	51,478	245,921	671,391	453,390
Stone dressing	226	7,468,687	1,919	3,044,877	147,459	2,759,870	8,355,605	5,595,735
Miscellaneous	24	11,197,039	784	825,140	226,830	1,730,572	4,174,692	2,441,025
Total	1,234	336,018,922	29,869	39,211,165	16,117,030	107,206,674	216,812,827	109,606,153

Table 5.—Capital Employed in the Manufactures of the Non-Metallic Minerals in Canada, by Industries and by Provinces, 1932, with Comparative Totals for 1931 and 1930

NOTE.—In cases where there were only 1 or 2 plants in an industry in any province the statistics for the industry cannot be shown separately and have been omitted from the following table. However, the total for each province includes data for industries in which there were only 1 or 2 concerns in operation. For the distribution of plants by industries and by provinces—See Table 4.

Provinces and industries	1932					1931	1930
	Present value of lands, buildings, machinery, tools and other equipment	Inventory value of materials on hand, stocks in process, fuel and miscellaneous supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills, and accounts receivable, prepaid expenses, etc.)	Total	Total	Total
	\$	\$	\$	\$	\$	\$	\$
PRINCE EDWARD ISLAND—							
Total	75,781	24,338		14,732	114,851	114,878	98,508
NOVA SCOTIA—							
Aerated waters.....	212,400	39,003	5,329	52,682	309,414	323,574	396,433
Lime.....	54,000	2,150	2,750	1,800	60,700	51,424	53,831
Products from domestic clay.....	592,437	90,605	94,874	10,710	788,626	1,008,204	974,649
Stone dressing.....	57,178	19,192	8,350	22,056	106,776	269,365	129,698
Total	11,973,479	2,399,496	955,227	1,078,189	16,396,391	17,506,774	17,746,586
NEW BRUNSWICK—							
Aerated waters.....	311,064	105,531	9,221	105,227	531,043	589,738	598,223
Cement products.....	22,000	100	7,176	2,724	32,000	35,298	27,959
Glass.....	5,000	4,000			9,000		
Lime.....	163,979	17,569	4,854	21,889	207,391	145,100	141,500
Products from domestic clay.....	182,858	8,435	37,556	23,754	252,603	290,100	296,623
Stone dressing.....	33,325	10,006	18,669	10,807	72,807	77,396	169,781
Total	1,133,817	239,272	82,849	467,373	1,923,311	1,807,950	1,537,939
QUEBEC—							
Aerated waters.....	3,634,908	636,409	105,337	819,782	5,196,436	5,577,092	5,646,569
Asbestos products.....	1,640,858	127,121	215,021	185,947	2,168,947	625,760	1,762,548
Cement products.....	1,184,394	109,886	123,920	183,695	1,601,895	1,429,195	1,387,711
Coke and gas.....	10,631,577	1,310,026	990,360	661,169	13,593,132	13,861,889	12,931,837
Glass.....	3,735,268	358,578	935,052	834,518	5,863,416	5,972,516	6,589,707
Lime.....	1,516,611	107,039	3,822	116,127	1,743,599	2,079,199	1,933,748
Petroleum products.....	13,042,331	3,638,364	2,567,734	224,698	19,472,927	17,829,309	15,215,501
Products from domestic clay.....	6,442,219	146,126	563,471	474,039	7,625,855	12,095,766	11,427,181
Products from imported clay.....	1,445,582	95,546	200,361	210,945	1,952,474	2,159,763	1,905,125
Stone dressing.....	491,803	259,441	73,127	193,865	1,018,236	927,308	1,140,682
Miscellaneous.....	3,395,700	405,965	54,647	287,230	4,143,542	5,309,127	5,251,923
Total	72,233,798	7,806,623	6,649,353	5,457,182	92,146,362	94,198,892	89,245,232
ONTARIO—							
Aerated waters.....	3,000,843	590,857	86,562	818,065	4,486,327	5,010,139	5,571,792
Asbestos products.....	291,286	112,202	31,446	51,681	486,615	471,652	507,265
Cement products.....	1,425,358	81,299	341,131	438,672	2,286,460	2,965,610	3,448,950
Coke and gas.....	42,782,565	2,513,552	391,801	5,961,077	51,618,995	51,857,208	50,314,721
Glass.....	3,891,948	699,229	712,780	1,146,331	6,450,288	6,906,943	7,040,465
Lime.....	3,239,608	51,647	18,167	115,360	3,424,782	3,693,490	4,195,672
Petroleum products.....	15,742,480	4,570,443	3,135,972	2,311,346	25,760,211	25,392,543	23,166,435
Products from domestic clay.....	9,834,927	182,813	1,073,196	1,785,019	12,875,622	14,396,449	14,486,606
Products from imported clay.....	1,456,332	222,775	244,650	331,536	2,255,293	2,169,619	2,191,840
Salt.....	2,322,028	155,540	78,138	485,448	3,041,154	3,400,365	3,902,226
Sand-lime brick.....	338,052	13,139	5,635	48,240	405,066	941,461	1,317,741
Stone dressing.....	2,322,540	502,269	205,936	681,036	3,711,781	4,538,238	4,877,397
Miscellaneous.....	1,373,741	317,210	67,163	663,356	2,421,470	2,288,597	3,057,070
Total	105,769,449	11,344,737	8,057,225	16,136,680	141,308,091	149,819,275	152,393,917
MANITOBA—							
Aerated waters.....	426,027	49,266	6,035	58,702	540,030	579,196	724,407
Coke and gas.....	5,389,110	24,124	29,407	110,816	5,559,457	5,506,875	5,468,462
Glass.....	396,065	47,527	86,648	53,350	583,623	698,015	804,573
Lime.....	601,059	11,641	2,213	3,000	617,913	630,930	673,278
Petroleum products.....	242,753	30,886	77,564	77,899	429,102	554,866	263,015
Products from domestic clay.....	116,301	6,681	40,376	73,224	236,582	508,231	450,119
Stone dressing.....	74,519	99,778	14,034	107,687	296,018	384,474	425,950
Total	11,633,953	393,870	401,481	724,582	13,169,916	14,480,104	13,985,064

Table 5.—Capital Employed in the Manufactures of the Non-Metallic Minerals in Canada, by Industries and by Provinces, 1932, with Comparative Totals for 1931 and 1930—Concluded

NOTE.—In cases where there were only 1 or 2 plants in an industry in any province the statistics for the industry cannot be shown separately and have been omitted from the following table. However, the total for each province includes data for industries in which there were only 1 or 2 concerns in operation. For the distribution of plants by industries and by provinces—See Table 4.

Provinces and industries	1932					1931	1930
	Present value of lands, buildings, machinery, tools and other equipment	Inventory value of materials on hand, stocks in process, fuel and miscellaneous supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills, and accounts receivable, prepaid expenses, etc.)	Total	Total	Total
	\$	\$	\$	\$	\$	\$	\$
SASKATCHEWAN—							
Aerated waters.....	252,395	53,104	3,791	70,347	379,697	433,833	559,634
Cement products.....	141,173	2,409	16,382	21,818	181,842	238,966	146,480
Petroleum products.....	3,009,043	627,012	1,248,827	35,971	4,920,853	.....	.....
Products from domestic clay.....	439,443	11,717	26,791	46,024	523,975	1,027,641	1,141,551
Stone dressing.....	62,040	36,249	17,301	54,503	170,093	200,511	220,600
Total.....	3,932,094	730,611	1,313,092	228,663	6,204,460	6,832,930	7,737,830
ALBERTA—							
Aerated waters.....	442,081	144,227	15,542	115,527	717,377	704,836	826,000
Cement products.....	51,429	737	2,778	3,383	58,327	155,152	124,181
Lime.....	156,211	7,307	1,894	31,278	196,690	198,121	217,246
Petroleum products.....	3,779,883	784,767	2,211,199	448,602	7,224,511	7,534,111	8,963,665
Products from domestic clay.....	1,511,053	107,091	239,319	196,055	2,053,518	2,844,071	3,176,652
Stone dressing.....	134,011	18,264	25,517	79,038	256,830	251,558	294,241
Total.....	10,198,488	1,209,434	2,745,868	1,250,047	15,403,837	18,474,373	19,102,953
BRITISH COLUMBIA—							
Aerated waters.....	240,523	92,169	9,082	61,682	403,456	433,934	543,032
Cement products.....	197,991	3,125	27,701	49,830	278,647	235,884	265,998
Coke and gas.....	12,949,086	400,760	17,830	216,723	13,584,408	12,925,218	12,725,787
Glass.....	20,798	30,430	500	33,606	91,334	94,441	77,452
Lime.....	453,787	28,701	14,232	76,154	572,874	581,726	1,601,604
Petroleum products.....	3,461,446	1,011,837	1,048,732	237,980	5,759,995	5,181,807	6,073,021
Products from domestic clay.....	725,270	17,343	164,292	83,896	990,801	1,659,699	1,477,394
Stone dressing.....	65,028	28,067	9,285	44,665	147,645	188,156	180,638
Total.....	21,632,425	1,771,939	1,398,479	1,099,617	25,902,460	25,638,506	29,170,863
Canada—							
Abrasive products.....	3,106,639	783,536	1,349,081	625,775	5,865,031	6,070,652	6,251,425
Aerated waters.....	8,582,112	1,714,975	240,899	2,103,722	12,640,708	13,923,371	14,934,798
Asbestos products.....	1,948,144	210,084	253,821	210,833	2,682,862	1,112,141	2,316,645
Cement.....	49,881,915	1,446,538	1,440,291	2,526,070	55,294,814	57,378,436	59,210,737
Cement products.....	3,034,321	202,948	521,161	203,144	4,461,574	5,081,227	5,157,051
Coke and gas.....	78,286,929	5,439,433	1,655,376	8,152,757	93,534,496	95,822,858	89,987,235
Glass.....	8,901,175	1,207,675	1,878,158	2,291,036	14,281,044	14,873,963	15,962,392
Lime.....	6,184,355	226,054	47,932	364,608	6,823,949	7,289,090	8,816,879
Petroleum products.....	43,384,275	11,790,999	10,898,448	3,402,138	69,475,860	68,136,281	70,334,381
Products from domestic clay.....	19,844,208	570,811	2,239,845	2,692,718	25,347,682	33,819,164	33,430,777
Products from imported clay.....	2,901,914	318,321	445,011	542,521	4,207,767	4,320,382	4,099,965
Sand.....	3,055,911	163,760	80,365	504,972	3,805,008	4,196,927	4,685,649
Sand-lime brick.....	665,688	19,332	13,591	60,800	759,211	1,490,453	2,165,362
Stone dressing.....	3,254,354	991,855	372,219	1,208,681	5,828,109	6,880,835	7,468,687
Miscellaneous.....	5,557,374	791,405	167,376	1,045,490	7,561,645	8,427,102	11,197,039
Total.....	238,589,314	25,909,726	21,603,574	26,467,065	312,569,679	328,873,782	336,018,922

Table 6.—Employees, Salaries and Wages in the Manufactures of the Non-Metallic Minerals in Canada, by Industries and by Provinces, 1932

NOTE.—In cases where there were only 1 or 2 plants in an industry in any province, the statistics for the industry cannot be shown separately and have been omitted from the following table. However the total for each province includes data for the industries in which there were only 1 or 2 plants in operation. For the distribution of plants by provinces and by industries see Table 4.

Provinces and industries	Average number of employees				Total employees	Salaries	Wages	Total salaries and wages
	On salaries		On wages					
	Male	Female	Male	Female				
PRINCE EDWARD ISLAND—								
Total	3		10	1	14	3,436	8,206	11,642
NOVA SCOTIA—								
Aerated waters.....	14	3	61	5	83	20,782	47,093	67,875
Lime.....	1		13		14	800	9,326	10,126
Products from domestic clay	7	2	114		123	22,929	70,199	93,128
Stone dressing.....	8		22		30	9,980	20,275	30,255
Total	195	17	755	6	883	236,249	789,491	1,025,740
NEW BRUNSWICK—								
Aerated waters.....	15	4	53		72	28,909	43,859	72,768
Cement products.....	2		3		5	1,000	2,332	3,332
Lime.....	8	1	43		52	12,175	34,226	46,401
Products from domestic clay	8	1	43		52	15,009	20,390	36,059
Stone dressing.....	7	3	14		21	13,154	11,705	24,919
Total	53	13	192		258	90,450	152,614	243,064
QUEBEC—								
Aerated waters.....	179	40	710	20	955	337,581	781,819	1,119,400
Asbestos products.....	31	9	153	13	206	66,307	112,863	179,170
Cement products.....	45	2	178	1	226	71,280	154,056	225,336
Coke and gas.....	92	11	280		383	195,669	357,898	553,567
Glass.....	85	27	557	98	767	224,967	736,448	961,415
Lime.....	19		220		239	28,800	141,799	170,599
Petroleum products.....	80	15	802		897	242,013	1,089,074	1,331,087
Products from domestic clay	59	7	209		365	102,227	225,604	327,831
Products from imported clay	28	3	180	6	227	80,100	105,698	275,858
Stone dressing.....	46	1	157		205	79,922	144,770	224,692
Miscellaneous.....	41	7	142	18	208	96,484	136,169	232,653
Total	742	126	4,118	163	5,149	1,608,790	4,566,638	6,175,428
ONTARIO—								
Aerated waters.....	196	38	535	21	790	370,802	592,475	963,277
Asbestos products.....	16	5	33	2	56	55,481	28,817	84,298
Cement products.....	78	11	258	5	352	108,491	200,407	308,898
Coke and gas.....	448	183	1,820	6	2,463	986,098	2,477,007	3,463,105
Glass.....	122	37	1,282	100	1,541	302,597	1,410,750	1,713,347
Lime.....	17	2	182		201	27,676	161,752	189,428
Petroleum products.....	216	34	1,687	6	1,943	589,608	2,181,159	2,770,767
Products from domestic clay	136	24	637		797	297,565	446,925	744,490
Products from imported clay	46	12	351	79	488	132,969	208,442	431,411
Salt.....	41	14	176	37	268	114,199	253,627	367,826
Sand-lime brick.....	7	1	43		51	18,000	32,067	50,067
Stone dressing.....	147	21	405	3	576	246,831	495,912	742,743
Miscellaneous.....	40	14	184	3	241	95,249	119,201	214,510
Total	1,657	427	8,294	263	10,641	3,677,302	9,373,469	13,050,771
MANITOBA—								
Aerated waters.....	29	6	89	1	125	51,415	93,417	144,832
Coke and gas.....	32	25	138		195	75,050	134,726	209,776
Glass.....	17	6	63	21	107	34,851	56,057	90,908
Lime.....	7		65		72	10,144	50,359	60,503
Petroleum products.....	10	1	32		43	15,937	24,198	40,135
Products from domestic clay	5		13		18	11,200	9,778	20,978
Stone dressing.....	11	3	39	1	54	19,372	38,207	57,579
Total	126	44	525	24	719	248,194	488,804	736,998
SASKATCHEWAN—								
Aerated waters.....	15	1	43	1	60	24,047	47,757	71,804
Cement products.....	10	1	55		66	25,780	54,620	80,400
Petroleum products.....	39	3	209		251	102,526	262,272	364,798
Products from domestic clay	11		30		41	22,146	25,813	47,959
Stone dressing.....	15	1	16	1	33	17,327	16,680	34,007
Total	91	6	356	2	455	193,673	410,990	604,663

Table 6.—Employees, Salaries and Wages in the Manufactures of the Non-Metallic Minerals in Canada, by Industries and by Provinces, 1932—Concluded

Provinces and Industries	Average number of employees				Total employees	Salaries	Wages	Total salaries and wages
	On salaries		On wages					
	Male	Female	Male	Female				
ALBERTA—								
Aerated waters.....	30	4	67	9	110	50,429	60,021	128,450
Cement products.....	2	.....	5	1	8	2,400	3,950	6,350
Lime.....	3	.....	14	.....	17	4,800	11,257	16,057
Petroleum products.....	51	5	235	1	292	140,844	300,009	440,853
Products from domestic clay.....	23	3	158	.....	184	56,881	128,438	185,319
Stone dressing.....	6	6	23	.....	35	12,619	20,004	32,623
Total.....	136	20	721	18	895	329,445	751,879	1,081,324
BRITISH COLUMBIA—								
Aerated waters.....	33	5	64	1	103	45,892	65,039	110,931
Cement products.....	14	2	29	.....	45	23,711	32,486	56,197
Coke and gas.....	77	12	283	.....	372	151,635	263,165	414,800
Glass.....	6	2	15	1	24	9,816	14,263	24,079
Lime.....	8	4	70	.....	82	21,755	60,203	81,958
Petroleum products.....	52	4	276	.....	332	120,953	306,036	516,989
Products from domestic clay.....	16	2	142	.....	160	37,058	83,764	120,822
Stone dressing.....	13	1	22	.....	36	21,586	22,930	44,516
Total.....	233	35	1,058	2	1,328	482,282	1,067,765	1,550,047
Canada, 1932—								
Abrasive products.....	106	30	249	1	386	261,190	257,823	519,013
Aerated waters.....	512	101	1,624	65	2,302	939,793	1,742,306	2,682,099
Asbestos products.....	52	14	197	16	279	129,423	161,530	290,953
Cement.....	96	7	1,113	.....	1,216	213,891	1,130,881	1,344,772
Cement products.....	154	16	532	8	710	233,999	490,172	684,371
Coke and gas.....	692	238	2,703	6	3,639	1,480,752	3,416,994	4,897,746
Glass.....	241	74	2,066	227	2,608	694,815	2,365,072	2,969,887
Lime.....	63	7	607	.....	677	106,150	168,922	275,072
Petroleum products.....	485	69	3,555	7	4,116	1,315,815	4,661,866	5,980,681
Products from domestic clay.....	265	39	1,436	.....	1,740	565,675	1,010,914	1,576,586
Products from imported clay.....	74	15	541	85	715	213,129	491,140	707,269
Salt.....	46	16	246	37	345	133,449	321,690	455,049
Sand-lime brick.....	10	1	64	.....	75	23,000	51,521	74,521
Stone dressing.....	255	36	706	6	1,003	423,291	776,923	1,200,214
Miscellaneous.....	95	25	390	21	531	225,549	305,895	531,444
Total.....	3,146	688	16,029	479	29,342	6,869,821	17,609,856	24,479,677
Canada, 1931—								
Abrasive products.....	101	37	546	7	691	315,651	667,166	982,820
Aerated waters.....	467	101	1,778	94	2,440	995,087	2,012,774	3,007,861
Asbestos products.....	43	13	169	15	210	110,898	191,740	302,638
Cement.....	110	11	1,699	.....	1,829	268,434	2,164,516	2,432,950
Cement products.....	183	19	869	4	1,166	359,909	945,314	1,296,250
Coke and gas.....	737	235	3,032	2	4,006	1,576,043	1,049,720	5,616,763
Glass.....	269	79	2,337	271	2,956	691,481	2,872,708	3,564,192
Lime.....	67	11	721	.....	799	121,525	664,343	785,868
Petroleum products.....	478	64	3,567	13	4,122	1,242,637	1,922,208	6,214,745
Products from domestic clay.....	390	45	2,824	.....	3,259	918,781	2,622,469	3,541,250
Products from imported clay.....	69	17	662	84	832	226,767	732,133	958,900
Salt.....	41	16	306	.....	363	112,479	344,595	446,984
Sand-lime brick.....	23	1	159	.....	183	58,831	148,739	207,570
Stone dressing.....	256	46	1,127	7	1,336	541,429	1,693,591	2,145,023
Miscellaneous.....	113	23	425	21	582	291,106	434,362	715,468
Total.....	3,347	718	29,312	518	21,885	7,811,964	21,107,318	32,219,282
Canada, 1930—								
Abrasive products.....	80	26	676	17	799	244,054	912,587	1,156,641
Aerated waters.....	486	104	1,750	100	2,440	1,065,618	2,038,833	3,014,451
Asbestos products.....	41	16	231	15	306	131,990	269,500	401,490
Cement.....	116	10	2,191	.....	2,317	267,003	2,905,195	3,172,198
Cement products.....	178	17	1,052	5	1,252	317,678	1,076,385	1,414,013
Coke and gas.....	703	244	3,017	6	3,970	1,561,727	4,303,075	5,864,802
Glass.....	268	85	2,711	324	3,388	780,556	3,425,010	4,205,566
Lime.....	80	11	995	.....	1,086	148,525	939,253	1,087,778
Petroleum products.....	469	63	4,592	19	5,134	1,317,159	6,872,971	8,190,130
Products from domestic clay.....	345	54	1,627	.....	5,026	822,499	4,038,631	4,961,130
Products from imported clay.....	70	24	668	79	811	247,562	804,724	1,052,286
Salt.....	42	10	230	39	341	107,637	347,902	455,539
Sand-lime brick.....	21	1	203	.....	225	61,663	203,434	265,094
Stone dressing.....	272	46	1,590	11	1,919	691,330	2,143,547	3,044,877
Miscellaneous.....	116	20	536	142	781	276,186	648,954	925,140
Total.....	3,281	731	25,099	757	29,868	8,011,167	31,229,998	39,241,165

Table 7.—Wage-Earners Employed in the Manufactures of the Non-Metallic Minerals in Canada, by Months and by Industries, 1932, with totals for 1930 and 1931

Months	Abrasive products	Aerated waters	Asbestos products	Cement products	Cement	Products from domestic clays	Coke and gas	Glass products
January	328	1,430	207	555	1,233	1,217	2,744	2,153
February	292	1,444	243	595	1,240	1,144	2,710	2,185
March	258	1,456	239	588	1,200	1,180	2,747	2,379
April	248	1,603	240	606	1,230	1,240	2,739	2,360
May	184	1,882	244	564	1,342	1,634	2,750	2,518
June	176	1,960	196	488	1,332	1,876	2,728	2,537
July	211	2,055	206	492	1,106	1,766	2,675	2,559
August	217	2,021	198	518	839	1,764	2,657	2,552
September	226	1,801	192	526	980	1,684	2,714	2,402
October	278	1,598	205	527	993	1,586	2,706	1,976
November	299	1,510	188	475	989	1,057	2,694	2,182
December	274	1,499	179	409	852	806	2,665	1,828
Average for 1932	256	1,689	213	510	1,113	1,436	2,709	2,293
Average for 1931	553	1,872	181	961	1,689	2,824	3,034	2,608
Average for 1930	693	1,950	246	1,057	2,191	4,627	3,023	3,035

Months	Products from imported clays	Lime	Petroleum products	Salt	Sand-lime brick	Stone dressing	Miscellaneous	Total
January	737	523	3,573	266	95	617	445	16,123
February	755	547	3,518	273	57	620	418	16,053
March	765	605	3,504	281	53	674	432	16,361
April	745	600	3,639	289	72	799	456	16,932
May	662	664	3,711	294	87	943	423	17,902
June	683	635	3,706	302	57	910	409	17,995
July	656	685	3,672	299	54	763	417	17,615
August	639	626	3,650	295	66	730	385	17,157
September	540	611	3,493	298	65	685	410	16,633
October	492	631	3,434	275	72	642	420	15,835
November	403	571	3,423	278	49	569	376	15,063
December	398	456	3,446	255	34	399	339	13,839
Average for 1932	626	607	3,562	253	61	712	411	16,508
Average for 1931	716	721	3,590	306	159	1,134	446	20,830
Average for 1930	747	905	4,611	329	203	1,601	648	25,856

Table 8.—Wage-Earners Employed in the Manufactures of the Non-Metallic Minerals in Canada, by Months and by Provinces, 1932, with Comparative Totals for 1930 and 1931

Months	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
January	7	690	140	4,068	8,632	430	320	719	1,000	16,123
February	7	701	135	3,950	8,626	434	360	752	1,082	16,053
March	7	701	149	4,084	8,724	503	398	733	1,062	16,361
April	13	786	164	4,238	8,869	560	463	787	1,040	16,932
May	13	852	240	4,607	9,154	672	414	894	1,056	17,902
June	14	890	254	4,640	9,095	703	398	806	1,135	17,995
July	14	867	238	4,556	8,880	710	368	869	1,113	17,615
August	14	841	217	4,456	8,757	625	346	799	1,102	17,157
September	14	760	198	4,488	8,479	606	344	705	1,039	16,633
October	13	720	188	4,258	8,202	521	314	631	988	15,835
November	9	632	177	4,148	7,875	391	278	584	969	15,063
December	7	691	140	3,782	7,123	376	256	532	932	13,839
Average for 1932	11	761	192	4,291	8,557	519	358	739	1,060	16,508
Average for 1931	12	996	226	5,579	10,663	631	443	932	1,348	20,830
Average for 1930	19	1,253	328	6,662	13,148	871	595	1,339	1,641	25,856

MANUFACTURES OF NON-METALLIC MINERALS

Table 9.—Fuel and Electricity Used in the Manufactures of the Non-Metallic Minerals

NOTE.—Figures for coke, fuel oil and manufactured gas include amounts used in

Industries	Bituminous coal		Anthracite coal	Lignite coal	Coke
	From Canadian mines	Imported		From Canadian mines	
	Tons	Tons	Tons	Tons	Tons
Abrasive products—	Quantity	776	1,908	280	8
	\$	3,867	11,323	2,739	26
Aerated waters—	Quantity	2,482	3,112	735	250
	\$	16,752	22,456	10,382	1,362
Asbestos products—	Quantity	584	4,192		
	\$	3,672	26,332		
Cement—	Quantity	120,296	90,718		
	\$	652,734	440,546		
Cement products—	Quantity	1,418	1,285	150	65
	\$	10,051	8,315	1,820	489
Products from domestic clays—	Quantity	11,752	50,440	1,142	3,082
	\$	72,277	306,833	8,495	8,808
Coke and gas—	Quantity	10,228	17,968	919	174
	\$	33,711	103,165	5,085	499
Glass—	Quantity	2,110	28,061	1,860	
	\$	14,104	172,404	8,959	
Products from imported clays—	Quantity	1,672	10,800	12	
	\$	10,616	66,914	180	
Lime—	Quantity	24,351	34,423	280	
	\$	151,303	151,863	2,100	
Petroleum products—	Quantity	705	33,845	49	
	\$	3,043	148,173	626	
Salt—	Quantity	2,808	36,829		
	\$	11,006	153,285		
Sand-lime brick—	Quantity	399	1,230		14
	\$	2,420	6,856		140
Stone dressing—	Quantity	145	157	288	121
	\$	1,074	1,320	3,355	1,053
Miscellaneous—	Quantity	1,613	3,447	49	190
	\$	7,160	20,178	450	1,447
Canada, 1932	Quantity	181,339	318,315	5,764	3,896
	\$	993,766	1,639,966	44,191	13,798
Canada, 1931	Quantity	357,548	518,216	10,184	3,418
	\$	1,965,322	2,951,311	68,632	16,969
Canada, 1930	Quantity	409,655	792,671	14,105	10,270
	\$	2,199,529	1,423,801	92,060	28,309

in Canada, by Kinds and by Industries, 1932, with Comparative Totals for 1931 and 1930
the producing companies' own works for fuel or for heating stills, ovens and retorts.

Gasoline	Kerosene	Fuel oil	Wood	Gas		Other fuel	Electricity	Total
				Manufactured	Natural			
Imp. gals.	Imp. Gals	Imp. Gals.	Cords	M cu. ft.	M cu. ft.		K.W.H.	\$
	20	300		442	429		186,812,496	
	3	31		366	330		461,916	480,601
16,855	3,538	45,727	1,334	2,030	9,111		3,248,484	
5,070	773	4,888	5,836	2,086	4,190	967	74,458	151,942
3,981	20	140,454		280			1,905,612	
583	4	10,011		277			26,853	67,732
87,050	826	7,386					85,630,342	
15,856	138	960					590,891	1,701,125
8,268	220	12,914	142	433	20		1,270,256	
1,883	48	708	897	334	15	360	30,926	57,672
11,246	959	15,614	15,764		178,650		6,386,134	
2,677	246	1,869	61,149		6,280		108,783	579,803
4,570		159,900	3	6,516,516			19,531,928	
810		11,321	18	1,405,476		21,848	146,097	2,223,414
		817,116	8	105,127	934,414		17,661,703	
		51,928	41	54,057	321,103	836	142,073	765,685
82	120	462,518	38		14,999		1,406,744	
21	20	30,733	283		7,448	54	23,037	113,779
2,265	55	250,322	33,284	35,044	8,000		5,241,789	
537	11	8,524	121,318	2,803	4,340		51,713	535,433
		54,699,497	12	3,836,513	718,149		40,116,707	
		1,765,487	114	824,469	66,808	78,271	334,810	3,345,651
80	52	85,008					747,108	
20	10	5,702					6,813	176,836
							296,618	
							5,450	14,872
4,553	50	41,165	263	276	1,220		4,012,228	
1,287	13	2,367	1,299	159	749	40	92,933	108,653
30	30	441,298		663	5,686		32,437,071	
8	7	17,378		582	1,941		112,156	161,497
138,980	5,890	57,179,219	50,848	10,497,323	1,870,678		407,765,218	
28,802	1,273	1,911,997	190,953	2,290,600	413,704	102,376	2,206,909	10,513,405
90,121	5,396	57,757,931	80,188	8,468,544	2,178,338		572,963,909	
20,966	1,063	1,841,321	332,562	2,093,559	364,132	82,876	2,787,650	13,235,125
127,650	10,169	62,998,618	103,946	9,701,474	2,201,936		682,534,338	
30,687	2,121	2,337,259	451,464	2,377,599	339,260	121,573	3,013,720	16,117,030

MANUFACTURES OF NON-METALLIC MINERALS

Table 10.—Fuel and Electricity Used in the Manufactures of the Non-Metallic Minerals

NOTE.—Figures for coke, fuel oil and manufactured gas include amounts used in

Provinces	Bituminous coal		Anthracite coal	Lignite coal	Coke
	From Canadian mines	Imported		From Canadian mines	
	Tons	Tons	Tons	Tons	Tons
Prince Edward Island.....Quantity	36				
.....\$	357				
Nova Scotia.....Quantity	15,859		67		8,345
.....\$	59,932		1,053		36,061
New Brunswick.....Quantity	2,359		27		1,306
.....\$	11,740		384		11,790
Quebec.....Quantity	119,398	49,269	2,503		15,731
.....\$	659,949	308,652	17,053		78,890
Ontario.....Quantity	1,631	267,494	2,004		83,769
.....\$	9,515	1,319,297	17,660		405,489
Manitoba.....Quantity	15,889	907	32	450	5,939
.....\$	116,710	7,666	361	2,865	36,003
Saskatchewan.....Quantity	956	138	1,029	1,068	2,743
.....\$	7,278	762	7,553	5,244	19,861
Alberta.....Quantity	8,117	459		2,378	5,306
.....\$	46,710	2,778		5,689	33,163
British Columbia.....Quantity	16,994	48	12		11,141
.....\$	81,574	811	127		56,392
Canada, 1932.....Quantity	181,339	318,315	5,764	3,896	134,290
.....\$	992,766	1,633,966	44,191	13,798	675,649
Canada, 1931.....Quantity	357,548	548,246	10,184	3,418	124,889
.....\$	1,965,372	2,954,344	68,632	16,969	765,673
Canada, 1930.....Quantity	409,655	792,671	14,105	10,270	131,431
.....\$	2,193,523	4,423,964	92,060	28,309	633,646

in Canada, by Kinds and by Provinces, 1932 with Comparative Totals for 1931 and 1930
 producing companies' own works for fuel or for heating stills, ovens and retorts.

Gasoline	Kerosene	Fuel oil	Wood	Gas		Other fuel	Electricity	Total
				Manu- factured	Natural			
Imp. gals	Imp. gals.	Imp. gals	Cords	M cu. ft.	M cu. ft.		K.W.H.	\$
18		1,800					1,248	
5		250					138	750
1,415	52	7,429,360	770	1,585,202			756,119	
818	10	204,573	2,937	132,779		4,126	14,751	456,840
1,858	50	6,865	7,595	219	1,270		234,190	
844	11	687	30,734	226	751	2,639	6,327	68,133
53,662	3,445	16,002,861	10,690	1,315,510			162,925,848	
9,677	756	548,258	45,847	339,234		1,176	848,519	2,854,011
70,362	1,849	21,212,726	14,583	6,719,816	961,582		218,229,223	
14,447	377	756,515	57,774	1,641,071	335,559	75,989	1,061,602	5,634,195
2,434	30	613,212	8,406	161,104			5,134,858	
502	9	40,024	31,239	62,251		720	42,256	341,506
3,119	434	3,689,401	43	281,824	600		2,268,639	
998	103	148,356	150	57,968	190	5,994	42,323	296,790
3,816	30	2,284,182	864	49,570	907,186		6,762,309	
1,021	7	44,219	3,713	5,568	76,682		101,889	321,439
2,296		5,038,812	7,897	384,018	40		11,392,784	
690		168,125	18,552	50,612	22	11,732	89,104	477,741
138,980	5,990	57,179,219	50,848	10,497,323	1,879,678		407,765,219	
28,802	1,273	1,911,907	190,955	2,290,609	413,291	102,376	2,206,909	10,513,465
90,124	5,396	57,757,931	90,188	8,469,544	2,178,338		572,963,909	
20,966	1,069	1,841,321	332,562	2,093,559	364,132	82,876	2,787,650	13,335,125
127,650	10,169	62,998,618	103,946	9,701,474	2,291,936		682,534,338	
30,637	2,121	2,337,259	454,463	2,377,599	333,260	124,573	3,013,720	16,117,630

Table 11.—Power Equipment used in the Manufactures of the Non-Metallic Minerals in Canada, by Classes and by Industries, 1932, with Comparative Totals for 1931 and 1930

Industries	Steam engines and turbines	Gasoline, gas and oil engines	Hydraulic turbines or water wheels	Total primary power	Electric motors run by purchased power	Total power employed	Electric motors run by primary power in same plant	Total electric motors	Boilers
Abrasive products..... No.					570	579		679	8
..... H.P.					0, 183	6, 183		6, 183	708
Aerated waters..... No.		9	1	18	1, 777	1, 795		1, 777	57
..... H.P.	166	21	4	101	2, 911	3, 162		2, 911	1, 601
Asbestos products..... No.					157	157		157	9
..... H.P.					2, 066	2, 066		2, 066	958
Cement..... No.	9	6		15	1, 284	1, 391		1, 286	11
..... H.P.	298	205		503	75, 493	75, 996		75, 493	427
Cement Products..... No.	7	30		37		399		309	25
..... H.P.	129	215		344	3, 005	3, 349		3, 349	1, 198
Coke and gas..... No.	221	3	1	225	777	1, 062	270	1, 047	232
..... H.P.	7, 264	83	3	7, 350	19, 293	26, 643	6, 858	26, 151	22, 870
Glass..... No.	2	2		4	686	696		686	21
..... H.P.	120	300		420	7, 964	8, 384		7, 964	1, 306
Lime..... No.	17	12	1	30	282	312	36	318	17
..... H.P.	667	528	50	1, 245	5, 220	6, 465	507	5, 727	1, 156
Petroleum products..... No.	398	9		407	761	1, 168	73	834	118
..... H.P.	13, 814	1, 588		15, 402	10, 272	31, 674	1, 902	18, 174	27, 197
Products from domestic clay..... H.P.	76	41	3	120	461	581	11	472	79
Products from imported clay..... H.P.	5, 006	1, 542	125	7, 573	15, 833	23, 406	302	16, 136	7, 233
Salt..... No.	3	1		4	151	165	20	181	14
..... H.P.	465	4		469	1, 082	1, 551	235	1, 317	863
Sand-lime brick..... No.	7	4		11	31	42	145	176	7
..... H.P.	140	375		515	366	881	1, 758	2, 124	2, 735
Stone dressing..... No.					39	39		39	5
..... H.P.					823	823		823	600
Miscellaneous..... No.		6		6	646	652		646	5
..... H.P.		105		105	9, 447	9, 552		9, 447	345
Canada, 1932..... No.	748	124	6	878	8, 595	9, 473	566	9, 161	621
..... H.P.	28, 969	4, 969	182	34, 120	175, 264	299, 484	11, 701	187, 065	70, 462
Canada, 1931..... No.	748	158	14	920	7, 616	8, 536	617	8, 233	630
..... H.P.	31, 554	4, 629	5, 424	41, 607	170, 572	212, 179	14, 524	185, 096	73, 340
Canada, 1930..... No.	799	171	13	893	7, 058	7, 951	590	7, 648	613
..... H.P.	30, 841	5, 156	5, 411	41, 408	172, 509	213, 917	14, 925	187, 434	70, 978

Table 12.—Power Equipment used in the Manufactures of the Non-Metallic Minerals in Canada, by Classes and by Provinces, 1932, with Comparative Totals for 1931 and 1930

Provinces	Steam engines and turbines	Gasoline, gas and oil engines	Hydraulic turbines or water wheels	Total primary power	Electric motors run by purchased power	Total power employed	Electric motors run by primary power in same plant	Total electric power	Boilers
Prince Edward Island..... No.		2		2		2			
..... H.P.		18		18		18			
Nova Scotia..... No.	58	13		71	108	179	240	354	34
..... H.P.	3, 973	1, 407		5, 380	584	5, 964	7, 007	7, 391	8, 026
New Brunswick..... No.	4	10		14	121	135	1	122	12
..... H.P.	217	149		366	817	1, 183	30	847	753
Quebec..... No.	303	11	1	315	2, 547	2, 862	2	2, 649	101
..... H.P.	10, 893	67	20	10, 980	68, 849	79, 829	250	69, 099	15, 079
Ontario..... No.	245	63	2	310	3, 809	4, 119	291	4, 100	374
..... H.P.	8, 993	1, 728	54	10, 745	72, 351	83, 096	4, 079	70, 430	32, 829
Manitoba..... No.	18	8		26	118	144	8	126	14
..... H.P.	257	280		537	9, 104	9, 641	68	9, 172	1, 895
Saskatchewan..... No.	12	5		17	137	151	7	144	17
..... H.P.	1, 194	233		1, 397	1, 548	2, 945	35	1, 685	2, 576
Alberta..... No.	54	8	2	64	477	511		477	26
..... H.P.	1, 931	865	105	2, 901	10, 067	13, 568		10, 067	3, 648
British Columbia..... No.	54	4	1	59	1, 078	1, 137	11	1, 089	43
..... H.P.	1, 571	222	3	1, 796	11, 444	13, 240	232	11, 976	5, 655
Canada, 1932..... No.	748	124	6	878	8, 595	9, 473	566	9, 161	621
..... H.P.	28, 969	4, 969	182	34, 120	175, 264	299, 484	11, 701	187, 065	70, 462
Canada, 1931..... No.	748	158	14	920	7, 616	8, 536	617	8, 233	630
..... H.P.	31, 554	4, 629	5, 424	41, 607	170, 572	212, 179	14, 524	185, 096	73, 340
Canada, 1930..... No.	799	171	13	893	7, 058	7, 951	590	7, 648	613
..... H.P.	30, 841	5, 159	5, 411	41, 408	172, 509	213, 917	14, 925	187, 434	70, 978

Table 13.—Alphabetical List of Materials Used in all Industries Classified under Manufactures of the Non-Metallic Minerals in Canada, 1930, 1931 and 1932

Materials	Industry number (See list on page 27)	Unit of measure	1930		1931		1932	
			Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
				\$		\$		\$
Abrasive grains, artificial (fused alumina, silicon carbide, etc.)	2	lb.	5,917,872	126,144	3,560,382	82,175	768,738	56,157
Abrasive grains, natural (corundum, silica, flint, garnet, etc.)	2	lb.	203,889	8,482	520,892	22,144	275,124	19,329
Acid, sulphuric, 66° Bé	0-11	lb.	97,445,442	775,871	61,066,112	542,713	45,716,373	391,190
Adhesives, not elsewhere specified	3	lb.	98,128	11,694	77,434	7,342	201,435	3,719
Asbestos cloth, strips and tape	3	lb.	49,368	21,032	41,770	18,371	63,772	31,097
Asbestos, crude and mill fibre	3-19	lb.	17,329,116	230,878	8,442,370	109,600	6,036,882	83,095
Asbestos paper, corrugated and plain	3	lb.	11,730,639	375,372	7,325,553	227,313	4,240,080	116,847
Asbestos yarn	3	lb.	353,927	140,516	268,100	95,358	230,373	72,162
Asphalt	3-10-21	lb.	9,835,481	96,831	23,829,610	191,742	13,872,422	105,156
Bauxite and alumina	2	ton	48,860	1,016,865	38,677	921,882	8,075	159,164
Bonding and bushing materials	2			28,619		43,868		15,330
Calcium carbide for making acetylene gas	6	lb.	46,815	2,047	40,000	1,775	40,000	1,091
Carbon dioxide gas (in cylinders) for aerated waters	1	lb.	2,408,694	241,915	2,396,592	217,262	2,020,941	182,098
Carbon scrap for making electrodes	18	ton	1,201	13,620	475	5,245	364	4,048
Celluloid	7			63,019		13,141		6,626
Cement, Portland	3-5	brl.	266,824	602,135	250,637	606,273	107,421	257,321
Cinders	5			33,584		26,053		8,467
Clay used in making gypsaum wall-board, etc.	17	ton	273	3,466	582	11,473	68	1,224
Clay, fire, imported	13-21	ton	17,319	114,653	22,075	145,856	15,041	84,765
Clay, other, imported	13	ton	12,024	208,614	7,137	144,914	5,517	103,204
Coal, anthracite, for foundry facines	21	ton	624	2,237	324	1,217	241	1,090
Coal, anthracite, for manufacture of artificial abrasives	2	ton	7,400	42,121	2,093	13,640	1,179	6,185
Coal, bituminous, for foundry facines	21	ton	2,435	16,616	1,747	9,517	967	5,717
Coal, bituminous, for coke and gas making (not for fuel)—Canadian	6	ton	736,466	2,752,048	564,882	2,346,667	449,264	2,175,573
Imported	6	ton	2,454,577	11,595,120	1,967,654	9,349,162	1,767,748	8,134,302
Coke for gas making (not for fuel)—Purchased	6	ton	9,448	95,800	5,238	47,494	4,507	42,225
Companies' own make	6	ton	144,739	1,085,251	130,272	973,079	118,338	854,525
Coke, foundry for making electrodes	18	ton	5,117	31,191				
Coke for making artificial abrasives (not for fuel)	2	ton	25,346	310,785	13,240	147,072	4,197	44,911
Coke, petroleum for making electrodes	18	ton	19,516	309,257	17,971	289,528	9,781	135,065
Compounding materials used in petroleum refineries	11			521,980		396,342		424,729
Containers, boxes, bags, etc.	1-2-5-7-8-10-13-17-21			4,017,906		3,504,454		3,271,199
Cotton cloth and yarn	3	lb.	51,151	23,889	64,490	31,259	191,533	12,180
Cotton cloth	2	sq. yd.	90,777	13,091	243,978	22,663	276,744	30,067
Electrodes used in making artificial abrasives	2	lb.	1,768,178	124,478	1,217,380	83,834	327,1030	20,798
Electrodes, scrap, used in making electrodes	18	ton	3,683	80,826	3,115	35,749	1,374	24,692
Extracts and essences for flavouring aerated waters	1			713,488		625,401		521,442
Fieldspar	2-5-8-13-21	ton	6,406	120,316	5,405	93,175	5,093	80,818
Felt	3			4,371		2,949		854
Flint	13	ton	2,816	28,958	1,419	27,853	1,136	18,277
Fluorspar	8-21	ton	200	7,501	96	4,815	125	4,989
Fuller's earth	11	ton	10,051	241,793	8,079	201,361	9,821	258,934
Glass blanks	7			152,327		147,118		105,460
Glass, figured and cathedral	7	sq. ft.	274,773	57,585	274,965	44,281	169,763	31,685
Glass, plate, for bevelling, laminating, etc.	7	sq. ft.	2,165,221	793,941	1,618,404	560,317	989,658	391,297
Glass, sheet and window, for bevelling, etc.	7	sq. ft.	640,121	73,697	603,296	74,887	410,910	43,804
Glazing material	13			8,036		9,912		6,175
Graphite	21	ton	176	13,757	173	7,902	127	5,898
Gravel	5	cu. yd.	70,450	118,346	50,320	76,727	24,968	30,871
Gypsum, crude	17	ton	38,106	141,972	31,170	136,333	19,805	69,422

Table 13.—Alphabetical List of Materials Used in all Industries Classified under Manufactures of the Non-Metallic Minerals in Canada, 1930, 1931 and 1932—Concluded

Materials	Industry number (See list on page 27)	Unit of measure	1930		1931		1932	
			Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
				\$		\$		\$
Hair.....	3-17	lb.	919,214	73,585	418,821	24,790	264,472	12,043
Hardware for insulators.....	13			270,104		238,066		38,609
Iron for manufacture of artificial abrasives.....	2	ton	6,641	74,049	3,773	29,910	1,160	6,945
Iron, for manufacture of ferro-silicon.....	2	ton	246	2,854			73	440
Lead, zinc and copper.....	7	lb.	271,730	33,167	186,245	25,310	140,697	15,733
Lime.....	5-6-8-11-15-17	ton	22,711	233,344	28,031	206,842	9,910	97,586
Litharge.....	11-21	lb.	621,101	50,838	257,371	20,164	588,499	27,415
Magnesite.....	19	lb.	42,919	1,288				
Mica, manufactured plate from U.S.A.....	20	lb.	3,847	4,232		3,034		
Mica, cut or uncut, India and amber.....	20	lb.	3,000	3,750	1,800	2,075	2,100	2,225
Mica, knife-trimmed.....	20	lb.	192,333	31,196				
Mica, splittings, India and amber.....	20	lb.	28,113	7,130	18,100	4,990	8,000	2,065
Oil, animal.....	10	gal.	13,503	13,500	2,638	2,885	400	280
Oil, black.....	18	gal.	37,435	7,734	27,386	5,542	17,239	3,027
Oil, crude, imported for refining.....	11	Imp. gal.	1,012,012,110	62,230,738	1,025,119,509	43,094,937	892,773,734	45,494,788
Oil crude, from Canadian wells for refining.....	11	Imp. gal.	51,522,864	5,410,237	49,668,529	4,234,481	37,340,321	3,233,136
Oil used for enriching water gas.....	6	Imp. gal.					9,849,710	580,816
Oil (gas oil) for gas making (not for fuel).....	6	Imp. gal.	12,101,186	992,642	10,935,971	717,474	1,798,878	109,522
Oil, wash and absorbing.....	6	Imp. gal.					135,815	14,294
Oil, linseed.....	10-21	Imp. gal.	47,918	33,923	32,993	20,955	27,728	12,589
Oil, mineral.....	10	Imp. gal.	2,106,765	368,465	1,080,138	168,741	458,656	123,792
Oils, other.....	10	Imp. gal.	13,016	2,988	39,067	8,079		
Oil, paraffin.....	21	Imp. gal.	17,051	3,053				
Oxide or purifying materials used in coke and gas plants.....	6	ton	5,560	52,254	5,362	50,029	3,736	35,284
Paper.....	2-17	lb.	9,848,257	325,749	2,630,847	81,325	3,901,339	93,705
Paper, kraft.....	2	lb.	45,090	2,887	392,718	28,122	48,023	2,885
Pitch.....	18-21	ton	6,750	132,796	4,821	94,269	3,138	55,721
Pitch coke.....							547	7,871
Plaster of Paris.....	17	ton	47,660	161,530	16,483	97,410	25,456	140,036
Polishing and grinding materials.....	7			33,353		28,715		17,714
Repair and renewal materials.....	8			459,927		390,398		579,364
Retarder.....	17	lb.	360,432	11,640	250,052	7,243	237,659	6,277
Rubber.....	3	lb.	28,804	6,303	36,668	6,927	54,167	4,423
Salt.....	2	lb.	500,918	1,915	268,703	1,159	64,040	297
Sand.....	5-15-21	cu. yd.	136,900	179,769	154,776	185,199	42,228	55,977
Sand, silica.....	2-3-8-21	ton	119,655	578,918	82,662	398,373	64,460	319,376
Saw dust and shavings.....	2-17	ton	9,434	39,474	4,694	16,511	1,493	5,685
Silver nitrate.....	7	lb.	2,204	11,817	2,018	9,505	1,360	6,773
Sodium carbonate (soda ash).....	6-8-11	lb.	54,496,836	807,596	47,763,713	694,866	43,545,840	598,884
Sodium hydroxide (caustic soda).....	6-10-11	lb.	5,808,722	201,800	4,393,710	146,249	3,287,295	106,600
Solder.....	7	lb.	16,319	4,547	20,301	5,605	8,912	2,375
Starch or paste.....	17	lb.	429,407	31,977	214,161	13,240	132,749	10,321
Steel and wire reinforcing.....	5-17			69,323		151,855		212,396
Stone for cutting and dressing.....	16			2,759,970		1,697,909		870,036
Stone, crushed.....	5-15	cu. yd.	28,904	73,299	33,602	66,210	10,740	17,424
Sugar for aerated waters.....	1	lb.	20,747,273	1,044,188	20,262,080	986,079	16,856,427	827,549
Sulphur.....	11	lb.	901,759	37,959	126,186	4,278	62,244	2,425
Syrups and fruit juices for aerated waters.....	1			320,065		309,280		279,746
Tallow and grease.....	10	lb.	373,030	27,713	273,191	19,505	238,167	14,018
Tar for making electrodes.....	18	Imp. gal.	132,118	8,598	57,718	3,315	92,888	5,044
Water used in coke and gas plants.....	6			41,249		32,713		16,197
Whiting.....	17			754	10,396			
Zinc and tin.....	8			97,510		91,865		
All other materials.....	All ind.			2,240,800		1,818,345		1,823,148
Total.....				107,206,674		78,945,766		74,358,159

