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DOMINION BUREAU OF STATISTICS  
MINING, METALLURGY AND CHEMICAL BRANCH

M. MANUFACTURES THE NON-METALLIC  
MINERALS IN CANADA

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1925

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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 Chocolates; 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); Woollen 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; Automobile Supplies; Bicycles; Railway Rolling Stock; Wire and Wire Goods; Sheet Metal Products; Hardware and Tools; Miscellaneous Iron and Steel Products.
- (6) **Manufactures of Non-Ferrous Metal Products**, including—Aluminium and Aluminium Ware; Brass and Copper Products; Lead, Tin and Zinc Products; Precious Metal Products; Electrical Apparatus and Supplies; Miscellaneous Non-Ferrous Metal Products.
- (7) **Manufactures of Non-Metallic Mineral Products**, including—Aerated Waters; Asbestos and Allied Products; Cement Products and Sand-Lime Brick; Coke and By-Products; Glass (blown, cut, ornamental, etc.); Illuminating and Fuel Gas; Products Made from Imported Clay; Monumental and Ornamental Stone; Petroleum Products; Miscellaneous Manufactured Non-Metallic Mineral Products, including (a) Artificial Abrasives; (b) Abrasive Products; (c) Artificial Graphite and Electrodes; (d) Gypsum Products; (e) Mica Products; (f) Miscellaneous Non-Metallic Mineral Products n.e.s.
- (8) **Chemicals and Allied Products**, including—Coal Tar and its Products; Acids, Alkalies, Salts and Compressed Gases; Explosives, Ammunition, Fireworks and Matches; Fertilizers; Medicinal and Pharmaceutical Preparations; Paints, Pigments and Varnishes; Soaps, Washing Compounds and Toilet Preparations; Inks, Dyes and Colours; Wood Distillates and Extracts; Miscellaneous Chemical Products including (a) Adhesives, (b) Baking Powder, (c) Boiler Compounds, (d) Celluloid Products, (e) Flavouring Extracts, (f) Insecticides, (g) Polishes and Dressings, (h) Sweeping Compounds, (i) 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 present report on the Manufactures of the Non-Metallic Minerals in Canada deals with coke making, the production of illuminating and fuel gas, the refining of petroleum, the manufacture of glass and several other industries of somewhat less importance, such as the manufacture of aerated waters, the production of sand-lime brick, concrete tile and blocks, the fabrication of brake linings and other commodities from asbestos and magnesia, and the manufacture of artificial abrasives and graphite electrodes by means of the electric furnace—all of which use non-metallic minerals as their raw materials. Data for certain other industries such as the clay products industry in all its phases (brick and tile, clay sewer pipe, fire brick, fire clay products, stoneware and pottery); the portland cement industry; the manufacture of lime; and the production of salt are also included in order to make the report comprehensive. These latter industries are often considered as primary rather than manufacturing and so they are included in the Bureau's reports on the mineral production of Canada.

As will be seen from the report, increased production was evident in nearly every industry in the group; the aggregate value of production showed an advance of 5.9 million dollars or about 5 per cent over the value of the output in 1924.

On the next preceding page there is a brief note on the Bureau's classification of industries for the collection of production statistics, which shows the place of the present report in the general scheme.

As in the previous issue, there has been included a list of the names and addresses of the reporting firms arranged by industries and by provinces.

The present report was prepared by Mr. H. McLeod, B.Sc., under the direction of Mr. S. J. Cook, B.A., A.I.C., F.C.I.C., Chief of the Mining, Metallurgical and Chemical Branch.

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DOMINION BUREAU OF STATISTICS,  
OTTAWA, JUNE 21, 1927.