Table 14.—Alphabetical List of Products Made in all Industries Classified under the Manufactures of the Non-Metallic Minerals in Canada, 1930, 1931 and 1932

Products	Industry number (See key on page 27)	Unit of measure	1930		1931		1932	
			Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
				\$				\$
Abrasive wheels.....	2			546,276		347,345		293,628
Alumina, fused.....	2		42,894	3,376,908	35,781	3,007,307	6,658	427,628
Ammonia liquor.....	6	lb. N.H.	2,288,680	33,874	2,266,221	29,058	1,700,152	20,352
Ammonium sulphate.....	6	lb.	47,252,029	926,485	43,738,828	608,922	22,099,250	212,182
Asbestos boiler and pipe covering.....	3	ft.	2,684,885	283,312	1,914,431	178,611	1,085,346	83,964
Asbestos brake linings.....	3	ft.	2,452,701	459,616	1,525,843	321,664	1,790,664	309,042
Asbestos packings.....	3	lb.	431,109	197,601	297,041	144,983	181,212	87,682
Asbestos products, not elsewhere specified, including corrugated sheathing, paper, gaskets, shingles, roofing, etc.....	3			1,355,458		647,243		315,683
Asphalt (petroleum).....	11	Imp. gal.	37,506,382	1,993,418	37,940,909	1,836,627	23,093,436	1,934,951
Benzol (motor fuel).....	6	Imp. gal.	4,408,820	895,892	3,125,174	573,679	2,331,171	475,300
Brick, clay—								
Soft mud process—Face.....	12	M	11,350	247,220	5,476	116,316	6,188	108,582
Soft mud process—Common.....	12	M	56,487	861,805	41,177	819,357	12,801	182,372
Stiff mud process (wire cut)—Face.....	12	M	99,284	2,135,871	77,135	1,752,947	30,197	664,756
Stiff mud process—Common.....	12	M	105,225	1,480,965	81,930	1,205,464	40,753	638,922
Dry press—Face.....	12	M	29,434	604,197	20,149	423,357	5,522	119,547
Dry press—Common.....	12	M	16,915	208,495	8,688	107,213	4,248	46,762
Fancy or ornamental, including special shapes embossed and enamelled brick.....	12	M	339	27,649	335	20,773	125	6,237
Sewer brick.....	12	M	804	15,299	2,253	43,692	643	12,156
Paving brick.....	12	M	9	297	19	682	6	155
Brick, cement.....	5			129,409		30,763		58,057
Brick, sand-lime.....	15	M	52,770	567,022	46,003	469,783	10,819	131,440
Building blocks, cement, hollow.....	5-15			802,604		709,976		205,176
Cement, Portland.....	4	brl.	11,032,538	17,713,067	10,161,658	15,826,243	4,498,721	6,930,721
Cement laundry tubs.....	5			54,851		61,662		36,396
Cement stucco.....	5			92,779		108,044		23,502
Cement products, other, including burial vaults, hay-dite blocks and slabs, ready mixed concrete, etc.....	5-15			306,362		538,376		240,885
Cinder blocks.....	5	M		273,097	1,508	231,782		80,322
Coke, petroleum.....	2-11	ton	92,087	517,308	72,339	377,336	73,065	397,936
Coke from gas retorts.....	6	ton	323,230	2,259,829	320,319	2,262,730	306,531	3,008,789
Coke, from beehive and by-product ovens.....	6	ton	2,062,764	13,592,418	1,512,381	10,157,011	1,331,170	9,085,716
Core compound.....	10-21	ton	1,446	75,688	423	19,386	209	9,851
Electrodes, carbon and graphite.....	18	ton	29,506	1,506,217	22,911	1,181,589	15,790	988,034
Facings, foundry.....	21	ton	3,296	77,686	2,523	56,739	1,338	37,583
Fireclay.....	12	ton	2,870	25,975	1,233	14,857	990	11,826
Fireclay blocks and shapes from domestic clay.....	12			147,309		83,039		75,209
Firebrick and stove linings from imported clay.....	13			298,945		280,588		212,838
Firebrick from domestic clay.....	12	M	3,780	177,608	2,248	107,597	1,580	71,757
Gas made—								
Retort coal gas.....	6	M cu. ft.					6,159,569	
Straight coal gas including coke oven gas.....	6	M cu. ft.	29,992,785		24,945,582		16,871,341	
Straight water gas (blue gas).....	6	M cu. ft.	890,986		1,411,374		125,508	
Carburetted water gas.....	6	M cu. ft.	4,561,194		3,930,686		3,987,610	
Mixed coal and water gas.....	6	M cu. ft.	414,970		202,021		72,419	
Oil gas.....	6	M cu. ft.	66,102		53,120		47,975	
Acetylene gas.....	6	M cu. ft.	1,495		178		165	
Total gas made.....	6	M cu. ft.	35,927,532		30,542,961		27,264,587	
Gas sold.....	6	M cu. ft.	17,713,477	13,471,629	17,111,432	13,010,733	17,083,631	12,895,039
Gas used in heating ovens or retorts in coke or gas plants.....	6	M cu. ft.	6,259,021	1,378,352	4,974,874	1,174,380	6,274,218	1,392,273
Gas used in associated metallurgical works.....	6	M cu. ft.	11,019,147	1,221,625	7,316,392	881,481	4,300,510	686,498
Gas otherwise accounted for but not sold.....	6	M cu. ft.	134,519	136,067	180,928	59,975	160,947	58,258
Gas, not accounted for.....	6	M cu. ft.	801,368	859,639	959,335	1,059,085	781,796	816,696
Gas, still, from petroleum refineries.....	11	M cu. ft.	3,529,319	874,151	5,161,905	980,628	3,836,413	824,386

Table 14.—Alphabetical List of Products Made in all Industries Classified under the Manufactures of the Non-Metallic Minerals in Canada, 1930, 1931 and 1932—Continued

Products	Industry number (See key on page 27)	Unit of measure	1930		1931		1932	
			Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
				\$				\$
Gasoline	11	Imp. gal.	445,599,417	60,789,572	469,925,375	50,109,243	399,936,678	43,113,452
Glass, bent plate	7			14,268		17,878		5,959
Glass, bent, sheet	7			7,159		8,555		1,461
Glass, bevelled or polished edge plates	7			626,853		419,941		235,894
Glass, bevelled or polished edge sheets	7			141,783		45,872		40,897
Glass, chipped or edged plate	7			36,053		28,850		25,346
Glass, chipped or edged sheets	7			32,752		42,789		16,624
Glass, cut (tumblers, fruit bowls, etc.)	7			201,704		206,702		156,001
Glass, leaded, including memorial windows	7			446,352		302,130		153,072
Glass, non-shatterable	7			279,523		107,687		77,158
Glass vials and chemical glassware	7			95,083		04,794		96,652
Glass, plate mirrors	7			635,278		551,049		414,108
Glass, pressed and blown	8			8,551,045		6,981,572		6,690,367
Glass, sheet mirrors	7			20,594		51,944		25,963
Glass store fronts and show-cases	7			396,172		336,188		44,313
Glass products, not elsewhere specified, including ophthalmic lenses, lamp shades, framed mirrors, auto wind-shields, etc.	7			559,059		605,940		366,728
Granite, cut and polished for building purposes	16			902,519		1,032,202		79,136
Grease, lubricating	10-11	lb.	14,188,469	339,797	14,769,621	243,795	9,893,994	566,782
Gypsum products including blocks, wallboard, wall-plasters, tile, acoustical plasters, etc.	17			2,001,710		1,621,382		1,222,004
Kerosene	11	Imp. gal.	43,606,881	5,301,852	39,465,559	4,130,082	52,525,057	5,147,307
Lime, hydrated	9	ton	73,881	835,559	65,277	609,431	52,382	479,022
Lime, quick	9	ton	416,921	3,203,139	279,508	2,064,984	268,268	1,915,515
Limestone for building purposes	16			2,706,390		1,372,121		636,294
Marble chips and dust	16			29,625		5,513		5,191
Marble, cut and polished, for building purposes	16			1,339,108		1,054,952		339,627
Mineral water, natural (fertilized or not)	1			178,348		149,730		92,066
Monuments, lettered only	16			816,308		613,593		487,286
Monuments, granite, cut and polished	16			1,815,143		1,584,099		1,164,283
Monuments and bases, limestone	16			319,472		43,584		43,652
Monuments, marble, cut and polished	16			350,323		257,668		180,323
Oil, core	10-21	Imp. gal.	100,541	73,222	43,348	25,976	25,335	13,306
Oil, fuel and gas	11	Imp. gal.	434,504,279	16,428,518	428,753,431	14,040,427	366,273,887	13,049,400
Oils, light, from coke and gas plants	6	Imp. gal.	493,203	53,778	30,031	2,777	918	184
Oils, lubricating	10-11	Imp. gal.	19,767,124	3,669,276	15,961,224	3,034,906	15,606,791	3,908,432
Parting, foundry	21	lb.	278,203	9,195	176,000	5,703		3,497
Petroleum spirits, including engine distillate, V.M.P. or solvent naphthas	11	Imp. gal.	7,164,960	871,727	8,491,457	771,453	17,922,683	2,024,486
Pipe, drain, cement	5			44,301		82,684		5,581
Pipe, sewer, water, and culvert, cement	5			1,137,642		1,290,452		915,663
Pipe sewer, clay, including fluelinings, copings, etc.	12-13			1,786,815		1,639,734		923,113
Potters, glazed or unglazed	12-13			336,666		300,139		253,226
Repairs and custom work	3-7			34,097		17,452		36,967
Salt	4	ton		1,694,631	259,047	1,904,149	263,543	1,947,551
Silicon carbide, crude	2	ton	22,778	2,111,476	10,754	1,060,712	3,164	269,405
Soap	10	lb.	374,854	34,841	308,660	27,283	290,955	29,092
Soda water and other carbonated beverages, non-alcoholic	1			12,049,534		11,812,001		10,081,932
Stones, artificial	5			877,659		824,056		226,057
Stones, sharpening, and files	2			20,779				36,902
Syrup and fruit juices	1			1,176,603		972,692		798,766

Table 14.—Alphabetical List of Products Made in all Industries Classified under the Manufacture of the Non-Metallic Minerals in Canada, 1930, 1931 and 1932—Concluded

Products	Industry number (See key on page 27)	Unit of measure	1930		1931		1932	
			Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
				\$				\$
Tar, coal.....	6	Imp. gal.	27,378,400	1,757,902	21,460,080	1,426,537	20,176,843	1,158,506
Tar, petroleum.....	11	Imp. gal.	1,017,500	8,140	902,000	9,020	11,897	996
Tile, drain (from domestic clay).....	12	M	25,291	687,070	12,518	328,410	7,385	186,070
Tile, structural (from domestic clay): Hollow blocks including fireproofing and loadbearing tile.....	12	ton	165,359	1,668,130	105,635	1,046,634	48,118	421,672
Roofing tile.....	12	ton			6,935	720		3,900
Floortile (quarries).....	12	sq. ft.	179,786	56,230	107,499	31,415	94,315	21,502
Wax and candles.....	11	lb.	10,154,153	453,601	10,097,478	368,686	9,106,153	417,333
All other products, including products reported by only 1 or 2 concerns such as abrasive cloth and paper, artificial pulpstones, ferro-silicon, mica plate, mica splittings, porcelain sanitaryware, floor tile, porcelain insulators, asphalt emulsion, wax and chalk crayons, slate panels, sanioyx materials, porcelain enamel frit, pulverized ores for fillers, etc.....	1, 2, 6, 8, 10, 11, 12, 13, 15, 16, 18, 19, 21			4,517,626		3,942,816		2,952,204
Total.....				216,812,827		181,431,906		147,765,618

KEY TO NUMBERED INDUSTRIES

Industries	Industry number
Aerated Waters.....	1
Artificial Abrasives and Abrasive Products.....	2
Asbestos Products.....	3
Cement.....	4
Cement Products.....	5
Coke and Gas.....	6
Glass:—	
Plate, Cut and Ornamental.....	7
Pressed and Blown.....	8
Lime.....	9
Petroleum Products:—	
Lubricating Oils and Greases.....	10
Petroleum Refining.....	11
Products from Domestic Clays.....	12
Products from Imported Clays.....	13
Salt.....	14
Sand-Lime Brick.....	15
Stone, Monumental and Ornamental.....	16
Miscellaneous—	
Gypsum Products.....	17
Graphite and Its Products.....	18
Magnesite Products.....	19
Mica Trimming.....	20
Non-Metallic Mineral Products, n.e.s.....	21

CHAPTER TWO

THE AERATED WATERS INDUSTRY

Production from the aerated waters industry in 1932 was valued at \$11,067,886. This output was 15 per cent under the value of \$13,064,353 for 1931 and 18 per cent under the record of \$13,550,407 reported for 1930.

In 1932 there were 398 plants in Canada engaged chiefly in making non-alcoholic carbonated beverages. Of these, 157 were located in Ontario, 123 in Quebec, 27 in Nova Scotia, 25 in British Columbia, 21 in New Brunswick, 15 in Saskatchewan, 15 in Alberta, 13 in Manitoba, and 2 in Prince Edward Island. About 43 per cent, or 170 of these plants reported outputs valued at less than \$5,000, and 158 more each gave production at less than \$25,000. The 15 works with individual outputs in excess of \$100,000 accounted for 60 per cent of the total for the industry.

These plants employed capital amounting to \$12,640,708 and gave work to a monthly average of 2,302 people who were paid \$2,682,099 as salaries and wages. Purchased materials cost \$2,760,548 at the works and included over 8,400 tons of sugar at \$827,549, 1,000 tons of carbon dioxide gas at \$182,098, flavouring materials at \$792,009; and bottles, cases, etc., at \$677,393. The value added to these materials by manufacturing processes amounted to \$8,307,338. Products included \$10,081,932 of soda water and other non-alcoholic carbonated beverages, \$798,766 of syrups and fruit juices, and \$92,066 of natural mineral water.

In addition to the production of carbonated beverages in this industry, there was an output worth \$413,510 by concerns classified in the Brewing Industry. Thus the total Canadian output was valued at \$10,495,472.

Imports into Canada of mineral and aerated waters were valued at \$110,040 during 1932 and exports for the same period amounted to \$7,361.

Table 15.—Principal Statistics by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
1930								
Prince Edward Island and Nova Scotia.....	31	465,141	111	105,016	6,174	121,672	381,817	260,145
New Brunswick.....	21	598,223	90	95,225	5,228	150,769	501,889	351,120
Quebec.....	110	5,646,569	931	1,160,726	55,135	1,341,230	5,575,999	4,234,769
Ontario.....	155	5,571,792	898	1,124,790	53,017	1,441,923	5,012,858	3,570,935
Manitoba.....	11	724,407	99	146,008	6,827	168,197	657,505	480,308
Saskatchewan.....	15	559,634	82	103,604	6,730	95,227	327,137	231,910
Alberta.....	16	826,000	116	159,240	7,389	192,398	630,544	438,146
British Columbia.....	23	543,032	113	140,842	4,982	155,780	462,658	306,872
Canada.....	395	11,931,798	2,440	3,044,451	145,582	3,667,202	13,550,407	9,883,205
1931								
Prince Edward Island and Nova Scotia.....	32	594,603	115	96,702	6,508	114,469	385,828	271,359
New Brunswick.....	22	589,738	86	94,140	5,763	94,154	378,934	284,780
Quebec.....	114	5,577,092	923	1,149,945	58,520	1,257,932	5,532,940	4,275,008
Ontario.....	162	5,010,139	909	1,166,087	54,021	1,393,307	5,082,525	3,719,218
Manitoba.....	12	579,196	127	150,545	6,883	159,282	610,316	451,034
Saskatchewan.....	18	433,832	69	79,620	6,192	65,076	243,017	177,341
Alberta.....	16	704,836	116	150,153	7,201	125,495	407,340	281,845
British Columbia.....	26	433,934	95	120,669	4,726	120,461	393,453	272,992
Canada.....	402	13,923,371	2,440	3,007,861	152,814	3,300,776	13,064,353	9,763,577
1932								
Prince Edward Island and Nova Scotia.....	29	376,342	87	70,637	6,475	76,150	208,705	132,555
New Brunswick.....	21	531,043	72	72,768	4,434	76,380	274,111	197,731
Quebec.....	123	5,196,430	955	1,119,400	64,691	1,211,477	5,125,491	3,914,014
Ontario.....	157	4,496,327	790	963,277	49,079	970,773	3,894,651	2,923,878
Manitoba.....	13	540,030	125	144,832	7,853	153,192	627,088	473,876
Saskatchewan.....	15	379,697	60	71,804	6,490	65,874	210,357	144,483
Alberta.....	15	717,377	110	128,450	6,580	108,453	404,968	296,515
British Columbia.....	26	403,456	103	110,931	5,440	98,249	322,535	224,286
Canada.....	398	12,640,708	2,302	2,682,099	151,942	2,760,548	11,067,886	8,307,338

Table 16.—Principal Statistics, by Groups of Production Values and Groups of Employees, 1931 and 1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value of products at work	Number of plants	Capital employed	Number of employees	Selling value of products at work
(a) Production values		\$		\$		\$		\$
Under 5,000.....	145	750,819	212	375,138	170	986,351	251	415,562
5,000 to 10,000.....	80	890,096	187	548,731	74	1,028,252	211	517,653
10,000 to 25,000.....	87	2,022,348	395	1,416,514	81	2,062,696	401	1,280,259
25,000 to 50,000.....	53	2,015,307	426	1,760,329	41	1,784,639	352	1,294,091
50,000 to 100,000.....	21	1,781,194	339	1,471,521	14	1,271,885	256	994,074
100,000 to 250,000.....	8	1,647,790	234	1,109,445	7	1,397,925	218	934,516
250,000 to 500,000.....	4	877,886	182	1,400,276	5	2,042,725	250	1,753,106
Over 500,000.....	4	3,837,931	465	4,902,399	3	2,066,235	333	3,872,020
Total.....	402	13,923,371	2,440	13,064,333	398	12,640,708	2,302	11,067,886
(b) Number of employees								
1 or 2.....	190	1,375,939	248	824,181	199	1,473,926	275	741,852
3 to 10.....	168	4,051,491	839	3,162,725	160	3,706,638	781	2,510,888
11 to 20.....	26	1,993,324	376	1,689,381	18	1,469,188	248	961,226
21 to 50.....	11	1,593,900	334	1,502,257	15	2,216,134	437	2,035,735
Over 50.....	7	4,908,657	643	5,825,800	6	3,774,822	561	4,818,185
Total.....	402	13,923,371	2,440	13,064,333	398	12,640,708	2,302	11,067,886

Table 17.—Capital Employed, by Classes, by Provinces, 1930-1932

Provinces	Value of lands, buildings, machinery and equipment	Inventory value of materials on hand, stocks in process, fuel and other supplies	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, etc.)	Total
	\$	\$	\$	\$	\$
1930					
Prince Edward Island and Nova Scotia.....	293,034	43,845	127,362		465,141
New Brunswick.....	328,139	121,960	148,124		598,223
Quebec.....	4,043,038	747,845	855,086		5,646,569
Ontario.....	3,950,683	791,401	829,708		5,571,792
Manitoba.....	578,858	78,216	67,333		724,407
Saskatchewan.....	384,334	110,024	65,250		559,634
Alberta.....	462,470	220,264	143,266		826,000
British Columbia.....	336,204	156,977	49,851		543,032
Canada.....	10,377,680	2,270,532	2,296,586		14,944,798
1931					
Prince Edward Island and Nova Scotia.....	285,840	40,702	55,240	112,821	594,603
New Brunswick.....	316,607	98,119	12,415	162,597	589,738
Quebec.....	3,889,403	735,278	101,587	850,824	5,577,092
Ontario.....	3,269,077	571,223	96,297	1,073,542	5,010,139
Manitoba.....	447,983	82,380	6,120	42,713	579,196
Saskatchewan.....	312,103	81,973	5,222	54,535	453,833
Alberta.....	506,284	70,440	15,198	112,914	704,836
British Columbia.....	274,361	84,271	9,312	65,090	433,934
Canada.....	9,401,658	1,744,356	301,391	2,475,936	13,923,371
1932					
Prince Edward Island and Nova Scotia.....	274,271	42,352	5,326	54,390	376,342
New Brunswick.....	311,064	105,531	9,221	105,227	531,043
Quebec.....	3,634,008	636,409	105,337	819,782	5,196,436
Ontario.....	3,090,812	590,857	86,562	818,065	4,596,322
Manitoba.....	426,027	49,266	6,035	58,702	540,030
Saskatchewan.....	252,395	53,104	3,791	70,347	379,637
Alberta.....	442,081	144,227	15,542	115,527	717,377
British Columbia.....	240,523	92,169	9,082	61,682	403,456
Canada.....	8,582,112	1,713,975	249,899	2,103,722	12,640,708

MANUFACTURES OF NON-METALLIC MINERALS

Table 18.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees				Salaries and Wages			
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
					\$	\$	\$	
1930								
Prince Edward Island.....	1		5	3	9	936	3,723	4,659
Nova Scotia.....	9		83	8	102	30,677	69,680	100,357
New Brunswick.....	22	2	61	2	90	37,781	57,444	95,225
Quebec.....	168	39	697	27	931	303,058	866,668	1,169,726
Ontario.....	189	39	629	41	898	426,857	697,933	1,124,790
Manitoba.....	27	6	65	1	99	59,663	86,315	146,008
Saskatchewan.....	22	2	55	3	82	40,923	62,681	103,604
Alberta.....	20	7	78	11	116	49,563	109,677	159,240
British Columbia.....	28	4	77	4	113	56,160	84,682	140,842
Canada.....	486	104	1,750	100	2,440	1,005,618	2,038,833	3,044,451
1931								
Prince Edward Island and Nova Scotia.....	15	4	87	9	115	23,494	73,208	96,702
New Brunswick.....	18	6	61	1	86	36,715	57,425	94,140
Quebec.....	159	38	699	27	923	340,861	809,084	1,149,945
Ontario.....	185	38	650	36	909	421,043	745,044	1,166,087
Manitoba.....	25	6	93	3	127	54,347	96,198	150,545
Saskatchewan.....	15	1	50	3	69	27,905	51,625	79,620
Alberta.....	27	5	73	11	116	54,528	95,625	150,153
British Columbia.....	23	3	65	4	95	36,104	84,565	120,669
Canada.....	467	101	1,778	94	2,440	995,087	2,012,774	3,007,861
1932								
Prince Edward Island and Nova Scotia.....	15	3	63	6	87	21,718	48,919	70,637
New Brunswick.....	15	4	53		72	28,900	43,859	72,768
Quebec.....	179	40	710	26	955	337,581	781,819	1,119,400
Ontario.....	196	38	535	21	790	370,802	592,475	963,277
Manitoba.....	29	6	89	1	125	51,415	93,417	144,832
Saskatchewan.....	15	1	43	1	60	24,047	47,757	71,804
Alberta.....	30	4	67	9	110	59,420	69,021	128,450
British Columbia.....	33	5	64	1	103	45,802	65,039	110,931
Canada.....	512	101	1,624	65	2,302	939,793	1,742,306	2,682,099

Table 19.—Wage-Earners by Months, 1930-1932

(On the 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January.....	1,354	80	1,434	1,478	71	1,549	1,370	60	1,430
February.....	1,345	79	1,424	1,478	70	1,548	1,383	61	1,444
March.....	1,410	81	1,491	1,505	73	1,578	1,397	59	1,456
April.....	1,534	87	1,621	1,636	76	1,712	1,536	67	1,603
May.....	1,810	94	1,904	1,880	81	1,961	1,801	81	1,882
June.....	2,020	97	2,117	1,997	83	2,080	1,888	72	1,960
July.....	2,099	101	2,200	2,192	80	2,278	1,980	75	2,055
August.....	2,105	97	2,202	2,122	85	2,207	1,946	75	2,021
September.....	1,802	100	1,902	1,905	83	1,988	1,732	60	1,801
October.....	1,637	97	1,734	1,682	76	1,758	1,536	62	1,598
November.....	1,537	95	1,632	1,580	76	1,656	1,448	62	1,510
December.....	1,528	94	1,622	1,552	73	1,625	1,437	62	1,499
Average.....	1,750	100	1,850	1,778	94	1,872	1,624	65	1,689

Table 20—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal—Canadian	short ton	2,351	19,014	1,885	14,763	2,375	15,787
Imported	short ton	3,806	28,328	3,364	27,866	3,112	22,459
Anthracite coal	short ton	881	12,101	805	11,570	735	10,332
Lignite coal—Canadian	short ton	368	2,277	220	1,120	357	2,327
Coke	short ton	222	2,586	243	2,600	228	2,719
Gasoline	imp. gal.	17,889	4,774	12,231	3,740	16,855	5,070
Kerosene	imp. gal.	1,423	360	579	97	3,538	773
Fuel oil	imp. gal.	22,326	2,692	52,485	5,181	45,727	4,888
Wood	cord	1,007	5,381	1,090	5,447	1,334	5,836
Gas—Manufactured	M cu. ft.	2,269	2,263	2,029	2,210	2,030	2,086
Natural	M cu. ft.	11,194	4,255	7,523	3,671	9,111	4,190
Other fuel			116		995		967
Electricity purchased	K.W.H.	2,638,823	61,435	3,176,832	73,554	3,248,484	74,458
Total			145,582		152,814		151,942

Table 21.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total horsepower	Number of units	Total horsepower	Number of units	Total horsepower
Steam engines and turbines	9	146	10	190	8	166
Gasoline, gas and oil engines	14	39	11	29	9	21
Hydraulic turbines or water wheels	1	2	2	5	1	4
Total primary Power	24	187	23	224	18	191
Electric motors run by purchased power	1,001	2,581	1,231	3,123	1,777	2,911
Total Power employed	1,025	2,768	1,254	3,347	1,795	3,102
Electric motors run by primary power in same plant						
Total electric motors	1,001	2,581	1,231	3,123	1,777	2,911
Boilers	45	1,183	45	1,183	57	1,601

Table 22.—Materials Used in Manufacturing, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Carbon dioxide gas	lb.	2,408,694	241,915	2,396,592	217,262	2,020,941	182,098
Flavouring extracts and essences			713,488		625,491		521,442
Sugar	lb.	20,747,273	1,044,188	20,262,080	986,079	16,856,427	827,549
Syrups and fruit juices			320,065		309,280		279,746
Boxes, cases, bottles, caps, etc.			1,070,523		951,395		677,393
All other materials			277,023		211,269		272,320
Total			3,667,202		3,300,776		2,760,548

Table 23.—Products, 1930-1932

Products	Selling value at works		
	1930	1931	1932
	\$	\$	\$
Natural mineral water (fortified or not)	178,348	140,730	92,066
Soda water and other carbonated beverages (non-alcoholic) (*)	12,049,534	11,812,901	10,081,932
Syrups and fruit juices	1,176,663	972,692	798,766
All other products	145,862	138,930	95,122
Total	13,550,407	13,061,353	11,067,886

(*) In addition to the production of carbonated beverages in this industry there was an output valued at \$849,907 in 1930, \$721,131 in 1931 and \$413,540 in 1932 by concerns classified in the Brewing Industry.

Table 24.—Total Production in Canada of Soda Water and Other Carbonated Beverages, 1925-1932

Years	Selling value at works		
	In aerated waters industry	In brewing industry	Total
	\$	\$	\$
1925.....	5,731,217	524,675	6,255,892
1926.....	6,257,058	538,805	6,796,463
1927.....	7,062,967	609,591	7,672,558
1928.....	8,902,542	827,708	9,730,250
1929.....	10,874,570	958,356	11,832,926
1930.....	12,049,534	849,907	12,899,441
1931.....	11,812,001	721,131	12,533,132
1932.....	10,081,932	413,540	10,495,472

Table 25.—Total Production in Canada of Soda Water and Other Carbonated Beverages, by Provinces, 1929-1932

(Including production from the Brewing Industry)

Provinces	Selling value at works			
	1929	1930	1931	1932
	\$	\$	\$	\$
Prince Edward Island and Nova Scotia.....	321,004	366,902	341,114	193,572
New Brunswick.....	417,163	479,706	374,295	273,082
Quebec.....	4,541,618	4,890,844	4,978,055	4,689,489
Ontario.....	4,241,457	4,914,044	5,034,828	3,740,558
Manitoba.....	793,834	815,233	743,296	677,570
Saskatchewan.....	356,623	294,138	220,468	194,863
Alberta.....	772,393	672,501	444,332	410,647
British Columbia.....	388,834	459,473	390,744	315,682
Canada.....	11,832,926	12,899,441	12,533,132	10,495,472

Primary Production of Mineral Waters.—(From the Annual Report on the *Mineral Production of Canada*). Mineral springs and wells in Canada produced 79,066 imperial gallons of commercial mineral waters during 1932. This output was valued at \$7,171. The production during the previous year totalled 217,408 gallons worth \$13,324.

Table 26.—Production in Canada, Imports and Exports of Mineral Waters, 1930-1932

	1930		1931		1932	
	Imp. gal.	Value	Imp. gal.	Value	Imp. gal.	Value
		\$		\$		\$
PRODUCTION, BY PROVINCES—						
Quebec.....	12,941	3,727	19,868	4,746	17,858	4,098
Ontario.....	214,200	20,754	197,540	8,578	61,208	2,473
Total.....	227,141	24,481	217,408	13,324	79,066	7,171
IMPORTS—Mineral and aerated waters.....		195,257		154,971		110,040
EXPORTS—Mineral and aerated waters.....		10,017		13,411		7,361

CHAPTER THREE

ARTIFICIAL ABRASIVES AND ABRASIVE PRODUCTS

Production of artificial abrasives in Canada declined very severely in 1932, the tonnage of silicon carbide and fused alumina at 9,822 tons being only 21 per cent of the 1931 output of 46,535 tons which in turn was 29 per cent below the total of 65,672 tons in 1930. The record production was in 1929 when 75,419 tons were made.

In 1932, the value of output by firms which made artificial abrasives and abrasive products was \$1,489,555 compared with \$4,857,914 in 1931 and \$6,450,350 in 1930. Reports were received from 14 plants of which 13 were located in Ontario and 1 in Quebec, the same as in 1931. Capital employed was reported at \$5,865,031 of which over one-half represented the value of buildings, machinery and other equipment. An average of 386 people were given work over the yearly period and were paid \$519,013 in salaries and wages. Materials for manufacturing cost \$449,624 and fuel and electricity cost \$480,601. The cost of electricity at \$461,916 appears high in comparison with production for the reason that the furnace operators purchase electric power on a contract basis and the deliveries on contract in 1932 were much in excess of requirements on the reduced scale of operations.

Artificial abrasives were made in 6 plants located near the power centres of Niagara Falls and Shawinigan Falls; fused alumina was made in 5 works and crude silicon carbide in 3 establishments. Practically the whole output from these works was shipped in the crude state to the parent plants in the United States for crushing, cleaning and grading. However, extensive additions have been made recently to leading Canadian plants.

Abrasive wheels were produced in 7 factories, all in Ontario. Output of wheels was valued at \$293,528 in 1932 against \$347,345 in 1931, a drop of 15 per cent. Abrasive cloth and paper were made in 2 factories.

Imports of abrasives declined to \$728,980 in 1932 from \$1,265,703 in the previous year and exports dropped to \$1,012,353 from \$2,026,250.

Table 27.—Principal Statistics, 1930-1932

	1930	1931	1932
Number of firms.....	13	14	14
Capital employed.....	\$ 6,251,425	6,070,652	5,865,031
Number of employees—On salaries.....	106	138	136
On wages.....	693	553	250
Total.....	799	691	386
Salaries and wages—Salaries.....	\$ 244,054	315,654	261,190
Wages.....	912,587	667,166	257,823
Total.....	\$ 1,156,641	982,820	519,013
Cost of fuel and electricity at works.....	\$ 815,901	640,815	430,601
Cost at works of materials used.....	2,313,310	1,709,983	449,624
Selling value of products at works.....	\$ 6,450,351	4,857,914	1,489,555

Table 28—Capital employed, by classes, 1930-1932

	1930	1931	1932
	\$	\$	\$
Value of lands, buildings, machinery and equipment.....	3,331,763	3,141,070	3,106,639
Inventory value of materials on hand, stocks in process, fuel and other supplies on hand.....	2,114,802	845,708	783,536
Inventory value of finished products on hand.....		1,458,093	1,349,081
Operating capital (cash, bills and accounts receivable, etc.).....	804,800	625,721	625,775
Total.....	6,251,425	6,070,652	5,865,031

MANUFACTURES OF NON-METALLIC MINERALS

Table 29.—Wage-Earners, by Months, 1930-1932
(On the 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	730	16	746	624	7	631	327	1	328
February	706	16	722	595	7	602	291	1	292
March	697	16	713	598	6	604	257	1	258
April	689	17	706	602	7	609	247	1	248
May	653	18	671	571	7	578	183	1	184
June	680	19	699	542	7	549	175	1	176
July	670	19	689	543	6	549	210	1	211
August	684	19	703	550	7	557	216	1	217
September	685	18	703	546	7	553	225	1	226
October	625	18	643	472	7	479	277	1	278
November	599	17	616	470	5	475	298	1	299
December	595	17	612	456	5	461	273	1	274
Average	676	17	693	546	7	553	249	1	250

Table 30.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Bituminous coal—Canadian	short ton	85	\$ 576	25	\$ 164	776	\$ 3,867
Imported	short ton	3,461	19,320	2,991	16,741	1,908	11,323
Anthracite coal (for fuel only)	short ton	455	4,841	435	4,076	280	2,739
Coke (for fuel only)	short ton	156	1,566	54	440	8	26
Kerosene	imp. gal.	25	6	20	4	.....	.....
Fuel oil	imp. gal.	.....	.....	650	60	20	3
Gas—Manufactured	M cu. ft.	324	300	325	276	442	366
Natural	M cu. ft.	402	352	372	304	429	330
Other fuel	.....	.....	.....	.....	300	.....	31
Electricity purchased	K. W. H.	307,138,760	788,940	248,958,711	618,444	186,812,496	461,916
Total	.....	.....	815,961	.....	640,815	.....	480,691

Table 31.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horsepower	Number of units	Total rated horsepower	Number of units	Total rated horsepower
Primary power	.....	.....	.....	.....	.....	.....
Electric motors run by purchased power	414	6,150	470	6,123	579	6,183
Total power employed	414	6,150	470	6,123	579	6,183
Boilers	6	600	7	690	8	708

Table 32.—Materials Used, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Anthracite coal (not for fuel)	ton	7,400	\$ 42,121	2,093	\$ 13,640	1,179	\$ 6,185
Bauxite and alumina	ton	48,860	1,016,865	38,677	921,882	8,675	150,164
Coke (not for fuel)—	.....	.....	.....	.....	.....	.....	.....
For fused alumina	ton	3,652	20,728	2,209	10,950	679	3,322
For silicon carbide	ton	21,694	290,057	11,031	136,122	3,518	41,589
Electrodes	ton	884	124,478	609	83,834	164	20,798
Feldspar	ton	19	370	8	190	6	173
Iron—For artificial abrasives	ton	6,041	74,049	3,733	28,910	1,169	6,045
For ferrosilicon	ton	246	2,854	.....	.....	73	440
Salt	ton	250	1,915	134	1,150	32	297
Sawdust	ton	8,626	33,028	4,266	12,616	1,338	3,434
Silica sand	ton	45,595	223,499	19,358	98,371	5,207	27,588
Artificial abrasive grains	ton	2,959	126,144	1,780	82,175	385	56,157
Natural abrasive grains	ton	102	8,482	260	22,144	138	19,329
Bonding and busbing materials	.....	.....	28,619	.....	43,868	.....	15,330
Cotton cloth	sq. yd.	90,777	13,091	243,978	22,603	276,744	30,067
Kraft paper	ton	23	2,887	196	28,122	24	2,885
Containers, boxes, packages, etc.	.....	.....	9,961	.....	3,671	.....	4,223
All other materials	.....	.....	294,162	.....	199,006	.....	51,698
Total	.....	.....	2,313,310	.....	1,799,963	.....	449,624

Table 33.—Products, 1930-1932

Products	Unit of measure	1930		1931		1932	
		Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$		\$
Crude silicon carbide.....	ton	22,778	2,111,476	10,754	1,060,712	3,164	269,405
Fused alumina.....	ton	42,894	3,376,908	35,781	3,007,307	6,658	427,628
Abrasive wheels.....			546,276		347,345		293,528
Sharpening stones and files.....					20,779		36,902
Other products (*).....			415,691		421,771		462,092
Total.....			6,459,351		4,857,914		1,489,555

(*) Includes ferrosilicon, abrasive cloth, abrasive paper, refractories, tiles, artificial pulpstones, etc.

Table 34.—Production of Artificial Abrasives in Canada, 1923-1932

Years	Silicon carbide		Fused alumina		Total	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
	Tons	\$	Tons	\$	Tons	\$
1923.....	12,660	1,382,747	32,201	3,620,497	44,861	5,003,244
1924.....	15,207	1,773,864	29,822	3,170,205	45,029	4,944,069
1925.....	16,945	1,864,009	30,337	3,281,708	47,282	5,145,717
1926.....	17,958	1,732,942	34,649	3,423,526	52,607	5,156,468
1927.....	17,333	1,961,910	35,086	3,230,928	52,419	5,192,838
1928.....	19,008	2,098,199	39,413	3,786,113	58,421	5,884,312
1929.....	21,592	2,577,033	53,857	4,974,789	75,449	7,551,822
1930.....	22,778	2,111,476	42,894	3,376,908	65,672	5,488,384
1931.....	10,754	1,060,712	35,781	3,007,307	46,535	4,068,019
1932.....	3,164	269,405	6,658	427,628	9,822	697,033

Table 35.—Production of Artificial Abrasive Wheels* in Canada, 1923-1932

Years	Selling value at works
	\$
1923.....	566,426
1924.....	425,384
1925.....	426,341
1926.....	619,124
1927.....	634,007
1928.....	847,489
1929.....	819,884
1930.....	546,276
1931.....	347,345
1932.....	293,528

(*) Sharpening stones and artificial pulpstones not included.

Table 36.—Directory of Firms in the Artificial Abrasives and Abrasive Products Industry, 1932

Name	Address	Products
(a) Artificial Abrasives		
Abrasive Co. of Canada, Ltd.	858 Burlington St. E., Hamilton, Ont.	Fused alumina; ferrosilicon.
Canadian Carborundum Co. Ltd.	H.O.—P.O. Box 65, Niagara Falls, Ont. Plants—Shawinigan Falls, P.Q., Niagara Falls, Ont.	Crude silicon carbide; fused alumina; ferrosilicon; refractories.
Exolon Company	H.O.—Blasdell, N.Y., U.S.A. Plant—Thorold, Ont.	Crude silicon carbide; fused alumina; refractories; ferrosilicon.
Lionite Abrasives Ltd.	H.O.—College Ave., Niagara Falls, N.Y., U.S.A. Plant—Stamford, Ont.	Fused alumina; ferrosilicon.
Norton Company	H.O.—Worcester, Mass., U.S.A. Plant—Chippawa, Ont.	Fused alumina; crude silicon carbide ferrosilicon; boron carbide.
(b) Abrasive Products		
Brantford Grinding Wheel Co. Ltd.	186 Pearl St., Brantford, Ont.	Abrasive wheels.
Canada Sand Papers Ltd.	H.O.—Box 260, Preston, Ont. Plant—Platts-ville, Ont.	Abrasive cloth; abrasive paper.
Canadian Carborundum Co. Ltd.	Niagara Falls, Ont.	Abrasive wheels, sharpening stones and files.
Canadian Durex Abrasives Ltd.	154 Pearl St., Toronto, Ont.	Abrasive cloth; abrasive paper.
Canadian Hurt Wheels Co. Ltd.	491 Dundas St., Galt, Ont.	Abrasive wheels.
Dominion Abrasive Wheel Co. Ltd.	49 Main St., Mimico, Ont.	Abrasive wheels.
Lion Grinding Wheels Ltd.	192 Pearl St., Brockville, Ont.	Abrasive wheels; mower files and blocks.
Norton Company of Canada, Ltd.	3 Beach Road, Hamilton, Ont.	Abrasive wheels, artificial pulp-stones; tiles.
Ontario Abrasive Wheels Ltd.	Prescott, Ont.	Abrasive wheels.

Table 37.—Imports into Canada and Exports of Abrasives, 1930-1932

Item	1930		1931		1932	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
IMPORTS—						
Artificial abrasives in bulk, crushed or ground, when imported for use in the manufacture of abrasive wheels and polishing composition		205,042		184,280		151,419
Carborundum wheels or stones not further manufactured than moulded and burned		57,731				
Diamond dust or bort, and black diamonds for borers		1,440,871		450,148		129,703
Diatomaceous earth or infusorial earth (Kieselguhr) ground or unground .cwt.	6,582	12,004	17,000	25,788	2,009	2,944
Emery in bulk, crushed or ground		37,353		26,280		31,252
Grinding wheels, manufactured by bonding together of either natural or artificial abrasive		150,503		125,673		132,373
Grinding stones or blocks manufactured by the bonding together of either natural or artificial abrasives		127,795		28,069		30,010
Grindstones, not mounted, and not less than 36 inches in diameter		229,436		111,770		83,896
Grindstones, n.o.p.		12,134		7,228		3,587
Pumice and pumice stone, lava and calcareous tufa, not further manufactured than ground		36,089		34,542		22,301
Sand paper, glass, flint and emery paper or emery cloth		342,771		201,277		91,485
Iron sand or globules or iron shot and dry putty, for use in polishing glass or granite, or for sawing stone		41,758		25,319		8,142
Manufactures of emery or of artificial abrasives, n.o.p.		*00		44,429		38,778
Burrstones in blocks, rough or unmanufactured, not bound up or prepared for binding into mill-stones. No.	21	1,007				
Total		2,694,534		1,265,793		728,980
EXPORTS—						
Grindstones, manufactured		11,674		10,776		7,541
Natural abrasives, n.o.p., in ore or bulk, including infusorial earth, tripoli, etc.	7,455	8,072	14,372	14,185	22,419	27,169
Artificial abrasives, crude, including silicon carbide .cwt.	1,128,775	2,842,289	851,206	1,081,713	246,177	953,422
Artificial abrasives, made up into wheels, stones, etc.		36,489		19,576		24,221
Total		2,899,421		2,026,250		1,012,353

*From December, 1930.

Primary Production.—(From the annual report on the *Mineral Production of Canada*).—**Natural Abrasives.**—Production data on diatomite, garnets, grinding pebbles, grindstones pulpstones, scythestones, and volcanic dust in Canada during 1932, was reported as follows:—

DIATOMITE.—Production of diatomite in Canada during 1932 totalled 1,496 tons valued at \$29,509 as compared with an output of 1,610 tons worth \$32,789 in 1931. Production was reported from Nova Scotia, Ontario and British Columbia.

GRINDSTONES, PULPSTONES AND SCYTHESTONES.—Production of grindstones, pulpstones and scythestones from Nova Scotia, New Brunswick and British Columbia quarries during 1932 totalled 328 tons valued at \$15,735 as compared with a total Canadian output of 621 tons worth \$38,103 during the previous year.

VOLCANIC DUST.—Volcanic dust produced in Saskatchewan in 1932 amounted to 180 tons valued at \$3,600 as compared with 128 tons worth \$2,560 in 1931.

GARNETS.—Labelle Nickel and Garnet Company shipped 100 tons of crude ore from Joly county, Quebec, to the United States for experimental purposes in 1932.

Table 38.—Production of Natural Abrasives, 1932

Province	Diatomite		Grindstones, pulpstones and scythestones		Volcanic dust	
	Tons	\$	Tons	\$	Tons	\$
Nova Scotia.....	1,438	28,760	12	433		
New Brunswick.....			256	11,802		
Ontario.....	11	309				
Saskatchewan.....					180	3,600
British Columbia.....	47	440	60	3,500		
Canada.....	1,496	29,509	328	15,735	180	3,600

Table 39.—Principal Statistics of the Natural Abrasives Industry, 1930-1932

	1930	1931	1932
Number of firms.....	10	8	10
Capital employed.....	345,302	1,310,108	679,865
Number of employees—On salaries.....	11	9	9
On wages.....	34	22	27
Total.....	45	31	36
Salaries and wages—Salaries.....	18,090	11,856	11,671
Wages.....	24,777	13,981	14,800
Total.....	42,867	25,837	26,471
Cost of fuel and electricity.....	4,305	3,906	2,422
Selling value of products.....	80,108	73,452	48,844

CHAPTER FOUR

THE ASBESTOS PRODUCTS INDUSTRY

Asbestos goods manufactured in Canada consist chiefly of brake linings, clutch facings, packings, pipe covering and building materials such as lumber, shingles, paper, roofing, tile, etc.

In 1932 there were 13 factories making this class of goods. Packings were produced in 6 different works, brake linings in 4, pipe covering in 5, and building materials in 2 establishments. All of the Canadian asbestos mines are in Quebec and the more important fabricating plants are also in that province, the 5 factories in Quebec accounting for about 70 per cent of the output in 1932. There were also 6 works in Ontario, 1 in Nova Scotia, and 1 in British Columbia. In 1931 the number of factories was 13 and in 1930 there were 11 works in operation.

The value of asbestos products made during 1932 was \$1,067,801 compared with \$1,308,183 in 1931 and \$2,301,924 in 1930 which was the best year on record for the industry.

Capital employed in 1932 was reported at \$2,682,882 of which \$1,948,144 was given as the value of lands, plants and equipment. The number of employees was 279 and salaries and wages totalled \$281,123.

Imports of manufactured asbestos goods were valued at \$474,097 in 1932 as against \$617,819 in 1931. Exports of asbestos products amounted to \$75,517 in 1932 and \$111,241 in 1931.