# TABLE OF CONTENTS.

	PAGE		PAGE
List of Publications.....	Inside front and back cover		
Note on Statistics of Production.....	2		
Preface.....	3		
Table of Contents.....	4		
<b>CHAPTER ONE—General Review</b>			
(a) Summary.....	5		
(b) By Industries.....	8		
(c) By Provinces.....	10		
(d) Prices.....	12		
(e) General Tables—			
Summary Statistics.....	Tables 1A and 1B.....	13	
Principal Statistics.....	Tables 2 and 3.....	15	
Capital Employed.....	Tables 4 and 5.....	23	
Number of Wago-Earners.....	Tables 6-9.....	24	
Fuel and Electricity.....	Tables 10-13.....	26	
Power Equipment.....	Tables 14-17.....	28	
Imports and Exports.....	Tables 18 and 19.....	30	
List of materials.....	Table 20.....	36	
List of Products.....	Table 21.....	37	
Prices.....	Tables 22 and 23.....	38	
<b>CHAPTER TWO—Acrated Waters</b>			
Summary Statistics.....	Tables 24 and 25.....	42	
Capital Employed.....	Table 26.....	43	
Employment.....	Table 27-29.....	44	
Fuel and Electricity.....	Table 30.....	45	
Power Employed.....	Table 31.....	45	
Materials Used.....	Table 32.....	45	
Products.....	Table 33.....	46	
Primary Production.....	Table 34.....	46	
<b>CHAPTER THREE—Asbestos and Allied Products</b>			
Summary Statistics.....	Tables 35 and 36.....	47	
Capital Employed.....	Table 37.....	48	
Employment.....	Tables 38-40.....	49	
Fuel and Electricity.....	Table 41.....	49	
Power Employed.....	Table 42.....	50	
Materials Used.....	Table 43.....	50	
Products.....	Table 44.....	50	
Primary Production.....	Tables 45 and 46.....	51	
Imports and Exports.....	Tables 47 and 48.....	52	
<b>CHAPTER FOUR—Cement Products</b>			
Summary Statistics.....	Tables 49 and 50.....	53	
Capital Employed.....	Table 51.....	54	
Employment.....	Tables 52-54.....	55	
Fuel and Electricity.....	Table 55.....	56	
Power Employed.....	Table 56.....	56	
Materials Used.....	Table 57.....	56	
Products.....	Table 58.....	57	
Primary Production.....	Tables 59 and 60.....	57	
<b>CHAPTER FIVE—Sand-Lime Brick</b>			
Summary Statistics.....	Table 61.....	58	
Capital Employed.....	Table 62.....	59	
Employment.....	Tables 63-65.....	59	
Fuel and Electricity.....	Table 66.....	60	
Power Employed.....	Table 67.....	60	
Materials Used.....	Table 68.....	60	
Products.....	Table 69.....	61	
Primary Production and Imports and Exports.....	Tables 70-73.....	61	
<b>CHAPTER SIX—Coke and By-Products</b>			
Production by Industries.....	Table 74.....	64	
Summary Statistics.....	Tables 75 and 76.....	64	
Capital Employed.....	Table 77.....	65	
Employment.....	Tables 78-80.....	65	
Fuel and Electricity.....	Table 81.....	66	
Power Employed.....	Table 82.....	66	
Materials Used.....	Table 83.....	67	
Products.....	Tables 84 and 85.....	68	
Domestic Consumption of Coke.....	Tables 86-90.....	69	
Production, Imports and Exports of Ammonium Sulphate.....	Table 91.....	71	
Imports and Exports of Coal Products.....	Table 92.....	71	
<b>CHAPTER SEVEN—Glass</b>			
Summary Statistics.....	Tables 93 and 94.....	73	
Capital Employed.....	Table 95.....	73	
Employment.....	Tables 96-98.....	74	
Fuel and Electricity.....	Table 99.....	75	
Power Employed.....	Table 100.....	75	
Materials Used.....	Table 101.....	76	
Products.....	Table 102.....	76	
<b>CHAPTER EIGHT—Illuminating and Fuel Gas</b>			
Summary Statistics.....	Tables 103 and 104.....	78	
Capital Employed.....	Table 105.....	78	
Employment.....	Tables 106-108.....	79	
Fuel and Electricity.....	Table 109.....	80	
Power Employed.....	Table 110.....	80	
Materials Used.....	Table 111.....	80	
Products.....	Tables 112 and 113.....	81	
Primary Production.....	Table 114.....	82	
<b>CHAPTER NINE—Imported-Clay Products</b>			
Summary Statistics.....	Table 115.....	83	
Capital Employed.....	Table 116.....	83	
Employment.....	Tables 117-119.....	84	
Fuel and Electricity.....	Table 120.....	85	
Power Employed.....	Table 121.....	85	
Materials Used.....	Table 122.....	85	
Products.....	Table 123.....	86	
Primary Production.....	Tables 124-130.....	86	
<b>CHAPTER TEN—Monumental and Ornamental Stone</b>			
Summary Statistics.....	Tables 131 and 132.....	90	
Capital Employed.....	Table 133.....	91	
Employment.....	Tables 134-136.....	92	
Fuel and Electricity.....	Table 137.....	93	
Power Employed.....	Table 138.....	93	
Materials Used.....	Table 139.....	93	
Products.....	Table 140.....	94	
Primary Production.....	Tables 141 and 142.....	94	
<b>CHAPTER ELEVEN—Petroleum Products</b>			
Summary Statistics.....	Tables 143 and 144.....	97	
Capital Employed.....	Table 145.....	98	
Employment.....	Tables 146 and 147.....	98	
Fuel and Electricity.....	Table 148.....	99	
Power Employed.....	Table 149.....	99	
Materials Used.....	Table 150.....	100	
Products.....	Table 151.....	101	
Imports and Exports.....	Table 152.....	102	
Apparent Consumption of Certain Products.....	Table 153.....	103	
Primary Production.....	Table 154.....	104	
<b>CHAPTER TWELVE—Miscellaneous Non-Metallic Mineral Products</b>			
Summary Statistics.....	Tables 155 and 156.....	106	
Capital Employed.....	Table 157.....	107	
Employment.....	Table 158.....	107	
Fuel and Electricity.....	Table 159.....	107	
Power Employed.....	Table 160.....	108	
Materials Used.....	Table 161.....	108	
Products Made.....	Table 162.....	109	
Primary Production Imports and Exports.....	Tables 163-169.....	109	
<b>DIRECTORY OF FIRMS</b>			
Aerated Waters.....	113		
Asbestos and Allied Products.....	117		
Cement Products.....	118		
Sand-Lime Brick.....	120		
Coke and Its By-Products.....	121		
Glass.....	121		
Illuminating and Fuel Gas.....	122		
Imported-Clay Products.....	123		
Monumental and Ornamental Stone.....	123		
Petroleum Products.....	126		
Miscellaneous Non-Metallic-Mineral Products—			
(a) Artificial Abrasives.....	127		
(b) Abrasive Products.....	127		
(c) Artificial Graphite and Electrodes.....	127		
(d) Gypsum Products.....	127		
(e) Mica Trimming.....	128		
(f) Non-Metallic Mineral Products, n.e.s.....	128		

# DOMINION BUREAU OF STATISTICS

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## MANUFACTURES OF THE NON-METALLIC MINERALS IN CANADA, 1925

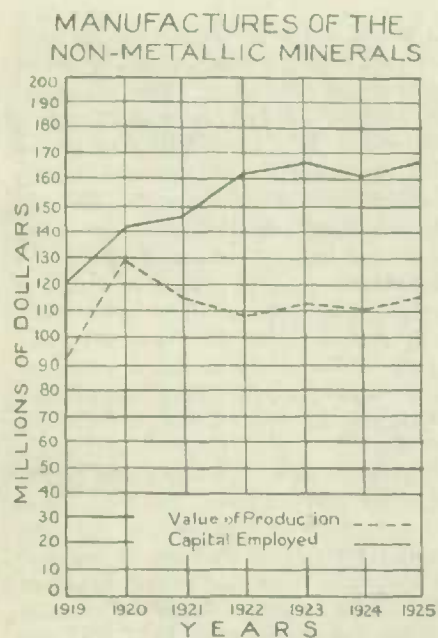
### CHAPTER I

#### GENERAL REVIEW

##### (a) Summary

Manufacture of non-metallic mineral products in Canada in 1925 reached a value of \$115,873,848, an increase of nearly 5 million dollars over the total for 1924 and the highest value recorded since 1920 for this group of industries. The 915 operating plants in these industries in 1925 representing a capital investment of 166 million dollars used \$65,278,752 worth of raw materials to produce commodities valued at \$115,873,848, factory prices, creating thus an added wealth of \$50,595,096 by manufacturing processes. Employment was afforded to an average of 16,998 persons during the year and \$21,919,263 was paid out in salaries and wages.

Increased production was evident in nearly every industry in the group. Production of petroleum products such as gasoline, fuel oil and lubricants amounted in value to \$50,762,127, an increase of 1.3 million dollars over 1924; the manufacture of cement products and sand-lime brick, in terms of values, showed an increase of about a million dollars; the production of coke plants rose half a million dollars in value above 1924; gas works showed a small decrease in the value of output; asbestos and allied products gained three-quarters of a million dollars; the miscellaneous non-metallic products group showed a gain of a million dollars; the aerated waters industry and the monumental and ornamental stone industry each advanced half a million dollars in output value; manufactures from imported clays fell off slightly, and the total production value for the glass industry was down two-thirds of a million dollars. Over all, there was an increase of 4.7 million dollars or about 4 per cent above the value of the output in the next preceding year.