Table 40.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
1930								
Quebec.....	4	1,762,548	239	302,802	68,344	1,157,236	1,809,049	651,813
Ontario.....	4	503,765	54	85,372	8,103	151,453	449,377	297,924
Nova Scotia.....	1	50,332	13	13,315	635	18,336	43,498	25,162
British Columbia.....	2							
Canada.....	11	2,316,645	306	401,490	77,082	1,327,025	2,301,924	974,899
1931								
Quebec.....	3	925,700	162	191,408	49,748	605,758	917,053	311,295
Ontario.....	7	431,652	59	92,752	6,802	106,104	337,693	231,587
Nova Scotia.....	1	54,720	19	18,478	789	17,907	53,437	35,530
British Columbia.....	2							
Canada.....	13	1,412,141	240	302,638	57,339	729,771	1,308,183	578,412
1932								
Quebec.....	5	2,168,947	206	179,170	58,538	414,913	725,011	310,098
Ontario.....	6	513,935	73	101,953	9,194	144,760	342,790	198,030
Nova Scotia.....	1							
British Columbia.....	1							
Canada.....	13	2,682,882	279	281,123	67,732	559,673	1,067,801	508,128

Table 41.—Principal Statistics According to Production Values, and Number of Employees, 1931-1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value at works	Number of plants	Capital employed	Number of employees	Selling value at works
		\$		\$		\$		\$
(a) Production values								
Under 10,000.....	5	53,642	13	19,788	5	62,169	14	20,225
10,000 to 50,000.....	4	78,961	27	81,285	3	280,776	25	77,078
Over 50,000.....	4	979,538	200	1,207,110	5	2,339,937	240	970,498
Total.....	13	1,112,141	240	1,308,183	13	2,682,882	279	1,067,801
(b) Number of employees								
1 to 10.....	10	223,654	49	176,138	8	400,172	35	159,329
Over 10.....	3	888,487	191	1,132,045	5	2,276,710	244	908,472
Total.....	13	1,112,141	240	1,308,183	13	2,682,882	279	1,067,801

Table 42.—Capital Employed, by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable prepaid expenses, etc.)	Total
1930					
Quebec.....	1,166,431	438,310		157,807	1,762,548
Ontario.....	220,251	221,326		62,188	503,765
Other provinces.....	22,400	18,671		9,261	50,332
Canada.....	1,409,082	678,307		229,256	2,316,645
1931					
Quebec.....	389,561	70,049	130,502	35,648	625,760
Ontario.....	172,954	122,573	38,454	97,671	431,652
Other provinces.....	38,077	10,165	1,410	7,077	54,729
Canada.....	599,592	202,787	170,366	140,396	1,112,141
1932					
Quebec.....	1,540,858	127,121	215,021	185,947	2,068,947
Other provinces.....	307,286	112,963	38,800	54,880	513,933
Canada.....	1,918,144	240,084	253,821	240,827	2,682,876

Table 43.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees				Total	Salaries and wages		
	On salaries		On wages			Salaries	Wages	Total
	Male	Female	Male	Female				
1930								
Quebec.....	27	11	190	11	239	77,166	225,636	302,802
Ontario.....	13	5	34	2	54	49,875	35,498	85,373
Other provinces.....	4		7	2	13	4,949	8,366	13,315
Canada.....	44	16	231	15	306	131,990	269,500	401,490
1931								
Quebec.....	22	6	122	12	162	48,177	143,231	191,408
Ontario.....	16	6	35	2	59	54,878	37,874	92,752
Other provinces.....	5	1	12	1	19	7,843	10,635	18,478
Canada.....	43	13	169	15	240	110,898	191,740	302,638
1932								
Quebec.....	31	9	153	13	206	66,307	112,863	179,170
Other provinces.....	21	5	44	3	73	63,116	38,067	101,783
Canada.....	52	14	197	16	279	129,423	151,530	280,953

Table 44.—Wage-Earners by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January.....	229	23	252	105	13	118	190	17	207
February.....	241	22	263	108	15	123	226	17	243
March.....	224	21	245	170	16	186	220	19	239
April.....	228	19	247	158	14	172	219	21	240
May.....	249	14	263	158	16	174	224	20	244
June.....	256	12	268	155	13	168	178	18	196
July.....	257	10	267	171	13	184	192	14	206
August.....	228	10	238	169	13	182	186	12	198
September.....	219	8	227	167	13	180	181	11	192
October.....	237	11	248	177	13	190	193	12	205
November.....	214	11	225	176	15	191	176	12	188
December.....	188	11	199	179	16	195	167	12	179
Average.....	231	15	246	169	15	184	197	16	213

MANUFACTURES OF NON-METALLIC MINERALS

Table 45.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal—Canadian	short ton	4,487	27,549	3,925	23,923	584	3,672
Imported	short ton	601	3,828	251	1,575	4,192	26,332
Anthracite coal	short ton	156	987	7	89		
Gasoline	Imp. gal.	5,478	862	4,437	665	3,981	583
Kerosene	Imp. gal.					20	4
Fuel oil	Imp. gal.	182,771	14,873	152,750	10,610	140,434	10,011
Wood	cord	13	92	26	171		
Gas—Manufactured	M cu. ft.	620	472	315	345	280	277
Electricity purchased	K.W.H.	1,673,561	28,419	711,003	19,961	1,895,612	26,853
Total			77,082		57,339		67,732

Table 46.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horsepower	Number of units	Total rated horsepower	Number of units	Total rated horsepower
Electric motors run by purchased power	120	1,899	114	1,656	157	2,066
Total power employed	120	1,899	114	1,656	157	2,066
<i>Total electric motors</i>	120	1,899	114	1,656	157	2,066
Boilers	7	783	7	758	9	958

Table 47.—Materials Used in Manufacturing, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Asbestos, crude and mill fibre	lb.	17,320,116	230,650	8,442,370	109,000	6,036,882	83,065
Asbestos cloth, strips and tape	lb.	49,368	21,032	41,770	18,371	63,772	31,097
Asbestos paper, corrugated and plain	lb.	11,730,639	375,372	7,325,553	227,313	4,240,080	116,867
Asbestos yarn	lb.	353,927	140,516	268,160	95,358	230,373	72,162
Adhesives	lb.	98,128	11,694	77,434	7,342	201,435	3,719
Asphalt	lb.	8,636,553	84,532	8,002,220	74,820	4,705,542	34,653
Cement	lb.	4,024,420	22,130	926,249	7,785	401,232	2,315
Cotton cloth and yarn			23,889		31,259		12,189
Felt	lb.	48,509	4,371	75,254	2,949	29,000	654
Hair	lb.	746,799	56,815	307,594	17,390	133,451	5,448
Rubber	lb.	28,894	6,303	36,668	6,927	54,157	4,423
Silica sand	lb.	679,739	2,390	472,572	1,444	219,659	934
Containers, boxes, etc.			57,197		27,938		19,381
All other materials			290,134		101,275		172,736
Total			1,327,625		729,771		559,673

Table 48.—Products, 1930-1932

Products	Unit of measure	1930		1931		1932	
		Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$		\$
Asbestos brake linings.....	ft.	2,452,701	459,616	1,525,843	321,664	1,790,664	309,942
Asbestos boiler and pipe covering.....	ft.	2,684,885	283,312	1,914,431	178,611	1,085,346	83,964
Asbestos packings.....	lb.	431,109	197,601	297,041	144,983	181,212	87,682
All other products (*).....			1,361,395		662,925		586,213
Total			2,301,924		1,398,183		1,067,801

(*) Includes asphalt roofing, asbestos shingles, sponge blox, clutch facings, lumber, blackboards, paper, tile, etc.

Table 49.—Production of Asbestos Brake Linings, Pipe Coverings and Packings in Canada, 1925-1932

Years	Asbestos brake linings	Asbestos boiler and pipe coverings	Asbestos packings
	\$	\$	\$
1925.....	272,217	179,717	187,916
1926.....	279,783	232,063	184,515
1927.....	326,072	277,339	204,376
1928.....	439,431	376,399	218,904
1929.....	555,739	406,395	234,595
1930.....	459,616	283,312	197,601
1931.....	321,664	178,611	144,983
1932.....	309,942	83,964	87,682

Table 50.—Directory of Firms in the Asbestos Products Industry, 1932

Name	Location of plant	Products made
Asbestos Corporation Limited.....	St. Lambert, Montreal, P.Q.....	Asbestos brake linings, clutch facings, packings and brake blocks.
Atlas Asbestos Company Limited.....	142 St. Peter St., Montreal, P.Q.....	Asbestos packings.
Beldams Asbestos Packing and General Mfg. Co., Ltd.	37 Britain St., Toronto, Ont.....	Asbestos gaskets.
Canadian Johns-Manville Co., Ltd.....	Asbestos, P.Q.....	Asbestos pipe covering, brake linings, packings, paper, sponge blox, shingles, blackboards, cements, asbestos-cell sheets, asphalt roofing.
Canadian Raybestos Co., Ltd.....	280 Perry St., Peterborough, Ont.....	Asbestos brake linings, packings, woven rings and gaskets.
Edmund, E., Co.....	137 Jarvis St., Toronto, Ont.....	Table pads.
Eureka Mineral Wool & Asbestos Co.....	111 Adelaide St. W., Toronto, Ont.....	Asbestos pipe covering.
Garlock Packing Company.....	200 Queen St. N., Hamilton, Ont.....	Asbestos packings, rubber, duck and flux packings.
Guildford's Limited.....	June St., Halifax, N.S.....	Asbestos packings, pipe covering, gaskets and cements, oel grass insulation.
Prolac, Limited.....	Victoria St., Laetnie, P.Q.....	Asbestos lumber, shingles, tile, blackboards and cements.
Russell Manufacturing Co., Ltd.....	St. John's, P.Q.....	Asbestos brake linings and clutch facings; cotton webbing.
Spicers Asbestos Ltd.....	140-W, 4th Ave., Vancouver, B.C.....	Asbestos pipe covering; asphalt and asbestos expansion joints.
Wild, Arthur C.....	38 Hiron St., Toronto, Ont.....	Asbestos pipe covering.

Table 51.—Imports into Canada and Exports of Asbestos, 1930-1932

Commodities and countries	1930		1931		1932	
	Tons	\$	Tons	\$	Tons	\$
IMPORTS—						
Asbestos packing—						
United Kingdom.....	28	29,140	25	25,392	20	20,582
United States.....	59	52,971	42	36,723	34	81,796
Other countries.....			2	1,340	1	355
Total.....	87	82,111	69	63,455	55	52,733
Asbestos brake and clutch linings—						
United Kingdom.....		39,160		46,459		45,871
United States.....		154,604		193,380		145,874
Other countries.....				2,041		3,000
Total.....		193,824		241,880		194,745
Asbestos in any other form than crude, and all manufactures, n.o.p.—						
United Kingdom.....		57,750		24,938		35,790
United States.....		529,348		275,487		177,513
Other countries.....		10,809		12,050		13,315
Total.....		597,915		312,484		226,619
Total Asbestos.....		873,850		617,819		474,097
EXPORTS—						
Asbestos—						
Great Britain.....	3,528	288,531	1,801	140,024	1,420	82,567
United States.....	66,857	3,723,462	46,002	2,171,000	27,392	1,274,646
Australia.....	481	47,979	304	20,010	451	24,800
Belgium.....	10,836	769,002	7,831	533,737	1,080	49,707
France.....	5,545	380,890	3,327	244,380	2,360	150,911
Germany.....	4,278	410,083	4,714	399,584	1,969	117,148
Italy.....	3,076	274,162	1,264	116,359	666	48,162
Japan.....	8,005	476,199	4,529	227,803	6,683	333,576
Netherlands.....	1,024	60,971	977	67,840	421	17,309
Spain.....	32	1,600	94	5,080	219	11,323
Other countries.....			50	3,500		
Total.....	104,262	6,441,939	70,903	3,929,317	42,661	2,115,140
Sand and waste—						
Great Britain.....	3,104	75,539	1,015	22,492	1,151	25,830
United States.....	121,005	1,791,306	83,082	1,130,159	65,618	901,927
Germany.....	2,310	51,115	1,568	34,717	733	13,934
Netherlands.....	1,367	31,590	870	21,380	764	18,385
Other countries.....	2,852	61,768	2,000	36,578	1,503	26,019
Total.....	131,238	2,011,318	88,535	1,245,326	69,769	986,095
Asbestos manufactures including asbestos roofing—						
Great Britain.....		139,460		66,078		35,525
United States.....		14,204		10,751		7,212
Newfoundland.....		15,203		13,684		3,985
Other countries.....		30,915		20,728		28,795
Total.....		199,783		111,241		75,517
Total asbestos.....		8,653,046		5,285,894		3,176,752

Primary Production of Asbestos (From the Annual Report on the *Mineral Production of Canada*).—The quantity and value of asbestos produced in Canada during 1932 showed decided declines from the figures for the output of this mineral in 1931. Shipments fell to 122,977 tons valued at \$3,039,721 from 164,296 tons worth \$4,812,886 in 1931, a decrease of 37 per cent in value and 25 per cent in volume. Compared with the figures for 1930 the decrease is still sharper, being 49 per cent in tonnage and 61 per cent in value. The average price of the asbestos shipped by the Quebec producers in 1932 was \$24.72 per ton whereas it was \$29.29 in 1931, \$34.65 in 1930 and \$43.04 in 1929. The tonnage of the shipments of asbestos in 1932 was the lowest recorded since 1921 and represents the lowest annual value since 1914. The average price for the year was the lowest in the history of the Quebec asbestos industry. The quantity of rock mined in 1932 totalled 1,145,340 short tons and the tonnage milled amounted to 1,029,709; 709,094 tons of tailings were retreated.

Table 52.—Sales and Shipments of Canadian Asbestos, 1931 and 1932

Grades	Sales or shipments			
	1931		1932	
	Tons	\$	Tons	\$
Crude No. 1.....	206	88,880	144	57,159
Crude No. 2.....	543	117,478	313	60,230
Other crudes.....			14	1,832
Spinning fibre.....	8,560	917,776	6,004	548,510
Shingle fibre.....	15,988	938,857	6,025	328,895
Paper fibre.....	39,867	1,381,888	32,694	1,008,436
Waste stucco or plaster.....	6,309	159,043	3,984	92,800
Refuse or shorts.....	92,823	1,208,964	73,199	941,850
Total.....	164,296	4,312,886	122,977	3,039,721
Sand, gravel and stone (*).....	7,209	5,952	3,473	3,369

*This production is included in the Sand and Gravel Industry.

Quantity of rock mined... 1931.....	2,274,048 tons	1932.....	1,145,340 tons
Quantity of rock milled... 1931.....	2,164,060 tons	1932.....	1,029,709 tons

Table 53.—Principal Statistics of the Asbestos Mining Industry in Canada, 1930-1932

	1930	1931	1932
Number of firms.....	7	7	7
Capital employed..... \$	35,097,872	40,164,005	30,081,362
Number of employees:—			
On salary.....	230	172	136
On wages.....	2,540	1,503	1,273
Total.....	2,770	1,675	1,409
Salaries and wages:—			
Salaries..... \$	475,167	405,060	279,950
Wages..... \$	2,999,048	1,431,055	876,365
Total..... \$	3,474,215	1,836,115	1,156,315
Cost of fuel and electricity..... \$	1,133,737	849,047	827,303
Selling value of products..... \$	8,390,163	4,818,838	3,043,090

CHAPTER FIVE

THE CEMENT INDUSTRY

Shipments of cement from Canadian factories during 1932 totalled 4,498,721 barrels valued at \$6,930,721 compared with 10,161,658 barrels worth \$15,826,243 in 1931. The decline from 1931 was 56 per cent, both in quantity and in value. The record output was in 1929 when 12,284,081 barrels worth \$19,337,235 were produced.

Twelve cement plants were operated by six firms during 1932. Quebec mills produced 49.1 per cent of the total shipments, Ontario 35.6 per cent, Manitoba 5.4 per cent, Alberta 4.3 per cent, and British Columbia, 5.6 per cent. Six of the works employed the wet process, 5 used the dry process and 1 manufactured cement from imported clinker. Forty-one rotary kilns possessing a total daily capacity of 43,622 barrels were used but some of the plants operated at less than 30 per cent of their capacity during 1932. The industry consumed 1,141,376 tons of limestone and 27,537 tons of gypsum in 1932.

Imports of Portland cement into Canada during 1932 amounted to 21,350 barrels (estimated at 350 pounds each) averaging \$2.72 per barrel as against 38,392 barrels averaging \$3.74 in 1931. Exports of Portland cement were recorded at 53,333 barrels valued at \$38,921 compared with 114,064 barrels valued at \$124,267 in 1931. Cement made available for consumption in Canada in 1932 amounted to 4,466,738 barrels which represented a decline of about 55 per cent from 1931; this followed very closely the fall in building permits. The selling prices of cement in 1932, f.o.b. Canadian works, were: high, \$2.55 per barrel and low, \$1.25 per barrel.

Capital employed by the 6 firms operating in this industry in 1932 was \$55,294,814, a decline of approximately \$2 millions from the figure for the previous year. Employment was furnished to an average of 1,216 persons in 1932 and 1,820 in 1931, and payments for salaries and wages amounted to \$1,344,772 in the former year and \$2,432,950 in the latter. Expenditures for fuel and power totalled \$1,701,125 in 1932 and \$3,280,870 in 1931.

Table 54.—Principal Statistics, 1928-1932

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Selling value of products at works
		\$		\$	\$	\$
1928.....	11	47,678,841	2,407	3,405,385	3,872,108	16,739,163
1929.....	11	50,881,818	2,546	3,523,595	4,347,219	19,337,235
1930.....	11	59,210,737	2,317	3,172,198	4,120,367	17,713,067
1931.....	12	57,378,436	1,820	2,432,950	3,280,870	15,826,243
1932.....	12	55,294,814	1,216	1,344,772	1,701,125	6,930,721

Table 55.—Number and Capacity of Kilns, and Tonnage of Limestone and Gypsum used, 1930-1932.

Years	Number of firms	Number of plants	Number of kilns in use	Total daily capacity	Limestone used	Gypsum used
				brls.	tons	tons
1930.....	5	11	57	37,522	2,925,399	74,227
1931.....	5	12	44	42,422	2,489,147	56,677
1932.....	6	12	41	43,622	1,141,376	27,537

Table 56.—Capital Employed by Classes, 1928-1932

Years	Value of lands, buildings, machinery, tools, etc.	Inventory value of materials on hand, stocks in process, fuel and other supplies in hand	Inventory value of finished products on hand	Operating Capital (cash, bills and accounts receivable, prepaid expenses, etc.)	Total
	\$	\$	\$	\$	\$
1928.....	35,365,970	4,020,658		8,292,213	47,678,841
1929.....	39,007,891	3,968,456		7,905,471	50,881,818
1930.....	52,048,878	3,478,934		3,682,905	59,210,737
1931.....	50,132,019	1,189,710	2,005,235	4,051,472	57,378,436
1932.....	49,881,915	1,446,538	1,440,291	2,526,070	55,294,814

Table 57.—Employees, Salaries and Wages, 1928-1932

Years	Average number of employees				Total	Salaries and wages		
	On salaries		On wages			Salaries	Wages	Total
	Male	Female	Male	Female				
1928.....	113	9	2,285		2,497	256,867	3,148,518	3,405,385
1929.....	114	10	2,422		2,546	260,579	3,263,016	3,523,595
1930.....	116	10	2,191		2,317	267,003	2,905,195	3,172,198
1931.....	110	11	1,699		1,820	268,434	2,164,516	2,432,950
1932.....	96	7	1,113		1,216	213,891	1,130,881	1,344,772

Table 58.—Wage-Earners, by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930	1931	1932	Months	1930	1931	1932
January.....	1,986	1,714	1,233	July.....	2,443	1,942	1,106
February.....	1,936	1,663	1,240	August.....	2,368	1,760	839
March.....	1,948	1,648	1,200	September.....	2,244	1,688	980
April.....	2,121	1,842	1,230	October.....	2,059	1,465	993
May.....	2,366	1,858	1,342	November.....	1,920	1,472	989
June.....	2,370	1,882	1,332	December.....	1,864	1,335	852
				Average.....	2,191	1,639	1,113

Table 59.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal—Canadian.....	short ton	309,262	1,608,969	288,851	1,569,214	120,296	652,734
Imported.....	short ton	299,459	1,694,382	194,067	958,076	90,718	440,546
Anthracite coal.....	short ton	889	3,245	1,096	4,000		
Coke.....	short ton	94	879	63	589		
Gasoline.....	imp. gal.	22,063	5,558	21,234	4,938	87,050	15,856
Kerosene.....	imp. gal.	2,503	502	2,262	420	826	138
Fuel oil.....	imp. gal.	29,350	3,816	14,176	1,843	7,386	960
Electricity purchased.....	k.w.h.	190,209,859	803,016	152,884,534	741,790	85,630,342	590,891
Total.....			4,129,367		3,280,970		1,701,125

MANUFACTURES OF NON-METALLIC MINERALS

Table 60.—Power Employed, 1930-1932

	1930		1931		1932	
	Number of units	Total rated horsepower	Number of units	Total rated horsepower	Number of units	Total rated horsepower
Steam engines and turbines	2	2,000	5	2,113	9	298
Gasoline, gas and oil engines	8	278	6	205	6	205
Hydraulic turbines or water wheels	9	5,336	9	5,336	.....	.....
<i>Total primary power</i>	19	7,614	20	7,654	15	503
Electric motors run by purchased power	1,237	73,295	1,190	70,472	1,286	75,493
Total power employed	1,256	80,909	1,210	78,126	1,301	75,996
Electric motors run by primary power in same plant	70	2,800	72	2,954	.....	.....
<i>Total electric motors</i>	1,307	76,095	1,262	73,426	1,286	75,493
Boilers	18	3,537	15	3,425	11	427

Table 61.—Production in Canada, Imports, Exports and Apparent Consumption of Cement, 1930-1932

	1930		1931		1932	
	Barrels	Selling value at works	Barrels	Selling value at works	Barrels	Selling value at works
		\$		\$		\$
Output	11,790,408		10,197,964		4,643,675	
Sold or used	11,032,538	17,713,067	10,161,658	15,826,243	4,498,731	6,930,721
Stocks, December 31	2,246,621		2,286,927		2,431,881	
Imports—						
Portland	143,436	569,848	38,392	143,491	21,350	58,092
Manufactures		34,672		13,243		6,883
Exports	198,736	212,071	114,064	124,267	53,333	38,921
Apparent consumption	10,977,238		10,085,986		4,466,738	

Table 62.—Imports into Canada and Exports of Cement, by Principal Countries, 1930-1932

	Principal countries	1930		1931		1932	
		Quantity	Value	Quantity	Value	Quantity	Value
		cwt.	\$	cwt.	\$	cwt.	\$
IMPORTS—	Total	562,026	569,848	134,373	143,491	74,727	58,092
Cement, Portland, and hydraulic or water lime.	United Kingdom	360,406	418,314	44,713	52,334	30,859	17,917
	United States	140,670	151,228	88,487	90,519	24,538	33,683
EXPORTS—	Total	695,578	212,071	399,224	124,267	186,666	38,921
Cement, Portland	United Kingdom			1,229	627		481
	United States	11,431	6,937	1,905	3,298	17,394	2,984
	Bermuda	33,003	14,512	105,849	30,721	36,328	9,284
	Jamaica	46,271	11,051	18,424	2,642	5,076	524
	Trinidad and Tobago	40,703	13,473	53,447	13,888	33,376	4,427
	Other British West Indies	27,221	8,805	12,429	3,298	17,394	2,984
	Newfoundland	137,824	45,171	110,261	42,243	51,697	12,982
	Colombia	87,206	24,302	7,523	2,077	.....	.....
	French West Indies	55,691	13,697	5,700	1,183	.....	.....
	St. Pierre and Miquelon	20,888	7,733	3,784	1,448	.....	.....
	British Honduras	93,270	26,071	18,913	7,045	10,600	1,832
	Panama	16,350	4,640	.....	.....	.....	.....
	Peru	55,866	15,671	14,098	3,898	2,821	559

Table 63.—Factory Sales of Cement in Canada, by Provinces, 1930-1932

Provinces	1930		1931		1932	
	Barrels	Selling value at works	Barrels	Selling value at works	Barrels	Selling value at works
		\$		\$		\$
Quebec.....	4,865,609	7,031,528	4,942,323	7,092,895	2,210,584	3,155,702
Ontario.....	3,942,690	5,779,404	3,470,056	5,006,826	1,599,342	2,288,975
Manitoba.....	977,906	2,268,742	544,160	1,267,893	242,112	549,594
Alberta.....	525,289	1,144,160	626,483	1,286,080	193,571	399,922
British Columbia.....	721,044	1,489,233	578,636	1,172,549	253,112	536,528
Canada.....	11,832,538	17,713,067	10,161,658	15,826,243	4,498,721	6,930,721

Table 64.—Factory Sales of Cement in Canada, 1917-1932

Years	Barrels	Selling value at works	Years	Barrels	Selling value at works
		\$			\$
1917.....	4,768,488	7,724,246	1925.....	8,116,597	14,046,704
1918.....	3,591,481	7,076,503	1926.....	8,707,021	13,013,283
1919.....	4,995,257	9,802,433	1927.....	10,065,865	14,391,937
1920.....	6,651,980	14,798,070	1928.....	11,023,928	16,739,163
1921.....	5,752,885	14,195,143	1929.....	12,284,081	19,337,235
1922.....	6,943,972	15,438,481	1930.....	11,032,538	17,713,306
1923.....	7,543,589	15,064,661	1931.....	10,161,658	15,826,243
1924.....	7,498,624	13,398,411	1932.....	4,498,721	6,930,721

List of Producers of Portland Cement in Canada, 1932

Name	Head office address	Location of plant
Quebec—		
Canada Cement Co. Ltd.....	Box 290, Station B, Montreal.....	Hull and Montreal East.
National Cement Co. Ltd.....	Box 170, Station Hochelagu, Montreal.....	Montreal East.
Ontario—		
Canada Cement Co. Ltd.....	Box 290, Station B, Montreal, P.Q.....	Belleville, Lakefield and Port Colborne.
St. Marys Cement Co. Ltd.....	357 Bay St., Toronto.....	St. Marys.
Manitoba—		
Canada Cement Co. Ltd.....	Box 290, Station B, Montreal, P.Q.....	Fort Whyte.
Alberta—		
Canada Cement Co. Ltd.....	Box 290, Station B, Montreal, P.Q.....	Exshaw.
Marlboro Cement Co. Ltd.....	Dominion Bank Building, Edmonton.....	Marlboro.
British Columbia—		
British Columbia Cement Co. Ltd.....	Belmont Building, Victoria.....	Bamberton.
Coast Cement Co. Ltd.....	Granville Island, Vancouver.....	Granville Island.

CHAPTER SIX

THE CEMENT PRODUCTS INDUSTRY

The cement products industry showed a severe recession in 1932. Products of this industry consist chiefly of hollow building blocks, sewer pipe, drain tile, cinder blocks and artificial stone and the volume of output depends on the demand from the building and construction trades. The value of construction contracts awarded in Canada dropped to \$132,872,000 in 1932 from \$315,482,000 in 1931 and \$456,999,600 in 1930, and the output of cement products fell off at about the same rate.

Cement products made in Canada were valued at \$1,771,297 in 1932 compared with \$3,807,188 in 1931, \$3,718,704 in 1930, and \$4,419,417 in 1929, the year of record production. In 1932, Ontario with 69 plants had 41.6 per cent of the total business, Quebec with 29 works had 30.5 per cent, Saskatchewan with 3 plants had 14.9 per cent, and British Columbia with 7 factories had 10.7 per cent. There were also 3 plants in Alberta, 4 in New Brunswick, 2 in Nova Scotia and 1 in Manitoba.

The total number of establishments in 1932 was 118 or 39 less than in 1931, the decline being due to the fact that many small plants went out of business or did not operate during the year. Of the active plants 67 showed output values of less than \$5,000 and 26 others were each below \$10,000. The 15 largest establishments accounted for 74 per cent of the total output.

The number of employees was 710 in 1932 compared with 1,166 in 1931 and payments for salaries and wages declined to \$684,371 from \$1,296,250.

Statistics regarding the manufacture of Portland cement in Canada are given in Chapter Five of this report.

Table 65.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
1930								
Nova Scotia.....	3	13,100	11	5,225	92	3,332	10,150	6,818
New Brunswick.....	3	27,950	18	5,749	220	7,037	18,741	11,704
Quebec.....	33	1,387,711	430	531,804	29,699	346,642	1,114,197	767,555
Ontario.....	88	3,148,950	620	638,381	44,697	608,156	1,921,018	1,312,862
Manitoba.....	3	42,672	14	15,623	747	20,197	47,607	27,410
Saskatchewan.....	3	146,480	37	47,676	1,237	58,694	141,289	82,595
Alberta.....	3	124,181	29	38,596	2,481	17,896	70,254	52,358
British Columbia.....	10	265,998	84	110,980	7,045	199,956	395,448	193,492
Canada.....	146	5,157,051	1,232	1,411,043	86,188	1,261,910	3,718,704	2,456,794
1931								
Nova Scotia.....	2							
New Brunswick.....	4	42,998	17	10,146	570	14,124	36,190	22,078
Quebec.....	38	1,420,495	400	477,385	28,010	345,823	1,168,808	822,885
Ontario.....	92	2,955,610	562	599,640	43,429	629,105	1,732,400	1,153,295
Manitoba.....	2							
Saskatchewan.....	4	271,088	100	93,078	5,934	153,791	400,601	246,810
Alberta.....	4	155,152	27	41,183	2,584	19,074	203,952	183,978
British Columbia.....	11	235,884	60	73,918	2,505	82,569	215,228	132,659
Canada.....	157	5,081,227	1,166	1,296,250	83,032	1,245,483	3,907,188	2,561,765
1932								
Nova Scotia.....	2							
New Brunswick.....	4	38,050	8	4,782	435	6,030	17,401	11,311
Quebec.....	26	1,001,895	226	225,336	18,117	215,286	539,881	324,595
Ontario.....	69	2,286,460	352	308,808	27,692	278,040	737,326	459,286
Manitoba.....	1							
Saskatchewan.....	3	198,195	71	82,708	7,051	106,366	269,346	162,983
Alberta.....	2	68,327	8	6,360	378	3,704	17,203	13,499
British Columbia.....	7	278,647	45	60,107	3,309	87,907	194,137	102,140
Canada.....	118	4,461,574	710	684,371	57,072	697,483	1,771,297	1,073,814

Table 66.—Principal Statistics According to Production Values, and Number of Employees, 1931-1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value of products at works	Number of plants	Capital employed	Number of employees	Selling value of products at works
		\$		\$		\$		\$
(a) Production values								
Under 5,000	83	474,355	119	187,846	67	418,582	101	116,298
5,000 to 10,000	21	481,999	75	159,356	26	740,005	118	177,652
10,000 to 25,000	14	174,035	75	203,968	10	801,612	71	168,718
25,000 to 50,000	16	515,053	195	508,051	8	823,068	112	264,799
50,000 to 100,000	8	1,112,741	115	543,284	2	597,715	80	157,229
Over 100,000	12	2,301,044	587	2,204,683	5	1,080,592	228	886,001
Total	157	5,981,227	1,166	3,897,188	118	4,461,574	710	1,771,297
(b) Number of employees								
1 or 2	84	545,517	100	227,283	66	546,282	82	150,188
3 to 10	43	943,775	212	536,491	35	1,251,575	181	285,583
11 to 20	18	1,328,593	251	977,741	10	985,410	139	291,896
21 to 50	6	1,122,293	207	783,198	4	1,047,275	139	559,352
51 to 100	6	1,141,019	396	1,282,475	3	631,032	169	484,478
Total	157	5,981,227	1,166	3,897,188	118	4,461,574	710	1,771,297

Table 67.—Capital Employed, by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, machinery and tools	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	Total
	\$	\$	\$	\$	\$
1930					
Nova Scotia	9,900	2,550		650	13,100
New Brunswick	17,500	8,665		1,794	27,959
Quebec	915,748	253,419		218,044	1,387,211
Ontario	1,736,771	528,896		883,293	3,148,950
Manitoba	20,694	16,537		5,441	42,672
Saskatchewan	107,288	12,650		26,542	146,480
Alberta	87,342	17,393		19,446	124,181
British Columbia	168,991	61,664		35,343	265,998
Canada	3,064,234	992,264		1,199,553	5,157,051
1931					
Nova Scotia	27,850	3,230	9,352	2,536	42,998
New Brunswick	967,131	65,895	135,898	251,571	1,420,495
Quebec	1,590,801	131,993	361,934	870,882	2,955,610
Ontario					
Manitoba		6,534	41,555	63,564	271,988
Saskatchewan	159,435	17,844	8,630	26,001	155,152
Alberta	102,671	13,539	19,319	41,513	235,884
British Columbia	161,513				
Canada	3,009,401	239,965	576,694	1,256,067	5,081,227
1932					
Nova Scotia	26,000	1,800	7,276	2,974	38,050
New Brunswick	1,181,394	109,886	123,920	183,695	1,601,895
Quebec	1,425,358	81,209	341,131	438,672	2,286,460
Ontario					
Manitoba		6,101	18,355	24,590	199,195
Saskatchewan	149,149	737	2,778	3,383	59,327
Alberta	51,429	312	27,701	49,830	278,647
British Columbia	197,991				
Canada	3,034,321	202,948	521,161	703,144	4,461,574

Table 68.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees					Salaries and wages		
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1930						\$	\$	\$
Nova Scotia	2		9		11	2,400	2,825	5,225
New Brunswick	3		15		18	1,754	3,995	5,749
Quebec	59	3	366	2	430	127,555	404,249	531,801
Ontario	86	10	530	3	629	149,550	508,822	658,371
Manitoba	5	1	8		14	8,009	7,614	15,623
Saskatchewan	6	1	30		37	17,187	30,489	47,676
Alberta	4	1	24		29	6,885	31,711	38,596
British Columbia	13	1	76		94	24,309	86,680	110,989
Canada	178	17	1,032	5	1,232	317,638	1,076,385	1,411,043
1931								
Nova Scotia								
New Brunswick	4		13		17	2,554	7,592	10,146
Quebec	62	3	334	1	400	135,919	341,466	477,385
Ontario	91	12	457	2	562	158,643	440,997	599,640
Manitoba								
Saskatchewan	12	2	85	1	100	27,536	66,442	93,978
Alberta	5	1	21		27	7,598	33,585	41,183
British Columbia	9	1	50		60	18,650	55,259	73,918
Canada	183	19	960	4	1,166	350,909	945,341	1,296,250
1932								
Nova Scotia								
New Brunswick	3		5		8	1,800	2,982	4,782
Quebec	45	2	178	1	226	71,280	154,056	225,336
Ontario	78	11	258	5	352	108,491	200,407	308,898
Manitoba								
Saskatchewan	12	1	57	1	71	26,217	56,581	82,798
Alberta	2		5	1	8	2,400	3,960	6,360
British Columbia	14	2	29		45	23,711	32,486	56,197
Canada	151	16	532	8	710	233,899	458,472	684,371

Table 69.—Wage-Earners, by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	902	5	908	1,001	3	1,007	547	8	555
February	802	5	867	991	3	994	586	9	595
March	737	5	742	980	3	983	570	9	588
April	914	4	918	1,040	3	1,043	597	9	606
May	1,115	4	1,119	1,075	3	1,078	555	9	564
June	1,158	5	1,163	1,052	3	1,055	479	9	488
July	1,070	5	1,075	990	4	994	481	8	492
August	1,064	5	1,069	920	4	924	510	8	518
September	1,042	4	1,046	835	3	838	519	7	526
October	1,016	5	1,021	838	3	841	520	7	527
November	1,038	5	1,043	817	2	819	468	7	475
December	1,013	5	1,018	737	2	739	402	7	409
Average	1,052	5	1,057	960	4	964	532	8	540

Table 70.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal—Canadian	short ton	432	3,792	402	4,250	1,418	10,051
Imported	short ton	4,683	31,973	3,705	26,096	1,285	8,315
Anthracite coal	short ton	287	3,735	765	3,313	150	1,820
Lignite coal—Canadian	short ton			327	2,597	65	489
Coke	short ton	221	2,249	145	1,487	107	1,226
Gasoline	imp. gal.	11,158	2,815	5,807	1,429	8,268	1,883
Kerosene or coal oil	imp. gal.	775	154	284	63	220	48
Fuel oil	imp. gal.	7,421	658	32,629	1,724	12,914	708
Wood	cords	92	690	65	463	142	897
Gas—Manufactured	M cu. ft.			756	558	433	334
Natural	M cu. ft.	863	332	230	118	20	15
Other fuel			605		757		360
Electricity purchased	k.w.h.	2,098,008	39,151	1,709,844	40,179	1,265,256	30,926
Total			86,188		83,832		57,672

Table 71.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	7	119	8	184	7	129
Gasoline, gas and oil engines	48	228	47	270	30	215
<i>Total primary power</i>	<i>55</i>	<i>347</i>	<i>55</i>	<i>454</i>	<i>37</i>	<i>344</i>
Electric motors run by purchased power	232	2,791	285	2,977	272	3,005
Total power employed	287	3,138	349	3,431	309	3,349
<i>Total electric motors</i>	<i>232</i>	<i>2,791</i>	<i>285</i>	<i>2,977</i>	<i>272</i>	<i>3,005</i>
Boilers	22	911	24	1,011	25	1,198

Table 72.—Materials Used in Manufacturing, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Portland cement	brl.	255,324	580,005	247,711	597,480	106,275	255,006
Lime	bush.	10,689	7,936		4,205	538	259
Sand	cu. yd.	54,558	102,757	68,658	102,414	26,337	32,883
Gravel	cu. yd.	70,450	118,346	50,320	76,727	24,968	30,871
Crushed stone	cu. yd.	24,029	61,483	33,602	66,210	10,740	17,424
Cinders			33,584		26,053		8,467
Reinforcing			67,792		150,043		208,307
Other materials			275,417		193,638		120,290
Boxes, crates, lumber, etc.			14,590		28,713		23,976
Total			1,261,910		1,245,483		697,483

Table 73.—Products, 1930-1932

Products	Total selling value at works		
	1930	1931	1932
	\$	\$	\$
Cement bricks.....	120,409	30,763	58,057
Hollow building blocks, etc.....	802,604	709,976	194,750
Drain pipe.....	44,301	82,684	5,581
Sewer pipe, water pipe and culvert tile.....	1,137,642	1,290,452	915,663
Artificial stone.....	877,659	824,056	226,057
Cement posts, poles, piles, etc.....	18,897	1,325	10,107
Cement laundry tubs.....	54,851	61,662	36,396
Cinder blocks.....	273,097	231,782	80,322
Stucco.....	92,779	108,044	23,502
All other products (*).....	287,465	466,444	220,862
Total.....	3,718,704	3,807,198	1,771,297

(*) Includes data for ready mixed concrete, burial vaults, etc.

Table 74.—Production by Provinces, 1931-1932

Products	1931				1932			
	Quebec	Ontario	Other Provinces	Canada	Quebec	Ontario	Other Provinces	Canada
	\$	\$	\$	\$	\$	\$	\$	\$
Cement bricks.....	13,232	12,891	4,640	30,763	16,754	39,664	1,639	58,057
Hollow building blocks, etc.....	302,233	385,247	22,498	709,976	46,638	138,177	9,935	194,750
Drain pipe.....	150	61,368	21,166	82,684	50	5,531	.....	5,581
Sewer pipe, water pipe and culvert tile.....	199,907	596,681	493,864	1,290,452	293,638	180,731	441,294	915,663
Artificial stone.....	609,489	179,354	35,213	824,056	167,542	58,245	270	226,057
Cement posts, poles, piles, etc.....	.....	.....	.....	5,230	4,605	780	4,712	10,107
Cinder blocks.....	.....	228,552	5,230	231,782	4,535	73,069	4,652	80,322
Other products.....	43,797	320,307	273,371	637,475	6,119	241,119	31,588	280,760
Total.....	1,163,808	1,782,400	853,980	3,807,198	539,881	737,326	494,090	1,771,297

Table 75.—Output of Principal Cement Products, 1920-1932

	Hollow building blocks	Drain pipe	Sewer pipe, water pipe and culvert tile	Cement bricks	Artificial stone	Cinder blocks
	\$	\$	\$	\$	\$	\$
1920.....	852,304	.....	457,312	.....	69,382	.....
1921.....	511,283	76,218	386,873	11,375	71,741	.....
1922.....	596,063	50,873	327,945	75,742	27,725	Not specified
1923.....	652,420	67,437	385,165	70,502	53,326	.....
1924.....	523,326	53,989	419,730	53,066	77,484	.....
1925.....	859,706	201,890	394,366	40,261	256,118	.....
1926.....	1,066,901	138,928	508,870	53,412	479,287	.....
1927.....	941,194	207,433	558,830	94,302	473,051	69,145
1928.....	1,158,508	145,908	1,148,168	40,007	1,173,645	192,358
1929.....	902,413	95,711	1,450,665	178,257	1,134,328	306,228
1930.....	802,604	44,301	1,137,642	129,409	877,659	273,097
1931.....	709,976	82,684	1,290,452	30,763	824,056	231,782
1932.....	194,750	5,581	915,663	58,057	226,057	80,322

CHAPTER SEVEN

THE COKE AND GAS INDUSTRY

The coke and gas industry covers the operation of beehive coke ovens, by-product coke ovens and gas plants for the manufacture of gas for heating and illuminating purposes. Records for 1932 show that 42 coke and gas plants were in operation in that year including 7 by-product plants, 2 beehive plants, 24 retort or carburetted water gas plants, 8 plants which made pintsch oil gas for lighting railway passenger cars, and 1 which produced acetylene gas for domestic lighting and heating. Of these, 21 were located in Ontario, 6 in British Columbia, 4 in Quebec, 4 in Manitoba, 2 in Nova Scotia, 2 in New Brunswick, 2 in Alberta, and 1 in Saskatchewan.

The value of the products made in coke and gas plants in 1932 totalled \$29,812,650. This value was 5 per cent less than the 1931 total of \$31,249,460 which in turn was 15 per cent below the output of \$36,592,859 in 1930. Capital employed in 1932 was \$93,534,495, the average number of workers was 3,639, payments for salaries and wages totalled \$4,897,746, and the cost of manufacturing materials was \$12,241,698.

Output of gas-house, by-product and beehive coke during 1932 totalled 1,637,701 tons compared with a total of 1,832,700 tons in 1931 and 2,385,994 tons in 1930. By-product coke plants along with the two beehive oven plants produced 1,331,170 tons in 1932 and only 306,531 tons were obtained from artificial gas plants. In addition to the above, 73,065 tons of petroleum coke were recovered as a by-product in petroleum refining but this tonnage has not been included in statistics of coke production as published by the Bureau.

Sales of coke from the works totalled 1,002,816 tons in 1932 of which 920,789 tons were for domestic purposes. Only 231,591 tons were used in associated metallurgical works and 297,657 tons were used in the producers' own coke or gas plants.

Imports of retort and oven coke declined to 651,802 tons in 1932 from 733,274 tons in 1931. Exports dropped to 15,469 tons in 1932 from 20,905 tons in 1931. Exports of petroleum coke, not included in the previous figures, amounted to 10,518 tons in 1932 and 16,133 tons in 1931.

Production of artificial gas amounted to 27,264,587 M cubic feet of which 17,182,930 M cubic feet were from by-product works and 10,081,657 from gas plants. Sales of gas by the producers totalled 17,083,631 M cubic feet valued at \$12,895,039 of which 7,764,188 M cubic feet at \$2,609,242 were from by-product plants and 9,319,443 M cubic feet at \$10,285,797 from gas works. Most of the remaining gas was used as a fuel in the producing plants or their associated metallurgical works. The quantity and value of sales, particularly the latter, as stated above do not represent the actual amounts delivered to domestic and industrial customers as in three cities (Montreal, Hamilton and Sault Ste. Marie) the producers sell their gas to distributing companies. Actual sales to customers were 16,713,923 M cubic feet in 1932 and the number of customers was 531,866; the amount of money actually paid by the final consumers is not known from present records but it would be considerably more than the \$12,895,039 given above as the income from sales by the producers. In addition to the above production, 3,836,413 M cubic feet of still gas were produced as a by-product from petroleum refineries, practically all of which was used for fuel purposes in the refineries.

The quantity of gas entering Canada by pipe line advanced to 120,840 M cubic feet in 1932 from 109,168 M cubic feet in the previous year.

The number of customers served by the producers of illuminating and fuel gas in 1932 was 531,866; the number of active meters was 523,164 and the mileage of distributing mains was 3,686 miles. The calorific value of the gas ranged from 455-550 B.T.U. per cubic foot.

Statistics of natural gas production are appended to this chapter. The total production in 1932 was 23,420,174 M cubic feet, chiefly in Alberta. Actual sales to customers were 20,034,385 M cubic feet and the number of users was 131,135. The mileage of pipe lines in Ontario and Alberta was reported at 8,370 miles.

The number of customers for both manufactured and natural gas was 663,001 in 1932 and the amount of gas sold to these customers for domestic and commercial purposes was 36,748,308 M cubic feet.

Table 76.—Principal Statistics, 1928-1932

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
Coke—								
1928	8	48,018,594	1,227	1,082,361	1,388,326	13,380,880	22,483,615	9,096,735
1929	8	47,840,170	1,186	2,149,826	2,030,814	14,662,616	25,900,638	11,247,022
1930	8	42,243,472	1,248	2,085,420	1,783,086	13,263,874	22,205,806	8,941,832
1931	8	44,637,462	1,218	1,841,453	1,376,788	10,150,741	17,057,695	6,867,854
1932	9	41,702,610	1,032	1,472,950	1,634,660	8,620,737	15,287,576	6,660,839
Gas—								
1928	37	44,126,596	2,987	3,626,418	685,410	3,777,366	12,224,832	8,447,466
1929	35	47,108,892	2,716	3,788,988	597,900	3,854,598	14,090,805	10,146,207
1930	33	47,743,763	2,732	3,779,382	601,214	3,818,490	14,387,053	10,568,563
1931	33	51,235,396	2,788	3,775,310	585,478	3,734,320	14,191,805	10,457,545
1932	33	51,831,885	2,607	3,424,796	588,745	3,614,963	14,525,074	10,910,113
Total Coke and Gas								
1928	45	92,145,190	3,911	5,698,778	2,673,736	17,164,246	34,708,447	17,544,201
1929	43	91,749,062	3,902	5,938,811	2,628,714	18,517,214	39,910,413	21,393,229
1930	41	89,987,235	3,970	5,864,802	2,381,300	17,082,364	36,392,859	19,510,495
1931	41	95,872,858	4,006	5,616,763	1,962,266	13,894,061	31,249,460	17,355,399
1932	42	93,534,495	3,639	4,897,746	2,223,414	12,241,698	29,812,650	17,570,952

Table 77.—Principal Statistics by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
1930								
Nova Scotia and New Brunswick	4	8,446,418	327	443,730	154,037	1,738,343	2,965,350	1,227,007
Quebec	4	12,931,837	416	698,097	228,259	3,272,717	5,501,545	2,228,828
Ontario	21	50,344,731	2,604	3,805,978	1,877,307	10,479,948	23,912,806	13,432,858
Manitoba, Saskatchewan and Alberta	6	5,538,462	168	261,803	31,288	544,360	1,349,565	805,205
British Columbia	6	12,725,787	455	655,104	93,439	1,046,996	2,863,593	1,816,597
Canada	41	89,987,235	3,970	5,864,802	2,381,300	17,082,364	36,392,859	19,510,495
1931								
Nova Scotia and New Brunswick	4	8,651,667	327	381,499	120,969	1,170,509	2,229,857	1,050,348
Quebec	4	13,861,889	438	669,105	180,093	3,081,969	5,355,976	2,274,007
Ontario	21	54,857,200	2,620	3,738,680	1,544,151	8,169,764	19,675,778	11,506,014
Manitoba, Saskatchewan and Alberta	6	5,576,875	192	245,860	45,600	484,759	1,235,436	750,677
British Columbia	6	12,925,218	429	581,619	64,854	978,060	2,752,413	1,774,353
Canada	41	95,872,858	4,006	5,616,763	1,962,266	13,894,061	31,249,460	17,355,399
1932								
Nova Scotia and New Brunswick	4	9,087,012	211	239,496	170,589	720,994	1,316,397	595,403
Quebec	4	13,593,132	383	553,567	169,288	2,737,704	4,941,737	2,204,033
Ontario	21	51,648,995	2,463	3,463,105	1,707,783	7,481,553	19,812,034	12,339,481
Manitoba, Saskatchewan and Alberta	7	5,620,948	210	226,778	64,479	532,621	1,242,445	709,794
British Columbia	6	13,584,408	372	414,800	102,274	768,826	2,500,067	1,731,241
Canada	42	93,534,495	3,639	4,897,746	2,223,414	12,241,698	29,812,650	17,570,952

Table 78.—Principal Statistics According to Production Values, and Number of Employees, 1931-1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value at works	Number of plants	Capital employed	Number of employees	Selling value at works
(a) Production values		\$		\$		\$		\$
Under 10,000	3	37,488	6	15,045	3	37,323	5	17,427
10,000 to 25,000	5	166,178	24	85,362	7	209,743	45	118,760
25,000 to 50,000	5	1,324,325	89	167,804	4	583,000	56	173,930
50,000 to 100,000	5	1,649,903	108	359,899	6	1,853,877	135	460,401
100,000 to 250,000	9	4,358,443	290	1,400,060	9	4,879,909	290	1,476,140
250,000 to 1,000,000	6	12,561,778	554	3,294,302	6	18,078,651	592	3,371,314
Over 1,000,000	8	75,774,743	2,938	25,924,098	7	67,291,902	2,516	21,194,678
Total	41	95,872,858	4,066	31,219,460	42	93,531,195	3,639	23,812,650
(b) Number of employees								
1 to 10 employees	11	368,666	50	255,942	10	323,980	43	234,704
11 to 20	8	4,119,178	122	895,205	9	3,802,636	124	824,596
21 to 50	8	4,869,264	293	1,056,574	10	5,251,015	314	1,323,539
51 to 100	4	5,378,318	279	1,598,418	4	11,476,237	301	1,882,705
Over 100	10	81,137,432	3,262	27,433,321	9	72,680,618	2,857	25,547,016
Total	41	95,872,858	4,066	31,219,460	42	93,531,195	3,639	23,812,650

Table 79.—Capital Employed, by Classes and by Provinces, 1930-1932

Provinces	Value of land, buildings, fixtures and machinery	Inventory value of materials on hand and stocks in process	Inventory value of finished products on hand	Operating capital (Cash, bills and accounts receivable, prepaid expenses, etc.)	Total
1930	\$	\$	\$	\$	\$
Nova Scotia and New Brunswick	6,314,324	1,373,822		758,272	8,446,418
Quebec	9,437,952	2,914,323		579,592	12,931,837
Ontario	40,563,900	3,744,907		6,035,924	50,344,731
Manitoba, Saskatchewan and Alberta	5,414,491	70,654		53,317	5,538,462
British Columbia	11,960,293	468,165		297,329	12,725,787
Canada	73,699,960	8,571,871		7,724,404	89,997,235
1931					
Nova Scotia and New Brunswick	6,022,885	1,640,342	180,000	808,410	8,651,667
Quebec	10,569,790	1,426,209	1,254,933	610,987	13,861,889
Ontario	42,412,416	3,530,830	454,468	8,459,495	54,857,209
Manitoba, Saskatchewan and Alberta	5,432,119	41,875	19,064	83,817	5,576,875
British Columbia	12,180,885	449,685	19,722	274,926	12,925,218
Canada	76,618,065	7,088,941	1,928,187	10,237,665	95,872,858
1932					
Nova Scotia and New Brunswick	6,469,291	1,189,749	225,000	1,202,072	9,087,012
Quebec	10,631,577	1,310,026	990,360	661,169	13,593,132
Ontario	42,782,565	2,513,552	391,801	5,961,077	51,648,995
Manitoba, Saskatchewan and Alberta	5,454,410	25,337	30,385	110,816	5,620,948
British Columbia	12,949,086	400,769	17,830	216,723	13,584,408
Canada	78,246,929	5,439,433	1,655,376	8,152,757	93,534,495

Table 80.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees					Salaries and wages		
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1930						\$	\$	\$
Nova Scotia and New Brunswick	33	11	283		327	66,571	377,159	443,730
Quebec	121	5	289	1	416	223,967	474,130	698,097
Ontario	441	196	1,962	5	2,604	1,001,992	2,803,986	3,805,978
Manitoba, Saskatchewan and Alberta	34	22	112		168	99,249	162,644	261,893
British Columbia	74	10	371		455	169,948	485,156	655,104
Canada	703	244	3,017	6	3,970	1,561,727	4,303,075	5,864,802
1931								
Nova Scotia and New Brunswick	45	7	275		327	77,528	303,971	381,499
Quebec	131	10	296	1	438	246,555	422,550	669,105
Ontario	452	189	1,978	1	2,620	1,004,836	2,733,844	3,738,680
Manitoba, Saskatchewan and Alberta	35	21	136		192	87,597	158,263	245,860
British Columbia	74	8	347		429	159,527	422,092	581,619
Canada	737	235	3,032	2	4,006	1,576,043	4,040,720	5,616,763
1932								
Nova Scotia and New Brunswick	40	7	164		211	68,042	171,454	239,496
Quebec	92	11	280		383	195,669	357,898	553,567
Ontario	448	183	1,826	0	2,463	986,098	2,477,007	3,463,105
Manitoba, Saskatchewan and Alberta	35	25	150		210	79,308	147,470	226,778
British Columbia	77	12	283		372	151,635	263,165	414,800
Canada	692	238	2,703	6	3,629	1,486,752	3,416,994	4,897,746

Table 81.—Wage-Earners by Months, 1930-1932

(On the 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	2,944	6	2,950	2,891	2	2,893	2,739	5	2,744
February	2,883	7	2,890	2,894	2	2,896	2,711	5	2,716
March	2,918	6	2,924	2,868	2	2,870	2,742	5	2,747
April	2,996	7	3,003	2,919	2	2,921	2,734	5	2,739
May	3,247	6	3,253	3,027	2	3,029	2,745	5	2,750
June	3,094	7	3,101	3,094	2	3,096	2,723	5	2,728
July	3,078	6	3,084	3,150	2	3,152	2,670	5	2,675
August	3,038	7	3,045	3,208	1	3,209	2,652	5	2,657
September	3,002	6	3,008	3,245	1	3,246	2,709	5	2,714
October	3,007	6	3,013	3,102	1	3,103	2,700	6	2,706
November	3,015	6	3,021	3,034	1	3,035	2,687	7	2,694
December	2,977	6	2,983	2,931	1	2,932	2,658	7	2,665
Average	3,017	6	3,023	3,032	2	3,034	2,703	6	2,709

Table 82.—Fuel and Electricity Used, 1930-1932

NOTE.—Includes fuel for boilers, benches, retorts, etc., but does not include coal, coke, etc., charged to ovens or retorts.

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Coal, bituminous—Canadian	short ton	13,023	57,219	16,504	63,706	10,228	33,711
Imported	short ton	41,216	227,536	18,851	99,476	17,868	103,165
Coal, anthracite	short ton			1,447	6,238	919	5,085
Coal, lignite—Canadian	short ton					174	499
Coke (all made in users' works)	short ton	55,130	311,530	72,624	456,919	68,461	423,943
Coke breeze (all made in users' works)	short ton	36,486	138,076	21,823	74,262	34,915	71,441
Fuel oil	imp. gal.	5,405	572	45,805	4,484	159,900	11,321
Gas (all made in users' works)	M cu. ft.	5,880,787	1,433,198	3,640,336	1,055,029	6,516,515	1,405,476
Gasoline	imp. gal.	3,298	643	3,356	675	4,570	810
Other fuel			17,506		18,736		21,866
Electricity purchased	k.w.h.	36,350,135	198,020	27,400,808	182,742	19,531,928	146,097
Total			2,384,300		1,962,266		2,223,414

Table 83.—Power Employed, 1930-1932

	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	202	6,413	211	6,908	221	7,264
Gasoline, gas and oil engines	7	269	9	121	3	83
Hydraulic turbines or water wheels	1	3	1	3	1	3
<i>Total primary power</i>	<i>210</i>	<i>6,685</i>	<i>221</i>	<i>7,032</i>	<i>225</i>	<i>7,350</i>
Electric motors run by purchased power	676	17,680	680	17,679	777	19,293
Total power employed	886	24,365	901	24,711	1,002	26,643
Electric motors run by primary power in same plant	274	6,926	261	6,666	270	6,858
<i>Total electric motors</i>	<i>950</i>	<i>24,606</i>	<i>941</i>	<i>24,345</i>	<i>1,047</i>	<i>26,151</i>
Boilers	220	20,169	221	21,019	232	22,870

Table 84.—Materials Used in Coke and Gas Making, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal—							
Canadian	short ton	736,466	2,752,048	564,882	2,346,667	449,264	2,175,573
Foreign	short ton	2,454,577	11,565,120	1,967,654	9,349,162	1,767,748	8,134,302
Coke for gas-making—							
Purchased	short ton	9,448	95,800	5,238	47,944	4,507	42,225
Companies' own make	short ton	144,739	1,085,251	130,272	973,079	118,338	854,525
Oil used for enriching water gas	imp. gal.					9,849,710	580,816
Oil used for making oil gas	imp. gal.	12,401,166	992,642	10,935,971	717,474	1,796,878	109,522
Absorbing and wash oil	imp. gal.					135,816	14,294
Calcium carbide	lb.	46,815	2,047	40,000	1,775	40,000	1,691
Caustic soda	lb.					201,981	6,499
Lime	tons	1,942	19,015	1,425	13,475	691	5,728
Water			41,249		32,713		16,197
Oxide or purifying materials	tons	5,560	52,254	5,362	50,029	3,736	35,284
Sulphuric acid, 66° Bé	lb.	48,194,821	328,489	29,926,099	227,223	19,062,397	124,787
All other materials			148,449		134,970		140,255
Total			17,682,364		13,894,061		12,241,698

Table 85.—Products, 1930-1932

Products	Unit of measure	1930		1931		1932	
		Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$		\$
GAS—							
Retort coal gas	M cu. ft.	29,992,785		24,045,582		0,159,569	
Coke oven gas	M cu. ft.					16,871,341	
Straight water gas	M cu. ft.	890,986		1,411,374		125,508	
Carburetted water gas	M cu. ft.	4,561,194		3,930,686		3,987,610	
Mixed coal and water gas	M cu. ft.	414,970		202,021		72,419	
Oil gas	M cu. ft.	66,102		53,120		47,975	
Acetylene gas	M cu. ft.	1,495		178		195	
Total gas made	M cu. ft.	35,927,532		30,542,061		27,264,587	
Gas sold	M cu. ft.	17,713,477	13,471,629	17,111,432	13,010,733	17,083,631	12,895,039
Gas used in own plants	M cu. ft.	6,250,021	1,378,352	4,974,874	1,174,380	6,274,218	1,392,273
Gas used in associated metallurgical works	M cu. ft.	11,919,147	1,221,625	7,316,392	881,481	4,300,510	686,498
Gas otherwise accounted for, but not sold	M cu. ft.	134,519	136,067	180,028	59,975	160,947	58,258
Gas not accounted for	M cu. ft.	801,368	859,639	959,335	1,059,085	781,796	816,696
COKE—							
Coke from by-product ovens	short ton	1,891,676	13,226,699	1,384,521	9,851,163	1,184,875	8,740,263
Coke from gas retorts	short ton	293,366	2,141,180	287,054	2,116,795	276,616	2,878,890
Coke breeze from by-product ovens	short ton	171,088	365,719	127,800	305,848	146,295	345,453
Coke breeze from gas retorts	short ton	29,864	118,649	33,265	145,935	29,913	129,899
Total coke	short ton	2,385,994	15,852,247	1,832,700	12,419,741	1,637,701	12,094,505
OTHER PRODUCTS—							
Tar	imp. gal.	27,378,400	1,757,902	22,271,880	1,426,537	20,176,843	1,158,506
Ammonia liquor	lb. N.H. ₃	2,288,680	33,874	2,266,221	29,058	1,700,152	20,352
Ammonium sulphate	lb.	47,252,029	926,485	43,738,828	608,922	22,060,250	212,182
Benzol	imp. gal.	4,408,820	895,892	3,125,174	573,679	2,331,171	475,300
Light oils	imp. gal.	493,203	53,778	39,031	2,777	918	184
All other products			5,309		3,092		2,857
Total			36,592,859		31,219,460		29,812,650

Table 86.—Production* of Beehive, By-product and Gas Retort Coke, by Kinds, 1919-1932

Years	Beehive and by-product coke		Gas retort coke		Total	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
	short tons	\$	short tons	\$	short tons	\$
1919	1,276,443	9,821,998	398,589	2,251,744	1,675,032	12,073,742
1920	1,270,322	11,524,091	437,881	3,875,093	1,708,203	15,399,184
1921	1,011,847	11,049,369	452,152	3,061,814	1,463,999	14,111,183
1922	700,098	5,560,183	532,548	3,492,307	1,232,646	9,052,490
1923	1,169,989	10,236,524	498,309	3,695,960	1,668,298	13,932,484
1924	985,305	7,268,713	451,607	3,164,234	1,436,912	10,432,947
1925	1,079,526	7,442,103	467,213	3,040,738	1,546,739	10,482,841
1926	1,555,062	10,232,775	471,066	3,073,150	2,027,058	13,305,925
1927	1,582,662	10,165,035	443,770	2,799,177	2,026,438	12,964,212
1928	1,080,501	12,353,588	333,536	2,182,123	2,314,127	14,535,711
1929	2,372,229	15,938,466	305,352	2,009,192	2,677,581	17,947,658
1930	2,062,764	13,592,418	323,230	2,259,829	2,385,994	15,852,247
1931	1,512,381	10,157,011	320,319	2,262,730	1,832,700	12,419,741
1932	1,331,170	9,085,716	306,531	3,008,789	1,637,701	12,094,505

*Includes coke breeze.

Table 87.—Production of Beehive, By-product and Gas-Retort Coke, by Provinces, 1919-1932

Years	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta, and British Columbia		Canada	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
	short tons	\$	short tons	\$	short tons	\$	short tons	\$
1919	567,778	4,700,079	986,833	6,301,068	120,421	1,072,595	1,675,032	12,073,742
1920	604,642	6,053,226	882,257	6,834,357	221,304	2,511,601	1,708,203	15,390,184
1921	413,420	3,005,746	858,951	9,100,758	191,628	1,938,679	1,463,909	11,111,183
1922	454,678	2,439,591	603,219	4,893,672	174,749	1,719,227	1,232,646	9,052,490
1923	599,458	4,905,506	882,341	7,180,816	186,499	1,837,162	1,668,298	13,932,484
1924	420,535	2,753,384	857,528	6,161,144	158,840	1,518,419	1,436,912	10,432,947
1925	504,956	2,755,147	830,839	5,967,333	210,944	1,760,361	1,516,739	10,482,811
1926	646,929	3,265,348	1,144,493	8,208,124	235,636	1,832,453	2,027,058	13,305,925
1927	561,918	2,815,912	1,260,355	8,542,988	204,165	1,605,312	2,026,138	12,961,212
1928	703,297	3,926,491	1,443,512	9,332,026	167,318	1,276,294	2,311,127	11,535,711
1929	850,452	5,259,446	1,624,884	11,112,809	292,245	1,575,403	2,677,581	17,917,658
1930	680,941	4,361,204	1,516,080	10,021,232	189,003	1,469,751	2,385,994	15,852,247
1931	538,126	3,887,746	1,113,509	7,163,526	181,065	1,368,469	1,832,700	12,113,741
1932	403,330	3,116,737	1,087,122	7,876,941	147,249	1,101,827	1,637,761	12,094,536

Table 88.—Production of Coke in Canada, according to Purpose, 1924-1931

Years	Beehive and by-product coke				Gas retort coke			Total coke
	For makers own use in coke plant	For use in associated metallurgical works	For sale	Total by-product	For makers' own use	For sale	Total gas-house	
	tons	tons	tons	tons	tons	tons	tons	
1924	13,123	781,445	190,737	985,305	181,028	270,579	451,607	1,436,912
1925	15,527	764,120	299,879	1,079,526	178,325	288,888	467,213	1,546,739
1926	7,622	967,747	580,593	1,555,962	217,802	253,294	471,096	2,027,058
1927	6,770	956,907	618,985	1,582,662	234,173	209,003	443,176	2,026,138
1928	32,303	1,146,906	801,382	1,980,591	183,517	150,019	333,536	2,311,127
1929	143,070	1,234,143	994,416	2,372,229	159,965	145,387	305,352	2,677,581
1930	145,417	926,128	991,219	2,062,764	184,169	169,361	353,530	2,385,994
1931	136,886	400,546	974,943	1,513,374	199,713	120,606	320,319	1,832,700

Table 89.—Coke Sold and Coke Used by Producers During 1932, and Stocks on Hand at End of 1932

	Beehive and by-product coke		Gas retort coke	
	Coke	Breeze	Coke	Breeze
	short tons	short tons	short tons	short tons
Coke actually used by reporting companies—				
In coke or gas plant	103,421	14,084	170,929	9,223
In associated metallurgical works	149,382	82,209		
Coke sold—				
For domestic use	772,289	25,475	104,201	18,824
For other uses	64,223	17,774	30	
Stocks on hand at end of 1932	263,522	58,410	46,330	1,011

Table 90.—Production of Petroleum Coke in Canada, 1927-1932

Years	Made for own use		Made for sale		Total	
	Tons	Selling value at works	Tons	Selling value at works	Tons	Selling value at works
		\$		\$		\$
1927	6,850	45,063	69,379	403,555	76,229	449,218
1928	15,547	93,882	80,361	467,548	95,908	561,130
1929	25,408	140,230	84,108	465,753	109,516	605,983
1930	23,538	124,303	68,549	392,945	92,087	517,308
1931	20,029	96,676	52,310	280,660	72,339	377,336
1932	19,278	104,181	53,787	293,753	73,065	397,936

MANUFACTURES OF NON-METALLIC MINERALS

Table 91.—Bituminous Coal Charged to Coke Ovens and Gas Retorts, 1919-1932

Years	Beehive and by-product ovens		Gas retorts		Total
	Canadian	Imported	Canadian	Imported	
	(Short tons)				
1919	850,305	1,015,706	581,750		2,447,761
1920	960,148	977,364	648,618		2,586,130
1921	586,185	910,845	655,789		2,152,819
1922	487,907	565,496	641,875		1,695,278
1923	736,818	970,206	728,011		2,435,035
1924	584,304	826,613	681,480		2,092,397
1925	598,280	930,738	723,394		2,252,412
1926	938,134	1,254,866	80,023	620,360	2,894,283
1927	809,135	1,431,345	68,894	555,935	2,865,309
1928	829,157	1,876,502	80,382	413,118	3,199,159
1929	872,884	2,378,507	88,507	372,387	3,712,285
1930	640,167	2,097,921	90,299	356,656	3,191,043
1931	468,838	1,576,881	99,044	390,773	2,532,536
1932	351,990	1,413,328	97,304	354,420	2,217,012

Table 92.—Bituminous Coal Charged to Coke Ovens and Gas Retorts, by Provinces, 1919-1932

Years	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		Total
	Canadian	Imported	Canadian	Imported	Canadian	Imported	
	(Short tons)						
1919	946,019		1,319,943		181,799		2,447,761
1920	991,332		1,280,336		334,462		2,586,130
1921	653,598		1,219,398		279,823		2,152,819
1922	588,217		851,177		255,884		1,695,278
1923	910,081		1,248,549		276,405		2,435,035
1924	751,551		1,104,980		235,866		2,092,397
1925	797,545		1,122,808		332,059		2,252,412
1926	750,775	244,805	1,559,427		268,282	70,904	2,894,283
1927	633,156	218,411	1,701,060		244,871	67,806	2,865,309
1928	690,605	340,896	9,424	1,890,181	203,510	58,543	3,199,159
1929	734,221	406,433		2,206,358	227,170	78,123	3,712,285
1930	515,793	433,414		1,963,195	220,673	57,998	3,191,043
1931	338,072	414,179		1,516,819	226,810	36,656	2,532,536
1932	271,496	295,114	105	1,435,964	177,663	36,679	2,217,012

Table 93.—Consumption of Coke in Iron Blast Furnaces in Canada, 1919-1932

Years	Made in Canada from Canadian coal	Made in Canada from imported coal	Imported coke	Total
1919	372,203	689,548		1,061,751
1920	415,742	788,795		1,204,537
1921	244,830	476,170	50,793	771,793
1922	127,250	278,764	29,844	435,858
1923	336,300	576,832	76,163	989,364
1924	219,870	438,323		658,193
1925	249,972	386,418		636,390
1926	318,407	500,600	26,374	845,381
1927	310,978	487,825		798,803
1928	384,830	665,675	71,359	1,121,864
1929	406,290	680,140	84,741	1,171,171
1930	253,735	488,469	73,836	796,040
1931	116,880	301,477	30,488	448,845
1932	37,984	117,948		155,932

Table 94.—Coke Made Available for Consumption in Canada, 1902-1932

Years	Output	Imports	*Exports	Coke made available for consumption
	(short tons)	(short tons)	(short tons)	(short tons)
1902.....	502,043	268,140	62,568	705,615
1903.....	561,318	258,703	32,608	787,413
1904.....	554,083	239,310	102,463	690,930
1905.....	700,488	470,486	116,071	1,054,903
1906.....	782,055	501,942	37,003	1,246,994
1907.....	842,003	624,649	70,617	1,396,035
1908.....	858,257	426,971	58,708	1,226,520
1909.....	862,011	661,425	74,067	1,449,389
1910.....	902,715	737,088	57,971	1,581,832
1911.....	935,651	751,389	9,852	1,677,188
1912.....	1,411,229	628,174	57,744	1,981,659
1913.....	1,530,499	723,906	68,235	2,186,170
1914.....	1,023,860	553,046	67,838	1,509,068
1915.....	1,170,473	637,857	35,869	1,772,461
1916.....	1,469,741	757,116	48,539	2,178,318
1917.....	1,245,862	970,106	23,595	2,192,373
1918.....	1,250,744	1,165,590	29,612	2,386,722
1919.....	1,675,032	383,374	14,700	2,043,697
1920.....	1,708,203	586,406	39,536	2,255,073
1921.....	1,463,099	228,030	20,907	1,671,122
1922.....	1,232,646	336,270	19,831	1,549,085
1923.....	1,668,298	733,604	34,407	2,367,495
1924.....	1,436,912	521,725	23,144	1,935,493
1925.....	1,546,739	852,427	25,578	2,373,588
1926.....	2,027,058	988,034	41,699	2,973,393
1927.....	2,026,438	772,235	74,109	2,724,564
1928.....	2,314,127	1,060,029	25,058	3,349,098
1929.....	2,677,581	1,226,853	25,208	3,879,226
1930.....	2,385,994	1,061,040	29,801	3,417,233
1931.....	1,832,700	733,274	20,905	2,545,069
1932.....	1,637,701	651,802	15,469	2,274,034

*Previous to 1925 export of petroleum coke was included.

Table 95.—Production in Canada, Imports, Exports and Apparent Consumption of Coke*, by Provinces, 1930 and 1932

		Nova Scotia, New Brunswick and Quebec	Ontario	Manitoba, Saskatche- wan, Alberta and British Columbia	Canada
		short tons	short tons	short tons	short tons
Production.....	1930	680,911	1,516,080	189,003	2,385,994
	1931	538,126	1,113,509	181,065	1,832,700
	1932	403,330	1,087,122	147,249	1,637,701
Imports.....	1930	49,721	993,815	17,504	1,061,040
	1931	23,969	694,982	14,323	733,274
	1932	38,682	605,307	7,813	651,802
Exports.....	1930	1,253	317	28,231	29,801
	1931	822	106	19,977	20,905
	1932	664		14,805	15,469
Apparent Consumption.....	1930	729,379	2,509,578	178,276	3,417,233
	1931	561,273	1,808,385	175,411	2,545,069
	1932	441,348	1,692,429	140,257	2,274,034

(*) Exclusive of petroleum coke.

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Table 96.—Production of Coke in Canada, by Months, 1926-1932
(In 1000's of short tons)

Months	1926	1927	1928	1929	1930	1931	1932
January.....	156	177	182	221	225	171	151
February.....	166	158	169	202	204	165	144
March.....	152	172	182	228	224	179	156
April.....	149	170	174	220	213	169	143
May.....	159	174	193	231	210	169	129
June.....	152	166	165	221	193	155	119
July.....	158	159	200	225	182	139	127
August.....	166	169	191	227	182	132	121
September.....	166	150	194	220	170	126	127
October.....	174	152	210	233	185	140	131
November.....	154	157	205	224	185	144	143
December.....	275	222	219	226	213	144	147
Total.....	2,927	2,926	2,314	2,678	2,386	1,833	1,638
Monthly average.....	167	169	193	233	199	153	137

Table 97.—Production and Sales of Manufactured Gas in Canada, 1927-1932

Years	From by-product and gas plants			Production of still gas from petroleum refineries M cu. ft.
	Production M cu. ft.	Sales		
		Quantity M cu. ft.	Income from sales \$	
1927.....	32,856,169	14,658,495	15,653,591	1,719,394
1928.....	35,058,920	15,606,609	13,933,537	2,489,346
1929.....	38,925,086	17,649,371	13,316,684	3,140,187
1930.....	35,927,532	17,713,477	13,471,629	3,529,319
1931.....	30,542,061	17,111,432	13,010,733	5,161,905
1932.....	27,264,587	17,083,631	12,895,030	3,836,413

Table 98.—Production of Crude Coal Tar in Canada, by Provinces, 1929-1932

Provinces	1929	1930	1931	1932
	imp. gals.	imp. gals.	imp. gals.	imp. gals.
Nova Scotia and New Brunswick.....	7,040,335	4,792,108	3,201,210	1,513,135
Quebec.....	3,204,004	3,572,374	3,139,901	3,226,665
Ontario.....	18,212,216	17,529,702	14,437,586	13,850,265
Manitoba.....	665,074	542,499	478,886	454,882
British Columbia.....	988,817	941,717	1,014,297	1,131,896
Total.....	30,119,476	27,378,490	22,271,880	20,176,843

Table 99.—Sales of Gas, Number of Customers and Mileage of Pipe Lines, by Provinces, 1932

Provinces	Manufactured gas			Natural gas		
	Number of customers	Sales of gas to customers	Mileage of pipe lines	Number of customers	Sales of gas to customers	Mileage of pipe lines
	No.	M cu. ft.			M cu. ft.	
Nova Scotia, New Brunswick and Quebec.....	210,672	6,221,145	962	6,300	641,010	(a)
Ontario.....	247,483	8,681,296	1,978	87,161	6,881,042	7,416
Alberta.....				37,074	12,511,733	954
Manitoba and British Columbia.....	64,711	1,811,482	746			
Canada.....	531,866	16,713,923	3,686	131,135	20,034,385	8,370

(a) Not available.

Table 101.—Imports into Canada and Exports of Coal and its Products
1930-1932—Concluded

	Total			United Kingdom			United States		
	1930	1931	1932	1930	1931	1932	1930	1931	1932
COAL PRODUCTS									
Coal tar, crude, in packages of not less than 15 gallons..... gal.	4,521,008	1,592,243	1,798,535	504	1,750	400	4,515,560	1,590,493	1,798,135
..... \$	230,692	111,341	92,613	290	359	170	289,149	110,982	92,443
Coal pitch..... cwt	53,056	41,520	11,370	738	2,264	1,121	52,058	40,921	10,249
Carbolic or heavy oil... gal.	2,358,516	2,089,620	422,427	252,417	745,670	24,330	1,159,517	825,842	77,473
..... \$	380,039	271,955	55,973	37,289	77,296	3,947	211,799	143,029	20,687
Coke..... ton	1,061,040	640,849	585,910	12,732	5,462	39,422	1,048,209	635,161	548,433
..... \$	5,611,897	3,469,608	2,777,310	53,177	23,281	151,934	5,558,183	3,445,317	2,625,114
Petroleum coke, coke, ground, when imported by manufacturers of electric batteries, for use in their own factories in the manufacture of such batteries..... cwt	430	17,236	37,093				430	17,236	37,093
..... \$	23,115	116,417	187,524				23,315	110,417	187,524
Coke for the manufacture of calcium carbide and for use in metallurgy. (From August 3, 1931.)..... ton		26,983	25,076					26,983	25,076
..... \$		126,483	197,875					126,483	197,875
Total imports... \$	63,033,365	40,922,662	34,669,471	6,765,819	5,151,169	7,831,682	54,188,049	35,484,068	26,624,594
EXPORTS—									
Coal, lignite..... ton	30,022	23,551	15,194				30,022	23,551	15,194
..... \$	85,250	66,193	37,955				85,250	66,493	37,955
Coal, n.o.p..... ton	594,490	336,302	270,293	18,453	10,488	8,575	180,304	139,800	120,504
..... \$	3,260,748	1,843,429	1,395,081	132,602	70,508	53,811	917,830	677,040	518,172
Cinders..... \$	456	815	386				456	815	386
Coke..... ton	53,979	37,028	25,987			45	53,752	36,662	25,607
..... \$	698,211	454,153	272,141			3,000	609,587	450,661	271,989
Tar and pitch, coal... gal.	4,553,899	2,880,018	3,017,552			962,190	205,318	459,187	684,337
..... \$	182,478	131,129	203,126			73,030	22,676	35,923	35,398
Creosote oil..... gal.	1,132,013	576,427	274,598				1,132,014	576,387	274,488
..... \$	176,981	91,698	57,123				176,984	91,648	47,065
Total exports... \$	4,404,127	2,587,717	1,960,810	132,602	70,508	129,841	1,809,783	1,322,580	919,964

Table 102.—Imports of Coke* into Canada by Ports of Entry 1930-1932

Port of entry	1930	1931	1932
	short tons	short tons	short tons
Prince Edward Island—			
From United States—			
Port—			
Charlottetown.....	28	32	
Total.....	28	32	
Nova Scotia—			
From United States—			
Port—			
Amherst.....	813	388	
Halifax.....	310	90	
Liverpool.....	56		
Lambert.....	107	91	
New Glasgow.....	175	61	
Total.....	1,463	630	
From Great Britain—			
Port—			
Halifax.....	2,314	3,733	8,275
Total.....	2,314	3,733	8,275
Total Nova Scotia.....	3,777	4,363	8,275

*Excluding petroleum coke.

Table 102.—Imports of Coke into Canada by Ports of Entry 1930-1932—Continued

Port of entry	1930	1931	1932
	short tons	short tons	short tons
New Brunswick—			
From United States—			
Port—			
Campbellton.....	73	40	.....
Chatham.....	29	.....	.....
Moncton.....	64	31	.....
Sackville.....	430	315	122
St. John.....	748	439	28
St. Stephen.....	80	.....	.....
Total.....	1,430	825	150
Quebec—			
From United States—			
Port—			
Athelstan.....	196	698	87
Chicoutimi.....	15,601	6,218	117
Drummondville.....	28	30	.....
Hull.....	33	.....	.....
Montreal.....	10,470	4,350	82
Quebec.....	525	300	.....
Rock Island.....	120	98	.....
St. Armand.....	.....	5	.....
St. Hyacinthe.....	28	.....	.....
St. John's.....	334	160	.....
Shawinigan Falls.....	7,744	3,502	65
Sherbrooke.....	336	330	25
Sorel.....	802	465	215
Sutton.....	58	.....	.....
Three Rivers.....	101	2,594	.....
Valleyfield.....	51	28	.....
Total.....	36,429	18,787	501
From Great Britain—			
Port—			
Chicoutimi.....	7,495	.....	.....
Montreal.....	.....	22	21,732
Quebec.....	562	.....	2,669
Three Rivers.....	.....	.....	5,265
Total.....	8,057	22	29,666
Total Quebec.....	44,486	18,809	30,257
Central Ontario—			
From United States—			
Amherstburg.....	10,884	5,090	7,900
Belleville.....	2,015	1,183	5,378
Bowmanville.....	1,671	854	350
Brantford.....	5,610	3,814	2,715
Bridgeburg.....	4,024	947	.....
Brockville.....	710	2,235	1,988
Chatham.....	9,145	8,120	7,294
Cobourg.....	2,173	2,080	2,174
Collingwood.....	2,003	2,311	815
Cornwall.....	.....	197	.....
Fort Erie.....	.....	.....	5,266
Fort Frances.....	130	24	14
Galt.....	8,454	6,589	5,145
Gananoque.....	553	357	415
Goderich.....	5,676	3,305	1,937
Guelph.....	6,769	5,828	3,016
Hamilton.....	21,444	12,290	13,612
Ingersoll.....	1,156	460	497
Kingston.....	1,515	793	235
Kitchener.....	11,271	7,655	8,566
Lindsay.....	2,211	1,817	1,612
London.....	36,665	25,718	24,655
Midland.....	4,771	3,037	926
Morrisburg.....	71	37	.....
Napanee.....	642	303	23
Niagara Falls.....	72,153	16,028	13,010
North Bay.....	701	454	402
Orillia.....	1,354	880	432
Oshawa.....	3,927	13,840	13,194
Ottawa.....	4,743	3,764	1,786
Owen Sound.....	14,192	2,445	7,064
Paris.....	259	186	86
Perry Sound.....	82	18	.....
Peterboro.....	4,729	3,075	2,103
Pictou.....	499	550	388
Port Hope.....	1,987	1,662	969
Port McNicoll.....	70
Prescott.....	83
St. Catharines.....	22,409	13,168	11,186

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Table 102.—Imports of Coke into Canada by Ports of Entry 1930-1932—Concluded

Port of entry	1930	1931	1932
	short tons	short tons	short tons
Central Ontario—Con.			
From United States—Con.			
St. Thomas.....	35,052	16,954	8,245
Sarnia.....	9,021	5,230	5,404
Simcoe.....	787	479	148
Stratford.....	6,892	5,060	3,674
Sudbury.....	547	510	300
Tillsonburg.....	469	551	260
Toronto.....	257,699	276,911	331,121
Trenton.....	2,227	473	101
Wallaceburg.....	2,895	2,076	2,614
Welland.....	240,263	100,960	12,463
Whitby.....	1,374	602	72
Windsor.....	60,654	50,454	60,040
Woodstock.....	2,824	2,153	1,479
Total.....	887,871	621,123	571,028
Head of Lakes—			
From United States—			
Port—			
Fort William.....	105,821	73,776	34,227
Port Arthur.....	123	83	52
Total.....	105,944	73,859	34,279
Total Ontario.....	993,815	694,982	605,307
Manitoba—			
From United States—			
Port—			
Brandon.....	138	49	.....
Emerson.....	89	.....	.....
Gretna.....	.....	.....	23
Winnipeg.....	14,008	12,179	6,237
Total.....	14,235	12,228	6,260
Saskatchewan—			
From United States—			
Port—			
Saskatoon.....	68	.....	.....
Total.....	68	.....	.....
British Columbia—			
From United States—			
Port—			
New Westminster.....	121	33	.....
Prince Rupert.....	1	.....	.....
Vancouver.....	529	129	.....
Victoria.....	90	.....	17
Total.....	741	162	17
From Great Britain—			
Port—			
Vancouver.....	2,361	1,707	1,314
Victoria.....	.....	.....	167
Total.....	2,361	1,707	1,481
From Germany—			
Port—			
Vancouver.....	99	110	55
Victoria.....	.....	116	.....
Total.....	99	226	55
Total British Columbia.....	3,201	2,095	1,553
Canada—			
United States.....	1,048,289	727,646	612,325
Great Britain.....	12,732	5,462	39,422
Germany.....	99	226	55
Total.....	1,061,040	733,334	651,802

Table 103.—Exports of Canadian Coke* by Ports of Exit 1930-1932

Port of exit	1930	1931	1932
	short tons	short tons	short tons
Prince Edward Island—			
Charlottetown	13		
Total	13		
Nova Scotia—			
Halifax		1	
North Sydney	18	20	46
Sydney	151	290	269
Total	169	301	315
New Brunswick—			
Woodstock	85	18	13
Total	85	18	13
Quebec—			
Athelstan	22		
Caticook	480	26	
Lake Megantic	369	368	291
Montreal	45		
St. John's	8	44	
Sutton	62	65	45
Total	986	503	336
Ontario—			
Sault Ste. Marie	317	106	
Total	317	106	
British Columbia—			
Abbotsford	1,079	128	8,114
Cranbrook	14,061	10,817	6,666
Fernie	12,498	8,632	
New Westminster			25
Vancouver	593	400	
Total	29,231	19,977	14,805
Canada	29,801	20,905	15,469

* Excluding petroleum coke.

Primary Production of Natural Gas, 1932 (From the Annual Report on the *Mineral Production of Canada*.)—Natural gas production in Canada during 1932 amounted to 23,420,174 thousand cubic feet valued at \$8,899,462 as compared with 25,874,723 thousand cubic feet worth \$9,026,754 produced in 1931. Alberta was the leading producing province with an output of 15,370,968 thousand cubic feet; Ontario came next with 7,386,154 thousand cubic feet; and New Brunswick followed with 652,452 thousand cubic feet. There was the usual small production from several private wells in Manitoba.

Capital employed by the firms operating in the natural gas industry in Canada amounted to \$75,187,066. Employment was furnished 1,351 salaried employees and wage-earners who received \$1,738,949 during the year. Expenditures for fuel and electricity totalled \$32,912.

Table 104.—Principal Statistics of the Natural Gas Industry in Canada, 1930-1932

	1930	1931	1932
Number of firms	124	145	160
Capital employed	\$ 70,548,353	71,085,678	75,187,066
Number of employees—On salary	650	596	571
On wages	1,291	1,096	780
Total	1,941	1,692	1,351
Salaries and wages—Salaries	\$ 974,888	915,409	844,193
Wages	\$ 1,374,815	1,156,613	894,756
Total	\$ 2,349,703	2,072,022	1,738,949
Cost of fuel and electricity	\$ 33,811	26,921	32,912
Selling value of products	\$ 10,289,985	9,026,754	8,899,462

Table 105.—Production of Natural Gas, 1930-1932

Provinces	1930		1931		1932	
	M cu. ft.	Value	M cu. ft.	Value	M cu. ft.	Value
New Brunswick	661,975	\$ 325,749	655,891	\$ 323,184	662,452	\$ 326,191
Ontario	7,901,137	4,503,650	7,419,534	4,635,497	7,386,154	4,719,297
Manitoba	600	180	600	180	600	180
Alberta	20,540,858	4,806,125	17,798,698	4,067,893	15,370,968	3,853,794
Total	29,104,570	9,635,704	25,874,723	9,026,754	23,429,174	8,899,462

Table 106.—Directory of Firms in the Coke and Gas Industry, 1932

Name	Location of plant	Number and type of ovens or retorts
1. COKE PLANTS		
(a) BY-PRODUCT		
Dominion Steel and Coal Corp. Ltd.	Sydney, N.S.	180 Koppers horizontal ovens.
Montreal Coke and Manufacturing Co.	Montreal, P.Q.	59 Koppers Becker type horizontal ovens.
Algoma Steel Corporation Ltd.	Sault Ste. Marie, Ont.	110 Koppers ovens and 50 Wilputte ovens.
Hamilton By-Product Coke Ovens Ltd.	Hamilton, Ont.	25 Sennet-Solvay ovens and 35 Wilputte ovens.
Steel Company of Canada, Limited.	Hamilton, Ont.	80 Wilputte ovens.
Winnipeg Electric Company	Winnipeg, Man.	17 Koppers Becker type horizontal ovens.
Granby Consolidated Mining, Smelting and Power Co. Ltd.	Anyox, B.C.	10 American by-product ovens.
(b) BEEHIVE		
International Coal and Coke Co. Ltd.	Coleman, Alberta	90 beehive ovens.
Crows Nest Pass Coal Co. Ltd.	Fernie and Michel, B.C.	940 beehive ovens.
2. ILLUMINATING AND FUEL GAS PLANTS		
(a) RETORT COAL GAS (1); CARBURLETED WATER GAS (2); STRAIGHT WATER GAS (3); MIXED COAL AND WATER GAS (4)		
Nova Scotia Light and Power Co. Ltd. (1).	Halifax, N.S.	12 Glover-West continuous vertical retorts.
New Brunswick Power Company (1)	Saint John, N.B.	24 Russell horizontal retorts.
City of Sherbrooke Gas and Electricity Department (2).	Sherbrooke, P.Q.	2 sets Western Gas water gas producers.
Quebec Power Company (Gas Division) (1) (2).	Quebec, P.Q.	12 Woodall-Duckham vertical continuous retorts.
Barrie Water, Light & Gas Commission (2)	Barrie, Ont.	2 vertical producers.
Board of Light and Heat Commissioners (1) (2).	Guelph, Ont.	6 Glover-West vertical continuous retorts.
Brockville Public Utilities Commission (2)	Brockville, Ont.	2 water gas producers.
City Gas Company of London (1) (2).	London, Ont.	66 horizontal recuperative retorts and 3 water gas producers.
Consumers Gas Company of Toronto (1) (2).	Toronto, Ont.	104 Glover-West vertical retorts; 220 Drakes Ltd., horizontal retorts; 8 sets water gas producers.
Gas Commission of St. Thomas (4)	St. Thomas, Ont.	6 benches horizontal retorts.
Hydro Electric Power Commission of Ontario (1).	Cobourg, Ont.	9 horizontal retorts.
Ontario Shore Gas Company Ltd. (1).	Belleville, Ont.	4 Glover-West continuous vertical retorts.
Ontario Shore Gas Company Ltd. (2).	Oshawa, Ont.	1 water gas producer.
Ottawa Gas Company (1)	Ottawa, Ont.	16 Glover-West vertical retorts; 12 vertical coke ovens.
Peterborough Utilities Commission (2).	Peterborough, Ont.	2 water gas producers.
Port Hope Gas Company Ltd. (1).	Port Hope, Ont.	3 horizontal gas retorts.
Public Utilities Commission (2)	Kingston, Ont.	2 sets water gas producers.
Public Utilities Commission (1) (3).	Kitchener, Ont.	5 horizontal retorts.
Public Utilities Commission (1)	Owen Sound, Ont.	18 horizontal retorts.
Public Utility Commission (1)	Stratford, Ont.	12 horizontal retorts.
Manitoba Power Commission (1)	Brandon, Man.	12 Russell Mfg. Co. retorts; 12 Kerr-Murray retorts.
B.C. Electric Railway Co. (Victoria Gas Co.) (1) (2).	Victoria, B.C.	16 Glover-West vertical retorts.
B.C. Electric Power & Gas Co. Ltd. (1) (2)	Vancouver, B.C.	64 Glover-West vertical retorts; 2 Humphrey Glasgow self clinking type water gas producers.
Corporation City of Nelson (1)	Nelson, B.C.	8 horizontal retorts.
(b) OIL GAS		
Pintsch Compressing Co.	McAham, N.B. Montreal, P.Q. North Bay, Ont. Toronto, Ont. Winnipeg, Man. Moose Jaw, Sask. Edmonton, Alberta. Vancouver, B.C.	
(c) ACETYLENE GAS		
Shawinigan Chemicals Ltd.	Morris, Sask.	

CHAPTER EIGHT

THE GLASS INDUSTRY

In 1932 glass bottles, jars, etc., were manufactured in Canada in 6 plants operated by 3 different companies, as follows: the Dominion Glass Company, Limited, with factories at Montreal, P.Q., Hamilton, Ont., Wallaceburg, Ont., and Redcliff, Alberta; the Consumers Glass Company, Limited at Montreal, P.Q., and the Mid-West Glass Co. Ltd., at Winnipeg, Man. The Feldspar Glass Limited which operated at Oshawa, Ontario, during 1930 went out of business early in 1931. These 6 establishments reported a production valued at \$6,690,367 at factory prices in 1932 compared with \$7,103,039 in 1931 and \$8,673,064 in 1930.

Plate glass and window glass are not manufactured in Canada. Window glass valued at \$662,458 in 1932 was imported chiefly from Belgium, Czechoslovakia, and the United Kingdom; and plate glass worth \$1,324,955 in the same year was purchased chiefly from United States, the United Kingdom and Belgium.

A considerable number of firms cut, bevel or work the imported glass to make leaded glass, mirrors, lenses, bevelled edge plates, art glass, cut glass, etc. In 1932, reports were received from 57 such factories of which 35 were in Ontario, 10 in Quebec, 7 in British Columbia, 3 in Manitoba and 1 in each of Nova Scotia and New Brunswick. Production from these works in 1932 was valued at \$1,779,528. In 1931 the output value was \$2,834,372 and in 1930 the corresponding total was \$3,518,688.

Including both sections of the glass industry, the number of plants in operation in 1932 was 63; the capital employed was \$14,281,044; the number of employees was 2,608; the total of salaries and wages was \$2,969,887, and the value of products was \$8,469,895. In 1931 the 66 establishments employed 2,956 people and produced goods worth \$9,937,411.

Imports of glass and glassware of all kinds reached a value of \$4,548,675 in 1932 as compared with \$6,179,871 in 1931 and \$8,284,741 in 1930. Exports were valued at \$145,488 in 1932, \$175,747 in 1931, and \$150,759 in 1930. Re-exports of imported goods were reported at \$15,363, \$23,080 and \$24,295 in the same years.