Of the 915 plants in Canada working up non-metallic mineral products in 1925, the number located in Ontario was 501; production from these plants had a sales value of \$57,965,060. Quebec came next with 203 plants and production valued at \$25,741,323. Nova Scotia ranked third with 36 plants having a total output worth \$8,439,599; British Columbia was next with a total output worth \$7,760,918 from 44 active plants; 28 establishments in Alberta made \$6,416,139 worth of non-metallic products; Manitoba's 37 plants had an output valued at \$2,579,788; Saskatchewan had 28 plants, and a production worth \$6,053,791; New Brunswick had 35 plants with an output valued at \$826,790, and Prince Edward Island's 3 plants had an output valued at \$90,440.

In 1924 there were 814 plants in operation in this industrial group.

Gains in the number of plants were as follows: Ontario, 65; Quebec, 20; British Columbia, 7; Manitoba, 4; New Brunswick, 4; Saskatchewan, 3; and Nova Scotia, 2, while Alberta showed a loss of 4 plants. Despite the general increase in the number of plants the provincial aggregates for the group showed higher values in only 5 cases: Ontario's output was higher by 3.5 million dollars; Quebec's output showed a gain of 3 millions; and Manitoba, New Brunswick and Prince Edward Island each showed small gains. British Columbia, Alberta, Saskatchewan and Nova Scotia each reported slightly lower total production values for these industries.

By industries, petroleum products led the list with a total production value of \$50,762,127, followed by the illuminating and fuel gas industry at \$17,874,479; coke and by-products, \$11,020,298; glass, \$10,117,604; miscellaneous non-metallic mineral products, \$7,978,183; aerated waters, \$6,877,524; monumental and ornamental stone, \$5,355,997; cement products and sand-lime brick, \$2,801,794; products from imported clays, \$1,741,745; and asbestos and allied products, \$1,344,097.

The total capital employed in the non-metallic mineral products industry showed an increase of nearly 5 million dollars to \$166,263,824, of which \$118,934,123 represented the value of lands, buildings, tools, etc.; \$32,024,344 the value of materials on hand and in process; and working capital amounted to \$15,305,357. Ontario plants reported a total investment of \$77,446,321, a gain of 5.6 million dollars over 1924; investment in plants in Nova Scotia was \$21,273,840; Quebec plants accounted for \$32,385,178 as against \$28,246,887 in the previous year; British Columbia was credited with \$14,260,911; Manitoba, \$7,634,485; Alberta, \$7,264,120; Saskatchewan, \$5,097,434; New Brunswick, \$804,221; and Prince Edward Island with \$97,314.

Comparison of data for capital employed and selling value of products shows that for the non-metallics group as a whole there was a production of commodities valued at \$70.50 for each \$100 of capital employed. By industries, the output per \$100 of capital employed was as follows: aerated waters, \$64; asbestos and allied products, \$51; cement products, \$78; sand-lime brick, \$81; coke and by-products, \$47; glass, \$80; illuminating and fuel gas, \$41; products from imported clays, \$63; monumental and ornamental stone, \$107; petroleum products, \$100; and miscellaneous non-metallic mineral products, \$96.

Including both salaried employees and wage-earners, 16,998 persons found employment in the manufacture of non-metallic mineral products in 1925 as against 16,938 in the preceding year. Salaries and wages amounted to \$21,919,263, about a quarter of a million dollars over 1924. The trend of employment as reflected by the monthly records of the number of wage-earners on the rolls on the fifteenth of each month showed 12,402 wage-earners (exclusive of salaried employees) on the rolls in January, from which point the number employed rose gradually to a maximum of 15,544 in July. Employment then gradually fell away until in October there were 14,631 persons enrolled and in December only 13,382.

Imports into Canada of non-metallic minerals and their products totalled \$138,171,331 in value during 1925 as compared with \$135,033,046 in the previous year. Imports of coal and its products were valued at \$65,747,709 and imports of petroleum, asphalt and their products were worth \$44,160,082. United States supplied \$111,880,844 worth or 81 per cent of Canada's imports in this class, while only 9 per cent came from the United Kingdom. Exports from Canada during 1925 were valued at \$24,343,120 as against \$20,949,947 in 1924. Shipments of asbestos and its products to foreign destinations were worth \$9,737,964; coal and its products were valued at \$5,205,778, and stone and its products at \$6,524,933. United States took 68 per cent of Canada's exports of non-metallic minerals and their products, the United Kingdom took 6 per cent, and the remaining 26 per cent went to other countries.

In studying the production of non-metallic mineral products in Canada it has been found convenient to arrange the industries under the following groups: aerated waters; asbestos and allied products; cement products; sand-lime brick; coke and by-products; glass; illuminating and fuel gas; products from imported clays; monumental and ornamental stone; petroleum products; and miscellaneous non-metallic mineral products. Brief reviews of each of these industries are given immediately below and, in the body of the report, a separate chapter is devoted to each industrial group.

**Primary Products.**—As a matter of general interest, a summary of the principal statistics relating to the manufacture of structural materials and clay products during the years 1921 to 1925 has been abstracted from the annual *Report on the Mineral Production of Canada* issued by the Bureau. Data in the report on the mineral production of Canada, show the production of primary raw materials but there are many products described therein which are produced by a manufacturing process though the cost of the raw materials used apart from the labour involved, is generally considered as negligible. These industries, on the border-line between mining and manufacturing, may be classified under either heading, so that, while the Bureau reports show them under "primary mineral production" for convenience, the inclusion herein of the principal data in regard thereto, may interest the general reader.

Under the heading "Clay Products" there are included the statistics for the brick and tile industry, the clay sewer pipe industry, the fire brick and fire clay products industry and the stoneware and pottery industry.

Brick and tile manufacturing represented a capital investment of 22.4 million dollars in 1925 when 173 plants were operating. These plants furnished employment to 3,403 people who received salaries and wages to the value of 3.2 million dollars. Fuel used cost about 1.6 million dollars, and the net value of the products made exceeded 7.3 million dollars. In 1924 there were 192 plants operating; the capital employed in operating plants was about 2 million dollars more than in 1925 and the value of products manufactured was less by about a quarter of a million dollars. In 1923, returns were received from 204 plants and the products were valued at about 8.2 million dollars.

The clay sewer pipe industry showed no great change in 1925. Five plants were in operation with a capital of about 3 million dollars. They employed an average of 382 people who received in the neighbourhood of half a million dollars in wages and salaries. Fuel cost about \$240,000 and the value of the products was almost 1.2 million dollars.

In the firebrick and fireclay products industry, 6 plants were in operation in 1925, as against 7 in 1924. About 2.1 million dollars was invested in the industry and, on the average, 220 hands were employed, to whom over a quarter of a million dollars was paid in salaries and wages. The cost of fuel amounted to nearly \$88,552, and the value of the products was \$702,707.

Four plants were engaged in the manufacture of stoneware and pottery, with a capitalization of almost \$424,894. This industry employed 131 people, and wages and salaries paid totalled about \$129,703. The amount of fuel used does not vary much from year to year, \$15,660 worth being used in 1925. The value of the products amounted to \$269,979.

Under the general heading of "Structural Materials," data for cement and lime are also included. The cement industry is naturally dependent on the amount of construction undertaken each year. There were 11 plants making cement in 1925 as against 10 in 1924. Capital employed amounted to 38 million dollars in 1925 as against 36.8 million dollars in 1924. In 1925, there were 1,926 people employed, and payments for salaries and wages amounted to 2.5 million dollars. Fuel cost 2.2 million dollars. The value of the products was \$14,046,784. In 1924 the value of the products was given at \$13,398,411.

In the manufacture of lime in 1925, reports were received from 56 plants; the total capital employed was \$5,154,546, and there were on the rolls 1,006 persons who received nearly one million dollars in salaries and wages. Lime to the value of \$3,387,652 was made in 1925.

In the chapters pertaining to the several different industries under review will be found further excerpts from the annual *Report on the Mineral Production of Canada* for 1924 and 1925, which it seemed advisable to add to this report as relative information. Throughout the data given, refer to the group of industries mentioned above as being included in the Bureau's classification of *Manufacturers of the Non-Metallic Minerals*; only in the Summary Tables are figures given for those "manufacturing" industries which are reviewed in detail in the annual *Report on the Mineral Production of Canada*, and which may as readily be classed either as "primary" or as "secondary" industries. References to these industries are mostly in the form of abstracts from other reports.

## (b) By Industries

**Aerated Waters.**—The aerated waters industry in Canada showed considerable improvement during 1925. In that year the production of non-alcoholic carbonated beverages was valued at \$6,877,524 as compared with corresponding figures of \$6,354,358 in 1924 and \$6,408,832 in 1923. Capital employed was reported at 10.7 million dollars as against 9.4 million dollars in 1924, and the number of employees was 1,684 as compared with 1,543 in the previous year.

Plants in this industry are distributed fairly well over the Dominion; almost every town has a small soda water and soft drinks plant but, of course, the demand for these beverages is greatest in the more thickly-populated sections and so the industry is centered in Ontario and Quebec. In 1925, reports were received from 313 plants distributed by provinces as follows: 131 in Ontario, 88 in Quebec, 21 in Nova Scotia and Prince Edward Island, 17 in British Columbia, 16 in New Brunswick, 16 in Saskatchewan, 14 in Alberta, and 10 in Manitoba. Plants in Ontario and Quebec together accounted for 73 per cent of the entire Canadian production. In 1924 there were only 296 establishments in operation in this industry.

**Asbestos and Allied Products.**—The value of asbestos products manufactured in Canada in 1925 was 128 per cent above the corresponding figure for 1924. The opening of 2 new plants in Quebec was the outstanding event in this industry. In 1925 there were 12 plants in Canada engaged in the manufacture of asbestos and allied products; 6 were located in Ontario, 4 in Quebec and one in each of the provinces of Nova Scotia and British Columbia. These plants represented a capital investment of 2.6 million dollars, gave employment to 256 persons and used \$783,063 worth of raw materials to produce \$1,344,097 worth of commodities for sale. In 1924, the 9 plants in operation produced goods worth \$589,339. Main products of this industry included asbestos packing, brake linings, pipe covering, asbestos paper, shingles, lumber, etc.

**Cement Products.**—This group includes all firms who produce concrete blocks, tile, sewer pipe, sills, piles, posts and other manufactures of concrete and artificial stone with cement as a binding medium. In 1925, the 197 plants reporting in this industry had a combined output valued at \$2,020,239. Ontario's 148 plants had a production valued at nearly 1.5 million dollars; there were also 34 plants in Quebec; 5 in New Brunswick; 4 in British Columbia; 2 in Alberta; 2 in Saskatchewan; and 2 in Nova Scotia. These plants represented a capital investment of 2.6 million dollars and gave employment to 819 persons the year round. Records of the many small concerns operating in spare time only, are not included in this report.

**Sand-Lime Brick.**—Increased outputs characterized the operations of plants in the sand-lime brick industry in 1925. Although there were fewer plants in operation, the total production of sand-lime brick amounted to 63,869 M worth \$781,555 as compared with 55,875 M valued at \$619,946 in 1924. Reports were received from 7 plants in Ontario and 2 in Manitoba, whereas in the previous year there were 10 active plants in Ontario and 1 in each of the provinces of Manitoba and Saskatchewan.

**Coke and By-Products.**—The coke industry as herein reviewed includes only those plants in Canada engaged in the manufacture of metallurgical coke. Coke is also recovered as a by-product from the artificial gas plants and petroleum refineries but these latter industries are reviewed in separate chapters of this report.

In 1925, metallurgical coke was made by the following companies: Dominion Iron and Steel Company of Canada, Limited, at Sydney, N.S.; Steel Company of Canada, Limited, at Hamilton, Ont.; Algoma Steel Corporation, Limited, at Sault Ste. Marie, Ont.; Hamilton By-Product Coke Ovens, Limited, at Hamilton, Ont.; Crow's Nest Pass Coal Company at Fernie, B.C.; and Granby Consolidated Mining, Smelting and Power Company at Anyox, B.C. Of these 6 plants, the 3 in Ontario imported all their coal from the United States; the Nova Scotia plant, which ordinarily uses Canadian coal only, was forced to bring in coal from the United States during the strike of the coal miners in Nova Scotia, and 1 plant in British Columbia used only Canadian coal while the other plant in that province used both imported and domestic coal.



During 1925, a total of 930,738 tons of foreign coal and 598,280 tons of Canadian coal were charged to the ovens to produce 1,079,526 tons of coke for an average yield of 1,412 pounds of coke for every ton of coal charged to the ovens. By-products from this industry included 32 million pounds of ammonium sulphate worth \$807,814; about 12 million cubic feet of gas, part of which was sold and part used as fuel; and about 2 million gallons of light oils; and 11 million gallons of tar and tar products.

The total production of coke in Canada including gas-house coke but exclusive of petroleum coke was 1,546,739 tons valued at \$10,482,841; imports amounted to 852,427 tons worth \$5,553,494 and exports totalled 25,578 tons worth \$214,820. The apparent consumption of coke in Canada during 1925 was 2,373,588 tons valued at \$15,821,515.

**Glass.**—In the glass industry are included those plants making pressed and blown glass, and also those plants engaged principally in bevelling and cutting plate glass to make cut glass, plain or bevelled mirrors, etc., and in the bending of plate and sheet glass and assembling leaded and other art glass.