Table 107.—Distribution of Plants, by Provinces, 1930-1932

Provinces	1930			1931			1932		
	Cut and bevelled glass	Pressed and blown glass	Total	Cut and bevelled glass	Pressed and blown glass	Total	Cut and bevelled glass	Pressed and blown glass	Total
Nova Scotia.....	1		1	1		1	1		1
New Brunswick.....	1		1	1		1	1		1
Quebec.....	8	2	10	11	2	13	10	2	12
Ontario.....	34	3	37	36	2	38	35	2	37
Manitoba.....	3	1	4	3	1	4	3	1	4
Saskatchewan.....	1		1						
Alberta.....	1	1	2	1	1	2		1	1
British Columbia.....	6		6	7		7	7		7
Canada.....	55	7	62	60	6	66	57	6	63

Table 108.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
1930								
Quebec.....	10	6,589,707	1,112	1,401,763	440,107	1,372,961	4,614,032	3,241,071
Ontario.....	37	7,040,405	1,999	2,480,535	495,033	2,422,331	6,685,259	4,262,928
Manitoba.....	4	804,573	76	71,489	42,204	74,853	228,663	153,810
British Columbia.....	6	77,452	29	35,125	1,651	21,599	80,205	58,696
Other Provinces.....	5	1,450,255	172	216,654	11,836	322,141	583,503	261,362
Canada	62	15,962,392	3,398	4,295,566	990,891	4,213,885	12,191,752	7,977,867
1931								
Quebec.....	13	5,972,540	1,023	1,241,875	334,692	1,157,607	3,607,943	2,450,336
Ontario.....	28	6,909,943	1,657	2,038,624	438,550	2,028,029	5,483,406	3,454,837
Manitoba.....	4	698,015	69	59,702	37,313	53,500	185,514	132,005
British Columbia.....	7	94,441	29	30,575	1,307	21,056	65,182	44,126
Other Provinces.....	14	1,202,018	178	193,416	10,232	325,769	595,306	269,537
Canada	66	14,873,963	2,956	3,564,192	822,094	3,586,570	9,937,111	6,350,841
1932								
Quebec.....	12	5,863,416	767	961,415	270,645	955,882	2,823,395	1,867,513
Ontario.....	37	6,450,288	1,541	1,713,347	432,730	1,818,855	4,834,070	3,015,315
British Columbia.....	7	91,334	24	24,079	1,281	10,663	38,504	27,841
Other provinces.....	7	1,876,006	276	271,046	61,020	370,170	773,826	403,647
Canada	63	14,281,044	2,608	2,969,887	765,685	3,155,579	8,469,895	5,314,316

Table 109.—Principal Statistics According to Production Values and Number of Employees, 1931 and 1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value at works	Number of plants	Capital employed	Number of employees	Selling value at works
				\$				\$
(a) Production values								
Under 5,000.....	6	77,877	12	16,023	13	149,283	38	41,552
5,000 to 10,000.....	13	233,626	62	94,233	8	129,303	38	58,722
10,000 to 25,000.....	15	521,305	112	246,911	14	525,039	101	208,868
25,000 to 50,000.....	8	446,057	126	289,542	10	785,210	160	355,372
50,000 to 100,000.....	12	752,003	349	955,140	9	813,490	213	604,523
100,000 to 250,000.....	5	1,324,355	219	746,332	4	1,069,481	225	659,063
Over 250,000.....	7	11,518,740	2,076	7,589,230	5	10,779,208	1,833	6,541,795
Total	66	14,873,963	2,956	9,937,411	163	14,281,044	2,608	8,469,895
(b) Number of employees								
Under 10 employees.....	33	770,755	155	365,677	34	956,754	159	318,807
10 to 20.....	10	672,643	146	561,322	13	1,101,398	176	507,690
21 to 50.....	13	1,346,544	387	979,122	8	409,666	242	558,965
51 to 100.....	5	1,253,585	311	1,065,149	3	974,018	198	542,638
Over 100.....	5	10,830,436	1,957	6,966,150	5	10,779,208	1,833	6,541,795
Total	66	14,873,963	2,956	9,937,411	63	14,281,044	2,608	8,469,895

Table 110.—Capital Employed by Classes and by Provinces, 1930-1932

Provinces	Present value of lands, buildings, machinery, tools, etc.	Inventory value of materials on hand, stocks in process, fuel and other supplies	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable)	Total
1930					
Quebec.....	4,253,219	1,442,856		893,632	6,589,707
Ontario.....	4,274,968	1,604,549		1,160,888	7,040,405
Manitoba.....	434,338	337,141		33,094	804,573
British Columbia.....	23,868	31,035		22,849	77,752
Other provinces.....	1,034,323	240,541		175,391	1,450,255
Canada.....	10,020,416	3,656,122		2,235,854	15,962,392
1931					
Quebec.....	3,848,882	408,519	915,842	799,303	5,972,546
Ontario.....	3,910,692	924,370	599,985	1,471,896	6,906,944
Manitoba.....	546,392	53,162	82,969	45,492	698,015
British Columbia.....	15,300	43,132	450	35,559	94,441
Other provinces.....	866,105	76,369	182,046	77,498	1,202,018
Canada.....	9,157,371	1,595,552	1,781,292	2,429,748	14,873,963
1932					
Quebec.....	3,735,268	358,578	935,052	834,518	5,863,416
Ontario.....	3,891,948	699,229	712,780	1,146,331	6,450,298
British Columbia.....	20,798	36,430	500	33,606	91,334
Other provinces.....	1,253,161	113,438	229,826	279,581	1,876,006
Canada.....	8,901,175	1,207,675	1,878,158	2,294,036	14,281,044

Table 111.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees				Total	Salaries and wages		
	On salaries		On wages			Salaries	Wages	Total
	Male	Female	Male	Female				
1930								
Quebec.....	95	29	852	136	1,112	266,084	1,135,679	1,401,763
Ontario.....	147	47	1,653	152	1,999	449,187	2,031,348	2,480,535
Manitoba.....	7	2	44	23	76	10,900	60,589	71,489
British Columbia.....	5	2	21	1	29	8,908	26,219	35,125
Other provinces.....	14	5	141	12	172	45,479	171,175	216,654
Canada.....	268	85	2,711	324	3,388	780,556	3,425,010	4,205,566
1931								
Quebec.....	98	32	773	120	1,023	267,081	974,794	1,241,875
Ontario.....	138	40	1,354	125	1,657	361,330	1,677,294	2,038,624
Manitoba.....	14	3	36	16	69	16,368	43,334	59,702
British Columbia.....	5	1	22	1	29	6,316	24,259	30,575
Other provinces.....	14	3	152	9	178	40,389	153,027	193,416
Canada.....	269	79	2,337	271	2,956	691,484	2,872,708	3,564,192
1932								
Quebec.....	85	27	557	98	767	224,967	736,448	961,415
Ontario.....	122	37	1,282	100	1,541	302,597	1,410,750	1,713,347
British Columbia.....	6	2	15	1	24	9,816	14,263	24,079
Other provinces.....	28	8	212	28	276	67,435	203,611	271,046
Canada.....	241	74	2,066	227	2,608	604,815	2,365,072	2,969,887

Table 112.—Wage-Earners, by Months, 1930-1932

(On the 15th of each month or nearest representative date)

Month	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January.....	2,951	335	3,286	1,978	161	2,139	1,913	240	2,153
February.....	2,672	219	2,891	2,186	196	2,382	1,987	198	2,185
March.....	2,374	219	2,593	2,102	184	2,286	2,184	195	2,379
April.....	2,607	289	2,896	2,214	277	2,491	2,166	194	2,360
May.....	2,666	309	2,975	2,535	307	2,842	2,244	274	2,518
June.....	2,763	297	3,060	2,644	346	2,990	2,242	295	2,537
July.....	2,808	308	3,116	2,742	334	3,076	2,297	262	2,559
August.....	2,690	301	2,991	2,696	319	3,015	2,296	268	2,564
September.....	2,655	313	2,968	2,634	321	2,955	2,174	233	2,407
October.....	2,627	335	2,962	2,007	245	2,252	1,743	212	1,955
November.....	2,736	340	3,076	2,069	278	2,347	1,970	212	2,182
December.....	2,830	327	3,157	2,242	273	2,515	1,596	232	1,828
Average.....	2,711	324	3,035	2,337	271	2,608	2,066	227	2,293

Table 113.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity works	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Coal, anthracite.....	short ton	2,000	\$ 9,251	2,198	\$ 10,384	1,860	\$ 8,959
Coal, bituminous—Canadian.....	short ton	2,068	13,830	1,766	12,010	2,085	13,835
Imported.....	short ton	73,514	444,451	49,098	295,389	28,061	172,404
Coal, lignite—Canadian.....	short ton	92	870			25	269
Coke.....	short ton	47	447	51	465	24	180
Gasoline.....	imp. gal.	700	280	680	191		
Fuel oil.....	imp. gal.	1,817,018	141,286	1,300,958	89,609	817,116	51,928
Kerosene.....	imp. gal.			275	48		
Wood.....	cord	5	22	8	43	8	41
Gas—Manufactured.....	M cu. ft.	82,488	48,657	74,710	42,479	104,127	54,057
Natural.....	M cu. ft.	332,520	166,837	537,540	219,258	934,414	321,103
Other fuel.....			2,803		1,475		836
Electricity purchased.....	k.w.h.	21,460,951	162,157	18,371,305	150,743	17,661,703	142,073
Total			990,891		822,094		765,685

Table 114.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines.....	2	120	2	120	2	120
Gasoline, gas and oil engines.....					2	300
Electric motors run by purchased power.....	557	7,136	630	7,992	686	7,964
Total power employed	559	7,256	632	8,112	690	8,384
Electric motors run by primary power in same plant.....						
Total electric motors	557	7,136	630	7,992	686	7,964
Boilers.....	21	1,535	22	1,416	21	1,306

Table 115.—Materials Used in Manufacturing, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
CUT AND BEVELLED GLASS INDUSTRY—			\$		\$		\$
Figured and cathedral glass.....	sq. ft.	274,773	57,585	274,965	44,281	169,763	31,685
Glass blanks (including lenses).....			152,327		147,118		105,460
Plate glass for bevelling, silvering, laminating, etc. (not plate cut to size only).....	sq. ft.	2,165,221	793,841	1,618,404	560,317	973,873	391,297
Sheet and window glass for bevelling, laminating, silver, etc. (not sheet cut to size only).....	sq. ft.	640,121	73,697	603,296	74,887	410,910	43,804
Celluloid.....			63,019		13,141		6,626
Grinding and polishing materials.....			33,353		28,715		17,714
Lead, zinc and copper.....	lb.	271,730	33,167	186,245	25,310	140,697	15,733
Solder.....	lb.	16,319	4,547	20,301	5,605	8,912	2,375
Silver nitrate.....	lb.	2,804	11,817	2,018	9,505	1,360	6,773
Containers, boxes, packages, etc.....			14,042		10,808		5,500
All other materials.....			204,549		310,381		103,353
Total			1,501,944		1,236,068		730,320
PRESSED AND BLOWN GLASS INDUSTRY—							
Silica sand.....	ton	73,349	347,553	62,868	297,158	59,143	290,854
Fluorspar.....	ton	179	6,456	96	4,815	125	4,989
Lime.....	ton	7,858	80,388	6,605	72,927	6,657	65,680
Other manufacturing materials used.....			1,674,409		1,429,058		1,448,225
Boxes, cases, lumber, etc.....			603,043		546,544		615,511
Total			2,711,941		2,350,502		2,425,259
Grand Total			4,213,885		3,586,570		3,155,579

Table 116.—Products, 1930-1932

Products	Selling value at works		
	1930	1931	1932
CUT AND BEVELLED GLASS INDUSTRY—	\$	\$	\$
Bent plate glass	14,268	17,878	5,959
Bevelled or polished edge plates	626,853	419,941	235,894
Chipped or etched plate glass	36,053	28,850	25,346
Plate glass signs	12,028	5,110	15,538
Plate glass mirrors	635,278	551,049	414,108
Bent sheet glass	7,159	8,555	1,461
Bevelled or polished edge sheet glass	141,783	45,872	40,897
Chipped or etched sheet glass	32,752	42,789	16,624
Sheet glass mirrors	20,594	51,944	25,963
Leaded glass, including memorial windows	446,352	302,130	153,072
Non-shatterable glass	279,523	107,687	77,156
Cut glass (tumblers, fruit bowls, etc.)	201,764	206,702	156,001
Chemical glassware	95,683	94,794	96,652
All other products (*)	943,203	937,018	502,496
Received from custom work and repairs	25,395	14,053	12,361
Total	3,518,688	2,834,372	1,779,528
PRESSED AND BLOWN GLASS INDUSTRY—			
Pressed and blown glass (bottles, jars, etc.)	8,551,645	6,981,572	6,690,367
All other products	121,419	121,467	
Total	8,673,064	7,103,039	6,690,367
Grand Total	12,191,752	9,937,411	8,469,895

(*) Includes ophthalmic lenses, display cases, store fronts, thermos bottles, mercury vapour tubes, watch crystals, etc.

Table 117.—Imports into Canada and Exports of Glass and Glassware, 1930-1932

Commodities	1930	1931	1932
IMPORTS—			
Glass plates or discs, rough cut or unwrought, for use in the manufacture of optical instruments, when imported by manufacturers of such optical instruments	\$ 71,694	61,133	64,586
Glass carboys or demijohns, bottles, n.o.p., decanters, flasks, jars and phials	\$ 1,465,051	1,051,708	642,637
Glass tableware, cut, pressed, moulded or crystal, blown glass tableware, other cut glass ware and glass balls	\$ 1,017,134	876,338	555,002
Incandescent lamp bulbs and glass tubing for use in the manufacture of incandescent lamps	\$ 507,767	498,452	484,277
Lamp chimneys, glass shades or globes	\$ 425,943	318,680	203,026
Lenses, glass, n.o.p.	\$ 95,337	87,616	83,623
Common and colourless window glass	sq. ft. 36,946,036	24,988,749	23,989,202
	\$ 1,213,950	741,074	662,458
Glass, cut to size for the manufacture of dry plates for photographic purposes, when imported by the manufacturers of such dry plates, for use exclusively in the manufacture thereof in their own factories	\$ 6,048	3,223	2,436
Plate glass, not bevelled, in sheets or panes, not exceeding 7 sq. ft. each, n.o.p.	sq. ft. 2,630,838	2,044,574	1,602,760
	\$ 851,356	452,414	533,095
Plate glass, not bevelled, in sheets or panes, exceeding 7 sq. ft. each and not exceeding 25 sq. ft. each, n.o.p.	sq. ft. 777,104	490,338	324,175
	\$ 327,124	191,437	130,089
Plate glass, n.o.p.	sq. ft. 969,129	636,906	467,085
	\$ 418,585	275,905	198,620
Plate glass, bevelled, n.o.p.	sq. ft. 17	406	5,143
	\$ 31	872	2,647
German looking-glass (thin plate) unsilvered or for silvering	\$ 123		
Glass in sheets and bent plate glass, n.o.p.	\$ 441,835	300,231	169,297
Laminated glass, sheet or plate, and manufactures thereof, n.o.p. (from June 1, 1931)	\$	13,784	3,037
Lenses, silvered, for automobile lamps	\$ 43		
Ornamental figured and enamelled coloured glass, and memorial or other ornamental window glass, n.o.p.	\$ 13,778	5,689	1,841
Painted or vitrified, chipped, figured, enamelled and obscured white glass	\$ 10,964	4,114	2,159
Plain, coloured, opaque, stained or tinted, or muffled glass in sheets	\$ 2,790	1,719	1,010
Stained or ornamental glass windows	\$ 31,821	35,716	1,840
Silver glass, bevelled or not, framed or not framed	\$ 186,664	117,212	76,729
Articles of glass, not plate or sheet, designed to be cut or mounted	\$ 158,032	135,081	93,348
Glass eyes for human use (from June 1, 1931)	\$	1,244	2,385
Photographic dry plates	\$ 30,974	24,420	21,588
Spectacles, eye glasses and ground or finished spectacle or eye-glass lenses	\$ 117,910	91,012	57,756
Manufactures of glass, n.o.p.	\$ 890,687	690,797	555,189
Total Imports	\$ 8,284,741	6,179,871	4,548,675
EXPORTS—			
Glass for lighting	\$ 4,037	2,622	2,249
Glass and glassware, n.o.p.	\$ 146,722	173,125	143,239
Total Exports	\$ 150,759	175,747	145,488
RE-EXPORTS—			
Total	\$ 24,295	23,890	15,363

Table 118.—Imports into Canada of Window Glass and Plate Glass, by Countries, 1930-1932

Items and countries	1930		1931		1932	
	Quantity	Value	Quantity	Value	Quantity	Value
Common and colourless window glass—	sq. ft.	\$	sq. ft.	\$	sq. ft.	\$
United Kingdom.....	1,610,331	70,105	1,008,906	47,125	823,164	37,673
United States.....	188,692	24,699	270,848	14,899	66,017	2,779
Belgium.....	32,474,403	1,008,705	10,151,326	549,004	10,912,275	534,401
Czechoslovakia.....	2,187,916	75,540	2,306,473	75,697	2,366,088	65,260
Germany.....	443,885	25,179	1,784,006	45,105	146,717	4,118
Other countries.....	40,809	722	377,190	9,244	684,941	18,227
Total.....	36,946,936	1,213,950	24,988,719	741,074	23,989,202	662,458
Plate glass, not bevelled, in sheets or panes not exceeding 7 sq. ft. each, n.o.p.—						
United Kingdom.....	648,242	213,423	448,928	130,142	400,493	115,436
United States.....	1,316,095	448,531	1,394,650	458,514	1,067,028	383,680
Belgium.....	483,802	138,850	166,807	51,393	124,430	31,084
Germany.....	118,207	32,038	20,918	5,948	3,246	563
Other countries.....	63,512	18,514	13,181	6,417	7,563	2,332
Total.....	2,630,838	851,356	2,044,574	652,414	1,602,760	533,095
Plate glass, not bevelled, in sheets or panes, exceeding 7 sq. ft. each and not exceed- ing 25 sq. ft. each, n.o.p.—						
United Kingdom.....	361,762	162,513	181,706	75,698	125,070	54,593
United States.....	204,556	82,892	212,855	78,204	142,233	55,927
Belgium.....	147,033	53,885	67,353	25,045	46,593	15,519
Germany.....	36,028	13,690	17,804	6,549	4,020	2,087
Other countries.....	27,725	14,144	10,530	5,941	6,259	1,963
Total.....	777,104	327,124	490,338	191,437	321,175	130,089
Plate glass, n.o.p.—						
United Kingdom.....	389,312	168,965	284,444	130,915	200,259	96,337
United States.....	166,709	65,831	135,023	49,893	123,948	46,277
Belgium.....	324,962	133,372	182,015	76,301	129,769	49,353
Czechoslovakia.....			21,191	12,229		
Germany.....	25,856	12,541	5,591	2,576	1,479	826
Other countries.....	62,200	37,876	8,732	3,991	12,230	5,828
Total.....	969,129	418,585	636,936	275,905	467,685	198,620

CHAPTER NINE

THE LIME INDUSTRY

Canadian production of quick and hydrated lime amounted to 320,650 tons valued at \$2,394,537 in 1932 compared with 344,785 tons worth \$2,764,415 in 1931 and 490,802 tons at \$4,038,698 in 1930. In 1932 producers received an average of \$7.14 per ton for quicklime and \$9.14 for hydrated lime and in 1931 the corresponding prices were \$7.38 and \$10.71 respectively.

The decrease in output from 1931 of 7 per cent in tonnage and 13 per cent in value was largely due to smaller purchases by the building trades, the pulp and paper manufacturers and the iron and steel producers. Shipments to gold mines, tanneries, sugar refineries and chemical works were higher than in 1931.

In 1932 shipments to the pulp and paper mills amounted to 71,292 tons or 22 per cent of the output; building trades took 47,507 tons or 14.8 per cent; cyanide mills, 19,060 tons or 5.9 per cent; sugar refineries, 14,042 tons or 4.4 per cent; iron and steel works, 13,916 tons or 4.3 per cent. The remainder was sent chiefly to chemical works to be used in making calcium carbide, cyanamide, glass, etc. Appreciable quantities were used directly for fertilizer purposes.

Imports of lime during 1932 amounted to 322 tons and exports totalled 9,344 tons. The export figure was 14,425 tons in 1931 and 22,364 tons in 1930.

Table 119.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Selling value of products at works
		\$		\$	\$	\$
1930						
Nova Scotia and New Brunswick.....	6	195,331	108	98,639	72,036	248,554
Quebec.....	13	1,933,748	302	259,157	321,352	967,650
Ontario.....	20	4,195,672	377	413,914	373,576	2,177,587
Manitoba.....	4	673,278	118	88,929	58,845	260,325
Alberta and British Columbia.....	7	1,818,850	181	227,130	60,545	384,582
Canada.....	50	8,816,879	1,086	1,087,778	886,351	4,038,698
1931						
Nova Scotia and New Brunswick.....	7	196,524	91	82,948	55,777	206,472
Quebec.....	16	2,079,199	220	210,607	254,213	804,218
Ontario.....	25	3,601,490	255	256,622	207,328	1,222,270
Manitoba.....	4	630,939	79	72,777	50,685	207,401
Alberta.....	3	198,121	17	19,707	9,016	46,785
British Columbia.....	5	581,726	137	143,207	35,259	277,289
Canada.....	60	7,289,919	700	785,868	612,278	2,764,415
1932						
Nova Scotia.....	3	80,700	14	10,126	11,344	35,534
New Brunswick.....	4	207,391	52	46,491	25,845	109,184
Quebec.....	18	1,743,598	239	170,599	198,358	587,901
Ontario.....	23	3,424,782	201	189,428	230,444	1,273,230
Manitoba.....	4	617,913	72	60,503	41,918	172,110
Alberta.....	3	196,690	17	16,057	6,908	56,577
British Columbia.....	5	572,874	82	81,958	20,616	160,001
Canada.....	60	6,823,945	677	575,072	535,433	2,394,537

MANUFACTURES OF NON-METALLIC MINERALS

Table 120.—Principal Statistics According to Production Values and Number of Employees, 1931 and 1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value at works	Number of plants	Capital employed	Number of employees	Selling value at works
(a) Production values		\$		\$		\$		\$
Under 5,000	19	69,140	31	34,492	23	242,551	32	33,265
5,000 to 10,000	6	213,614	30	46,129	7	385,647	30	52,921
10,000 to 25,000	12	679,793	113	215,785	10	274,194	69	146,541
25,000 to 50,000	7	604,083	78	268,242	7	669,818	91	261,149
50,000 to 100,000	7	1,055,769	181	571,265	6	1,202,336	163	450,539
Over 100,000	9	4,667,591	366	1,628,502	7	4,049,403	292	1,450,122
Total	69	7,259,990	799	2,764,415	69	6,823,949	677	2,394,537
(b) Number of employees								
1 or 2	21	44,450	15	139,719	24	251,496	27	157,074
3 to 10	20	1,827,787	124	740,403	21	750,788	107	466,908
11 to 20	6	475,398	100	200,926	4	1,446,005	57	621,554
21 to 50	11	3,256,417	382	1,276,208	8	2,438,884	253	821,981
Over 50	2	1,685,938	178	407,150	3	1,036,776	239	327,020
Total	69	7,259,990	799	2,764,415	69	6,823,949	677	2,394,537

Table 121.—Capital Employed by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	Total
1930	\$	\$	\$	\$	\$
Nova Scotia and New Brunswick	137,000	30,831		27,500	195,331
Quebec	1,535,263	167,353		231,132	1,933,749
Ontario	3,097,960	146,006		951,706	4,195,672
Manitoba	619,231	52,804		1,183	673,218
Alberta	155,909	28,209		33,131	217,246
British Columbia	1,442,562	69,070		89,972	1,681,604
Canada	6,987,925	494,330		1,334,624	8,816,879
1931					
Nova Scotia and New Brunswick	143,000	17,900	9,424	26,200	196,524
Quebec	1,712,640	134,375	24,458	207,726	2,079,199
Ontario	3,416,926	72,123	36,843	77,598	3,603,490
Manitoba	612,513	15,850	1,922	645	630,930
Alberta	156,278	7,505	2,304	32,034	198,121
British Columbia	447,037	37,498	12,859	84,332	581,726
Canada	6,498,394	285,251	87,810	429,535	7,299,990
1932					
Nova Scotia and New Brunswick	217,079	19,719	7,604	23,689	264,091
Quebec	1,516,611	107,039	3,822	116,127	1,743,599
Ontario	3,239,608	51,647	18,167	115,360	3,424,782
Manitoba	601,059	11,641	2,213	3,000	617,913
Alberta	156,211	7,307	1,894	31,278	196,690
British Columbia	453,787	28,701	14,232	76,154	572,974
Canada	6,184,355	278,054	47,932	365,608	6,823,949

Table 122.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees				Salaries and wages			
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1930						\$	\$	\$
Nova Scotia and New Brunswick	7	1	100		105	11,272	87,367	98,639
Quebec	18		284		302	32,238	226,919	259,157
Ontario	32	4	341		377	56,067	357,847	413,914
Manitoba	8		110		118	13,079	75,850	88,929
Alberta and British Columbia	15	6	160		181	35,809	191,270	227,139
Canada	80	11	995		1,086	148,525	939,253	1,087,778
1931								
Nova Scotin and New Brunswick	6	1	84		91	10,700	72,248	82,948
Quebec	16	1	203		220	29,114	181,493	210,607
Ontario	24	3	228		255	40,388	216,234	256,622
Manitoba	7		72		79	10,820	61,957	72,777
Alberta	3		14		17	4,800	14,907	19,707
British Columbia	11	6	120		137	25,703	117,504	143,207
Canada	67	11	721		799	121,525	664,343	785,868
1932								
Nova Scotia and New Brunswick	9	1	56		66	12,975	43,552	56,527
Quebec	19		220		239	28,800	141,799	170,599
Ontario	17	2	182		201	27,676	161,752	189,428
Manitoba	7		65		72	10,144	50,359	60,503
Alberta	3		14		17	4,800	11,257	16,057
British Columbia	8	4	70		82	21,755	60,203	81,958
Canada	63	7	607		677	106,150	468,922	575,072

Table 123.—Wage-Earners, by Months, 1930-1932

(On 15th day of each month or nearest representative date)

Months	Total			Months	Total		
	1930	1931	1932		1930	1931	1932
	Male	Male	Male		Male	Male	Male
January	908	630	523	July	1,055	771	685
February	877	599	547	August	1,024	742	626
March	883	667	605	September	908	736	611
April	991	770	660	October	920	749	631
May	1,070	801	664	November	828	668	571
June	1,079	781	635	December	730	658	456
				Average	1,086	799	607

Table 124.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of Measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Anthracite coal	short ton	5,120	24,428	456	2,209	280	2,100
Bituminous coal—Canadian	short ton	32,263	204,296	3,799	24,121	24,351	151,303
Imported	short ton	58,524	273,273	46,545	267,376	34,423	151,863
Lignite coal—Canadian	short ton						
Coke	short ton	10,920	72,694	7,640	50,343	6,659	40,871
Gasoline	imp. gal.	3,328	753	4,496	1,083	2,265	587
Kerosene	imp. gal.	230	55	60	12	55	11
Fuel oil	imp. gal.	554,995	18,189	393,592	14,134	250,322	8,524
Wood	cord	49,170	201,820	44,356	176,225	33,284	121,318
Gas—Manufactured	M. cu. ft.	201,350	16,108	128,954	10,832	35,044	2,803
Natural	M. cu. ft.	13,426	8,056	10,800	6,800	8,000	4,340
Other fuel			6,417		4,180		
Electricity purchased	k.w.h.	8,508,929	60,265	5,940,170	54,963	6,241,789	51,713
Total			886,354		612,278		535,433
Electricity generated for own use	k.w.h.	115,900		242,089		586,822	

MANUFACTURES OF NON-METALLIC MINERALS

Table 125.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines.....	16	645	18	517	17	667
Gasoline, gas and oil engines.....	10	388	12	418	12	528
Hydraulic turbines and water wheels.....	2	70	2	80	1	50
<i>Total primary power.....</i>	<i>28</i>	<i>1,103</i>	<i>32</i>	<i>1,015</i>	<i>30</i>	<i>1,245</i>
Electric motors run by purchased power...	268	5,429	267	4,648	282	5,220
Total power employed.....	296	6,532	299	5,663	312	6,465
Electric motors run by primary power in same plant.....	40	678	40	650	36	507
<i>Total electric power.....</i>	<i>308</i>	<i>6,107</i>	<i>307</i>	<i>5,298</i>	<i>318</i>	<i>5,727</i>
Boilers.....	27	2,014	26	1,555	17	1,156

Table 126.—Production of Lime in Canada, by Provinces, 1930-1932

Provinces	Quicklime sold or used		Hydrated lime sold or used		Total	
	Quantity	Selling value at kiln	Quantity	Selling value at kiln	Quantity	Selling value at kiln
1930	Tons	\$	Tons	\$	Tons	\$
Nova Scotia.....	30,462	106,730	652	6,520	31,114	113,250
New Brunswick.....	9,947	104,159	2,574	31,145	12,521	135,304
Quebec.....	117,358	874,077	11,992	93,573	129,350	967,650
Ontario.....	209,340	1,678,409	42,726	504,178	252,066	2,177,587
Manitoba.....	17,587	143,955	6,511	116,370	24,098	263,325
Alberta.....	5,123	49,330	13	195	5,136	49,525
British Columbia.....	27,104	251,479	9,413	83,578	36,517	335,057
Canada.....	416,921	3,203,139	73,881	835,559	490,802	4,038,698
1931	Tons	\$	Tons	\$	Tons	\$
Nova Scotia.....	17,790	73,018	640	6,400	18,430	79,418
New Brunswick.....	5,161	61,729	6,080	65,325	11,241	127,054
Quebec.....	101,186	720,049	10,310	84,169	111,496	804,218
Ontario.....	113,376	842,274	34,284	379,996	147,660	1,222,270
Manitoba.....	16,575	126,789	4,439	80,612	21,014	207,401
Alberta.....	5,056	46,047	62	738	5,118	46,785
British Columbia.....	20,364	195,078	9,462	82,191	29,826	277,269
Canada.....	279,508	2,064,984	65,277	699,431	344,785	2,764,415
1932	Tons	\$	Tons	\$	Tons	\$
Nova Scotia.....	6,075	30,954	458	4,580	6,533	35,534
New Brunswick.....	5,547	59,064	6,025	50,120	11,572	109,184
Quebec.....	76,983	493,787	16,830	94,114	93,813	587,901
Ontario.....	143,185	1,018,007	23,518	255,223	166,703	1,273,230
Manitoba.....	15,047	116,369	3,188	55,741	18,235	172,110
Alberta.....	6,529	55,336	113	1,241	6,642	56,577
British Columbia.....	14,902	141,998	2,250	18,003	17,152	169,001
Canada.....	268,268	1,915,515	52,302	479,622	320,570	2,394,537

Table 127.—Production of Lime in Canada, Showing Purposes for Which Sold or Used, 1931 and 1932

Purposes for which sold or used	1931				1932			
	Quicklime		Hydrated lime		Quicklime		Hydrated lime	
	Tons	Selling value at kilns	Tons	Selling value at kilns	Tons	Selling value at kilns	Tons	Selling value at kilns
		\$		\$		\$		\$
Building Trades—								
Finishing lime.....	6,496	53,335	28,724	359,915	2,462	23,115	21,251	255,468
Masons' lime.....	29,874	283,241	9,587	96,832	16,375	140,955	4,617	46,386
Sand-lime brick.....	11,419	80,666	358	3,659	2,793	20,260	9	113
Agricultural.....	10,952	78,554	1,312	11,539	1,186	11,115	1,924	17,070
Chemical—								
Smelters.....	3,609	28,635	2,605	22,691	5,073	41,878	530	4,610
Iron and steel mills.....	21,155	101,425	3	37	13,888	84,325	28	211
Cyanide mills.....	18,135	125,977	25	263	19,043	132,911	17	139
Pulp and paper mills.....	66,913	448,903	12,980	120,355	53,347	343,479	17,945	193,225
Glass works.....	6,129	48,407			5,920	44,586		
Sugar refineries.....	11,454	107,828	65	925	14,022	117,609	20	250
Tanneries.....	1,859	14,847	130	1,077	2,467	17,304	242	1,691
Other chemical works.....	73,996	519,688	2,247	22,537	120,582	845,628	2,348	21,052
Dealers (uses unspecified).....	8,719	85,620	5,309	42,213	9,745	84,150	3,451	28,807
Other consumers.....	8,798	87,858	1,932	17,388	1,365	8,200		
Total.....	279,508	2,064,984	65,277	699,431	268,268	1,915,515	52,382	479,022

Table 127a—Production of Lime in Canada, 1922-1932

(For the years 1886 to 1921 see Mineral Production of Canada, 1928)

Year	Tons	Selling value at kilns	Year	Tons	Selling value at kilns
		\$			\$
1922.....	314,054	3,165,005	1927.....	444,753	3,023,388
1923.....	351,236	3,206,608	1928.....	508,889	4,534,568
1924.....	319,793	3,178,541	1929.....	674,087	5,908,610
1925.....	358,979	3,387,652	1930.....	490,802	4,038,698
1926.....	413,901	3,781,484	1931.....	344,785	2,764,415
			1932.....	320,650	2,394,537

Table 128.—Production, Imports and Exports of Lime, 1930-1932

	1930		1931		1932	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
Production.....	490,802	4,038,698	344,785	2,764,415	320,650	2,394,537
Imports.....	2,066	28,107	568	10,561	322	6,241
Exports.....	22,364	444,728	14,425	283,459	9,344	188,329

CHAPTER TEN

THE PETROLEUM PRODUCTS INDUSTRY

Output of petroleum products from Canadian manufacturing plants was valued at \$71,697,757 at factory prices, in 1932 compared with \$76,158,644 in 1931 and \$91,787,205 in 1930. These totals include data for petroleum refineries and for plants which compound lubricating oils and greases. Detailed statistics for each of these sections of the industry are shown separately in the following review as it is desirable to record separate data on petroleum refining which ranks among the leading manufacturing industries of Canada.

Reports were received from 24 refineries which were in operation during 1932, as follows:— 1 in Nova Scotia, 1 in New Brunswick, 4 in Quebec, 4 in Ontario, 3 in Manitoba, 3 in Saskatchewan, 6 in Alberta, and 2 in British Columbia. The Bureau also has record of 5 other small refineries which did not operate to any extent in 1932, and some important refineries were being constructed at the close of 1932. The directory at the end of this chapter carries the names, locations and capacities of operating and projected refineries according to available information.

The 24 refineries covered by this review used 930,114,055 gallons of crude oil in 1932, including 645,412,290 gallons from the United States, 225,120,345 gallons from South America, 37,340,321 gallons from Canadian wells and 22,241,099 gallons from other countries. Gasoline production totalled 399,942,678 gallons, including 207,823,273 gallons straight run and 192,119,405 gallons by the cracking process. Fuel and gas oils made for sale amounted to 312,814,635 gallons and in addition to this the operating refineries produced and used 53,459,252 gallons for fuel purposes. Other products made for sale included 52,466,990 gallons of kerosene, 18,075,192 gallons of solvent naphtha, engine distillates, etc., 15,105,061 gallons of lubricating oils, 9,629,492 pounds of grease, 9,195,542 pounds of wax and candles, and 23,082,228 gallons of asphalt.

Capital employed in the petroleum refining industry was reported at \$68,882,376, the number of employees averaged 4,058 monthly, salaries and wages for the year amounted to \$5,897,811 and the cost of materials was \$52,029,471. Products were valued at \$71,360,324 at the refineries.

The total capacity of the refineries was reported at 135,350 barrels of crude oil per day.

Considerable quantities of casinghead gasoline were imported into Canada during the year for blending with the refinery run gasoline. The quantity brought in for this purpose is shown separately in the import figures so the amounts used at the refineries are **not** included in the figures of refinery output.

The 7 firms which reported as compounding oils and greases were located as follows: 3 in Quebec, 2 in Ontario, 1 in Manitoba, and 1 in British Columbia. Capital invested in these plants amounted to \$593,484, the average number of employees was 58, the cost of materials was \$207,916, and the value of goods made was \$337,433 including \$242,196 for lubricating oils.

Imports into Canada of petroleum and its products during 1932 were valued at \$43,472,870 compared with \$40,632,795 in 1931 and \$66,619,649 in 1930. Exports were appraised at \$1,289,459, \$1,835,802 and \$2,441,632, respectively, in the same years.

Sales of gasoline as determined from the taxes paid under the provincial Tax Acts amounted to 503,443,269 gallons in 1932. This total checks fairly well with the apparent consumption figure calculated in Table 145 by adding production and imports and deducting exports, re-exports and increases in refinery stocks. Figures on actual sales are available only since 1929 but the apparent consumption has been calculated for each year since 1920 and is recorded in Tables 144 and 145.

Gasoline sales declined 9 per cent in 1932 compared with 1931 when 555,998,474 gallons were sold. The apparent consumption of fuel oil also was lower at 460,366,156 gallons in 1932 as against 488,371,080 in 1931.

Table 129.—Principal Statistics of the Petroleum Products Industry, 1928-1932

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works
		\$		\$	\$	\$
Petroleum Refining—						
1928.....	16	55,811,418	4,252	6,803,234	57,033,185	82,448,392
1929.....	15	69,887,267	4,883	7,984,780	76,289,182	98,384,180
1930.....	15	69,077,982	5,030	8,003,357	71,307,879	90,809,711
1931.....	20	67,288,556	4,058	6,110,068	50,353,423	75,588,425
1932.....	24	68,882,376	4,058	5,897,811	52,029,471	71,360,324
Lubricating Oils and Greases—						
1928.....	9	720,196	67	119,346	350,656	673,780
1929.....	10	1,373,192	95	168,839	572,757	1,024,134
1930.....	13	1,256,399	104	186,773	492,550	977,494
1931.....	12	847,725	64	104,677	264,319	570,219
1932.....	7	593,484	58	82,870	207,916	337,433
Total—						
1928.....	25	56,531,614	4,319	6,922,580	57,383,841	83,122,172
1929.....	25	71,260,459	4,978	8,153,625	76,861,939	99,408,314
1930.....	28	70,334,381	5,134	8,190,130	71,800,429	91,787,205
1931.....	32	68,136,281	4,122	6,214,745	56,617,742	76,158,644
1932.....	31	69,475,860	4,116	5,980,681	52,237,387	71,697,757

Table 130.—Number and Total Capacity of Petroleum Refineries in Operation, 1931 and 1932

Provinces	1931		1932	
	Number	Capacity in barrels of crude per day	Number	Capacity in barrels of crude per day
Nova Scotia.....	1	12,000	1	12,000
New Brunswick.....	1	100	1	100
Quebec.....	3	43,000	4	45,000
Ontario.....	4	36,500	4	36,400
Manitoba.....	2	1,500	3	1,900
Saskatchewan.....	1	7,000	3	7,900
Alberta.....	6	17,250	6	16,550
British Columbia.....	2	16,000	2	16,000
Canada.....	20	133,350	24	135,850

Table 131.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$	\$	\$	\$	\$	\$	\$
1930								
Petroleum Refining—								
Ontario.....	4	26,701,273	2,449	3,760,870	1,570,802	26,215,038	34,479,837	8,264,799
Alberta.....	4	8,921,276	443	708,122	239,515	9,577,205	12,254,075	2,676,870
Other provinces.....	7	33,395,433	2,138	3,534,365	2,049,360	35,515,630	44,075,799	8,560,163
Canada.....	15	69,077,982	5,030	8,003,357	3,859,683	71,307,879	90,809,711	19,501,832
Lubricating Oils and Greases—								
Ontario.....	4	237,412	34	50,439	1,838	101,382	228,920	127,538
Alberta.....	4	405,162	33	67,939	2,400	193,226	280,232	87,006
Other provinces.....	5	613,825	37	68,395	4,623	197,942	468,342	270,400
Canada.....	13	1,256,399	104	186,773	8,861	492,550	977,494	484,944
Total Petroleum Products—								
Quebec.....	4	237,412	34	50,439	1,838	101,382	228,920	127,538
Ontario.....	8	27,166,435	2,482	3,824,809	1,573,292	26,108,264	34,760,069	8,351,805
Alberta.....	5	8,963,665	445	711,565	239,628	9,586,527	12,267,151	2,680,227
Other provinces.....	11	33,966,869	2,173	3,539,317	2,053,876	35,703,856	44,531,062	8,827,206
Canada.....	28	70,334,381	5,134	8,190,136	3,868,544	71,800,429	91,787,205	19,986,776
1931								
Petroleum Refining—								
Quebec.....	3	17,597,515	852	1,347,251	657,724	9,150,379	15,793,181	6,642,802
Ontario.....	4	25,282,459	1,984	2,840,794	1,439,454	19,487,645	30,106,166	10,618,521
Alberta.....	6	7,408,101	318	484,118	187,177	6,301,779	8,378,442	2,076,063
Other provinces.....	7	16,910,481	906	1,437,905	786,763	15,413,620	21,310,636	5,897,016
Canada.....	20	67,288,556	4,058	6,110,068	3,371,118	50,353,423	75,588,425	25,235,002
Lubricating Oils and Greases—								
Quebec.....	4	231,794	26	38,129	2,463	97,695	197,530	99,835
Other provinces.....	8	615,931	39	66,548	5,018	166,624	372,689	206,065
Canada.....	12	847,725	64	104,677	7,481	264,319	570,219	305,900
Total Petroleum Products—								
Quebec.....	7	17,829,309	877	1,385,380	969,187	9,248,074	15,990,711	6,742,637
Ontario.....	4	25,282,459	1,984	2,840,794	1,439,454	19,487,645	30,106,166	10,618,521
Alberta.....	7	7,534,141	318	487,218	187,277	6,310,069	8,378,442	2,079,598
Other provinces.....	14	17,490,372	943	1,501,353	791,681	15,571,954	21,672,199	6,100,236
Canada.....	32	68,136,281	4,122	6,214,745	3,378,599	50,617,742	76,158,644	25,540,902
1932								
Petroleum Refining—								
Quebec.....	4	19,314,575	871	1,293,338	865,619	10,856,751	18,089,959	7,233,208
Ontario.....	4	25,732,687	1,937	2,764,208	1,570,394	21,755,179	28,814,438	7,059,259
Alberta.....	6	7,224,511	292	440,853	167,261	4,107,457	5,350,580	1,252,123
Other provinces.....	10	16,610,903	958	1,399,412	735,374	15,310,084	19,090,347	3,786,263
Canada.....	24	68,882,376	4,058	5,897,811	3,338,648	52,029,471	71,360,324	19,330,853
Lubricating Oils and Greases—								
Quebec.....	3	158,352	26	37,749	2,014	83,968	151,183	67,215
Other provinces.....	4	435,132	32	45,121	4,989	123,948	186,250	62,302
Canada.....	7	593,484	58	82,870	7,003	207,916	337,433	129,517
Total Petroleum Products—								
Quebec.....	7	19,472,927	897	1,331,087	867,633	10,949,719	18,241,142	7,300,423
Ontario.....	6	25,769,241	1,943	2,770,767	1,570,983	21,761,498	28,842,559	7,081,061
Alberta.....	6	7,221,511	292	440,853	167,261	4,111,166	5,315,063	1,203,897
Other provinces.....	12	17,018,181	984	1,437,974	739,771	15,424,004	19,298,993	3,824,989
Canada.....	31	69,475,860	4,116	5,980,681	3,345,651	52,237,387	71,697,757	19,469,370

Table 132.—Capital Employed, by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, machinery and tools	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	Total
1930	\$	\$		\$	\$
Petroleum Refining—					
Quebec.....	17,713,036	8,458,593		589,044	26,761,273
Ontario.....	4,021,444	4,511,928		387,904	8,921,276
Alberta.....	22,438,540	10,726,069		230,824	33,395,433
Other provinces.....					
Canada.....	44,173,620	23,696,590		1,207,772	69,077,982
Lubricating Oils and Greases—					
Quebec.....	123,202	59,079		55,131	237,412
Ontario.....	235,754	68,340		101,008	465,162
Alberta.....	365,445	174,479		73,901	613,825
Other provinces.....					
Canada.....	724,401	301,898		230,100	1,256,399
Total—					
Quebec.....	123,202	59,079		55,131	237,412
Ontario.....	17,949,390	8,526,833		690,112	27,166,335
Alberta.....	4,032,958	4,518,927		411,780	8,963,665
Other provinces.....	22,792,471	10,893,549		290,845	33,966,869
Canada.....	44,898,021	23,998,488		1,437,872	70,334,381
1931					
Petroleum Refining—					
Quebec.....	12,330,745	2,325,746	2,925,724	15,300	17,597,515
Ontario.....	17,472,937	4,838,069	2,664,364	306,489	25,282,459
Alberta.....	3,754,495	1,112,157	2,222,519	408,836	7,498,101
Other provinces.....	11,316,619	2,777,715	2,646,537	169,610	16,910,481
Canada.....	44,874,796	11,054,287	10,459,144	900,329	67,288,556
Lubricating Oils and Greases—					
Quebec.....	130,921	18,758	11,723	70,392	231,794
Other provinces.....	381,492	72,369	79,957	82,113	615,931
Canada.....	512,413	91,127	91,680	152,505	847,725
Total—					
Quebec.....	12,461,666	2,344,504	2,937,447	85,692	17,829,309
Ontario.....	17,472,937	4,838,069	2,664,364	306,489	25,282,459
Alberta.....	3,764,270	1,118,107	2,222,519	429,245	7,531,141
Other provinces.....	11,688,336	2,844,131	2,738,494	231,408	17,190,372
Canada.....	45,387,209	11,145,414	10,559,821	1,052,831	68,136,281
1932					
Petroleum Refining—					
Quebec.....	12,929,435	3,625,741	2,560,734	198,665	19,314,575
Ontario.....	15,728,330	4,566,251	3,131,481	2,306,625	25,732,687
Alberta.....	3,779,883	784,767	2,211,199	448,662	7,224,511
Other provinces.....	10,558,703	2,749,524	2,922,705	379,581	16,610,603
Canada.....	42,996,441	11,726,283	10,826,119	3,333,533	68,882,376
Lubricating Oils and Greases—					
Quebec.....	112,696	12,623	7,000	26,033	158,352
Other provinces.....	275,138	52,093	65,329	42,572	435,132
Canada.....	387,834	64,716	72,329	68,605	593,484
Total—					
Quebec.....	13,042,131	3,638,364	2,567,734	224,698	19,472,927
Ontario.....	15,742,480	4,579,443	3,135,972	2,311,346	25,760,241
Alberta.....	3,779,883	784,767	2,211,199	448,662	7,224,511
Other provinces.....	10,819,781	2,797,425	2,988,543	417,432	17,018,181
Canada.....	43,384,275	11,790,999	10,898,448	3,402,138	69,475,860

MANUFACTURES OF NON-METALLIC MINERALS

Table 133.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees				Total	Salaries and wages		
	On salaries		On wages			Salaries	Wages	Total
	Male	Female	Male	Female				
1930					\$	\$	\$	
Petroleum Refining—								
Quebec	194	31	2,213	11	2,449	572,705	3,188,165	3,760,870
Alberta	49	7	384	3	443	141,823	566,209	708,122
Other provinces	179	20	1,937	2	2,138	502,311	3,032,054	3,534,365
Canada	422	58	4,534	16	5,030	1,216,839	6,786,518	8,003,357
Lubricating Oils and Greases								
Quebec	14	4	15	1	34	27,715	22,724	50,439
Ontario	10	1	20	2	33	36,960	30,979	67,939
Other provinces	14		23		37	35,645	32,750	68,395
Canada	38	5	58	3	104	100,320	86,453	186,773
Total—								
Quebec	14	4	15	1	34	27,715	22,724	50,439
Ontario	294	32	2,233	13	2,482	699,665	3,219,144	3,928,809
Alberta	50	7	345	3	445	144,118	567,447	711,565
Other provinces	192	20	1,959	2	2,173	535,661	3,063,656	3,599,317
Canada	460	63	4,592	19	5,134	1,317,159	6,872,971	8,190,136
1931								
Petroleum Refining—								
Quebec	76	8	760	2	852	170,985	1,176,266	1,347,251
Ontario	202	29	1,745	8	1,984	559,472	2,281,322	2,840,794
Alberta	52	6	256	2	316	129,939	354,179	484,118
Other provinces	128	16	762		906	333,136	1,104,769	1,437,905
Canada	458	59	3,529	12	4,058	1,193,532	4,916,536	6,110,068
Lubricating Oils and Greases								
Quebec	9	2	14		25	19,825	18,304	38,129
Other provinces	11	3	24	1	39	29,180	37,368	66,548
Canada	20	5	38	1	64	49,005	55,672	104,677
Total—								
Quebec	85	10	780	2	877	190,810	1,194,570	1,385,380
Ontario	292	29	1,745	8	1,984	559,472	2,281,322	2,840,794
Alberta	53	6	257	2	318	131,939	355,279	487,218
Other provinces	128	19	765	1	943	369,316	1,141,037	1,501,353
Canada	478	64	3,567	13	4,122	1,242,537	4,972,208	6,214,745
1932								
Petroleum Refining—								
Quebec	74	11	786		871	225,709	1,067,629	1,293,338
Ontario	215	31	1,085	6	1,937	584,002	2,179,306	2,764,208
Alberta	51	5	235	1	292	140,844	300,009	440,853
Other provinces	134	15	809		958	334,047	1,065,365	1,399,412
Canada	474	62	3,515	7	4,058	1,285,502	4,612,309	5,897,811
Lubricating Oils and Greases								
Quebec	6	4	16		26	16,304	21,445	37,749
Other provinces	5	3	24		32	14,009	31,112	45,121
Canada	11	7	40		58	30,313	52,557	82,870
Total—								
Quebec	80	15	802		897	242,013	1,089,074	1,331,087
Ontario	216	34	1,087	6	1,943	589,698	2,181,159	2,770,767
Alberta	51	5	235	1	292	140,844	300,009	440,853
Other provinces	138	15	831		984	343,350	1,094,671	1,437,974
Canada	485	69	3,555	7	4,116	1,315,815	4,664,866	5,980,681

Table 134.—Wage-Earners, by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Petroleum refining	Lubricating oils and greases	Total	Petroleum refining	Lubricating oils and greases	Total	Petroleum refining	Lubricating oils and greases	Total
January	4,838	57	4,895	3,551	38	3,589	3,540	33	3,573
February	4,882	61	4,943	3,630	40	3,670	3,484	34	3,518
March	4,762	58	4,820	3,494	38	3,532	3,465	39	3,504
April	4,878	59	4,937	3,540	39	3,579	3,597	42	3,639
May	4,922	66	4,988	3,574	45	3,619	3,667	44	3,711
June	4,810	68	4,878	3,439	43	3,482	3,662	44	3,706
July	4,642	59	4,701	3,382	41	3,423	3,628	44	3,672
August	4,432	60	4,492	3,406	41	3,447	3,604	46	3,650
September	4,382	59	4,441	3,566	44	3,610	3,449	44	3,493
October	4,213	58	4,271	3,738	40	3,778	3,396	38	3,434
November	4,086	58	4,144	3,617	38	3,655	3,386	37	3,423
December	3,734	56	3,790	3,531	39	3,570	3,413	33	3,446
Average	4,550	61	4,611	3,541	39	3,580	3,522	40	3,562

Table 135.—Fuel and Electricity Used, 1930-1932

NOTE.—Includes fuel oil and still gas made and used for fuel purposes in the producers' own refineries.