In 1925, pressed and blown glass was made by 10 plants in Canada while 42 different establishments were engaged in the bevelling, bending and cutting of glass. Production of pressed and blown glass was valued at \$7,444,246 as compared with a figure of \$8,799,420 in 1924, and other glass products were valued at \$2,673,358 as against \$1,977,396 in the previous year. There is no plate glass made in Canada and the entire supply, therefore, is imported and cut and bevelled as required.

**Illuminating and Fuel Gas.**—The illuminating and fuel gas industry in Canada is centred chiefly in the larger cities where domestic and industrial demand is greatest. In 1925 there were 44 gas plants in Canada and the production of gas and by-products was valued at \$17,874,479 as compared with \$18,101,724 in the previous year. Capital employed amounted to 46.1 million dollars, of which 38.9 million dollars was the value of fixed assets such as buildings, lands and plant equipment. Employment was afforded to 3,804 persons, and salaries and wages paid during the year totalled \$5,057,702.

Straight coal gas and carburetted water gas were the most important products. Pintsch gas was made at many divisional points along the railroads and was supplied in cylinders for railway-car lighting purposes. Acetylene gas was used in several prairie towns where the size of the municipality was not large enough to warrant a coal-gas plant or where the cost of coal for gas-making was prohibitive. By-products of this important industry included coke, tars, ammonia liquor and ammonium sulphate; the total value of by-products recovered in 1925 was \$3,827,173 as compared with a corresponding value of \$3,833,409 in the previous year.

**Products from Imported Clays.**—Under this classification are listed those firms that produce clay products such as pottery, sanitary ware, refractories, porcelain insulators, etc., from special clays imported for the purpose. In 1925 there were 12 plants in Canada engaged in this line of work. These plants, representing a capital investment of \$2,762,951 employed 552 persons during the year and produced commodities valued at \$1,741,745 from raw materials costing \$326,023. The same plants were in operation in 1924 and the value of production was given at \$1,879,769.

**Monumental and Ornamental Stone.**—This group includes all firms engaged only in the cutting and finishing of monumental and building stone; the primary industry or the quarrying of stone is covered in a separate report. In 1925 there were 214 plants in this group and production was valued at \$5,355,997 as compared with 210 establishments and an output worth \$4,730,572 in 1924. Many of the establishments are small and employ only 2 or 3 persons. Much of the stone used as raw material in this industry is imported; in 1925 the value of imports of all kinds of stone was \$787,347.

**Petroleum Products.**—The petroleum products industry recorded a substantial increase in production in 1925. This is by far the largest industry of the group under review and includes the refining of petroleum, both domestic and imported, and also the compounding of lubricating oils and greases consisting wholly or in part of mineral oils. In 1925 there were 21 plants operating in this industry, of which 13 refined petroleum and 8 compounded

lubricating oils and greases. Production from petroleum refineries was valued at \$49,802,615 an increase of more than a million dollars over 1924 and the output of plants making only oils and greases was worth \$959,512 as compared with a value of \$733,720 in 1924. Four oil refineries and 1 plant making greases went out of business during 1925, but 1 other plant in the latter industry commenced operations.

**Miscellaneous Non-Metallic Mineral Products.**—Many firms in Canada produce non-metallic mineral products that do not naturally fall in any of the groups previously considered. A miscellaneous group has accordingly been made and divided into the following classes; artificial abrasives and abrasive products; graphite products; gypsum products; mica trimming, and miscellaneous non-metallic mineral products.

The principal products of the 35 firms thus grouped were carborundum, alundum, grinding wheels, graphite electrodes, gypsum wall board, plaster of Paris models, trimmed and split mica and sundry foundry supplies as facings, sand, etc.

The abrasive products industry was the most important of this group with a production valued at 5.9 million dollars; gypsum products were worth over a million dollars; and the mica trimming shops produced \$352,147 worth of commodities for sale.

### (c) By Provinces

**Prince Edward Island.**—Only 3 establishments in Prince Edward Island made non-metallic mineral products in 1925. Of these, 2 made aerated waters and 1 produced monumental stone; the total value of products made was \$90,440, and 22 persons were employed the year round; the same plants were in operation in 1924 when production totalled \$81,148 and 22 people were employed.

**Nova Scotia.**—In 1925, Nova Scotia had 19 plants producing aerated waters; 11 in the monumental and ornamental stone industry; 2 making cement products, and 1 plant in each of the asbestos and allied products, coke, gas, and petroleum refining industries. These 36 plants represented a capital investment of over 21 million dollars, afforded employment to 762 persons and had a combined production valued at \$8,439,599.

Comparison with the previous year shows that in 1925 there were 3 new plants in the aerated waters industry and 1 in the cement products group, while 2 concerns engaged in cutting and finishing stone, went out of business. Production value showed but little change; capital employed declined a million dollars, and the number of employees was nearly the same as in 1924; petroleum refining was the most important industry in this province with the coke industry next in line.

**New Brunswick.**—New Brunswick was represented in the non-metallic mineral products industry by 35 different firms which produced commodities valued in the aggregate at \$826,790. There were 16 concerns manufacturing aerated waters, 5 making cement products, 2 producing artificial gas, 9 in the monumental and ornamental stone group and 1 in each of the glass, imported-clay products and petroleum products industries. New plants in operation during 1925 included 1 making aerated waters, 2 making cement products and 1 for the blending of oils.

**Quebec.**—Quebec ranked next to Ontario as a producer of manufactures from non-metallic mineral products. In 1925 there were 203 plants operating in the following industries; aerated waters, 88 plants; monumental and ornamental stone, 41 concerns; cement products 34 establishments; miscellaneous non-metallic mineral products, 13 plants; glass 10 plants; imported-clay products, 5 plants; gas, 4 plants; petroleum products, 4 establishments; and the asbestos products industry, 4 concerns. The combined production of these plants amounted in value to \$25,741,323, of which the petroleum industry contributed \$8,667,838; the gas industry, \$6,441,871; the glass industry \$4,189,038; the aerated waters industry \$2,592,501; the asbestos and miscellaneous industries about a million dollars each; the imported-clay products and the stone industries about \$600,000 each and cement products over \$300,000. As compared with 1924 there were 8 additional plants making aerated waters, 2 making asbestos products and 16 manufacturing cement products, while apparently

4 concerns in the miscellaneous non-metallic products industry, 1 making glass products and 1 making monumental and ornamental stone did not operate during the year. With the exception of the monumental and ornamental stone, illuminating and fuel gas, and miscellaneous non-metallic mineral products industries, substantial gains in production values were recorded in each industrial group.

**Ontario.**—Of the 915 plants in Canada engaged in the manufacture of non-metallic mineral products during 1925 over half or 501 were located in Ontario; and of a total production valued at \$115,873,848 for the industry, Ontario accounted for \$57,965,060.

By industries, petroleum products held first place with 7 operating plants, a capital investment of 17 million dollars and a production valued at 20.4 million dollars; the illuminating and fuel gas industry was second with 21 establishments and an output worth 8.7 million dollars; the coke industry held third place when the 3 plants produced nearly 7 million dollars' worth of commodities. The miscellaneous non-metallic mineral products had an output worth nearly 7 million dollars; glass products were worth over 5 million dollars; the products of the monumental and ornamental stone industry were worth 3.5 million dollars; the output of aerated waters approached the 2.4 million dollar mark; cement products and imported-clay products, sand-lime brick, and asbestos followed in the order named.

Including 1,334 salaried employees, the non-metallic minerals products industries in Ontario gave employment to 8,613 persons throughout the year, while expenditures in salaries and wages amounted in all to \$11,725,965. In 1924, there were only 436 plants in this group in Ontario. The additional plants in operation in 1925 were distributed by industries as follows: cement products, 56; monumental and ornamental stone, 5; glass products, 4; miscellaneous industries, 3; and asbestos products, 1; while 3 sand-lime brick factories and 1 plant making petroleum products did not operate during the year.

**Manitoba.**—Manitoba has 13 plants in the monumental and ornamental stone industry; 10 in the aerated waters industry; 8 in the gas industry; 3 in the glass group; 2 making sand-lime brick; and 1 petroleum refinery. These 37 establishments used 1.3 million dollars' worth of raw materials in the production of 2.6 million dollars' worth of non-metallic mineral products and afforded employment to 480 persons throughout the year. The gas industry was the most important in this province with monumental and ornamental stone, aerated waters, petroleum refining, glass and sand-lime brick following in order of importance.

**Saskatchewan.**—Manufactures of non-metallic mineral products in Saskatchewan were valued at \$6,053,791 in 1925. There were 28 plants in operation during the year; 16 made aerated waters; 7 produced finished stone products; 1 made acetylene gas and 1 made Pintsch gas; 2 made cement products; and 1 plant refined petroleum. There were 4 more plants in the aerated waters industry than in 1924, but the 1 plant making sand-lime brick did not operate during the year.

**Alberta.**—With 28 plants in this group Alberta contributed nearly 6.4 million dollars to the total value of non-metallic mineral products made in Canada. Alberta was represented by 14 firms manufacturing aerated waters; 3 oil refineries and 1 plant making lubricating oils, etc.; 5 concerns producing monumental and building stone; 1 plant making oil gas; 1 making pressed and blown glass; 1 cutting and bevelling plate glass to make mirrors, etc.; and 2 concerns making cement products. Compared with 1924 there was thus a loss of 4 plants in the petroleum products group, 2 in the aerated waters industry and 1 in the stone industry, and a gain of 2 concerns making cement products, and 1 making mirrors, etc., from plate glass. With the exception of the most important industry, petroleum refining, each industrial group showed a small gain in production value over that of the previous year.

**British Columbia.**—Plants in British Columbia engaged in the manufacture of non-metallic mineral products numbered 44, and the production was valued at \$7,760,918. Capital employed in the whole group amounted to over 14 million dollars and employment was given to an average of 911 people the year round. There were 17 plants manufacturing

carbonated beverages of all kinds and the output of these commodities was worth \$308,821; 5 establishments produced \$1,179,429 worth of gas and by-products for sale; 9 concerns produced finished monumental and ornamental stone worth \$148,892; 4 firms made leaded glass, mirrors, art glass, etc., valued at \$16,843; 4 firms made cement products; 2 made metallurgical coke; 2 refined petroleum; and 1 produced asbestos pipe covering and similar commodities.

In 1924, there were 37 plants in operation and the aggregate production was valued at slightly more than 8 million dollars. In 1925 there were 2 additional plants in the monumental and ornamental stone industry; 1 in the aerated waters industry; and 4 in the cement products industry.

#### (d) Prices

**NON-METALLIC MINERALS AND THEIR PRODUCTS.**—From 183.4 in 1924 the index for the commodities included in this group fell to 176.6 in 1925. This decline was due to lower prices for several commodities which more than offset increases for a few others.

*Bricks.*—Montreal quotations were unchanged in 1925.

*Pottery.*—Printed dinner sets, at Toronto, rose from \$13.29 per set to \$15.25.

*Coal.*—Anthracite coal at Toronto, due to the strike at the mines, rose from \$12.25 per ton in 1924 to \$13.06 in 1925. B.C. run-of-mine coal was \$4.35 per ton at the mines as compared with \$5.45 in 1924.

*Glass and Glassware.*—Tank glass tumblers were slightly higher, being \$4.77 per gross as compared with \$4.70 in 1924. Window glass, however, in common with many building materials, was lower in price. Under 26 inches fell from \$4.98 per box in 1924 to \$4.11 in 1925.

*Petroleum and its Products.*—Coal Oil W.W., fell from 21½c. per gallon to 20c. and gasoline, at Toronto, from 25½c. to 23½c. The lower average was due to heavy crude oil production resulting in superabundant supplies of gasoline in spite of a heavy demand.

*Lime and Cement.*—Continued quietness in building was reputed to be the cause of lower prices for lime and cement. High calcium lime fell from \$8.83 per ton in 1924 to \$8.08 in 1925 and Portland cement from an average of \$2.12 per barrel to \$1.97 per barrel. The price of \$1.97 prevailed during the last half of 1924 and during 1925.

*Salt.*—The price of fine salt averaged \$1.43 per barrel in 1925 as compared with \$1.91 in 1924.

*Sulphur.*—This commodity was \$19.75 per gross ton ex vessel, there being no change from 1924 prices.

Table 1(a).—Summary Statistics Relating to the Manufacture of Non-Metallic Mineral Products Industries in Canada, 1921-1925