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal—Canadian	short ton	1,287	7,765	876	5,300	705	3,013
Imported	short ton	58,187	254,568	34,216	148,201	33,845	148,173
Anthracite coal	short ton	56	827	79	1,039	49	626
Lignite coal—Canadian	short ton	33	205				
Coke	short ton	23,538	124,363	19,645	96,095	22,431	123,880
Kerosene	imp. gal.	2,704	312				
Fuel oil (including producers' own make)	imp. gal.	59,373,073	2,088,687	54,863,550	1,649,232	54,699,497	1,765,487
Wood	cord	10	91	12	168	12	114
Gas—Manufactured (including still gas)	M cu. ft.	3,532,197	875,294	4,619,209	980,631	3,836,513	824,469
Natural	M cu. ft.	1,285,750	123,330	1,063,849	102,598	718,149	66,898
Other fuel			96,906		56,220		78,271
Electricity purchased	k.w.h.	33,544,934	296,196	37,611,074	339,115	40,116,707	334,810
Total			3,868,544		3,378,599		3,345,651

Table 136.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	369	13,899	396	13,679	398	13,614
Gasoline, gas and oil engines	11	1,610	9	1,580	9	1,588
Total primary power	380	15,509	405	15,259	407	15,402
Electric motors run by purchased power	602	14,530	703	15,726	761	16,272
Total power employed	982	30,039	1,108	30,985	1,168	31,674
Electric motors run by primary power in same plant	60	1,740	60	1,740	73	1,902
Total electric motors	662	16,270	763	17,466	834	18,174
Boilers	113	25,590	120	27,513	118	27,197

Table 137.—Materials Used, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Petroleum Refining—							
Crude oil from Canadian wells (*)	imp. gal.	51,522,864	5,410,237	49,698,529	4,234,481	37,340,321	3,233,136
Crude oil, imported	imp. gal.	1,012,912,110	62,230,738	1,025,119,509	43,094,937	892,773,734	45,494,788
Sulphuric acid (66° Bé)	lb.	49,250,621	447,382	31,130,023	315,490	26,653,976	266,403
Sulphur	lb.	901,759	37,959	126,186	4,278	62,214	2,425
Caustic soda	lb.	5,801,722	201,420	4,358,920	144,191	3,079,014	99,852
Soda ash	lb.	352,841	8,285	311,713	7,602	323,840	6,870
Litharge	lb.	498,055	41,695	257,371	20,164	588,499	27,415
Fullers' earth	lb.	20,102,387	241,793	16,157,582	201,361	19,642,179	258,934
Compounding materials			521,980		386,312		421,729
Other materials			154,462		134,791		408,615
Shipping containers			2,011,927		1,809,780		1,806,304
Total			71,307,879		50,353,423		52,029,471
Fuel and gas oils made and used in pressure cracking process							
	imp. gal.	389,719,223		441,046,680		358,554,877	
Lubricating Oils and Greases—							
Oils—Animal	imp. gal.	13,503	13,590	2,638	2,885	400	280
LInseed, raw	imp. gal.	11,997	8,491	9,500	6,375	15,650	7,080
Mineral	imp. gal.	2,106,765	368,465	1,036,138	168,741	458,656	123,792
Tallow and grease	lb.	376,030	27,713	233,191	19,565	238,167	14,018
All other materials			38,708		45,237		47,625
Shipping containers			35,583		21,276		15,121
Total			492,550		264,319		207,916
Total			71,800,429		50,617,742		52,237,387

(* Includes naphtha from the Turner Valley field used for blending purposes but does not include imported casinghead gasoline used by refineries.

Table 138.—Products, 1930-1932

Products	Unit of measure	1930		1931		1932	
		Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
Petroleum Refining—							
Made for sale—			\$		\$		\$
Gasoline—Straight run	imp. gal.	276,238,369	37,337,958	278,255,832	29,876,513	207,750,871	23,148,720
By cracking	imp. gal.	169,314,761	23,445,341	191,632,502	20,294,691	192,113,405	19,957,260
Fuel and gas oils	imp. gal.	375,255,886	14,231,129	374,201,530	12,400,027	312,814,635	11,262,147
V. M. & P. or solvent naphtha	imp. gal.	7,150,672	870,037	8,498,995	769,291	18,075,192	2,043,823
Kerosene	imp. gal.	43,509,487	5,378,830	39,431,314	4,125,272	52,466,999	5,141,991
Lubricating oils	imp. gal.	18,042,269	2,909,506	5,157,068	2,548,923	15,105,061	3,656,856
Grease	lb.	13,465,366	268,453	9,300,866	187,216	9,629,492	531,759
Tar	lb.	1,017,500	8,140	992,000	9,020		
Asphalt	imp. gal.	37,470,666	1,991,629	37,967,082	1,836,403	23,082,228	1,934,046
Petroleum coke	ton	68,549	392,945	52,310	280,660	53,787	293,755
Wax and candles	lb.	10,153,924	453,591	10,047,369	368,677	9,195,542	417,304
Other products			241,053		186,963		176,402
Total for sale			87,528,612		72,813,566		68,563,973
Made for own use—							
Gasoline, straight run	imp. gal.	46,287	6,273	7,041	8,039	72,402	7,472
Fuel and gas oils (except for cracking)	imp. gal.	59,308,393	2,197,389	54,561,901	1,640,400	53,459,252	1,787,253
V. M. & P. or solvent naphtha	imp. gal.	14,288	1,690	32,462	2,252	106,435	9,985
Kerosene	imp. gal.	97,394	13,022	84,245	4,810	58,067	5,406
Lubricating oils	imp. gal.	42,621	6,384	34,823	8,852	38,842	9,380
Petroleum coke	ton	23,538	124,363	30,029	96,676	19,278	104,181
Still gas	M cu. ft.	3,529,319	874,151	5,161,905	980,628	3,836,413	824,386
Other products			57,827		33,202		48,288
Total for own use			3,281,099		2,774,859		2,796,351
Total Petroleum Refining			90,809,711		75,588,425		71,360,324
Fuel and gas oils made and used in pressure cracking process							
	imp. gal.	389,719,223		441,297,994		355,308,388	
Lubricating Oils and Greases—							
Greases, lubricating	lb.	719,505	71,288	537,655	56,547	260,853	34,811
Oils, lubricating	gal.	1,682,234	753,386	749,333	477,131	462,888	242,196
Soaps and soap powders	lb.	374,854	34,841	308,890	27,283	290,955	29,092
All other products			117,979		9,258		31,334
Total			977,494		570,219		337,433
Total			91,787,265		76,158,644		71,697,757

Table 139.—Consumption of Crude Oil in Petroleum Refineries in Canada, 1918-1932

Years	Crude oil used imp. gal.	Years	Crude oil used imp. gal.
1918.....	261,742,274	1926.....	585,466,329
1919.....	301,006,553	1927.....	716,369,890
1920.....	295,576,527	1928.....	849,933,770
1921.....	373,469,418	1929.....	1,072,828,496
1922.....	394,139,055	1930.....	1,064,434,974
1923.....	408,810,739	1931.....	1,074,788,038
1924.....	467,144,634	1932.....	930,114,055
1925.....	445,115,694		

Table 140.—Production of Gasoline in Canada, 1926-1932

Years	Straight run	By cracking	Total	Per cent of total made by cracking
	imp. gal.	imp. gal.	imp. gal.	imp. gal.
1926.....	152,307,473	69,839,231	222,146,704	51
1927.....	184,818,378	73,731,346	258,549,724	29
1928.....	226,054,310	117,175,542	344,129,861	54
1929.....	303,973,918	132,646,696	436,620,614	30
1930.....	276,284,656	169,314,761	445,599,417	38
1931.....	278,292,873	191,632,502	469,925,375	41
1932.....	207,823,273	192,119,405	399,942,678	48

Table 141.—Gross Sales of Gasoline in Canada by Provinces, 1929-1932, as Reported Under the Provincial Gasoline Tax Acts

Provinces	1929	1930	1931	1932
	imp. gal.	imp. gal.	imp. gal.	imp. gal.
Prince Edward Island.....	2,478,181	2,817,052	3,021,691	2,692,353
Nova Scotia.....	17,284,990	19,367,349	21,189,937	19,090,111
New Brunswick.....	10,469,682	16,195,481	16,029,143	13,879,833
Quebec.....	77,054,230	88,849,323	97,608,511	91,128,040
Ontario.....	292,191,523	243,267,123	249,543,831	236,088,727
Manitoba.....	34,765,203	36,353,462	30,307,724	25,569,881
Saskatchewan.....	78,456,744	76,630,024	49,449,699	33,635,929
Alberta.....	50,208,495	51,876,343	43,478,465	41,300,230
British Columbia.....	38,316,179	47,182,784	45,369,473	39,458,159
Canada.....	661,225,227	582,338,941	555,998,474	503,443,269

Table 142.—Gross Sales of Gasoline in Canada, by Months, 1930-1932, as Reported under the Provincial Gasoline Tax Acts

Months	1930	1931	1932
	imp. gal.	imp. gal.	imp. gal.
January.....	20,937,034	27,726,545	25,353,774
February.....	21,190,874	25,849,559	26,872,617
March.....	28,922,603	26,077,559	26,912,839
April.....	42,086,848	39,306,489	35,358,275
May.....	58,016,900	56,393,222	47,307,341
June.....	63,101,021	55,676,028	51,253,240
July.....	69,931,889	66,946,285	51,551,412
August.....	71,407,412	63,579,808	61,561,065
September.....	70,584,345	61,469,441	63,477,485
October.....	53,619,746	54,930,423	45,912,852
November.....	50,194,450	44,501,272	38,208,066
December.....	32,345,819	33,535,843	29,674,303
Total.....	582,338,941	555,998,474	503,443,269

Table 143.—Consumption of Gasoline by Motor Vehicles, and Revenues from Gasoline Tax, 1930 and 1932

Provinces	1930		1931		1932	
	Gasoline used by motor vehicles	Revenue from gasoline tax	Gasoline used by motor vehicles	Revenue from gasoline tax	Gasoline used by motor vehicles	Revenue from gasoline tax
	Imp. gal.	\$	Imp. gal.	\$	Imp. gal.	\$
Prince Edward Island.....	2,495,112	128,366	2,614,970	112,867	Not available.	134,398
Nova Scotia.....	17,497,793	851,725	18,176,943	878,082	.....	957,781
New Brunswick.....	21,648,316	659,797	13,816,672	696,481	.....	782,261
Quebec.....	83,466,961	4,075,368	91,816,749	4,405,160	For total sales	5,250,172
Ontario.....	219,069,450	10,756,836	225,320,078	10,810,914	.....	13,510,755
Manitoba.....	24,512,667	1,099,778	22,142,728	1,094,700	.....	1,514,260
Saskatchewan.....	31,248,449	1,538,556	26,479,689	1,310,347	see table 141	1,328,951
Alberta.....	36,721,728	1,939,048	24,746,025	1,472,068	.....	1,551,227
British Columbia.....	30,773,217	1,605,751	36,052,087	1,765,700	.....	2,053,511
Canada.....	467,433,693	22,655,225	461,165,941	22,546,119	.....	27,683,316

Table 144.—Production, Imports, Exports and Apparent Consumption* of Fuel Oil, Gasoline, Kerosene and Lubricating Oils, 1920-1930

	Production	Imports	Exports	Re-exports	Apparent consumption
	Imp. gal.	Imp. gal.	Imp. gal.	Imp. gal.	Imp. gal.
Gasoline—					
1920.....	86,193,664	8,515,545	160,433	214,634	94,334,133
1921.....	119,887,613	40,261,707	762,080	10,492	159,379,748
1922.....	143,959,893	42,112,248	1,976,244	27,620	184,068,277
1923.....	124,156,380	49,950,660	1,217,298	.....	172,989,742
1924.....	160,045,739	73,757,441	1,403,716	75,223	232,324,241
1925.....	164,670,072	83,927,751	1,568,855	42,594	246,986,374
1926.....	222,146,704	82,839,688	3,867,536	169,476	300,949,380
1927.....	258,549,724	108,168,328	2,463,379	327,293	363,927,380
1928.....	344,129,861	143,653,116	3,957,557	26,567	483,798,833
1929.....	436,620,614	175,151,570	4,669,078	168,438	606,934,668
1930.....	445,599,417	163,446,548	7,256,557	52,752	601,736,656
Fuel and Gas Oils—					
1920.....	96,462,792	122,929,391	2,684,427	.....	216,707,656
1921.....	129,716,045	61,398,671	5,384,751	.....	185,729,965
1922.....	106,975,976	72,805,012	7,036,627	.....	172,744,361
1923.....	139,682,570	108,982,780	2,384,899	.....	246,280,451
1924.....	177,123,232	94,244,271	18,263,236	.....	253,104,267
1925.....	172,387,242	107,849,209	7,375,163	.....	272,861,288
1926.....	228,474,212	91,638,340	21,043,135	.....	299,069,417
1927.....	286,525,733	119,612,088	18,793,254	.....	387,344,567
1928.....	361,391,850	95,467,100	21,531,929	.....	435,327,021
1929.....	448,699,760	95,749,518	28,177,495	.....	516,271,783
1930.....	434,564,279	97,832,740	19,259,585	.....	513,137,434
Lubricating Oils—					
1920.....	25,099,798	4,464,294	.....	.....	29,564,092
1921.....	24,246,320	5,040,450	.....	.....	29,286,776
1922.....	18,051,600	7,110,054	.....	.....	25,161,654
1923.....	17,121,896	8,196,682	.....	.....	25,318,579
1924.....	15,479,465	8,494,423	.....	.....	23,973,888
1925.....	15,789,852	8,445,738	.....	.....	24,235,590
1926.....	17,922,853	10,259,878	.....	.....	28,182,731
1927.....	19,591,297	11,873,647	.....	.....	31,464,944
1928.....	20,293,396	15,487,945	.....	.....	35,781,341
1929.....	24,447,243	17,404,194	.....	.....	41,851,437
1930.....	18,084,890	16,309,806	.....	.....	34,394,696
Kerosene—					
1920.....	54,155,655	14,971,509	1,243,335	.....	67,883,829
1921.....	59,082,790	10,544,281	1,466,422	.....	68,160,649
1922.....	76,521,560	3,873,234	1,471,947	.....	78,722,847
1923.....	67,396,674	4,127,146	1,450,051	.....	70,073,769
1924.....	61,308,467	5,413,393	1,525,427	.....	65,214,433
1925.....	45,026,459	5,256,661	1,508,086	.....	48,774,434
1926.....	58,502,190	4,842,452	1,584,645	.....	61,759,097
1927.....	51,316,079	4,028,966	1,759,838	.....	57,585,207
1928.....	55,981,919	3,064,692	1,297,081	.....	58,649,530
1929.....	49,362,381	4,523,347	1,367,241	.....	52,516,909
1930.....	43,006,881	4,987,091	1,460,676	3,262	47,130,034

(*) No allowance made for increases or decreases in refinery stocks.

Table 145.—Apparent Consumption in Canada of Gasoline, Fuel Oil, Kerosene and Lubricating Oils, 1931 and 1932

	Fuel and gas oils	Gasoline	Lubricating oils	Kerosene
	Imp. gal.	Imp. gal.	Imp. gal.	Imp. gal.
1931				
Production of refineries.....	428,753,431	469,925,275	15,961,224	39,465,559
Plus imports (*).....	89,528,171	116,712,705	13,800,995	3,493,849
	518,281,602	586,637,980	29,762,219	42,959,408
Less exports and re-exports.....	16,277,182	5,519,225		505,606
	502,004,420	581,118,755	29,762,219	42,453,802
Plus decline in refinery stocks.....				4,089,825
	502,004,420	581,118,755	29,762,219	46,543,627
Less increase in refinery stocks.....	13,633,340	15,852,709	491,882	
Apparent consumption.....	488,371,080	565,266,046	29,270,337	46,543,627
Stocks at refineries, December 31, 1931.....	61,941,557	71,486,846	3,818,813	6,867,025
1932				
Production of refineries.....	366,273,887	399,942,678	15,606,791	52,525,057
Plus imports (*).....	89,608,822	101,553,775	11,602,919	1,670,705
	455,882,709	501,496,453	27,209,710	54,195,262
Less exports and re-exports.....	7,297,332	4,214,352		888,773
	448,585,377	497,282,101	27,209,710	53,306,489
Plus decline in refinery stocks.....	11,780,779	7,949,752		1,228,096
	460,366,156	505,231,853	27,209,710	54,534,585
Less increase in refinery stocks.....			1,080,724	
Apparent consumption.....	460,366,156	505,231,853	26,128,986	54,534,585
Stocks at refineries, December 31, 1932.....	50,160,778	63,537,094	4,899,537	5,638,929

(*) Import figures for fuel oil include amounts brought in "ex-warehoused for ships' stores." This item covers fuel oil imported in bond for use in fueling vessels at Canadian ports and, as there is no corresponding export item, such quantities should really be omitted when compiling figures of Canadian consumption. In 1931, the amount under this item was 35,900,828 gallons and in 1932 it was 32,008,998 gallons.

Table 146.—Imports into Canada and Exports of Petroleum, Asphalt and Their Products, 1930-1932

	Total			United Kingdom	United States
	1930	1931	1932	1932	1932
IMPORTS—					
ASPHALT AND ITS PRODUCTS					
Asphaltum or asphalt, solid..... cwt.	885,834	738,018	259,649	149	249,428
	\$ 650,837	\$ 517,532	\$ 183,012	376	191,920
Asphalt, not solid.....	38,458	35,854	10,709	112	10,597
Asphaltum oil for paving purposes.....	\$ 70,130	\$ 45,557	\$ 8,887		8,887
PETROLEUM OILS, CRUDE, FUEL AND GAS					
Petroleum and other oils imported by miners or mining companies or concerns, for use in the concentration of ores of metals in their own concentrating establishments..... gal.					
	134,001	127,830	116,987	18,420	98,567
	\$ 55,242	\$ 59,426	\$ 58,400	2,284	56,116
Petroleum, crude, gas oils, other than naphtha, benzine and gasoline, lighter than -8235 but not less than .775 specific gravity at 60 degrees temperature..... gal.					
	539,045	77,280	306,975	224	306,751
	\$ 58,593	\$ 3,221	\$ 13,837	55	13,782
Petroleum, crude, in its natural state, -7900 specific gravity or heavier at 60 degrees temperature, when imported by oil refiners to be refined in their own factories..... gal.					
	1,012,029,544	1,017,388,091	889,838,742		670,373,533
	\$ 38,241,270	\$ 22,670,225	\$ 26,310,278		19,404,913
Petroleum, crude, not in its natural state, when imported by oil refiners to be refined in their own factories, .725 to .770 specific gravity and -790 specific gravity or heavier..... gal.					
	8,466,369	3,296,711	29,061,147		156,148
	\$ 609,899	\$ 161,228	\$ 1,021,485		11,590
Petroleum (not including crude petroleum imported to be refined, or illuminating or lubricating oils) -8235 specific gravity or heavier at 60 degrees temperature..... gal.					
	65,773,147	53,550,063	57,292,849		26,671,077
	\$ 2,406,223	\$ 1,760,513	\$ 2,062,912		1,032,357
Fuel oil, ex-warehoused for ships' stores..... gal.					
	31,560,548	35,900,828	32,008,998		26,239,684
	\$ 821,313	\$ 891,962	\$ 857,490		752,001

Table 146.—Imports into Canada and Exports of Petroleum, Asphalt and Their Products, 1930-1932—Concluded

	Total			United Kingdom	United States
	1930	1931	1932	1932	1932
PETROLEUM OILS, REFINED					
Illuminating oils, composed wholly or in part of the products of petroleum, coal, shale, or lignite, costing more than 30 cents per gallon.	gal. 10,687 \$ 4,660	11,143 7,322	2,117 890		2,077 875
Coal oil and kerosene lighter than .8235 specific gravity at 60 degrees temperature, n.o.p.	gal. 4,911,617 \$ 360,518	3,193,840 212,420	1,670,265 126,768		1,666,914 125,943
Engine distillate lighter than .8235 specific gravity at 60 degrees temperature	gal. 64,757 \$ 9,856	172,588 15,246	63,842 6,843		63,842 6,843
Gasoline under .725 specific gravity at 60 degrees temperature	gal. 93,822,017 \$ 9,488,190				
Gasoline .725 specific gravity and heavier, but not heavier than .770 specific gravity at 60 degrees temperature	gal. 49,953,335 \$ 5,712,592	8,610 821			
Gasoline, n.o.p.	gal. 10,530,170 \$ 1,123,284	11,329,270 1,147,897			
Gasoline lighter than .8235 specific gravity at 60 degrees temperature	gal. \$	73,245,020 6,372,346	74,859,806 7,503,765		53,926,487 6,329,260
Natural casinghead, compression or absorption gasoline, lighter than .6690 specific gravity at 60 degrees temperature, when imported by distillers of petroleum for blending with other gasolines distilled in Canada. (From September 17, 1930)	gal. 9,149,726 \$ 784,525	32,140,465 2,152,162	26,693,969 1,530,657		26,693,969 1,530,657
Lubricating oils, composed wholly or in part of petroleum, and costing less than 25 cents per gallon	gal. 8,048,755 \$ 1,477,639	9,319,547 1,591,795	7,849,522 1,460,284	2,422 401	7,847,110 1,459,803
Lubricating oils, n.o.p.	gal. 8,261,031 \$ 3,540,113	4,481,418 1,983,160	3,753,387 1,567,818	135,890 74,580	3,602,545 1,486,831
Oils, all other, n.o.p.	gal. 308,019 \$ 131,321	578,535 127,343	229,589 80,093	659 437	224,788 76,010
PETROLEUM PRODUCTS, N.O.P.					
Grease, axle	lb. 6,311,098 \$ 288,984	4,148,459 206,770	3,148,868 169,484	41,373 3,162	3,082,250 163,946
Vaseline and all similar preparations of petroleum, for toilet, medicinal or other purposes	\$ 230,800	186,290	200,084	254	163,509
Paraffine wax	lb. 3,461,085 \$ 126,770	2,473,199 74,561	1,619,965 53,508	48,738 2,529	1,155,767 39,586
Paraffine wax candles	lb. 343,063 \$ 79,766	429,976 79,437	369,486 58,294	20,794 4,582	249,738 45,931
Naphtha and products of petroleum, n.o.p., lighter than .8235 specific gravity at 60 degrees temperature	gal. 1,667,160 \$ 251,743	3,443,531 329,867	1,884,313 176,702	50 129	1,883,953 176,533
Total Imports	\$ 66,619,649	40,632,795	43,472,870	88,901	33,087,890
EXPORTS—					
Oil, petroleum, crude	gal. 19,259,585 \$ 881,452	16,277,182 677,378	7,297,332 244,613	61,460 2,213	6,431,038 185,397
Oil, coal and kerosene, refined	gal. 1,460,676 \$ 138,455	304,361 32,328	884,623 116,897		31,032 2,272
Oil, gasoline and naphtha	gal. 7,256,567 \$ 1,226,561	3,500,606 889,827	4,209,436 545,790	250 50	1,061,639 141,132
Oil, mineral, n.o.p.	gal. 315,779 \$ 129,231	886,122 185,177	7,922,816 276,015	85,474 32,426	7,465,784 169,204
Wax, mineral	cwt. 16,958 \$ 74,933	9,469 34,092	23,855 66,144		23,771 65,756
Total Exports	\$ 2,441,632	1,835,802	1,289,459	34,689	564,260

Table 147.—Imports into Canada of Crude Petroleum, by Countries, 1930-1932

Countries	1930		1931		1932	
	Imperial gallons	\$	Imperial gallons	\$	Imperial gallons	\$
Crude petroleum in its natural state, .7900 specific gravity or heavier at 60 degrees temperature, when imported by oil refiners to be refined in their own factories:—						
United States	692,076,864	27,295,728	718,689,929	15,361,564	670,373,533	19,404,913
Columbia	114,376,677	4,658,729	170,960,367	4,166,752	68,766,319	2,709,510
Peru	73,485,494	3,520,841	95,666,132	2,533,952	80,572,439	3,178,557
Venezuela	132,090,509	2,765,972	29,738,008	551,283	64,984,328	874,961
Trinidad and Tobago			2,333,655	56,674	5,142,123	142,337
Total	1,012,023,544	38,241,270	1,017,388,091	22,670,225	889,838,742	26,310,278
Crude petroleum, not in its natural state, .7250 specific gravity or heavier at 60 degrees temperature when imported by oil refiners to be refined in their own factories:—						
United States	981,591	93,751	637,009	42,894	156,148	11,590
Trinidad and Tobago					12,596,901	706,603
Peru	7,484,778	507,148	2,659,702	118,334	1,351,595	53,320
Russia (U.S.S.R.)					5,956,503	249,972
Total	8,466,369	600,899	3,296,711	161,228	29,061,147	1,021,485

Primary Production.—Crude Petroleum.—(From annual report on *The Mineral Production of Canada*).—Crude petroleum output from Canadian wells recorded a 32.3 per cent decline in 1932 to 1,044,412 barrels as compared with the 1931 production of 1,542,573 barrels. Decreased production in the Turner Valley field, Alberta, due principally to lessened demand for crude naphtha and to natural gas conservation regulations introduced by the provincial government, was responsible for the decline in the Canadian petroleum output.

The successful operation of a small refining plant near Fort Norman, in the Mackenzie River district, to provide fuel for mining operations in the Great Bear Lake area, was an interesting feature of the year. Crude oil from a nearby well, capped since 1925, was treated at this refinery.

Table 148.—Production of Crude Petroleum in Canada, 1930-1932

Provinces	1930		1931		1932	
	Barrels	Value	Barrels	Value	Barrels	Value
		\$		\$		\$
NEW BRUNSWICK	6,758	17,378	6,577	15,461	6,408	14,332
ONTARIO—						
Petrolia and Enniskillen	55,126	109,741	57,515	101,946	58,871	110,390
Oil Springs	29,160	60,038	30,792	57,628	31,438	62,057
Moore Township	1,691	3,366	3,739	6,621	3,272	6,132
Sarnia Township	1,036	2,063	1,468	2,600	1,227	2,299
Plympton Township	296	589	295	523	274	513
Bothwell Township	21,177	42,115	18,024	31,933	19,460	36,467
West Dover	457	909	891	1,581	453	849
Onondaga	231	762	34	129	543	1,018
Moza Township	7,166	14,252	8,517	15,092	8,429	15,795
Euphemia			121	216	496	920
Dunwich	366	726	508	902	285	534
Thamesville	447	889	463	822	534	1,001
Dawn					5,061	9,484
Tilbury East	149	296				
Total for Ontario	117,302	235,746	122,365	219,993	130,343	247,468
ALBERTA	1,398,160	4,780,696	1,413,631	3,976,220	(a) 907,661	(a) 2,760,792
Canada	1,522,220	5,037,820	1,542,573	4,211,674	1,044,412	3,022,592

(a) Includes a small production from the Northwest Territories.

Table 149.—Principal Statistics of the Crude Petroleum Industry in Canada, 1930-1932

	1930	1931	1932
Number of firms.....	234	160	175
Capital employed.....	\$ 63,300,244	57,620,950	48,568,562
Number of employees—On salary.....	245	166	121
On wages.....	1,624	1,043	534
Total.....	1,869	1,209	655
Salaries and wages—Salaries.....	\$ 459,412	368,320	216,871
Wages.....	\$ 2,878,342	1,266,197	559,292
Total.....	\$ 3,337,754	1,634,517	776,163
Cost of fuel and electricity.....	\$ 363,998	303,511	120,842
Selling value of products.....	\$ 5,033,820	4,211,674	3,022,592

Table 150.—Directory of Plants in the Petroleum Products Industry, 1932

Name and address	Capacity in barrels of crude oil per day
(a) Petroleum Refining	
NOVA SCOTIA—	
Imperial Oil Refineries Limited, Imperoyal.....	12,000
NEW BRUNSWICK—	
New Brunswick Gas and Oilfields, Ltd., Weldon.....	100
QUEBEC—	
Imperial Oil Refineries Limited, Montreal East.....	30,000
La Salle Petroleum Refinery Limited, Montreal East.....	2,000
McCull-Fontenac Oil Company, Limited, Montreal East.....	5,000
British American Oil Refineries Limited, Montreal East.....	8,000
ONTARIO—	
British American Oil Refineries Limited, Toronto.....	5,000
Canadian Oil Refineries Limited, Petrolia.....	1,400
Imperial Oil Refineries Limited, Sarnia.....	25,000
McCull-Fontenac Oil Company, Limited, Toronto.....	5,000
MANITOBA—	
Blue Ribbon Oil Refinery Company Limited, Winnipeg.....	refining waste oil
North Star Oil Limited, St. Boniface.....	700
Radio Oil Refineries Ltd., East Kildonan.....	1,200
SASKATCHEWAN—	
Imperial Oil Refineries Limited, Regina.....	7,000
Hi-Way Refineries Limited, Regina.....	150
Sterling Oil Refineries Limited, Moose Jaw.....	750
ALBERTA—	
Imperial Oil Refineries Limited, Calgary.....	6,000
Bill Refining Company, Limited, Calgary.....	750
Maple Leaf Petroleum Limited, Coufcs.....	4,000
Regal Oil and Refining Co., Ltd., Calgary.....	3,000
Northwest Stellarene Company, Inc., Coufcs.....	2,500
J. W. Fraser Refining Company, Wainwright.....	300
BRITISH COLUMBIA—	
Imperial Oil Refineries Limited, Ioco.....	15,000
Vancouver Oil Company Limited, Vancouver.....	1,000
<p>Note.—Statistics for the above refineries have been included in the review given in this chapter. In addition, the following small refineries did not operate or operated for only a short period in 1932 and no returns were received from them.</p>	
Scarboro Refineries Limited, Toronto, Ontario.....	200
Sava Oil Refineries Limited, Windsor, Ontario.....	60
Saskatoon Hi-Way Refineries Ltd., Saskatoon, Sask.....	300
Farmers' Oil Company, Wainwright, Alberta.....	200
Karels Oil Refinery, Regina, Sask.....	150
Simrall Refining Company, Amherstburg, Ont.....	
<p>The following companies at the close of 1932 were reported to be constructing or intending to construct refineries in Canada:—</p>	
Shell Oil Company of Canada, Limited, Montreal, P.Q. (commenced operations in March, 1933)	5,000
Shell Oil Company of Canada, Limited, Vancouver, B.C.....	4,000
Lloyd Refining Company, Port Credit, Ont.....	2,000
Seaboard Oil and Refining Company Limited, Vancouver, B.C.....	300
Hi-Way Refineries Limited, Rosethorn, Alberta.....	
(b) Lubricating Oils and Greases, 1932	
QUEBEC—	
Atlas Manufacturing Company.....	Montreal.
Economic Products Limited.....	Outremont.
Union Products.....	Montreal.
ONTARIO—	
Campbell Grease Company.....	Toronto.
Ontario Lubricating Company Limited.....	Hamilton.
MANITOBA—	
McManus & Howard Limited.....	Winnipeg.
BRITISH COLUMBIA—	
Union Oil Company of Canada, Limited.....	Port Moody.

CHAPTER ELEVEN

THE DOMESTIC-CLAY PRODUCTS INDUSTRY

The manufacture of clay products in Canada falls into two divisions: (1) the production from domestic clays which includes refractories, brick, structural tile, floor tile, roofing tile, drain tile, sewer pipe and pottery; (2) the production from imported clays which includes insulators, firebrick, sanitary earthenware, pottery and floor tile. In 1932 the industry as a whole covered the operations of 180 factories which represented a capital of \$29,555,349 and provided employment for an average of 2,455 people throughout the year. Statistics presented in this chapter cover only the manufactures from clays produced in Canada; data covering the working of imported clays are given in Chapter Twelve.

Unfavourable conditions in the building and construction industries severely affected the producers of clay products in 1932 when the value of products made from Canadian clays declined 53 per cent below the figures for the preceding year and 65 per cent below 1930. Factory sales in 1932 reached a value of \$3,650,218 as against \$7,841,288 in 1931. Declines were reported in the value of all clay products with the exception of roofing tile which showed a considerable increase in both quantity and value. Ontario accounted for 45 per cent of the total sales and Quebec for 29 per cent, the other provinces in order of importance being as follows: Alberta, British Columbia, Nova Scotia, Saskatchewan, New Brunswick and Manitoba.

In 1932, reports were received from 164 factories which were primarily engaged in making products from Canadian clays. These works were located as follows: 105 in Ontario, 20 in Quebec, 8 in Alberta, 11 in British Columbia, 6 in Nova Scotia, 6 in Saskatchewan, 5 in New Brunswick and 3 in Manitoba. Plants for the production of brick and tile were in operation in every province except Prince Edward Island. Fireclay block and shapes and fireclay were produced in Nova Scotia, New Brunswick, Saskatchewan and British Columbia. Firebrick was manufactured in Saskatchewan, Alberta and British Columbia. Pottery, mostly flower pots and coarse earthenware, was produced in New Brunswick, Ontario, Alberta and British Columbia.

Capital employed in these plants was reported at \$25,347,582. Salaries and wages paid to an average of 1,740 employees amounted to \$1,576,586. Fuel costs were \$579,803 and purchased electricity cost \$106,783.

Imports of clay and clay products during 1932 were valued at \$5,405,750 of which \$2,983,642 was from the United Kingdom, \$1,616,668 from the United States and \$805,440 from other countries. Tableware of china, porcelain, semi-porcelain, etc., was the most important item on the list, the value being \$2,866,320, practically all from the United Kingdom. Other pottery, firebrick, unmanufactured fireclay and china clay, porcelain insulators and artificial teeth were other major items on the import list.

Exports of clays and clay manufactures were valued at \$196,494 of which \$67,135 went to the United Kingdom and \$46,306 to the United States. Shipments to foreign countries consisted chiefly of porcelain insulators.

MANUFACTURES OF NON-METALLIC MINERALS

Table 151.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Selling value at works
		\$		\$	\$	\$
1930						
Nova Scotia.....	8	974,049	230	191,652	56,259	495,333
New Brunswick.....	5	296,623	113	79,595	36,136	162,536
Quebec.....	18	11,427,181	1,070	1,054,205	455,330	2,464,044
Ontario.....	137	14,486,608	2,345	2,355,190	1,111,474	5,221,214
Manitoba.....	5	450,119	240	140,759	42,171	215,967
Saskatchewan.....	5	1,141,551	187	179,234	61,633	349,283
Alberta.....	10	3,176,652	434	522,200	42,277	997,685
British Columbia.....	15	1,477,394	407	438,295	117,326	687,516
Canada.....	295	33,439,777	5,926	4,961,130	1,922,606	10,593,578
1931						
Nova Scotia.....	6	1,008,204	160	148,445	67,760	467,126
New Brunswick.....	5	290,100	77	66,812	36,346	143,348
Quebec.....	20	12,095,766	878	1,027,442	478,645	2,360,908
Ontario.....	122	14,385,449	1,444	1,617,048	775,699	3,552,800
Manitoba.....	5	508,234	95	77,272	17,203	122,628
Saskatchewan.....	5	1,027,641	77	65,276	19,228	166,257
Alberta.....	9	2,844,071	254	275,137	14,338	529,716
British Columbia.....	17	1,659,699	274	263,818	77,219	498,505
Canada.....	189	33,819,164	3,259	3,541,250	1,486,438	7,841,288
1932						
Nova Scotia.....	6	788,626	123	93,128	35,529	172,557
New Brunswick.....	5	252,603	52	36,059	10,695	68,151
Quebec.....	20	7,025,855	365	327,831	142,400	1,064,551
Ontario.....	105	12,875,622	797	744,490	319,706	1,639,508
Manitoba.....	3	236,582	18	20,978	9,191	49,773
Saskatchewan.....	6	523,975	41	47,959	12,659	109,739
Alberta.....	8	2,053,518	184	185,319	14,711	329,584
British Columbia.....	11	990,801	160	120,822	34,912	216,355
Canada.....	164	25,347,582	1,749	1,576,596	579,803	3,650,218

Table 152.—Principal Statistics According to Production Values and Number of Employees, 1931 and 1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value at works	Number of plants	Capital employed	Number of employees	Selling value at works
(a) Production values—		\$		\$		\$		\$
Under 5,000.....	73	982,287	152	147,660	83	1,162,460	135	169,344
5,000 to 10,000.....	31	1,314,350	150	206,685	25	1,771,993	140	171,415
10,000 to 25,000.....	26	2,005,396	241	428,975	24	3,545,280	216	369,149
25,000 to 50,000.....	24	4,140,857	390	863,183	9	1,584,397	205	320,657
50,000 to 100,000.....	13	3,049,351	372	923,630	13	5,717,392	421	963,036
100,000 to 250,000.....	13	6,517,297	857	2,182,304	10	11,566,060	623	1,656,617
Over 250,000.....	9	15,809,656	1,097	3,088,851				
Total.....	189	33,819,164	3,259	7,841,288	164	25,347,582	1,749	3,650,218
(b) Number of employees—								
1 or 2.....	60	1,298,507	68	188,228	78	903,365	78	456,403
3 to 10.....	63	3,099,544	337	596,180	45	3,639,785	255	423,329
11 to 20.....	26	2,872,992	392	724,261	18	3,600,650	258	447,575
21 to 50.....	24	6,481,552	759	1,878,287	14	4,715,523	438	894,197
51 to 100.....	9	9,329,681	724	2,175,354	7	9,584,481	505	1,016,713
101 to 200.....	7	10,736,828	979	2,278,978	2	2,903,778	206	412,001
Total.....	189	33,819,164	3,259	7,841,288	164	25,347,582	1,749	3,650,218

Table 153.—Capital Employed by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills, and accounts receivable, prepaid expenses, etc.)	Total
1930					
Nova Scotia	\$ 756,432	\$ 150,587		\$ 67,630	\$ 974,649
New Brunswick	234,196	36,156		26,271	296,623
Quebec	9,597,458	1,070,198		759,525	11,427,181
Ontario	10,520,257	1,839,669		2,126,682	14,486,608
Manitoba	247,575	67,953		134,591	450,119
Saskatchewan	926,098	110,148		105,305	1,141,551
Alberta	2,236,268	365,156		575,228	3,176,652
British Columbia	1,153,770	196,502		127,122	1,477,394
Canada	25,672,054	3,836,369		3,922,351	33,430,777
1931					
Nova Scotia	797,896	76,777	92,311	41,220	1,008,204
New Brunswick	199,980	8,104	48,899	33,117	210,100
Quebec	10,190,299	201,878	929,250	774,339	12,095,766
Ontario	10,745,336	245,979	1,366,418	2,027,716	14,385,449
Manitoba	260,701	59,141	63,885	124,507	508,234
Saskatchewan	883,806	5,105	71,800	66,930	1,027,641
Alberta	2,253,123	68,962	277,436	244,550	2,844,071
British Columbia	1,245,755	25,280	225,059	163,605	1,659,699
Canada	26,576,896	691,226	3,075,658	3,475,984	33,819,164
1932					
Nova Scotia	592,437	90,605	94,874	10,710	788,626
New Brunswick	182,858	8,435	37,556	23,754	252,603
Quebec	6,442,219	146,126	563,471	474,039	7,625,855
Ontario	9,834,627	182,813	1,073,166	1,785,016	12,875,622
Manitoba	116,301	6,681	40,376	73,224	236,582
Saskatchewan	439,443	11,717	26,791	46,024	523,975
Alberta	1,511,053	107,091	239,319	196,055	2,053,518
British Columbia	725,270	17,343	164,292	83,896	990,801
Canada	19,844,298	570,811	2,239,845	2,692,718	25,347,582

Table 154.—Employees, Salaries and Wages, by Provinces, 1930-1932

Province	Average number of employees				Total	Salaries and wages		
	On salaries		On wages			Salaries	Wages	Total
	Male	Female	Male	Female				
1930								
Nova Scotia	10	2	218		230	\$ 29,900	\$ 161,752	\$ 191,652
New Brunswick	7		106		113	12,852	69,743	79,595
Quebec	69	9	992		1,070	193,278	860,927	1,054,205
Ontario	178	34	2,133		2,345	481,302	1,873,798	2,355,190
Manitoba	11	3	226		249	28,220	112,539	140,759
Saskatchewan	20	1	166		187	41,853	137,981	179,234
Alberta	28	3	403		434	87,060	435,140	522,200
British Columbia	22	2	383		407	47,044	300,351	438,295
Canada	345	54	4,627		5,026	922,499	4,038,631	4,961,130
1931								
Nova Scotia	9	3	148		160	27,837	120,608	148,445
New Brunswick	8	1	68		77	20,084	46,728	66,812
Quebec	95	12	771		878	245,432	782,010	1,027,442
Ontario	195	24	1,225		1,444	446,711	1,170,337	1,617,048
Manitoba	15	1	79		95	26,400	59,872	77,272
Saskatchewan	14		63		77	27,738	37,538	65,276
Alberta	32	2	220		254	77,977	197,160	275,137
British Columbia	22	2	250		274	46,602	217,216	263,818
Canada	399	45	2,824		3,259	918,781	2,622,469	3,541,250
1932								
Nova Scotia	7	2	114		123	22,929	70,199	93,128
New Brunswick	8	1	43		52	15,669	20,390	36,059
Quebec	59	7	299		365	102,227	225,604	327,831
Ontario	136	24	637		797	297,565	446,925	744,490
Manitoba	5		13		18	11,200	9,778	20,978
Saskatchewan	11	3	30		41	22,146	25,813	47,959
Alberta	23	3	158		184	56,881	128,438	185,319
British Columbia	16	2	142		160	37,058	83,764	120,822
Canada	265	39	1,436		1,740	565,675	1,010,911	1,576,586

MANUFACTURES OF NON-METALLIC MINERALS

Table 155.—Wage-Earners, by Months, 1930-1932

(On the 15th of each month or nearest representative date)

Months	1930	1931	1932
January.....	2,602	1,954	1,217
February.....	2,411	1,679	1,144
March.....	2,751	1,983	1,180
April.....	3,670	2,629	1,246
May.....	4,630	3,490	1,634
June.....	5,099	3,859	1,876
July.....	5,166	3,825	1,766
August.....	4,795	3,490	1,764
September.....	4,349	3,382	1,684
October.....	3,651	2,905	1,586
November.....	3,165	2,637	1,057
December.....	2,640	1,837	806
Average.....	4,627	2,821	1,436

Table 156.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal—Canadian.....	short ton	39,454	227,383	31,045	198,383	11,752	72,277
Imported.....	short ton	172,329	1,044,404	131,888	815,923	48,892	297,568
Anthracite coal.....	short ton	3,722	26,248	2,400	20,335	1,142	8,495
Lignite coal—Canadian.....	short ton	9,666	23,681	2,505	10,486	3,082	8,808
Imported.....	short ton			47	300	1,548	9,265
Coke.....	short ton	3,228	26,548	1,549	12,713	596	4,386
Gasoline.....	imp. gal.	56,830	12,946	33,470	7,306	11,246	2,677
Kerosene.....	imp. gal.	1,740	513	1,574	357	959	246
Fuel Oil.....	imp. gal.	236,109	28,407	136,226	16,023	15,614	1,869
Wood.....	cord	53,259	243,760	34,333	148,447	15,764	61,149
Gas—Manufactured.....	M cu. ft.			95	40		
Natural.....	M cu. ft.	520,376	20,628	523,252	15,693	178,650	6,280
Other fuel.....					87		
Electricity purchased.....	k. w. h.	18,202,764	268,088	17,660,875	240,365	6,386,134	106,783
Total.....			1,822,606		1,486,438		579,803

Table 157.—Power Employed, 1930-1932

	1930		1931		1932	
	Number of units	Total rated horsepower	Number of units	Total rated horsepower	Number of units	Total rated horsepower
Steam engines and turbines.....	90	6,844	85	7,103	76	5,906
Gasoline, gas and oil engines.....	53	1,775	50	1,520	41	1,542
Hydraulic turbines or water wheels.....					3	125
Total primary power.....	143	8,619	135	8,623	120	7,573
Electric motors run by purchased power.....	608	20,672	553	19,653	461	15,833
Total power employed.....	751	29,291	688	28,276	581	23,406
Electric motors run by primary power in same plant.....	19	1,302	15	539	11	302
Total electric power.....	627	21,974	568	20,192	472	16,135
Boilers.....	89	7,618	86	7,488	79	7,233

Table 158.—Production from Domestic Clays, by Provinces, 1930-1932

	1930	1931	1932
	\$	\$	\$
Nova Scotia.....	495,333	467,126	172,557
New Brunswick.....	162,536	143,348	68,151
Quebec.....	2,464,644	2,360,908	1,064,551
Ontario.....	5,221,214	3,552,800	1,639,508
Manitoba.....	215,967	122,628	49,773
Saskatchewan.....	349,283	166,257	109,739
Alberta.....	997,685	529,716	329,584
British Columbia.....	687,516	498,505	216,355
Canada.....	10,593,578	7,841,288	3,650,218

Table 159.—Production from Domestic Clays, by Commodities, 1930-1932

Commodities	1930		1931		1932		
	Quantity	Total selling value at works	Quantity	Total selling value at works	Quantity	Total selling value at works	
		\$		\$		\$	
Brick:—Soft mud process	Face..... M	11,350	247,220	5,476	116,316	6,188	108,582
	Common..... M	56,487	861,805	41,177	619,357	12,801	182,372
Stiff mud process (wire cut)	Face..... M	99,284	2,135,871	77,135	1,752,947	30,197	664,756
	Common..... M	105,225	1,480,965	81,930	1,205,464	40,753	638,922
Dry press	Face..... M	29,434	604,197	20,149	423,357	5,522	119,547
	Common..... M	16,915	208,495	8,688	197,213	4,248	46,702
Fancy or ornamental brick (including special shapes, embossed and enameled brick).....	M	339	27,649	335	20,773	125	6,237
Sewer brick.....	M	804	15,299	2,253	43,692	643	12,156
Paving brick.....	M	9	297	19	682	6	155
Firebrick.....	M	3,789	177,608	2,248	107,597	1,580	71,757
Fireclay.....	tons	2,870	25,975	1,233	14,857	990	11,826
Bentonite.....	tons	74	1,396	187	935	7	176
Fireclay blocks and shapes.....			147,309		83,039		75,209
Structural tile: Hollow blocks (including fire-proofing and load-bearing tile).....	tons	165,359	1,667,783	105,635	1,046,634	48,118	421,672
Roofing tile.....	No.	3,056	356	6,935	720	48,939	3,900
Floor tile (quarries).....	sq. ft.	179,786	56,230	107,499	31,415	94,316	21,502
Drain tile.....	M	25,291	687,070	12,518	328,410	7,385	186,070
Sewer pipe (including copings, flue linings, etc.).....			1,721,815		1,508,803		813,224
Pottery, glazed or unglazed.....			294,866		257,125		244,861
Other products.....			231,372		171,952		19,932
Total.....			10,593,578		7,841,288		3,650,218

Table 160.—Production of Building Brick, by Provinces, 1930 and 1932

Kinds		Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
1930									
Soft mud process.	Face	M 240			9,798			1,312	
		\$ 3,360			201,860			42,000	
Common		M 730	3,877	1,258	24,674	9,720	1,189	7,298	7,741
		\$ 9,718	62,625	12,754	375,085	156,585	16,867	92,158	136,010
Stiff mud process. (wire cut)	Face	M 962	1,124	33,585	57,001	1,204	1,691	2,589	1,128
		\$ 26,608	27,836	743,641	1,178,026	26,604	54,842	37,468	40,846
Common		M 7,212	1,913	65,867	22,800		4,823	2,258	352
		\$ 98,133	28,711	927,218	346,126		55,159	20,549	5,069
Dry press	Face	M		2,660	21,835		282	3,751	906
		\$		67,291	431,683		9,058	61,616	34,549
Common		M			4,246			10,886	1,783
		\$			58,530			124,585	25,380
Fancy or ornamental brick		M		74	205				
		\$		3,791	23,858				
Sewer brick		M			722				82
		\$			12,430				2,809
Total		M 9,144	6,914	103,411	141,311	10,924	7,985	28,094	11,992
		\$ 127,819	119,172	1,254,695	2,627,661	183,189	135,926	378,376	244,663
1931									
Soft mud process.	Face	M 120	100		4,954			302	
		\$ 1,560	2,200		105,000			7,550	
Common		M 780	3,134		24,478	5,209	415	1,734	5,427
		\$ 10,660	42,671		373,130	76,688	5,451	22,280	88,477
Stiff mud process (wire cut)	Face	M 349	910	32,113	40,935	794	576	675	783
		\$ 9,970	25,669	766,988	873,334	17,577	20,233	12,328	26,848
Common		M 3,728	1,778	56,464	17,008	30	1,831	379	712
		\$ 54,573	26,311	841,868	249,880	300	18,095	3,267	11,110
Dry press	Face	M		2,894	13,901		27	2,779	458
		\$		74,970	300,614		720	28,937	18,116
Common		M		250	2,719			3,797	1,922
		\$		2,500	39,767			36,170	28,767
Fancy or ornamental brick		M		76	259				
		\$		3,944	16,829				
Sewer brick		M			1,946				307
		\$			33,321				10,371
Total		M 4,977	5,922	91,797	166,290	6,033	2,849	9,666	9,669
		\$ 76,763	96,851	1,690,270	1,991,881	94,625	44,499	110,541	183,689
1932									
Soft mud process.	Face	M 160		300	5,716				12
		\$ 2,008		3,000	103,390				184
Common		M 540	1,269	18	6,525	1,337	660	697	1,755
		\$ 6,780	18,180	912	98,828	18,196	6,929	8,345	24,232
Stiff mud process (wire cut)	Face	M 347	487	13,180	15,315	320	115	277	156
		\$ 6,754	13,928	300,649	321,077	7,472	3,127	6,386	3,663
Common		M 2,220	520	28,063	7,816	416	220	989	500
		\$ 31,206	7,949	448,470	122,905	6,801	2,256	11,648	7,627
Dry press	Face	M		310	4,667		6	310	220
		\$		9,563	97,897		138	3,876	8,073
Common		M			1,522			2,726	
		\$			24,070			22,692	
Fancy or ornamental brick		M		89	36				
		\$		4,447	1,700				
Sewer brick		M			638				5
		\$			12,071				85
Total		M 3,276	2,276	41,969	42,235	2,073	1,901	4,999	2,648
		\$ 46,748	39,757	767,011	784,028	32,499	12,450	52,947	43,861

Table 161.—Production of Building Brick, by Kinds, 1926-1932

	Soft mud process		Stiff mud process (wire cut)		Dry press		Fancy or ornamental brick	Sewer brick	Total
	Face	Common	Face	Common	Face	Common			
1926	M 28,235	78,158	101,028	94,046	30,423	19,450	462	6,546	358,348
	\$ 550,573	1,145,490	2,146,362	1,624,055	651,239	260,598	24,057	117,194	6,525,565
1927	M 16,196	70,554	95,480	150,222	39,753	14,617	620	10,997	398,439
	\$ 325,966	1,091,274	2,024,064	2,239,180	833,570	187,062	29,372	210,643	6,911,131
1928	M 17,532	93,280	101,717	144,404	30,587	24,294	598	2,888	421,361
	\$ 349,847	1,328,981	2,247,472	2,182,307	748,301	337,096	28,763	59,010	7,281,777
1929	M 20,624	77,399	114,093	170,840	38,591	26,131	187	4,765	458,630
	\$ 538,096	1,195,511	2,469,417	2,509,451	813,461	368,039	12,795	96,588	8,063,358
1930	M 11,350	56,487	99,284	105,225	20,434	16,915	339	804	319,838
	\$ 247,220	861,805	2,135,871	1,480,965	604,197	208,495	27,649	15,299	5,581,591
1931	M 5,476	41,177	77,135	81,930	20,149	8,688	335	2,253	237,143
	\$ 116,316	619,357	1,752,947	1,205,464	423,357	107,213	20,773	43,692	4,289,119
1932	M 6,188	12,801	30,197	40,753	5,522	4,248	125	643	100,477
	\$ 108,582	182,372	664,756	638,922	119,547	46,762	6,237	12,156	1,729,334

Table 162.—Production of Structural Tile from Domestic Clays, by Provinces, 1930-1932

Provinces	Hollow blocks (including fireproofing and load-bearing tile)		Roofing tile		Floor tile* (quarries)	
	Tons	Value	No.	Value	Sq. ft.	Value
1930		\$		\$		\$
Nova Scotia.....	9,378	107,998				
New Brunswick.....	600	8,888				
Quebec.....	39,769	484,605				
Ontario.....	85,155	791,474	3,056	356	179,047	56,054
Manitoba.....	1,335	17,754				
Saskatchewan.....	7,566	60,214			739	176
Alberta.....	13,123	111,807				
British Columbia.....	8,433	85,043				
Canada.....	165,359	1,667,783	3,056	356	179,786	56,230
1931						
Nova Scotia.....	7,372	86,632				
New Brunswick.....	1,776	16,706				
Quebec.....	41,585	477,720				
Ontario.....	41,774	346,079	6,935	720	107,418	31,395
Manitoba.....	1,278	15,703				
Saskatchewan.....	3,177	28,299			81	20
Alberta.....	5,360	42,276				
British Columbia.....	3,313	33,219				
Canada.....	165,635	1,046,634	6,935	720	107,499	31,415
1932						
Nova Scotia.....	3,182	30,208				
New Brunswick.....	134	1,120				
Quebec.....	20,170	193,335				
Ontario.....	18,941	144,471	48,939	3,900	94,316	21,502
Manitoba.....	1,187	11,965				
Saskatchewan.....	1,322	11,781				
Alberta.....	2,106	17,055				
British Columbia.....	1,116	11,737				
Canada.....	48,118	421,672	48,939	3,900	94,316	21,502

*Floor tile is also made in Canada from imported clays by the Frontenac Floor and Wall Tile Co., Kingston, Ont.

Table 163.—Production of Drain Tile and Sewer Pipe* from Domestic Clays, by Provinces, 1930-1932

Province	1930			1931			1932		
	Drain tile		†Sewer pipe	Drain tile		†Sewer pipe	Drain tile		†Sewer pipe
	M	\$	\$	M	\$	\$	M	\$	\$
Nova Scotia.....	111	3,796	239,475	159	6,611	295,405	71	2,974	92,070
New Brunswick.....	5	193		3	127		3	120	
Quebec.....	835	28,763	195,981	696	24,864	168,054	545	20,609	83,506
Ontario.....	22,783	593,980	834,361	10,210	244,368	696,964	5,886	135,004	466,371
Manitoba.....	310	15,024		248	12,300		103	5,309	
Saskatchewan.....	25	1,000							
Alberta.....	58	3,785	335,033	55	1,721	227,305	130	1,322	112,810
British Columbia.....	1,164	40,529	116,965	1,147	38,419	121,075	647	21,332	58,407
Canada.....	25,291	687,070	1,721,815	12,518	328,410	1,508,863	7,385	186,670	813,224

†Includes copings, flue linings, etc.

*Clay sewer pipe is also made from imported clays by the Standard Clay Products Ltd., St. John's, P.Q.

Table 164.—Production of Refractories, from Domestic Clays, by Provinces, 1930-1932

Provinces	Fireclay		Firebrick*		Fireclay blocks and shapes
	Quantity	Value	Quantity	Value	Value
	Tons	\$	M	\$	\$
1930					
Nova Scotia.....	1,269	5,720			525
New Brunswick.....	46	1,814			552
Saskatchewan.....	504	3,920	504	28,001	118,122
Alberta.....	30	450	16	832	
British Columbia.....	1,021	14,071	3,269	148,775	28,110
Canada.....	2,870	25,975	3,789	177,608	147,309
1931					
Nova Scotia.....	65	650	7	240	825
New Brunswick.....	48	1,930			635
Saskatchewan.....	484	3,915	415	24,568	63,603
Alberta.....			24	1,193	
British Columbia.....	636	8,362	1,802	81,596	18,076
Canada.....	1,233	11,857	2,248	107,597	83,039
1932					
Nova Scotia.....	45	280			277
New Brunswick.....	50	1,956			836
Saskatchewan.....	415	3,111	309	15,200	66,688
Alberta.....			11	547	
British Columbia.....	480	6,479	1,260	56,010	7,408
Canada.....	990	11,826	1,580	71,757	75,209

*Firebrick is also made in Canada from imported clays. See Table 173.

Table 165.—Imports into Canada and Exports of Clay and Clay Products, 1930-1932

Imports	Total			United Kingdom			United States		
	1930	1931	1932	1930	1931	1932	1930	1931	1932
CLAY AND ITS PRODUCTS									
CLAYS									
China clay, ground or unground..... cwt.	462,245	366,926	346,270	250,562	229,409	229,283	211,676	136,677	116,978
..... \$	278,757	192,516	154,125	126,551	95,519	89,801	152,200	96,135	64,304
Fireclay, ground or unground..... cwt.	1,147,387	887,033	385,956	27,953	13,232	16,070	1,118,184	873,754	368,772
..... \$	210,233	167,893	101,768	7,920	5,402	7,717	231,276	162,445	93,806
Pipe clay, ground or unground..... \$	9,262	16,804	18,308				9,253	10,804	18,308
Clays, all other, n.o.p..... \$	155,630	152,270	182,258	2,823	2,508	731	151,204	147,221	178,532
Zirconium silicate..... \$	6,092	3,122	1,252				6,092	3,122	1,252
Zirconium oxide..... \$	5,706	7,999	4,574	96			5,810	7,999	4,574
BRICKS AND TILES									
Brick, building..... M	11,707	7,323		301	112		11,406	7,211	
..... \$	255,515	204,903	41,163	11,030	3,609	6,161	244,485	201,294	33,002
Brick, fire, chrome..... \$	73,761	48,230	9,848				73,761	48,230	9,848
Brick, fire, magnesite..... \$	270,150	152,435	71,977	9,878			260,302	150,080	71,077
Brick, fire, containing not less than 90 per cent of silica..... \$	315,639	231,909	122,952	4,781	25,866	7,205	310,055	209,043	115,747
Brick, fire, other, valued at not less than \$100 per M, rectangular-shaped, the dimensions of each not to exceed 125 cubic inches; for use exclusively in the construction or repair of a furnace, kiln or other equipment of a manufacturing establishment..... \$	64,042	60,420	48,133	33	2,020		64,000	58,400	48,133
Brick, fire, n.o.p., for use exclusively in the construction or repair of a furnace, kiln or other equipment of a manufacturing establishment..... \$	1,297,778	711,410	384,250	202,334	97,314	130,056	1,085,967	613,921	254,174

Table 165.—Imports into Canada and Exports of Clay and Clay Products, 1930-1932—Concluded

Imports	Total			United Kingdom			United States		
	1930	1931	1932	1930	1931	1932	1930	1931	1932
CLAY AND ITS PRODUCTS									
—Concluded									
BRICKS AND TILES—Concluded									
Brick, fire, n.o.p. \$	53,682	41,382	37,173	12,082	4,757	17,329	41,388	35,744	19,382
Brick, paving..... M	4,522	3,867	.....	333	1	.....	4,189	3,866	.....
\$	108,357	84,326	14,446	8,273	54	110	100,084	84,272	14,336
Building blocks, partition hollow and fireproof building tile..... \$	131,569	75,276	15,682	11,414	3,585	736	120,155	71,691	14,940
Drain pipes, sewer pipes and earthenware fittings therefor, chimney linings or vents, chimney tops and inverted blocks, glazed or unglazed..... \$	73,872	53,128	10,856	1,307	943	2,723	70,829	51,182	5,794
Drain tiles, not glazed..... \$	2,076	2	317	.....	.....	.....	2,076	2	45
Tiles or blocks of earthenware or stone, prepared for mosaic flooring..... \$	201,081	178,099	41,433	62,828	42,022	14,502	57,623	28,399	5,995
Tiles, earthenware, n.o.p. \$	466,378	378,099	153,697	308,678	223,547	110,504	71,440	42,012	10,456
POTTERY AND CHINAWARE									
Brown or coloured earthen and stoneware, and Rockingham ware..... \$	32,696	26,192	25,503	14,418	15,520	17,336	10,702	10,072	7,076
C.C. or cream-coloured ware, decorated, printed or sponged..... \$	391,155	81,952	79,296	142,235	39,435	35,625	53,353	12,083	7,035
China and porcelain ware, n.o.p. \$	77,163	49,597	37,476	20,273	14,406	9,134	28,279	12,846	14,159
Chinaware to be silver mounted, imported by manufacturers of silverware..... \$	2,863	492	2,624	2,267	.....	5	372	4	.....
Demijohns, churns or crocks \$	12,722	18,762	5,448	1,481	3,756	1,338	6,924	13,326	3,443
Tableware of china, porcelain, white granite or ironstone..... \$	3,481,593	3,134,355	2,866,320	2,480,921	2,381,115	2,280,255	65,281	37,845	19,418
Earthenware, n.o.p. \$	338,357	331,330	219,994	105,923	103,786	92,508	146,304	126,507	40,130
OTHER CLAY PRODUCTS									
Artificial teeth, not mounted..... \$	412,925	489,077	333,114	278	683	632	412,423	486,836	316,029
Baths, bath-tubs, basins, closets, lavatories, urinals, sinks and laundry tubs of earthenware, stone, cement or clay..... \$	574,881	394,080	173,160	375,858	284,911	130,160	198,945	105,860	42,093
Crucibles, clay or sand..... \$	30,723	23,398	27,514	19,876	16,332	20,507	10,437	7,060	6,656
Insulators, electric, porcelain..... \$	335,636	231,206	179,908	7,783	8,086	4,684	306,880	178,303	147,366
Manufactures of clay, n.o.p. \$	167,627	96,344	52,287	19,540	14,774	1,793	146,622	74,137	49,522
Total clay and its products. \$	10,196,681	7,628,558	5,105,750	3,966,890	3,380,950	2,983,642	4,450,331	3,093,775	1,616,668
EXPORTS									
Clays, unmanufactured..... cwt	9,688	8,015	3,031	.....	.....	.....	9,439	7,937	2,915
\$	5,900	4,161	695	.....	.....	.....	5,345	3,965	759
Bricks, building..... M	1,822	1,085	555	.....	.....	.....	1,718	959	468
\$	26,150	21,144	8,011	.....	.....	.....	24,338	19,130	6,968
Porcelain insulators..... \$	349,533	335,742	140,761	230,919	169,093	66,898	642	402	478
Earthenware and manufactures of..... \$	39,931	37,745	33,391	1,900	1,184	428	20,157	26,529	27,523
Clay, manufactures of..... \$	36,696	25,736	13,436	282	18	109	32,486	18,137	10,578
Total clay and its products. \$	449,129	418,528	196,494	239,101	171,195	67,135	82,968	68,163	46,306

CHAPTER TWELVE

THE IMPORTED-CLAY PRODUCTS INDUSTRY

A number of factories in Canada manufacture ceramic products from clays which they import chiefly from England and the United States. Refractories, sanitary earthenware, porcelain insulators, floor tile and pottery are the principal commodities made in these works. The refractories include firebrick, stove linings, boiler linings and special shapes; sanitary earthenware includes bath tubs, water closets, etc.; and pottery includes Rockinghamware such as teapots, bowls, etc., and art pottery such as lamp stands, small vases and novelties.

In 1932 there were 16 factories in operation in this industry as compared with 14 in 1931 but output declined 35 per cent to \$1,590,411 from \$2,455,738 in 1931. Capital employed held steady at \$4,207,767 but the number of workers dropped to 715 from 832 and salaries and wages fell to \$707,269 from \$958,900. Materials for manufacturing cost \$406,441 in 1932 as against \$695,706 in 1931.

Pottery, firebrick, tile, sewer pipe, etc., were also produced in Canada in factories which used only domestic clays for their raw material. Statistics on the manufactures from domestic clays are given in Chapter Eleven of this report.

Table 166.—Principal Statistics by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
1930								
Quebec.....	4	1,905,125	255	324,957	92,825	161,667	679,278	517,611
Ontario.....	11	2,194,840	586	727,329	103,310	672,514	2,298,865	1,626,351
Canada.....	15	4,999,965	841	1,052,286	196,135	834,181	2,978,143	2,143,962
1931								
Quebec.....	4	2,150,763	275	349,424	96,751	191,920	787,838	585,938
Ontario.....	10	2,169,619	557	609,476	80,154	503,786	1,067,880	1,104,094
Canada.....	14	4,320,382	832	958,900	176,902	695,706	2,455,738	1,769,932
1932								
Quebec.....	4	1,952,474	227	275,858	74,163	115,588	682,863	567,277
Ontario.....	12	2,255,293	488	431,411	69,616	290,855	907,548	616,693
Canada.....	16	4,207,767	715	707,269	143,779	406,441	1,590,411	1,183,970

Table 167.—Capital Employed, by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills, and accounts receivable, prepaid expenses, etc.)	Total
	\$	\$	\$	\$	\$
1930					
Quebec.....	1,299,478	258,109		347,538	1,905,125
Ontario.....	1,274,130	397,132		523,578	2,194,840
Canada.....	2,573,608	655,241		871,116	4,099,965
1931					
Quebec.....	1,578,298	127,447	142,533	302,485	2,150,763
Ontario.....	1,240,987	263,928	165,562	499,142	2,169,619
Canada.....	2,819,285	391,375	308,095	801,627	4,320,382
1932					
Quebec.....	1,445,582	95,546	200,361	210,985	1,952,474
Ontario.....	1,456,332	222,775	244,650	331,536	2,255,293
Canada.....	2,901,914	318,321	445,011	542,521	4,207,767

Table 168.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees					Salaries and wages		
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
						\$	\$	\$
1930								
Quebec.....	27	3	219	6	255	67,024	257,933	324,957
Ontario.....	43	21	449	73	586	180,538	546,791	727,329
Canada.....	70	24	668	79	841	247,562	804,724	1,052,286
1931								
Quebec.....	24	3	242	6	275	66,013	283,411	349,424
Ontario.....	45	14	420	78	557	160,754	448,722	609,476
Canada.....	69	17	662	84	832	226,767	732,133	958,900
1932								
Quebec.....	28	3	190	6	227	80,160	195,698	275,858
Ontario.....	46	12	351	79	488	132,969	298,442	431,411
Canada.....	74	15	541	85	715	213,129	494,140	707,269

Table 169.—Wage-Earners, by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January.....	652	87	739	676	83	759	652	85	737
February.....	696	79	745	691	81	772	661	94	755
March.....	659	74	733	705	75	780	661	104	765
April.....	664	70	740	716	79	795	647	98	745
May.....	683	75	758	691	79	770	565	97	662
June.....	674	77	751	685	82	767	595	88	683
July.....	680	79	759	657	91	748	569	87	656
August.....	676	81	757	658	88	746	551	88	639
September.....	660	81	741	641	85	726	466	74	540
October.....	670	79	747	633	83	716	422	70	492
November.....	660	77	737	589	78	667	340	63	403
December.....	659	76	735	613	81	694	334	64	398
Average.....	668	79	747	662	84	746	541	85	626

Table 170.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Coal, anthracite.....	short ton	21	311	18	283	12	180
Coal, bituminous—Canadian.....	short ton	1,000	8,000	4,507	27,549	1,672	10,516
Imported.....	short ton	21,066	148,206	12,587	75,415	10,800	66,914
Coke.....	short ton	442	3,758	378	3,375	595	4,473
Gasoline.....	imp. gal.	81	.....	.....	.....	82	21
Kerosene.....	imp. gal.	237	52	237	41	120	20
Fuel oil.....	imp. gal.	67,618	3,937	291,415	25,384	462,518	30,733
Wood.....	cord	82	719	17	132	38	283
Gas, natural.....	M cu. ft.	26,426	12,467	23,501	11,380	14,999	7,448
Other fuel.....	.....	.....	228	.....	165	.....	54
Electricity purchased.....	k.w.h.	1,311,137	18,457	2,070,273	33,178	1,406,744	23,037
Total.....	.....	.....	196,135	.....	176,902	.....	143,779

Table 171.—Power Employed, 1930-1932

	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines.....	3	380	3	375	3	465
Gasoline, gas and oil engines.....	1	4	1	4	1	4
<i>Total primary power.....</i>	<i>4</i>	<i>384</i>	<i>4</i>	<i>379</i>	<i>4</i>	<i>469</i>
Electric motors run by purchased power....	147	895	158	1,040	161	1,082
Total power employed.....	151	1,379	162	1,419	165	1,551
Electric motors run by primary power in same plant.....	12	127	22	298	20	235
<i>Total electric power.....</i>	<i>159</i>	<i>1,022</i>	<i>180</i>	<i>1,338</i>	<i>181</i>	<i>1,517</i>
Boilers.....	12	975	13	848	14	863

Table 172.—Materials Used in Manufacturing, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Clay.....	ton	12,024	\$ 208,614	7,137	\$ 144,914	5,517	\$ 103,204
Feldspar.....	ton	2,254	51,211	1,885	34,394	1,406	28,043
Fireclay.....	ton	17,319	114,653	22,075	145,856	14,961	83,865
Flint.....	ton	2,816	28,958	1,419	27,853	1,136	18,277
Glazing materials.....			8,036		9,912		6,175
Hardware.....			270,104		219,688		38,609
Containers.....			59,911		60,023		28,537
All other materials.....			92,694		53,066		39,731
Total.....			834,181		695,706		406,441

Table 173.—Products, 1930-1932

Products	Selling value at works		
	1930	1931	1932
	\$	\$	\$
Firebrick and stove linings.....	298,945	280,588	212,838
Porcelain insulators, sanitary ware, sewer pipe, floor tile, tanks, pottery, etc.....	2,679,198	2,175,150	1,377,573
Total.....	2,978,143	2,455,738	1,590,411

Note.—Firebrick, floor tile, sewer pipe and pottery are also made in Canada from domestic clays. See Table 164.

Table 174.—List of Firms Which Made Products in Canada from Imported Clays, 1932

Name	Location of plant	Products made
Bell Fire Brick Co.....	1347 Dufferin St., Toronto, Ont.....	Firebrick; stove linings.
Canada Firebrick Company, Limited.....	4741 St. Ambroise St., Montreal, P.Q.....	Firebrick.
Canada Vitrified Products, Ltd.....	675 Talbot St., St. Thomas, Ont.....	Sewer pipe; firebrick; flue lining.
Canadian General Electric Company, Ltd.....	Peterborough, Ont.....	Porcelain sockets, plugs, etc.; insulators; textile parts; rubber plugs.
Canadian Ohio Brass Company, Limited.....	Niagara Falls, Ont.....	High tension insulators.
Canadian Porcelain Company, Limited.....	Paradise Road, Hamilton, Ont.....	High tension insulators.
Canadian Potteries, Limited.....	St. John's, P.Q.....	Sanitary earthenware; soda fountain fixtures; bathroom accessories.
Dominion Sanitary Pottery Co., Limited.....	St. John's, P.Q.....	Sanitary earthenware; tanks.
Frontenac Floor and Wall Tile Co., Limited.....	Kingston, Ont.....	Floor tile.
Hamilton Potteries, Limited.....	100 Locke St. S., Hamilton, Ont.....	Insulators; firebrick; pottery; miscellaneous products.
National Refractories, Limited.....	Port Robinson, Ont.....	Firebrick.
Smith & Stone, Limited.....	Georgetown, Ont.....	Porcelain sockets, plugs, etc.; insulators.
Smith Potteries, The.....	373 King St. W., Oshawa, Ont.....	Art pottery.
Standard Clay Products, Limited.....	St. John's, P.Q.....	Sewer pipes; firebrick; stove linings.
Turner, C. B.....	Mimico, Ont.....	Boiler lining; firebrick.

CHAPTER THIRTEEN

THE SALT INDUSTRY

Factory sales of salt in Canada during 1932 amounted to 263,543 short tons valued at \$1,947,551 compared with 259,047 tons worth \$1,904,149 in 1931. This represents an increase of 1.7 per cent in quantity and 2.3 per cent in value and not only emphasizes the sound basis upon which this Canadian industry is established but reflects great credit to the salt producers of the Dominion who were able to record progress throughout such a period of adverse industrial conditions.

During 1932 salt was produced in Nova Scotia, Ontario and Manitoba. In Nova Scotia the Malagash Salt Company mined and crushed mineral salt and produced various grades of salt products. At Amherstburg, Ontario, the Brunner, Mond Canada, Limited, produced saturated brine solutions for the manufacture of soda ash. Several grades of salt were manufactured at Sarnia, Ontario, by the Dominion Salt Company; vacuum pans and grainers were employed by this company. Vacuum and open pan processes were utilized by the Goderich Salt Company in the production of various grades of salt at Goderich, Ontario. Canadian Industries Limited, operating at Sandwich, Ontario, employed triple effect vacuum pans for the manufacture of fine salt and grainers for the production of coarse grades; the electrolytic process was utilized by the company in making caustic soda and other chemicals from brine. Exhaust steam was used at Goderich, Ontario, by Western Canada Flour Mills Company in the manufacture of the different salt products marketed by this company. The first official statistics of systematic salt production on a regular commercial scale in Manitoba were recorded in 1932 when the Neepawa Salt Company reported production for the first time. At Simpson, in Saskatchewan, the Simpson Oil Company was reported to be preparing to produce salt in 1933.

The Canadian salt companies now produce an extensive variety of high grade products. Various table salts, including free running and iodized are of equal quality with the better brands produced throughout the world and other grades are manufactured and marketed for dairy, crop, highway, chemical, fishery, and other purposes. It is interesting to note that smoked salt is now produced in Canada. Exports of Canadian salt in 1932 totalled 11,253,900 pounds as against 12,251,700 pounds in 1931, the greater part of this going to the United States, New Zealand and Newfoundland.

The 8 plants which operated in Canada in 1932 employed 345 people and paid out \$455,049 in salaries and wages. There were 6 plants in Ontario, 1 in Nova Scotia and 1 in Manitoba.

Table 175.—Principal Statistics, 1928-1932

Years	Number of plants	Capital employed	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Selling value of products at works
		\$		\$	\$	\$
1928.....	10	4,422,922	455	539,775	252,468	1,495,971
1929.....	8	4,576,543	424	516,453	249,064	1,578,086
1930.....	8	4,685,549	381	455,539	197,313	1,694,631
1931.....	7	4,196,927	363	446,984	184,001	1,904,149
1932.....	8	3,805,008	345	455,049	176,836	1,947,551

Table 176.—Capital Employed, 1928-1932

Years	Value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	Total
	\$	\$	\$	\$	\$
1928.....	3,731,953	235,405		455,564	4,422,922
1929.....	3,865,994	334,338		376,211	4,576,543
1930.....	3,975,855	284,887		424,807	4,685,549
1931.....	3,392,506	181,065	89,549	533,807	4,196,927
1932.....	3,055,911	163,760	80,365	504,972	3,805,008

MANUFACTURES OF NON-METALLIC MINERALS

Table 177.—Employees, Salaries and Wages, 1928-1932

Years	Average number of employees					Salaries and wages		
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1928.....	45	16	358	36	455	117,376	422,399	539,775
1929.....	41	12	329	42	424	102,502	413,951	516,453
1930.....	42	10	290	39	381	107,637	347,902	455,539
1931.....	41	16	268	38	345	112,479	334,505	446,984
1932.....	46	16	246	37	345	133,449	321,600	455,049

Table 178.—Wage-Earners, by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January.....	245	33	278	261	41	302	230	36	266
February.....	197	32	229	249	40	289	239	34	273
March.....	241	40	281	260	40	300	244	37	281
April.....	299	40	339	280	40	320	252	37	289
May.....	308	40	348	290	40	330	257	37	294
June.....	302	39	341	273	38	311	265	37	302
July.....	310	39	349	271	34	305	260	39	299
August.....	292	39	331	280	34	314	256	39	295
September.....	308	38	346	267	35	302	260	38	298
October.....	296	37	333	273	35	308	238	37	275
November.....	265	36	301	255	39	294	238	40	278
December.....	253	36	289	260	39	299	216	39	255
Average.....	290	39	329	268	38	306	246	37	283

Table 179.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Bituminous coal—Canadian.....	short ton	2,500	\$ 11,320	2,210	\$ 10,668	2,808	\$ 11,006
Imported.....	short ton	42,426	171,926	41,160	163,430	36,829	153,285
Fuel oil.....	imp. gal.	63,737	5,408	69,561	5,010	85,008	5,702
Gasoline.....	imp. gal.	.....	.....	.....	.....	80	20
Kerosene.....	imp. gal.	.....	.....	.....	.....	52	10
Electricity purchased.....	k. w. h.	732,256	8,659	454,683	4,893	747,106	6,813
Total.....			197,313		184,001		176,836
Electricity generated for own use	k. w. h.	74,020	.....	132,800	.....	1,764,567	.....

Table 180.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines.....	7	140	7	140	7	140
Gasoline, gas and oil engines.....	4	375	4	375	4	375
<i>Total primary power.....</i>	<i>11</i>	<i>515</i>	<i>11</i>	<i>515</i>	<i>11</i>	<i>515</i>
Electric motors run by purchased power.....	31	366	31	366	31	366
Total power employed.....	42	881	42	881	42	881
Electric motors run by primary power in same plant.....	106	1,246	134	1,412	145	1,758
<i>Total electric power.....</i>	<i>157</i>	<i>1,612</i>	<i>165</i>	<i>1,778</i>	<i>176</i>	<i>2,124</i>
Boilers.....	12	3,615	6	2,715	7	2,735

Table 181.—Production of Salt in Canada, by Grades, 1930-1932

Grades	1930			1931			1932		
	Quantity manufactured	Quantity sold	Value of salt sold (not including packages)	Quantity manufactured	Quantity sold	Value of salt sold (not including packages)	Quantity manufactured	Quantity sold	Value of salt sold (not including packages)
	Tons	Tons	\$	Tons	Tons	\$	Tons	Tons	\$
Table and dairy and pressed blocks.....	56,574	57,122	948,248	57,250	57,294	1,136,378	61,168	60,128	1,194,649
Common fine.....	54,212	55,373	302,526	55,510	57,886	339,459	58,472	59,036	1,435,971
Common coarse.....	44,635	44,149	326,326	44,295	45,326	326,970	44,757	47,499	304,482
Land salt.....	281	281	1,414	542	527	1,861	583	583	2,349
Other grades.....	33	33	173	56	56	259	55	55	258
Brine for chemical works (salt equivalent sold or used).....	114,737	114,737	115,944	97,958	97,958	99,222	96,242	96,242	96,242
Total	270,472	271,695	1,694,631	255,611	259,047	1,901,119	261,277	263,543	1,947,551
Value of packages.....			499,740			491,357			560,413
Grand total	270,472	271,695	2,194,371	255,611	259,047	2,392,476	261,277	263,543	2,507,964

Table 182.—Factory Sales of Salt in Canada, 1922-1932

(For the years 1886 to 1921 see Mineral Production of Canada, 1928)

Year	Tons	Value	Year	Tons	Value
		\$			\$
1922.....	181,794	1,628,323	1927.....	268,672	1,614,667
1923.....	202,397	1,713,516	1928.....	299,445	1,435,971
1924.....	207,979	1,374,780	1929.....	330,264	1,578,086
1925.....	233,746	1,410,697	1930.....	271,695	1,694,631
1926.....	262,547	1,480,149	1931.....	259,047	1,904,149
			1932.....	263,543	1,947,551

Table 183.—Imports into Canada and Exports of Salt, 1930-1932

	Country	1930		1931		1932	
		Tons	Value	Tons	Value	Tons	Value
IMPORTS—	Total	341	21,747	294	16,842	180	10,197
Salt, table, made by an admixture of other ingredients when containing not less than ninety per cent of pure salt.	United Kingdom.....	22	2,354				13
	United States.....	319	19,393	294	16,842	180	10,184
Salt for use of the sea or gulf fisheries.	Total	56,134	195,769	56,166	248,155	27,797	100,939
	United Kingdom.....	415	3,425	484	3,902	1,008	8,726
	United States.....	8,842	66,406	24,544	168,099	4,343	29,841
	British West Indies.....	22,485	64,440	13,235	34,337	8,458	22,272
	Spain.....	21,692	43,089	14,851	25,358	11,622	27,596
	Germany.....			1,952	11,402	1,710	10,013
Salt in bulk, not elsewhere specified.	Total	49,910	169,948	40,323	177,738	39,065	177,623
	United Kingdom.....	1,992	18,572	232	2,791	11	96
	United States.....	35,912	138,054	33,636	145,379	29,133	133,935
	Germany.....	2,766	12,710	5,679	27,755	6,955	35,297
Salt, not elsewhere specified, in bags, barrels and other coverings.	Total	31,273	273,448	31,112	309,293	34,990	387,195
	United Kingdom.....	18,514	169,399	23,491	209,886	28,336	255,779
	United States.....	6,571	86,024	5,411	73,826	2,115	35,037
	Germany.....	3,998	20,471	2,749	18,398	1,351	9,520
Total		124,658	669,963	130,895	751,938	102,832	505,954
EXPORTS—	Total	8,758	74,397	6,126	55,110	5,627	36,248
	United States.....	1,979	9,699	2,882	11,838	3,690	11,673
	Newfoundland.....	3,360	22,173	971	8,540	1,193	10,077
	New Zealand.....	2,169	33,941	1,566	27,450	413	8,974
RE-EXPORTS—	Total	571	5,479	245	2,361	35	398
	United States.....	174	1,607	3	59		
	Newfoundland.....	393	3,791	241	2,192	33	307

Directory of Firms in the Salt Industry in Canada, 1932

Name	Head office address	Location of plant
Brunner, Mond Canada, Ltd.....	501 Dominion Bank Bldg., Toronto, Ont.	Amherstburg, Ont.
Canadian Industries, Limited.....	P.O. Box 1260, Montreal, P.Q.....	Sandwich, Ont., and Kincardine, Ont.
Dominion Salt Co., Ltd., The.....	Sarnia, Ont.....	Sarnia, Ont.
Goderich Salt Co., Ltd.....	Goderich, Ont.....	Goderich, Ont.
Malagash Salt Co., Ltd.....	204 Provost St., New Glasgow, N.S.	Malagash, N.S.
Neepawa Salt Co., Ltd.....	Neepawa, Man.....	Neepawa, Man.
Western Canada Flour Mills Co., Ltd.....	287 Macpherson Ave., Toronto, Ont.	Goderich, Ont.

CHAPTER FOURTEEN

THE SAND-LIME BRICK INDUSTRY

Production from the sand-lime brick industry in Canada was valued at \$153,716 in 1932. Unusual inactivity in the building trades resulted in the 1932 output being the smallest since the commencement of annual records in 1919. Corresponding values for earlier years were: \$540,390 in 1931; \$671,301 in 1930; \$953,726 in 1929; and \$1,112,466 in 1928, which was the record year.

Only 6 factories submitted reports in 1932 compared with 11 in 1931 as 2 plants in Ontario, 2 in Manitoba and 1 in British Columbia did not operate during the year. The number of employees dropped to 75 from 183 in 1931 and salaries and wages declined to \$74,521 from \$207,570. The cost of materials for manufacturing was \$49,106 in 1932 and \$191,572 in 1931.

The 3 establishments in Ontario reported capital at \$405,066, employees at 51, salaries and wages at \$50,067, cost of materials at \$32,292, and the gross value of products at \$100,674.

Production of sand-lime brick in 1932 totalled 10,819 M valued at \$131,440 at the works as compared with 46,003 M at \$469,783 in 1931 and 52,770 M at \$567,022 in 1930.

Table 184.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
1930								
Ontario.....	6	\$ 1,347,741	145	\$ 198,620	\$ 40,650	\$ 165,331	\$ 528,457	\$ 363,126
Quebec.....	2	817,621	80	66,474	10,828	50,590	142,844	92,254
Manitoba.....	2							
British Columbia.....	1							
Canada.....	11	2,165,362	225	265,094	51,478	215,921	671,301	455,390
1931								
Ontario.....	5	941,461	121	144,119	33,448	139,445	383,796	244,351
Quebec.....	2							
Manitoba.....	3							
British Columbia.....	1							
Canada.....	11	1,490,453	183	207,570	43,461	191,572	540,390	348,818
1932								
Ontario.....	3	405,066	51	50,067	11,234	32,292	100,674	68,382
Quebec.....	2	354,145	24	24,454	3,638	16,814	53,042	36,228
Manitoba.....	1							
Canada.....	6	759,211	75	74,521	14,872	49,106	153,716	104,610

Table 185.—Capital Employed, by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, machinery, and tools	Inventory value of materials and supplies on hand and stocks in process	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	Total
1930					
Ontario.....	\$ 762,730	\$ 169,912	\$ 415,099	\$ 415,099	\$ 1,347,741
Other provinces.....	746,366	24,823	46,432	46,432	817,621
Canada.....	1,509,096	194,735	461,531	461,531	2,165,362
1931					
Ontario.....	601,529	13,823	42,172	283,937	941,461
Other provinces.....	493,342	11,139	10,230	34,261	548,992
Canada.....	1,094,871	24,962	52,402	318,198	1,490,453
1932					
Ontario.....	338,052	13,139	5,635	48,240	405,066
Other provinces.....	327,636	6,193	7,950	12,360	354,145
Canada.....	665,688	19,332	13,591	60,600	759,211

Table 186.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees				Salaries and wages			
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
					\$	\$	\$	
1930								
Ontario.....	15	1	129	.....	145	50,793	147,827	198,620
Other provinces.....	6	.....	74	.....	80	10,870	55,804	66,674
Canada.....	21	1	203	.....	225	61,663	203,431	265,294
1931								
Ontario.....	15	1	105	.....	121	43,542	100,577	141,119
Other provinces.....	8	.....	54	.....	62	15,289	48,162	63,451
Canada.....	23	1	159	.....	183	58,831	148,739	207,570
1932								
Ontario.....	7	1	43	.....	51	18,000	32,067	50,067
Other provinces.....	3	.....	21	.....	24	5,000	19,454	24,454
Canada.....	10	1	64	.....	75	23,000	51,521	74,521

Table 187.—Wage-Earners, by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January.....	141	.....	141	197	.....	197	95	.....	95
February.....	135	.....	135	91	.....	91	57	.....	57
March.....	160	.....	160	120	.....	120	53	.....	53
April.....	194	.....	194	143	.....	143	72	.....	72
May.....	202	.....	202	195	.....	195	87	.....	87
June.....	231	.....	231	212	.....	212	57	.....	57
July.....	254	.....	254	208	.....	208	54	.....	54
August.....	209	.....	209	178	.....	178	66	.....	66
September.....	191	.....	191	167	.....	167	65	.....	65
October.....	194	.....	194	185	.....	185	72	.....	72
November.....	193	.....	193	159	.....	159	49	.....	49
December.....	137	.....	137	138	.....	138	34	.....	34
Average.....	203	.....	203	159	.....	159	64	.....	64

Table 188.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Bituminous coal—Canadian.....	short ton	666	\$ 4,016	950	\$ 5,986	399	\$ 2,426
Imported.....	short ton	5,117	29,600	3,904	23,242	1,230	6,856
Lignite—Canadian.....	short ton	.....	.....	70	363	14	140
Electricity purchased.....	k.w.h.	941,650	17,562	778,748	13,890	296,618	5,450
Total.....			51,478		43,461		14,872

Table 189.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines.....	1	125	1	125	.....	.....
Total primary power.....	1	125	1	125	.....	.....
Electric motors run by purchased power.....	47	1,238	53	1,403	39	823
Total power employed.....	48	1,363	54	1,528	39	823
Boilers.....	11	1,498	14	1,883	5	600

Table 190.—Materials Used in Manufacturing, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Quicklime.....	bush.	355,067	125,029	226,132	106,734	84,868	25,919
Sand.....	cu. yd.	81,970	77,793	86,118	82,785	15,891	23,094
Crushed stone.....	cu. yd.	4,875	11,816				
Other materials.....			1,283		2,053		93
Total			215,921		191,572		49,106

Table 191.—Products of the Sand-Lime Brick Industry in Canada, 1930-1932

Products	1930		1931		1932	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
	M	\$	M	\$	M	\$
Sand-lime brick.....	52,770	587,022	46,003	469,783	10,819	131,440
Other products*.....		104,279		70,607		22,276
Total		671,301		540,390		153,716

*Includes ready mixed concrete, cement building blocks, etc., made by producers of sand-lime brick.

Table 192.—Production of Sand-Lime Brick, 1920-1932

Years	Ontario		Other provinces		Total	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
	M	\$	M	\$	M	\$
1920.....	27,997	427,883	11,287	214,013	39,284	641,896
1921.....	36,482	534,531	6,975	128,213	43,457	662,744
1922.....	48,449	786,772	4,300	64,235	52,749	851,007
1923.....	59,080	887,960	1,000	10,000	60,080	897,960
1924.....	54,410	603,275	1,463	15,671	55,873	618,946
1925.....	66,506	820,803	2,363	33,162	68,869	854,055
1926.....	40,869	555,847	3,413	50,562	59,282	606,409
1927.....	61,297	721,485	11,567	143,426	72,864	864,911
1928.....	61,506	745,719	20,765	292,791	82,271	1,038,510
1929.....	60,400	708,584	17,961	245,142	78,361	953,726
1930.....	41,576	424,178	11,194	142,844	52,770	567,022
1931.....	34,100	313,189	11,603	156,594	46,003	469,783
1932.....	6,823	78,398	3,996	53,042	10,819	131,440

Table 193.—Directory of Firms in the Sand-Lime Brick Industry, 1932

Name	Head office address	Location of plant
Canadian Carborundum Company, Limited.....	P.O. Box 65, Niagara Falls, Ont.....	St. Canut, P.Q.
Standard Lime Company, Limited.....	Joliette, P.Q.....	1505 St. Gregoire St., Montreal, P.Q.
Harbour Brick Co., Ltd.....	Fleet and Bathurst Sts., Toronto, Ont.	Toronto, Ont.
Hinde Bros.....	134 Northland Ave., Mount Dennis, Ont.	Mount Dennis, Ont.
Toronto Brick Company, Limited.....	897 Bay St., Toronto, Ont.....	Scarboro Township, Ont
Winnipeg Brick Co., Ltd.....	320 Osborne St., Winnipeg, Man.....	Winnipeg, Man.

CHAPTER FIFTEEN

THE MONUMENTAL AND ORNAMENTAL STONE INDUSTRY

The stone industry in Canada consists of two main divisions: (a) *The Stone Quarrying Industry*, including quarries and dressing works operated in conjunction with quarries, and (b) *The Monumental and Ornamental Stone Industry*, comprising the operations of firms having no quarries, but who operate dressing works where stone for building and monumental purposes is cut, polished or otherwise finished. Statistics for the second of these divisions are given in detail herewith. Detailed data for the first division are included under the mining industry and do not come within the scope of this report; however, a number of tables relating to this phase of the industry have been appended to this chapter in order to round out the story.

Production from stone dressing works, operated separately from quarries, amounted in value to \$2,961,914 in 1932. This output was 50 per cent under the 1931 total of \$5,989,372 which in turn was 28 per cent under the record output of \$8,355,605 in 1930. During 1932 the number of plants engaged solely in the cutting or dressing of stone for building or monumental purposes was 206. Of this total 109 were located in the province of Ontario, 42 in Quebec, 15 in Manitoba, 10 in British Columbia, 9 in Nova Scotia, 6 in New Brunswick, 8 in Saskatchewan, 5 in Alberta, and 2 in Prince Edward Island. These concerns had an aggregate operating capital of \$5,828,109 and afforded work each month of the year to an average of 1,003 people who were paid \$1,200,214 in salaries and wages. Unfinished stone bought for cutting or dressing during the year cost \$928,572 at the works.

The Canadian stone industry as a whole in 1932 included the operations of 525 plants with a total capital investment of \$22,555,690. Production during the year was valued at \$6,975,553, which included the value of the quarry output and the value added by manufacturing in the secondary stone industry. Salaried employees and wage-earners employed in 1932 numbered 3,512 persons and their combined earnings amounted to \$3,251,609.

The total imports of stone during 1932 were valued at \$323,692, a decrease of 66 per cent from the 1931 importations of \$950,642.

Exports of Canadian stone declined 35 per cent to a value of \$124,807 as compared with \$192,365 recorded for 1931.