Year	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials	Value of products	Value added by manufacturing
<b>AERATED WATERS</b>							
		\$		\$	\$	\$	\$
1921	320	8,236,946	1,932	1,811,983	3,607,147	9,176,866	5,599,721
1922	283	8,205,457	1,537	1,803,364	2,705,957	6,594,509	3,888,552
1923	295	8,315,389	1,724	1,843,531	2,672,332	6,498,832	3,736,500
1924	296	9,385,802	1,543	1,807,572	1,982,340	6,354,358	4,372,018
1925	313	10,673,331	1,684	1,849,254	3,076,563	6,877,524	3,800,961
<b>ASBESTOS AND ALLIED PRODUCTS</b>							
1921	11	1,351,278	132	273,522	385,810	801,603	418,793
1922	11	1,610,700	156	189,059	271,749	615,160	343,411
1923	9	1,486,589	145	176,980	260,281	583,013	322,732
1924	9	1,468,728	120	169,979	267,201	589,339	322,138
1925	12	2,624,260	256	282,382	783,063	1,344,097	561,034
<b>CEMENT PRODUCTS AND SAND-LIME BRICK</b>							
1921	118	2,789,060	604	639,658	694,923	2,095,997	1,401,074
1922	135	2,777,968	614	659,973	825,238	2,139,811	1,314,573
1923	120	2,707,199	646	743,993	814,772	2,403,488	1,588,716
1924	128	3,019,997	691	673,123	674,530	1,877,817	1,203,287
1925	206	3,555,465	1,025	940,712	860,451	2,801,794	1,941,343
<b>COKE AND BY-PRODUCTS</b>							
1921	6	19,866,300	647	1,222,789	12,295,797	14,214,728	1,018,931
1922	6	20,363,785	533	716,893	6,130,628	7,336,627	1,205,999
1923	5	20,494,442	598	842,376	11,437,863	13,901,445	2,463,582
1924	6	24,315,744	530	900,992	6,879,516	10,438,402	3,558,946
1925	6	23,965,454	583	885,637	7,112,311	11,020,298	3,907,987
<b>GLASS</b>							
1921	48	13,725,482	3,097	3,621,768	3,074,358	11,461,932	7,487,574
1922	45	15,053,327	2,984	3,309,854	3,287,091	8,842,588	5,555,497
1923	46	14,892,372	3,350	3,778,802	3,714,515	11,098,026	7,383,511
1924	48	15,301,814	3,137	3,666,213	3,667,660	10,776,816	7,109,156
1925	52	12,694,338	2,778	3,291,912	4,029,035	10,117,604	6,098,569
<b>ILLUMINATING AND FUEL GAS</b>							
1921	50	37,097,280	2,818	3,984,976	9,270,697	18,772,285	9,492,588
1922	48	39,615,765	3,107	3,974,705	8,580,208	19,089,170	10,508,962
1923	45	45,526,495	3,021	3,801,832	9,024,084	10,605,340	10,581,256
1924	44	42,818,276	3,648	4,835,351	6,772,576	18,101,724	11,329,118
1925	44	46,129,651	3,804	5,057,702	6,178,699	17,871,479	11,695,870
<b>PRODUCTS FROM IMPORTED CLAY</b>							
1924	12	1,677,533	489	567,143	635,793	1,879,769	1,343,976
1925	12	2,762,951	552	653,211	326,023	1,741,745	1,415,722
<b>MONUMENTAL AND ORNAMENTAL STONE</b>							
1921	173	3,971,172	1,207	1,652,837	1,478,067	4,540,028	3,061,931
1922	208	5,027,935	1,273	1,809,444	1,844,548	4,968,487	3,123,939
1923	210	5,073,618	1,278	1,842,963	1,683,126	5,025,003	3,341,877
1924	210	4,944,260	1,344	1,887,462	1,441,753	4,730,672	3,288,810
1925	214	5,015,729	1,262	1,811,512	1,964,817	5,355,997	3,301,180
<b>PETROLEUM PRODUCTS</b>							
1921	16	57,564,588	4,014	6,182,514	36,629,576	52,932,415	16,302,839
1922	19	62,054,029	3,555	5,492,683	38,443,191	57,035,563	18,622,372
1923	20	61,027,704	4,257	5,648,320	36,816,696	46,280,534	9,463,838
1924	25	53,795,794	3,669	5,749,705	37,092,711	49,411,067	12,318,356
1925	21	50,580,549	3,738	5,775,046	38,261,024	50,762,127	12,501,103
<b>*MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS</b>							
1921	23	2,253,322	902	411,044	553,517	1,256,938	703,421
1922	26	6,354,115	1,371	722,080	1,318,652	3,015,539	1,606,887
1923	38	7,262,403	2,017	1,492,846	2,879,015	8,147,331	5,268,316
1924	36	6,659,059	1,767	1,328,976	2,427,145	6,091,901	4,584,759
1925	35	8,322,096	1,316	1,371,895	2,686,856	7,878,183	5,201,327
<b>Total for all Industries Listed Above</b>							
1921	764	116,855,434	15,413	19,801,091	68,898,972	115,255,794	46,356,872
1922	781	161,063,081	15,136	18,738,055	63,377,262	109,637,454	46,269,192
1923	794	166,786,211	17,936	20,171,649	69,302,684	113,153,012	41,150,328
1924	814	161,390,016	16,948	21,586,546	61,741,325	111,151,828	49,110,693
1925	815	166,263,824	16,998	21,919,263	65,278,752	115,873,818	50,583,096

\*The Miscellaneous Non-Metallic Mineral Products group includes: The Abrasive Products Industry, the Artificial Graphite and Electrodes Industry, Gypsum Products Industry, Mica Trimming Industry, and, in 1922 to 1925, the Artificial Abrasives Industry.

Table 1(b).—Summary of Principal Statistics Relative to Certain Mineral Industries in Canada, 1921-1925

NOTE.—The foregoing list of industries includes all those shown in the Bureau classification under the heading "Manufactures of Non-Metallic Mineral Products." But there are several other groups classified by the Bureau as primary mineral industries which are ordinarily regarded as manufacturing enterprises. These industries have been described in the *Annual Report on the Mineral Production of Canada* to which the reader is referred for detailed information, but for convenience of reference and for the making of a grand total the principal statistics relating to them have been repeated below.

(From the annual Report on the Mineral Production of Canada.)