Table 194.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
Prince Edward Island and Nova Scotia.....	13	159,498	51	55,578	3,800	67,743	200,387	132,644
New Brunswick.....	11	109,781	75	86,739	6,405	54,767	174,082	119,315
Quebec.....	44	1,140,582	438	719,990	37,034	449,268	1,618,065	1,168,797
Ontario.....	118	4,877,397	1,036	1,757,643	81,018	1,888,305	5,421,029	3,532,724
Manitoba.....	15	425,950	128	157,337	6,543	114,307	307,306	193,089
Saskatchewan.....	8	220,600	46	58,828	4,558	51,350	163,426	112,076
Alberta.....	5	294,241	74	78,842	2,645	72,809	217,822	145,013
British Columbia.....	12	180,638	71	129,920	5,456	61,321	253,398	192,077
Canada.....	226	7,468,687	1,919	3,044,877	147,459	2,759,870	8,355,605	5,595,735

Table 194.—Principal Statistics, by Provinces, 1930-1932—Concluded

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electr. c. by at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$	\$
1931								
Prince Edward Island and Nova Scotia	13	313,214	97	100,962	9,717	88,785	356,821	268,036
New Brunswick	8	77,396	28	33,999	1,969	18,361	78,458	60,097
Quebec	45	927,308	274	394,210	34,309	282,767	958,042	675,275
Ontario	118	4,538,218	807	1,305,582	71,701	1,139,911	3,853,865	2,713,954
Manitoba	14	384,474	81	103,704	6,750	90,544	239,676	149,432
Saskatchewan	8	200,511	37	43,097	3,881	38,242	118,100	79,858
Alberta	5	251,558	45	41,936	1,497	25,480	106,761	81,281
British Columbia	12	188,156	67	121,473	6,311	86,469	277,349	190,880
Canada	223	6,880,835	1,436	2,145,023	136,135	1,770,559	5,989,372	4,218,813
1932								
Prince Edward Island and Nova Scotia	11	154,699	40	39,135	3,269	50,702	132,493	81,791
New Brunswick	6	72,807	24	24,919	1,922	9,611	51,343	41,732
Quebec	42	1,018,236	205	224,692	32,117	157,480	504,295	346,815
Ontario	109	3,711,781	576	742,743	55,639	597,391	1,881,313	1,283,922
Manitoba	15	296,018	54	57,579	6,437	50,734	143,612	92,878
Saskatchewan	8	170,093	33	34,007	3,064	23,321	70,756	47,435
Alberta	5	250,830	35	32,623	2,687	17,058	94,836	77,778
British Columbia	10	147,645	36	44,510	2,918	22,275	83,266	60,991
Canada	206	5,828,109	1,063	1,200,214	108,653	928,572	2,961,914	2,033,342

Table 195.—Principal Statistics According to Production Values, and Number of Employees, 1931 and 1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value at works	Number of plants	Capital employed	Number of employees	Selling value at works
(a) Production values		\$		\$		\$		\$
Under 5,000	58	283,464	65	152,346	70	462,753	103	190,758
5,000 to 10,000	57	507,941	99	412,889	62	794,059	129	461,482
10,000 to 25,000	65	1,343,331	252	990,984	46	1,054,430	205	714,369
25,000 to 50,000	22	839,731	197	755,038	18	1,117,589	217	619,520
50,000 to 100,000	9	802,576	218	642,154	7	1,110,169	189	473,500
100,000 to 250,000	9	1,161,574	346	1,474,373	3	1,289,109	160	590,285
Over 250,000	3	1,942,218	259	1,561,588				
Total	223	6,880,835	1,436	5,989,372	206	5,828,109	1,063	2,961,914
(b) Number of employees								
1 or 2	125	930,499	159	803,699	116	899,981	153	636,177
3 to 10	67	1,620,366	325	1,161,739	68	1,576,083	308	918,754
11 to 20	12	561,380	161	482,327	11	919,409	157	403,385
21 to 50	14	1,778,668	402	1,727,825	11	2,432,630	385	1,003,598
Over 50	5	1,989,922	389	1,813,782				
Total	223	6,880,835	1,436	5,989,372	206	5,828,109	1,063	2,961,914

Table 196.—Capital Employed, by Provinces and by Classes, 1930-1932

Provinces	Value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process fuel and other supplies in hand	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	Total
1930					
Prince Edward Island and Nova Scotia	\$ 77,587	\$ 54,238	\$	\$ 27,673	\$ 159,498
New Brunswick	74,721	63,675		31,385	169,781
Quebec	469,610	305,364		365,608	1,140,582
Ontario	2,719,808	874,896		1,282,693	4,877,397
Manitoba	131,373	135,890		158,687	425,950
Saskatchewan	76,792	63,005		80,803	220,600
Alberta	131,257	59,043		103,941	294,241
British Columbia	74,001	43,949		62,688	180,638
Canada	3,755,149	1,600,960		2,113,478	7,468,587
1931					
Prince Edward Island and Nova Scotia	202,388	51,504	18,887	40,435	313,214
New Brunswick	37,825	17,312	19,728	11,531	77,396
Quebec	444,834	178,270	138,536	165,668	927,308
Ontario	2,255,539	882,391	262,767	1,137,521	4,538,218
Manitoba	78,766	96,673	16,047	192,988	384,474
Saskatchewan	64,204	50,703	20,900	64,704	200,511
Alberta	129,521	16,130	35,474	79,433	251,558
British Columbia	88,018	31,871	14,220	51,047	188,156
Canada	3,301,955	1,324,854	517,559	1,737,327	6,880,835
1932					
Prince Edward Island and Nova Scotia	71,088	40,181	8,350	35,080	154,699
New Brunswick	33,325	19,006	18,669	19,807	72,807
Quebec	491,803	259,441	73,127	193,865	1,018,236
Ontario	2,322,540	992,269	295,936	681,036	3,711,781
Manitoba	74,519	99,778	14,034	107,687	236,018
Saskatchewan	62,040	36,249	17,301	54,503	170,093
Alberta	134,011	18,264	25,517	79,038	256,830
British Columbia	65,028	28,667	9,285	44,665	147,615
Canada	3,254,354	994,855	372,219	1,296,691	5,828,109

Table 197.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees				Salaries and wages			
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1930								
Prince Edward Island and Nova Scotia	4		47		51	\$ 6,400	\$ 49,178	\$ 55,578
New Brunswick	13	3	58	1	75	19,039	66,800	86,739
Quebec	48	3	387		438	117,030	602,360	719,390
Ontario	156	25	853	2	1,036	358,687	1,398,956	1,757,643
Manitoba	23	5	100		128	37,573	119,764	157,337
Saskatchewan	13	2	31		46	20,382	38,446	58,828
Alberta	6	7	53	8	74	18,343	90,399	108,742
British Columbia	9	1	61		71	22,376	107,544	129,920
Canada	272	46	1,590	11	1,919	601,330	2,143,547	3,044,877
1931								
Prince Edward Island and Nova Scotia	7		89	1	97	11,760	89,202	100,962
New Brunswick	6	3	19		24	11,537	22,462	33,999
Quebec	50	4	220		271	108,724	285,486	394,210
Ontario	144	25	633	5	807	314,525	991,057	1,305,582
Manitoba	19	6	56		81	37,114	66,650	103,764
Saskatchewan	15	1	20		37	20,058	23,039	43,097
Alberta	5	6	34		45	12,391	29,545	41,936
British Columbia	10	1	56		67	25,320	96,153	121,473
Canada	256	46	1,127	7	1,436	541,429	1,693,594	2,145,023
1932								
Prince Edward Island and Nova Scotia	10		30		40	12,480	26,655	39,135
New Brunswick	7	3	14		24	13,154	11,765	24,919
Quebec	46	1	157	1	205	79,022	144,770	223,792
Ontario	147	21	495	3	576	246,833	495,912	742,745
Manitoba	18	3	39	1	54	19,372	38,207	57,579
Saskatchewan	15	1	16	1	33	17,327	16,680	34,007
Alberta	6	6	23		35	12,619	20,004	32,623
British Columbia	13	1	22		36	21,586	22,930	44,516
Canada	255	36	706	6	1,003	423,291	776,923	1,200,214

Table 198.—Wage-Earners, by Months, 1930-1932

(On the 15th day of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	1,276	10	1,286	1,080	4	1,084	614	3	617
February	1,318	10	1,328	952	4	956	622	4	626
March	1,413	11	1,424	1,032	4	1,036	670	4	674
April	1,512	11	1,523	1,135	4	1,139	795	4	799
May	1,578	12	1,590	1,290	6	1,296	938	5	943
June	1,612	12	1,624	1,314	6	1,320	904	6	910
July	1,732	12	1,744	1,330	6	1,336	757	6	763
August	1,751	12	1,763	1,160	6	1,166	724	6	730
September	1,824	12	1,836	1,129	5	1,131	679	6	685
October	1,704	11	1,715	1,111	5	1,116	637	5	642
November	1,458	10	1,468	982	5	987	565	4	569
December	1,323	6	1,329	864	5	869	395	4	399
Average	1,596	11	1,601	1,127	7	1,134	706	6	712

Table 199.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Anthracite coal	short ton	465	5,398	355	4,468	288	3,355
Bituminous coal—Canadian	short ton	152	1,466	212	1,521	143	1,051
Imported	short ton	487	3,960	153	1,717	157	1,320
Lignite—Canadian	short ton	112	1,297	146	1,050	123	1,076
Imported	short ton					38	338
Coke	short ton	401	4,137	390	3,576	208	2,066
Gasoline	imp. gal.	6,846	2,020	3,623	933	4,553	1,287
Kerosene	imp. gal.	502	150	80	20	50	13
Fuel oil	imp. gal.	20,529	1,358	46,785	2,673	41,165	2,367
Wood	cord	305	1,871	277	1,442	263	1,299
Gas—Manufactured	M cu. ft.					276	159
Natural	M cu. ft.	1,489	1,037	1,152	1,163	1,220	749
Other fuel							40
Electricity purchased	k.w.h.	6,657,908	124,755	5,560,762	117,572	4,012,228	92,933
Total			147,459		136,135		108,653

Table 200.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total horse power	Number of units	Total horse power	Number of units	Total horse power
Gasoline, gas and oil engines	14	165	8	94	6	105
Electric motors run by purchased power	566	9,041	612	8,933	646	9,447
Total power employed	580	9,206	620	9,027	652	9,552
Boilers installed	2	35	3	185	5	345

Table 201.—Cost of Stone Used, 1930-1932

	Cost at works		
	1930	1931	1932
	\$	\$	\$
Cost of all stone used	2,759,870	1,697,909	870,036
All other materials		72,850	58,536
Total	2,759,870	1,770,559	928,572

Table 202.—Products, 1930-1932

Products	Selling value at works		
	1930	1931	1932
	\$	\$	\$
Granite, cut and polished—(a) Monuments	1,815,143	1,584,099	1,164,283
(b) For building purposes	902,519	1,032,202	79,136
Marble, cut and polished—(a) Monuments	350,323	257,668	180,323
(b) For building purposes	1,339,108	1,054,952	339,627
Marble chips and dust	29,625	5,513	5,191
Limestone—(a) Monuments and bases	319,472	43,584	43,652
(b) For building purposes	2,706,390	1,372,121	636,294
Finished monuments lettered only	816,308	613,593	487,286
Other products	76,717	25,640	26,122
Total	8,355,605	5,989,372	2,961,914

Table 203.—Imports into Canada and Exports of Stone, 1930-1932

Items	1930		1931		1932	
	Tons	\$	Tons	\$	Tons	\$
IMPORTS—						
Building stone, other than marble or granite, sawn on more than two sides, but not sawn on more than four sides	139	2,029	837	7,824	18	275
Building stone other than marble or granite, planed, turned, cut or further manufactured than sawn on four sides	1,467	78,904	110	3,544	7	796
Flagstone, sandstone, and all building stone, not hammered, sawn or chiselled		309,930		150,593		32,887
Flagstone and building stone, other than marble or granite, sawn on not more than two sides		107,783		20,377		1,758
Granite, sawn only		8,999		3,815		7,689
Granite, manufactures of, n.o.p.		42,158		19,848		11,240
Granite monuments		132,622		94,806		68,466
Granite, rough, not hammered or chiselled		78,233		50,599		48,351
Paving blocks		2,876		25		626
Marble, rough, not hammered or chiselled		243,621		90,526		18,048
Marble, sawn or sand rubbed, not polished		264,869		144,071		27,132
Marble, not further manufactured than sawn for tombstones				7,165		12,323
Marble, manufactures of, n.o.p.		170,001		96,363		30,721
Refuse stone	303,462	233,182	237,373	197,810	33,388	28,559
Manufactures of stone, n.o.p.		65,301		62,376		34,221
Total		1,740,508		950,612		323,692
EXPORTS—						
Crushed stone	136,837	235,406	74,244	135,140	43,993	80,451
Granite and marble, unwrought	1,768	21,913	2,938	52,058	2,133	41,172
Freestone, limestone, and other building stone, unwrought	2,149	15,829	305	2,087	20	100
Dressed stone		4,110		3,080		3,084
Total		277,258		192,365		124,807

Primary Production (From the Annual Report on the *Mineral Production of Canada*.)—

The Stone Quarrying Industry.—Shipments of stone from Canadian quarries during 1932 amounted to 4,690,922 tons valued at \$4,938,461 as compared with 8,397,860 tons worth \$11,070,184, produced in 1931. The 1932 production consisted of 3,687,241 tons of limestone, 490,822 tons of granite, 500,480 tons of sandstone, and 12,379 tons of marble. Limestone was produced in all provinces except Prince Edward Island and Saskatchewan; granite in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba and British Columbia; sandstone in Nova Scotia, New Brunswick, Quebec, Ontario, and British Columbia; and marble in Quebec, Ontario, and British Columbia. Quebec was the leading stone producing province accounting for 48 per cent of the total tonnage shipped; Ontario followed with 41 per cent; and the other provinces in order of tonnage produced were British Columbia, Manitoba, Nova Scotia, New Brunswick and Alberta.

The 319 firms which operated in the stone quarrying industry in Canada during 1932 reported a total capital investment of \$16,727,481. Employment was furnished 2,509 salaried employees and wage-earners whose earnings totalled \$2,051,395. Fuel used during the year cost \$120,325 of which \$14,319 was expended for 2,006 tons of Canadian coal, \$52,514 for 8,183 tons of imported coal, and lesser amounts for coke, gasoline, kerosene, fuel oil, and wood. Electricity purchased in 1932 amounted to 24,508,215 k.w.h. costing \$300,256.

Table 204.—Principal Statistics of the Stone Quarrying Industry in Canada, 1930-1932

	1930	1931	1932
Number of quarries.....	305	329	319
Capital employed.....	\$ 22,192,888	18,860,796	16,727,481
Number of employees—On salary.....	331	329	250
On wages.....	5,801	3,869	2,259
Total.....	6,132	4,198	2,509
Salaries and wages—Salaries.....	\$ 717,363	659,879	470,583
Wages.....	\$ 4,824,848	3,810,820	1,580,812
Total.....	\$ 5,542,211	4,470,699	2,051,395
Cost of fuel and electricity.....	\$ 696,810	625,673	420,581
Selling value of products.....	\$ 13,034,209	11,075,184	4,942,211

Table 205.—Production of Stone in Canada, by Kinds and by Provinces, 1930-1932

Province	Granite		Limestone		Marble		Sandstone	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1930		\$		\$		\$		\$
Nova Scotia.....	7,856	38,107	79,941	88,543			64,606	193,664
New Brunswick.....	46,209	139,212	40,262	97,841			25,141	47,816
Quebec.....	711,943	2,042,783	2,811,300	2,774,539	11,619	717,362	283,264	218,102
Ontario.....	856,124	876,110	4,524,661	3,876,527	7,345	51,085	8,103	46,806
Manitoba.....		146,316		1,075,485		762		9,994
Alberta.....		7,786		17,236			117	4,500
British Columbia.....	229,000	283,739	122,409	145,443	6,363	31,141	3,319	258,172
Canada	1,851,132	3,379,951	7,732,675	8,075,616	26,089	809,582	384,610	769,060
1931								
Nova Scotia.....	24,895	72,009	21,684	69,413			36,602	84,208
New Brunswick.....	2,583	148,881	35,378	73,398			24,364	119,712
Quebec.....	727,354	1,987,589	2,675,186	2,774,060	14,919	624,356	848,070	507,037
Ontario.....	133,905	232,557	3,215,697	2,594,328	4,323	29,173	5,439	25,386
Manitoba.....			152,858	630,226		390		6,423
Alberta.....			2,429	5,842			67	3,800
British Columbia.....	302,150	322,014	159,198	152,269	810	8,761	9,559	592,740
Canada	1,190,887	2,763,650	6,262,439	6,365,538	20,442	668,713	924,161	1,332,883
1932								
Nova Scotia.....	3,635	18,461	9,974	27,990			21,052	40,856
New Brunswick.....	4,369	102,699	10,707	31,554			1,729	20,665
Quebec.....	143,520	541,689	1,622,802	1,337,688	9,832	206,502	470,671	275,022
Ontario.....	73,272	186,357	1,825,793	1,419,049	2,065	40,175	4,008	9,435
Manitoba.....	18	232	78,405	299,050				
Alberta.....			1,428	2,985				
British Columbia.....	266,008	261,144	139,132	109,399	482	4,029	3,020	3,480
Canada	490,822	1,110,582	3,687,241	3,227,715	12,379	250,766	590,450	349,458

NOTE.—In addition to the above there was some slate produced in British Columbia; in 1932 the output was 250 tons at \$3,750 and in 1931 it was 250 tons at \$5,000.

Table 206.—Production of Stone in Canada, by Kinds, Showing Purposes for Which Used, 1932

For use as follows	Granite		Limestone		Marble		Sandstone	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$
Building—								
Rough.....	6,131	17,272	25,073	104,391			5,484	19,766
Dressed.....	12,469	336,632	11,173	348,187	1,951	188,743	670	20,580
Monumental and ornamental—								
Rough.....	4,423	39,522	9	106	965	36,414		
Dressed.....	2,477	196,071	211	2,532				
Flagstone.....	428	2,282	67	67			65	473
Curbstone.....	5,745	26,391						
Paving blocks.....	2,261	17,452						
Lining open-hearth furnaces.....			173	302				
Chemical—								
Flux in iron and steel plants.....			52,463	40,279				
Flux in smelters.....			38,935	30,180				
Glass factories.....			958	1,437				
Pulp and paper mills.....			97,623	92,027	1,713	1,421		
Sugar refineries.....			27,580	20,837				
Other chemical uses.....			7,694	2,030				
Whiting.....			37	681	2,195	1,756		
Asphalt filler.....			20,313	57,400				
Dusting coal mines.....			2,829	13,554				
Agricultural purposes.....			67,924	92,454				
Poultry grit.....	3	69	2,367	4,789	792	4,130		
Stucco dash.....			91	616	2,378	12,996		
Terrazzo flooring.....			4,745	3,084	700	4,688		
Rubble and riprap.....	276,892	237,349	118,946	62,364	1,685	558	15,322	16,082
Crushed stone—								
Concrete aggregate.....	30,419	25,134	1,450,927	1,049,305			448,410	245,559
Road metal.....	149,574	212,408	1,667,268	1,215,464			30,529	46,998
Railroad ballast.....			89,835	84,930				
Total.....	496,822	1,116,582	3,687,241	3,227,715	12,379	250,706	500,496	349,458

NOTE.—In addition to the above 250 tons of slate valued at \$3,750 were produced in British Columbia.

CHAPTER SIXTEEN

THE MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY

Statistics for the miscellaneous non-metallic mineral products industry cover the operation of those concerns which manufactured articles from non-metallic minerals but which could not be classified to any of the special industries as reviewed in previous chapters. In 1932 there were 31 plants in the miscellaneous industry of which 8 made gypsum wallboard and other gypsum products, 6 made foundry facings, core oil, etc., 5 made asphalt emulsions, 2 made carbon electrodes, 1 made mica plate, etc., 1 made tarvalithic for roadmaking, 1 made frit for enamelling, 1 made asphalt battery boxes, 1 made wax and chalk crayons, 1 made tailors' wax chalk, 1 pulverized non-metallic ores for fillers, etc., 1 made refractory cements, 1 calcined petroleum coke, and 1 made buffs and brushes.

These concerns employed capital amounting to \$7,561,645 of which \$5,557,374 was invested in land, plants and equipment. The average number of employees was 531 including 120 on salaries and 411 on wages. Payments for salaries and wages during the year totalled \$531,444. Materials used in manufacturing cost \$872,048 and the value of products was \$2,759,709.

The 3 firms engaged in making gypsum products operated 8 individual plants, 1 being in New Brunswick, 1 in Quebec, 2 in Ontario, 2 in Manitoba, 1 in Alberta, and 1 in British Columbia. An average of 232 workers were employed in these factories in 1932 and production of wallboard, blocks, tile, etc., was valued at \$1,222,004. This output does not include the hardwall plaster made by gypsum mining companies as it is not possible to separate the calcining operations of these concerns from the mining and so all data pertaining thereto have been included in the gypsum mining industry, for which data have been appended to this chapter.

Production of foundry facings and partings was valued at \$39,963 in 1932, core oil at \$13,306, and core compounds at \$9,851. The 6 works which manufactured these foundry supplies employed 35 persons throughout the year. Capital was reported at \$473,305, salaries and wages at \$40,803, the cost of materials at \$41,154, and the total value of products at \$84,066.

Asphalt emulsions were made by 3 companies in 5 plants. Output was worth \$166,796 at factory prices. Only 35 workers were employed and payments in salaries and wages amounted to \$62,150.

For the other commodities made in this industry the details of production cannot be shown separately because of the fact that there were only one or two producers in each case.

Table 207.—Distribution of Plants by Provinces and Principal Groups, 1932

Provinces	Gypsum products	Carbon electrodes	Foundry facings and supplies	Mica products	Miscellaneous	Total
New Brunswick.....	1					1
Quebec.....	1	1	1	1	6	10
Ontario.....	2	1	5		7	15
Manitoba.....	2					2
Alberta.....	1					1
British Columbia.....	1				1	2
Canada.....	8	2	6	1	14	31

Table 208.—Principal Statistics, by Provinces, 1930-1932

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works	Value added by manufacturing
1930		\$		\$	\$	\$	\$	\$
Quebec	7	5,254,923	391	402,106	146,593	854,478	1,829,400	974,922
Ontario	12	3,057,070	285	370,636	54,776	562,263	1,683,182	1,120,919
Other provinces	5	2,885,046	108	152,398	25,461	313,836	662,020	348,184
Canada	24	11,197,039	784	925,140	226,830	1,730,577	4,174,602	2,444,025
1931								
Quebec	10	5,309,127	250	307,605	132,513	645,849	1,892,354	1,246,505
Ontario	16	2,288,597	261	320,587	66,516	371,325	1,373,457	1,002,132
Other provinces	5	829,378	71	87,276	19,052	186,309	461,347	274,978
Canada	31	8,427,102	582	715,468	218,081	1,203,543	3,727,158	2,523,615
1932								
Quebec	10	4,143,542	208	232,653	83,177	399,887	1,101,523	701,636
Ontario	15	2,421,470	241	214,510	60,853	301,119	1,246,253	945,034
Other provinces	6	996,633	82	84,281	17,377	171,042	411,933	240,891
Canada	31	7,561,645	531	531,444	161,407	872,048	2,759,709	1,887,661

Table 209.—Principal Statistics According to Production Values and Number of Employees, 1931 and 1932

	1931				1932			
	Number of plants	Capital employed	Number of employees	Selling value of products	Number of plants	Capital employed	Number of employees	Selling value of products
(a) Number of employees		\$		\$		\$		\$
10 and under	18	925,954	88	537,506	19	1,251,216	109	465,982
11 to 20	6	979,606	86	574,428	6	1,040,178	82	529,292
Over 20	7	6,521,482	408	2,015,224	6	5,270,251	340	1,704,435
Total	31	8,427,102	582	3,727,158	31	7,561,645	531	2,759,709
(b) Production values								
Under 25,000	6	182,343	25	88,914	13	638,716	82	158,036
25,000 to 50,000	12	889,632	87	414,209	8	982,382	64	307,291
50,000 to 100,000	5	617,832	68	296,265	4	516,541	57	349,255
100,000 to 250,000	5	1,484,956	111	759,168	2	430,571	36	316,184
Over 250,000	3	5,252,339	291	2,198,602	4	4,993,435	292	1,628,943
Total	31	8,427,102	582	3,727,158	31	7,561,645	531	2,759,709

Table 210.—Capital Employed, by Classes and by Provinces, 1930-1932

Provinces	Value of lands, buildings, machinery and equipment	Inventory value of materials on hand and stocks in process	Inventory value of finished products on hand	Operating capital (cash, bills receivable, etc.)	Total
1930	\$	\$	\$	\$	\$
Quebec	4,182,788		768,411	303,724	5,254,923
Ontario	1,917,226		371,576	768,268	3,057,070
Other provinces	2,479,476		237,870	167,700	2,885,046
Canada	8,579,490		1,377,857	1,239,692	11,197,039
1931					
Quebec	4,301,366	530,908	67,488	409,365	5,309,127
Ontario	1,193,421	262,492	55,138	777,546	2,288,597
Other provinces	528,801	44,361	100,834	149,382	829,378
Canada	6,023,588	837,761	229,460	1,336,293	8,427,102
1932					
Quebec	3,305,700	405,965	54,647	287,230	4,143,542
Ontario	1,373,741	317,210	67,163	663,356	2,421,470
Other provinces	787,933	68,230	45,566	64,904	996,633
Canada	5,557,374	791,405	167,376	1,045,490	7,561,645

Table 211.—Employees, Salaries and Wages, by Provinces, 1930-1932

Provinces	Average number of employees					Salaries and wages		
	On salaries		On wages		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
						\$	\$	\$
1930								
Quebec	37	7	207	140	391	105,010	297,096	492,106
Ontario	64	12	207	2	285	140,188	230,448	370,636
Other provinces	15	1	92		108	30,988	121,410	152,398
Canada	116	20	506	142	784	276,186	648,954	925,140
1931								
Quebec	38	8	187	17	250	106,630	200,075	307,605
Ontario	63	14	180	4	261	143,486	177,101	320,587
Other provinces	12	1	58		71	30,990	56,286	87,276
Canada	113	23	425	21	582	281,106	433,462	715,468
1932								
Quebec	41	7	142	18	298	96,484	136,169	232,653
Ontario	40	14	184	3	241	95,249	119,261	214,510
Other provinces	14	4	64		82	33,816	50,465	84,281
Canada	95	25	390	21	531	225,549	385,895	531,444

Table 212.—Wage-Earners by Months, 1930-1932

(On 15th of each month or nearest representative date)

Months	1930			1931			1932		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	491	126	617	426	22	448	423	22	445
February	492	126	618	437	21	458	395	23	418
March	520	147	667	449	22	471	411	21	432
April	529	131	660	479	22	501	443	13	456
May	568	130	698	470	17	487	401	22	423
June	552	128	675	435	16	451	384	25	409
July	521	147	668	443	15	458	390	26	416
August	513	144	657	428	18	446	361	24	385
September	500	154	654	403	21	424	391	19	410
October	470	156	626	412	21	433	400	20	420
November	438	171	609	374	26	400	363	13	376
December	431	103	534	358	25	383	320	19	339
Average	506	112	618	425	21	446	390	21	411

Table 213.—Fuel and Electricity Used, 1930-1932

Kinds	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
Coal, anthracite	short ton	53	\$ 688	63	\$ 628	49	\$ 450
Coal, bituminous—Canadian	short ton	625	4,334	544	3,534	1,613	7,160
Imported	short ton	7,735	47,749	5,466	33,821	3,447	20,178
Coal, lignite—Canadian	short ton			150	1,353	190	1,447
Coke	short ton	545	4,792	284	2,809	10	100
Gasoline	imp. gal.			25	6	30	8
Kerosene	imp. gal.	20	4	25	9	30	7
Fuel oil	imp. gal.	618,266	27,376	357,349	15,348	441,298	17,378
Wood	cord	3	17	1	6		
Gas—Manufactured	M cu. ft.	539	596	1,815	1,159	663	582
Natural	M cu. ft.	10,330	2,677	10,119	3,147	5,686	1,941
Electricity purchased	k.w.h.	51,064,663	138,597	49,668,287	156,261	32,437,071	112,456
Total			226,830		218,061		161,407

Table 214.—Power Employed, 1930-1932

Kinds	1930		1931		1932	
	Number of units	Total horse power	Number of units	Total horse power	Number of units	Total horse power
Steam engines and turbines.....	1	10	2	100	.....	.....
Gasoline, gas and oil engines.....	1	25	1	3	1	3
Total primary power.....	2	35	3	103	1	3
Electric motors run by purchased power...	552	8,806	641	8,907	680	9,406
Total power employed.....	554	8,841	644	9,010	681	9,409
Electric motors run by primary power.....	9	106	11	139	11	139
Total electric motors.....	561	8,912	652	9,046	691	9,545
Boilers.....	8	915	13	1,265	13	1,265

Table 215.—Materials Used, 1930-1932

Materials	Unit of measure	1930		1931		1932	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
GYPSUM PRODUCTS GROUP—							
Crude gypsum.....	ton	38,106	141,972	31,170	136,333	19,805	69,422
Calcined gypsum.....	ton	47,660	161,530	16,483	97,410	25,456	140,036
Clay.....	ton	273	3,466	582	11,473	68	1,224
Glue.....	.....	.....	.....	.....	.....	.....	5,724
Hair.....	lb.	172,415	10,770	111,227	7,400	131,021	6,595
Paper.....	ton	4,903	319,853	1,315	81,325	1,956	93,705
Retarder.....	lb.	360,432	11,640	250,052	7,243	237,659	6,277
Sawdust or shavings.....	lb.	1,611,600	6,446	855,403	3,895	310,605	2,251
Starch or paste.....	lb.	429,407	31,977	214,101	13,240	132,749	10,321
Other materials.....	.....	.....	30,021	.....	41,965	.....	34,274
Containers, etc.....	.....	.....	125,443	.....	37,964	.....	64,140
Total.....	.....	.....	846,118	.....	437,748	.....	433,969
OTHER GROUPS—							
Asphalt.....	imp. gal.	101,890	9,923	739,641	55,180	846,688	60,503
Coke, petroleum.....	ton	24,516	339,257	17,971	289,528	10,372	141,578
Carbon, scrap.....	ton	1,201	13,620	475	5,245	304	4,048
Electrodes, scrap.....	ton	3,683	80,826	3,115	35,749	1,374	24,082
Graphite.....	ton	176	13,757	102	5,045	127	5,898
Linseed oil.....	imp. gal.	35,921	25,432	20,943	13,177	12,078	5,509
Mica.....	lb.	227,293	46,308	.....	10,099	10,100	4,290
Pitch.....	ton	6,750	132,796	4,731	93,054	3,138	55,721
Tar.....	imp. gal.	132,118	8,598	57,718	3,315	92,888	5,044
Wax.....	.....	.....	4,393	.....	4,284	.....	5,475
Other materials.....	.....	.....	194,088	.....	244,987	.....	114,308
Containers, etc.....	.....	.....	15,491	.....	6,132	.....	11,113
Total.....	.....	.....	884,459	.....	765,795	.....	438,079
Grand Total.....	.....	.....	1,730,577	.....	1,203,543	.....	872,048

Table 216.—Products, 1930-1932

—	Unit of measure	1930		1931		1932	
		Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
\$							
Gypsum products, including wall board, blocks, tile, etc.....	.....	.....	2,001,710	.....	1,621,382	.....	1,222,004
Asphalt emulsion.....	imp. gal.	190,288	27,709	2,877,540	339,852	1,507,859	166,796
Foundry facings and partings.....	ton	3,435	80,881	2,611	62,442	1,372	39,963
All other products, including carbon electrodes, microw splittings and mica plate, core oil, porcelain enamel frit, crayons, tailors' chalk, etc.....	.....	.....	2,058,311	.....	1,703,482	.....	1,330,946
Total.....	.....	.....	4,171,602	.....	3,727,158	.....	2,759,709

Table 217.—List of Firms in the Miscellaneous Non-Metallic Mineral Products Industry, 1932

Name	Location of plant	Products
(a) Carbon Electrodes		
Aluminium Company of Canada, Ltd.....	Arvida, P.Q.....	Carbon electrodes.
Electro Metallurgical Co. of Canada, Ltd.....	Welland, Ont.....	Carbon electrodes.
(b) Foundry Facings, etc.		
Canadian Foundry Supplies and Equipment, Ltd.....	4295 Richelieu St., Montreal, P.Q., and 47 Niagara St., Toronto, Ont.....	Foundry facings and partings, core oil, core compound and other foundry supplies.
Hamilton Facing Mill Co., Ltd.....	Hess St. N., Hamilton, Ont.....	Foundry facings and other foundry supplies.
Peterson Core Oil and Mfg. Co. of Canada, Ltd.....	Harmony Ave., Hamilton, Ont.....	Core oil.
Stevens, Frederic B., of Canada, Ltd.....	926 McDougall St., Windsor, Ont.....	Foundry facings, buffing composition, core oil.
Wilkinson Foundry Facing and Supply Co., The.....	81 Florence St., Toronto.....	Foundry facings, core compound, core oil, and other foundry supplies.
(c) Gypsum Products		
Canadian Gypsum Company Ltd., The.....	Hillsborough, N.B.....	Gypsum wallboard.
	Hagersville, Ont.....	Gypsum wallboard, gypsum tile, acoustical plasters.
Gypsum, Lime and Alabastine, Canada, Ltd.....	Montreal, P.Q.....	Gypsum wallboard, wall plasters and wallboard stucco.
	Caledonia, Ont.....	Gypsum wallboard, gypsum blocks, acoustical plasters, insulating plasters.
	Winnipeg, Man.....	Gypsum wallboard, tile and lath.
	East Calgary, Alta.....	Gypsum wallboard and tile, zonolite and zonolite plaster.
	New Westminster, B.C.....	Gypsum wallboard blocks, tile, acoustical plasters, dry insulex.
Western Gypsum products, Ltd.....	Winnipeg, Man.....	Gypsum wallboard.
(d) Mica Trimming		
Mica Co. of Canada, Ltd.....	Hull, P.Q.....	Mica plate, cut and uncut mica, mica tubes and washers, etc.
(e) Miscellaneous Non-Metallic Mineral Products		
Barrett Co. Ltd.....	Dundas, Ont.....	Tarvalithic.
Bitumen Products Corp.....	3590 St. Patrick St., Montreal, P.Q.....	Asphalt emulsion.
Canadian Bitumens Co. Ltd.....	Marion Ave., Montreal East, P.Q.....	Asphalt emulsion.
	13 Industrial St., Leaside, Ont.....	Asphalt emulsion.
	North Vancouver, B.C.....	Asphalt emulsion.
Canada Crayon Company, Ltd.....	383 George St., Peterborough, Ont.....	Wax and chalk crayons.
Canadian Battery and Bonalite Co.....	1165 McDougall Ave., Windsor, Ont.....	Battery boxes, etc.
Colas Roads, Ltd.....	Lachine, P.Q.....	Asphalt emulsion.
Ferro Enameling Co. of Canada, Ltd.....	629 Wellington St., Ottawa, Ont.....	Porcelain enamel frit.
Milloy, M.....	5649 Eadie St., Montreal, P.Q.....	Tailors wax chalk.
Pulverized Products Ltd.....	4820 4th Ave., Rosemont, Montreal, P.Q.....	Ground mineral fillers.
Republic Carbon Co.....	246 Stanley St., Niagara Falls, Ont.....	Calcined petroleum coke.
Quigley Company of Canada, Ltd.....	191-20th Ave., Lachine, P.Q.....	High temperature cements, etc.
Thomas & Son, Co., The.....	16 Walnut St., Hamilton, Ont.....	Brushes and buffs.

Primary Production:—(From the Annual Report on the *Mineral Production of Canada*).—

Gypsum.—Production of gypsum from Canadian deposits during 1932 amounted to 438,629 tons valued at \$1,080,379 as compared with 863,752 tons worth \$2,111,517 in 1931, a decrease of 49.2 per cent in quantity and 48.2 per cent in value. Gypsum quarried during the year totalled 439,695 tons of which 80,755 tons or 18.4 per cent was calcined in Canada.

Gypsum is mined or quarried in Nova Scotia, New Brunswick, Ontario, Manitoba and British Columbia. There are about 52 distinct areas in Nova Scotia containing gypsum; these cover approximately 625 square miles. Anhydrite, the anhydrous calcium sulphate, also occurs in the Maritime Provinces, in Ontario, in Manitoba, Alberta and also in British Columbia. At present a considerable tonnage of anhydrite is exported from Nova Scotia to the Southern States where it is used principally as a fertilizer for the peanut crop. The statistics relating to Canadian anhydrite production are combined with those for gypsum.

The statistics on gypsum mining cover the primary production of gypsum; and include data for gypsum quarries and for calcining and plaster works when operated in connection with the quarries. In addition there are the secondary or manufacturing plants which include the works making wallboard, blocks, tile, etc.; some of these works purchase crude gypsum from the primary producers and calcine it before using it to manufacture the gypsum products.

Table 218.—Production in Canada, Imports and Exports of Gypsum, 1930-1932

	1930		1931		1932	
	Tons	Value	Tons	Value	Tons	Value
SHIPMENTS BY GRADES—						
Crude—		\$		\$		\$
Lump.....	56,628	1116,401	47,147	103,396	98,672	114,504
Crushed.....	845,219	973,623	693,764	791,910	268,645	314,336
Fine ground.....	8,160	38,894	4,418	21,392	1,826	10,459
(a) Calcined.....	160,970	(a)1,089,870	118,423	1,194,819	69,480	641,080
Total.....	1,079,968	2,818,788	863,752	2,111,517	438,623	1,080,379
SHIPMENT BY PROVINCES—						
† Nova Scotia.....	827,063	982,287	707,817	878,487	341,508	398,861
New Brunswick.....	82,674	513,677	58,957	451,261	38,019	297,520
Ontario.....	94,946	776,069	53,358	374,469	35,655	186,175
Manitoba.....	34,157	298,297	23,076	231,124	12,719	113,739
British Columbia.....	32,128	248,158	20,544	176,173	10,728	84,084
Total.....	1,079,968	2,818,788	863,752	2,111,517	438,623	1,080,379
IMPORTS—						
Gypsum, crude (sulphate of lime)*.....	898	25,882	484	13,491	55	1,381
Plaster of Paris, or gypsum ground not calcined.....	219	5,352	158	4,476	171	3,434
Plaster of Paris, or gypsum calcined and prepared wall plaster.....	16,608	190,832	11,050	120,516	1,384	31,165
Total.....	17,725	222,066	11,692	138,483	1,610	35,980
EXPORTS—						
Gypsum or plaster crude.....	719,381	871,567	618,765	741,376	372,314	470,247
Plaster of Paris, ground and prepared wall plaster.....	7,282	119,092	3,085	50,774	799	13,979
Total.....	726,663	990,659	621,850	792,150	373,113	484,226

* Consists of crown filler and anhydrous sulphate of lime.

† Shipments of crude gypsum include some anhydrite produced in Nova Scotia.

(a) Does not include gypsum calcined in manufacturers' plants in Calgary and Montreal.

Table 219.—Principal Statistics of the Gypsum Mining Industry in Canada, 1930-1932

	1930	1931	1932
Number of firms.....	14	15	15
Capital employed.....	8,790,865	7,941,082	8,054,148
Number of employees—On salary.....	69	64	46
On wages.....	753	612	432
Total.....	822	678	478
Salaries and wages—Salaries.....	\$ 152,158	\$ 131,887	\$ 90,418
Wages.....	\$ 629,481	\$ 524,703	\$ 278,066
Total.....	\$ 781,639	\$ 656,590	\$ 368,484
Cost of fuel and electricity.....	\$ 201,409	\$ 188,524	\$ 122,926
Selling value of products.....	\$ 2,818,788	\$ 2,111,517	\$ 1,080,379

Mica—Mica production during 1932 amounted to 309 tons valued at \$6,828 compared with 1339 tons at \$54,066 in 1931.

Table 220.—Production of Mica in Canada, 1931 and 1932

Grade	1931			1932		
	Quantity	Value, f.o.b. shipping point	Price per pound	Quantity	Value, f.o.b. shipping point	Price per pound
	Lb.	\$	\$	Lb.	\$	\$
Rough cobbled.....						
Thumb trimmed.....	49,835	5,717	0-11	2,019	1,254	0-62
Splittings.....	37,475	14,398	0-38	3,350	2,014	0-60
Scrap.....	2,589,918	33,951	0-01	612,980	3,560	0-06
Total.....	2,677,228	54,066	0-02	618,349	6,828	0-01

Table 221.—Imports into Canada and Exports of Mica, 1931 and 1932

	1931		1932	
	Tons	Value	Tons	Value
		\$		\$
IMPORTS—				
Mica and manufactures of, n.o.p.— Total		92,294		71,749
EXPORTS—				
Rough cobbled and thumb trimmed.....	23	3,428	1	177
Mica splittings.....	19	14,672	50	26,933
Mica, scrap and waste.....	1,232	32,600	300	2,843
Mica, plate and manufactures of (micanite).....		797		1,260
Total.....		51,497		31,113

Table 222.—Principal Statistics of the Mica Mining Industry in Canada, 1930-1932

	1930	1931	1932
Number of firms.....	12	11	5
Capital employed.....	\$ 441,744	276,356	119,670
Number of employees—On salary.....	4	3	1
On wages.....	240	25	8
Total.....	244	28	9
Salaries and wages—Salaries.....	\$ 6,938	5,770	1,750
Wages.....	\$ 56,378	16,786	6,114
Total.....	\$ 63,316	22,556	7,864
Cost of fuel and electricity.....	\$ 1,102	444	50
Selling value of products.....	\$ 96,004	54,066	6,828

Graphite.—Production of graphite in 1932 totalled 346 tons valued at \$18,483, a decline of almost 40 per cent from the corresponding figures for 1931.

Table 223.—Production, Imports and Exports of Graphite, 1931 and 1932

	1931		1932	
	Tons	Value \$	Tons	Value \$
*PRODUCTION.....Total	548	32,149	346	18,483
IMPORTS—				
Crucibles, plumbago.....		34,215		29,909
Plumbago, not ground or otherwise manufactured.....		1,404		1,869
Plumbago, ground and manufactures of, n.o.p.....		81,233		70,565
Total.....		116,852		102,343
EXPORTS—				
Graphite or plumbago, crude or refined..... Total	951	44,606	967	41,146

Table 224.—Imports into Canada and Exports of Miscellaneous Non-Metallic Mineral Products, 1930-1932

	1930		1931		1932	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
IMPORTS						
Gypsum, crude (sulphate of lime)..... ton	898	25,882	484	13,491	55	1,381
Plaster of Paris, or gypsum, ground, not calcined..... cwt	4,380	5,352	3,154	4,476	3,424	3,434
Plaster of Paris, or gypsum, calcined and prepared wall plaster..... cwt	332,165	190,832	221,004	120,516	27,681	31,165
Slate pencils.....		6,506		2,932		2,810
School writing slates.....		91,355		78,748		35,732
Slate mantels and manufactures of slate, n.o.p.....		48,706		30,805		7,570
Burrstones in blocks, rough or unmanufactured, not bound up or prepared for binding into mill-stones..... no.	21	1,007			10	927
Chalk, China or Cornwall stone, cliff stone and mica schist, ground or unground.....		34,544		25,551		18,875
Chalk, prepared.....		101,081		51,101		10,610
Curling stones and handles therefor..... pr.	500	13,826	85	2,358	331	5,334
Feldspar..... cwt	10,355	0,109				
Feldspar, crude only..... cwt	48,588	40,722	2,037	1,862	10,160	5,216
Feldspar not further manufactured than ground..... cwt	4,623	3,420	35,503	35,435	19,567	19,659
Flint and ground flint stones..... cwt	77,564	37,811	52,330	23,653	38,513	16,075
Floorspar..... cwt	253,038	160,995	04,310	31,267	20,188	22,965
Gauster..... cwt	44,022	9,264	4,363	2,043	2,278	687
Lithographic stones, not engraved.....		1,974		2,678		118
Magnesite. (From January 1 to March 31, 1930)..... cwt	1,789	3,629				
Magnesite, crude rock†..... cwt	5,207	5,187				
Magnesite, dead burned, sintered, caustic, calcined or plastic magnesia† cwt	23,643	21,799	35,741	40,628	21,302	28,626
Phosphate rock..... cwt	944,124	297,522	2,834,458	619,079	1,310,657	346,907
Sand, silica, for glass and carborundum manufacture, and for use in steel foundries..... cwt	3,280,984	352,706	2,154,234	235,191	1,183,527	162,869
Sand and gravel, n.o.p..... ton	185,362	107,642	155,482	139,935	36,387	48,677
Silex or crystallized quartz ground or unground..... cwt	100,808	111,473	104,776	130,368	123,714	167,997
Stone refuse, not sawn, hammered or chiselled, nor fit for flagstone, building stone or paving..... ton	303,462	233,182	237,373	197,810	33,388	28,559
Talc or soapstone, ground or unground. cwt	95,977	85,779	53,405	49,452	38,011	49,774
Whiting, gilders' whiting and Paris white..... cwt	258,558	146,785	212,694	116,791	177,054	90,490
Manufactures of stone, n.o.p.....		85,301		62,376		34,221
Barytes..... cwt	38,984	35,945	33,726	32,712	25,834	22,989
Carbons over 3 inches in circumference, and not exceeding 35 inches.....		318,462		224,427		250,995
Carbon electrodes, over 35 inches in circumference.....		69,226		61,001		35,995
Carbons, electric light and carbon points, of all kinds, n.o.p.....		71,441		55,825		44,574
Diamonds, unset.....		2,014,713		848,939		426,002

† From April 1, to December 31, 1930.

Table 224.—Imports into Canada and Exports of Miscellaneous Non-Metallic Mineral Products, 1930-1932—Concluded

	1930		1931		1932	
	Quantity	Value	Quantity	Value	Quantity	Value
IMPORTS—Concluded						
Earths, crude only.....		\$ 6,120		\$ 3,453		\$ 1,323
Foundry facings of all kinds.....		25,402		21,065		3,256
Fuller's earth in bulk only.....		72,701		54,241		68,747
Insulators, electric, n.o.p.....		452,335		322,037		153,755
Magnesia pipe covering.....		297,513		126,210		64,924
Meerschaum, crude or raw..... lb.			8	23		
Sulphur and brimstone, crude, or in roll or flour..... cwt.	3,594,561	3,177,492	2,483,842	2,281,654	2,099,895	2,023,085
Mineral and bituminous substances, n.o.p.....		1,242,987		829,135		609,434
Plumbago, not ground or otherwise manufactured.....		2,033		1,404		1,869
Plumbago crucibles.....		52,458		34,215		29,909
Plumbago, ground and manufactures of, n.o.p.....		61,742		81,233		70,565
Mica and manufactures of, n.o.p.....		102,775		92,294		71,749
EXPORTS						
Gypsum or plaster, crude..... ton	719,381	871,567	618,765	741,376	372,314	479,247
Plaster of Paris, ground, and prepared wall plaster..... cwt.	145,631	119,092	61,715	50,774	15,970	13,379
Crushed stone..... ton	136,837	235,406	74,244	135,140	43,993	80,451
Feldspar..... ton	21,183	165,482	10,975	88,913	2,017	15,465
Magnesite, calcined, dead burned, etc. cwt.	37,028	48,536	32,214	45,257	23,885	33,108
Sand and gravel..... ton	2,586,461	465,292	485,813	146,060	177,710	33,620
Talc..... ton	173,217	101,943	157,034	83,765	156,121	85,790
Carbon and graphite electrodes.....		230,282		154,479		217,682
Sulphur contained in pyrites..... ton	26,592	159,866	26,613	163,314	17,489	89,985
Graphite or plumbago, crude and refined..... cwt.	48,351	127,291	19,984	44,006		
Mica, rough cobbled and thumb trimmed..... cwt.	30	1,461	479	2,400		
Mica, scrap and waste..... cwt.	20,784	48,436	34,537	3,700		
Mica splittings..... cwt.	773	35,351	589	2,400		
Mica plate and manufactures of (micanite).....		1,289				
Other non-metallic minerals and products.....		479,737				

18,147	41,185
17	177
2,004	2,543
394	26,833
797	1,260
445,312	456,485



LIST OF PUBLICATIONS

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Text and tables showing for Canada, and for each of the coal-producing provinces, historical and current data on output, tonnage lost, disposition of coal from the mines, domestic and foreign shipments, exports and imports by ports, consumption of coal, prices, employment, salaries and wages paid, power equipment, capital investment, etc.

ANNUAL BULLETINS—

Metals—The Gold Mining Industry in Canada which includes Alluvial Gold Mining, Auriferous Quartz Mining, Copper-Gold-Silver Mining, and tables showing Canadian and world production of Gold.—The Silver Mining Industry in Canada, which includes Silver-Cobalt-Arsenic Mining, Silver-Lead-Zinc Mining, and tables showing Canadian and world production of Arsenic, Cobalt, Lead, Silver and Zinc.—The Nickel-Copper Mining, Smelting and Refining Industry, which includes Canadian and world production of Nickel.—The Canadian and World Production of Copper.—Metals of the Platinum Group.—The Production of Miscellaneous Metals including Antimony, Beryl, Bismuth, Cadmium, Chromite, Lithium, Manganese, Mercury, Molybdenite, Radium, Selenium, Tin, Titanium, Tungsten.—The Non-Ferrous Smelting and Refining Industry.

Non-Metals.—Abrasives—Asbestos—Coal—Feldspar—Gypsum—Iron Oxides—Mica—Natural Gas—Petroleum—Quartz—Salt—Talc and Soapstone—Miscellaneous Non-Metallic Minerals including Actinolite, Barytes, Bituminous Sands, Fluorspar, Graphite, Magnesite Dolomite, Bog Manganese, Mineral Waters, Phosphate, Silica Brick, Sodium Carbonate, Sodium Sulphate, Sulphur (Pyrites).

Structural Materials.—Cement—Clay and Clay Products—Lime—Sand and Gravel—Stone.

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