Year	Number of plants	Capital employed	Average number of employees	Salaries and wages	† Miscellaneous expenses	† Cost of fuel	Net value of products
<b>CLAY PRODUCTS</b>							
<b>BRICK AND TILE</b>							
1921	202	\$ 21,138,115	3,597	\$ 2,780,204	\$ 1,206,828	1,393,297	\$ 6,526,440
1922	216	23,821,180	3,904	3,782,341	2,112,790	1,644,463	8,911,539
1923	204	24,860,834	3,954	4,045,487	1,410,051	2,254,445	8,220,289
1924	192	24,423,104	3,332	3,071,379	.....	1,508,573	7,046,355
1925	175	22,410,450	3,403	3,167,926	.....	1,565,341	7,374,551
<b>CLAY SEWER PIPE</b>							
1921	5	3,177,036	465	566,838	226,974	329,486	1,503,715
1922	5	3,057,149	448	547,411	282,705	217,228	1,571,464
1923	5	3,022,522	459	561,515	307,870	307,681	1,421,002
1924	5	3,149,838	467	590,598	.....	281,448	1,343,197
1925	5	2,810,782	382	461,527	.....	240,038	1,182,454
<b>FIREBRICK AND FIRE CLAY PRODUCTS</b>							
1921	7	1,643,122	233	308,040	88,873	74,318	604,921
1922	5	1,705,753	182	204,548	53,015	82,228	683,266
1923	6	1,786,353	192	286,377	61,277	90,286	605,988
1924	7	1,850,385	208	258,416	.....	74,431	584,838
1925	6	2,114,738	220	274,919	.....	88,552	702,707
<b>STONWARE AND POTTERY</b>							
1921	4	275,265	104	112,800	127,306	15,065	216,284
1922	4	280,467	112	124,575	22,010	12,652	252,889
1923	4	314,862	119	117,221	88,233	14,607	230,924
1924	6	387,667	113	114,925	.....	14,642	240,687
1925	4	424,894	131	129,703	.....	15,660	269,979
<b>CEMENT</b>							
1921	14	49,160,180	2,751	3,443,884	2,602,029	2,788,820	14,195,143
1922	11	41,573,737	1,753	2,315,240	2,976,152	2,457,456	15,438,481
1923	10	38,284,494	1,842	2,551,784	2,947,242	2,809,414	15,064,661
1924	10	36,766,574	1,837	2,531,622	1,524,158	2,872,711	13,398,411
1925	11	38,081,583	1,926	2,511,400	.....	2,848,904	14,046,704
<b>LIME</b>							
1921	66	4,960,969	931	949,966	407,620	698,992	2,781,197
1922	62	4,984,910	1,110	1,013,486	522,222	725,168	3,165,005
1923	56	6,050,954	1,197	1,191,416	806,916	953,709	3,260,608
1924	49	5,165,964	927	970,672	757,898	740,878	3,178,541
1925	62	5,154,046	1,006	960,434	.....	762,814	3,387,652
<b>SALT</b>							
1921	13	2,267,708	330	441,832	381,126	527,013	1,673,685
1922	11	2,205,184	371	432,261	407,105	369,000	1,628,323
1923	12	2,406,992	368	412,597	404,046	356,794	1,713,516
1924	12	2,479,563	364	431,618	424,578	342,118	1,374,780
1925	13	2,563,508	402	467,487	.....	315,368	1,410,697
<b>Total of Mineral Industries Listed Above</b>							
1921	311	82,652,395	8,411	8,573,564	5,046,846	5,826,991	27,561,385
1922	314	77,628,346	7,889	8,479,862	6,374,999	5,508,195	31,650,967
1923	297	76,733,011	8,131	9,166,397	6,025,635	6,786,936	30,522,948
1924	281	74,223,695	7,248	7,975,230	.....	5,831,804	27,166,809
1925	276	73,566,001	7,470	7,973,396	.....	5,836,677	28,371,744
<b>GRAND TOTAL</b>							
1921	1,075	229,567,829	23,824	28,374,655	.....	.....	142,757,170
1922	1,095	238,691,461	23,010	27,217,917	.....	.....	141,288,421
1923	1,091	243,519,222	26,067	29,338,046	.....	.....	143,975,960
1924	1,095	235,613,111	24,186	29,561,746	.....	.....	138,318,637
1925	1,191	239,823,925	24,468	29,892,659	.....	.....	144,248,592

†Cost of electricity used was included with miscellaneous expenses in 1921 and 1922; but from 1923 to 1925 this item was grouped with cost of fuel.

Table 2.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries and by Provinces, 1924

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	*Canada
<b>AERATED WATERS INDUSTRY</b>									
Number of plants.....	18	15	80	131	8	12	16	16	796
Capital employed.....\$	203,202	245,723	2,213,585	4,294,015	910,529	462,807	603,766	356,115	9,385,802
Salaried employees—									
Male.....	12	10	111	102	20	14	35	19	323
Female.....	2	5	16	20	6	4	4	4	53
Wage-earners—									
Male.....	38	46	417	412	66	31	42	45	1,097
Female.....	6	.....	21	32	2	2	4	3	70
Total employees.....	58	61	565	566	94	47	85	67	1,543
Salaries and wages—									
Salaries.....\$	15,873	24,007	242,287	231,795	42,104	25,177	59,659	32,192	673,094
Wages.....\$	34,407	34,679	393,443	428,763	93,648	44,055	50,499	54,984	1,134,478
Total.....\$	50,280	58,686	635,730	660,558	135,752	69,232	110,158	87,176	1,807,572
Cost of fuel and electricity.....\$	3,614	4,341	45,965	46,413	9,800	7,163	5,003	9,304	131,609
Cost of materials.....\$	99,570	91,287	600,313	756,852	78,027	101,717	110,985	143,589	1,982,340
Value of products.....\$	192,711	249,377	2,204,763	1,363,346	382,630	296,902	320,592	338,037	6,351,358
<b>ASBESTOS AND ALLIED PRODUCTS INDUSTRY—</b>									
Number of plants.....	1	.....	2	5	.....	.....	.....	1	9
Capital employed.....\$	.....	.....	.....	519,650	.....	.....	.....	.....	1,468,729
Salaried employees—									
Male.....	.....	.....	.....	16	.....	.....	.....	.....	33
Female.....	.....	.....	.....	6	.....	.....	.....	.....	10
Wage-earners—									
Male.....	.....	.....	.....	22	.....	.....	.....	.....	71
Female.....	.....	.....	.....	4	.....	.....	.....	.....	6
Total employees.....	.....	.....	.....	48	.....	.....	.....	.....	120
Salaries and wages—									
Salaries.....\$	.....	.....	.....	44,438	.....	.....	.....	.....	92,514
Wages.....\$	.....	.....	.....	30,279	.....	.....	.....	.....	77,465
Total.....\$	.....	.....	.....	74,717	.....	.....	.....	.....	169,979
Cost of fuel and electricity.....\$	.....	.....	.....	7,890	.....	.....	.....	.....	19,949
Cost of materials.....\$	.....	.....	.....	184,019	.....	.....	.....	.....	267,201
Value of products.....\$	.....	.....	.....	370,362	.....	.....	.....	.....	589,339
<b>CEMENT PRODUCTS INDUSTRY—</b>									
Number of plants.....	1	3	18	92	.....	.....	2	.....	116
Capital employed.....\$	.....	43,211	273,350	1,348,246	.....	.....	.....	.....	1,673,758
Salaried employees—									
Male.....	.....	2	12	32	.....	.....	.....	.....	48
Female.....	.....	.....	.....	7	.....	.....	.....	.....	7
Wage-earners—									
Male.....	.....	9	78	305	.....	.....	.....	.....	399
Female.....	.....	.....	.....	1	.....	.....	.....	.....	1
Total employees.....	.....	11	90	345	.....	.....	.....	.....	455
Salaries and wages—									
Salaries.....\$	.....	1,700	13,600	71,408	.....	.....	.....	.....	87,308
Wages.....\$	.....	6,540	62,310	268,385	.....	.....	.....	.....	337,770
Total.....\$	.....	8,240	75,910	339,793	.....	.....	.....	.....	425,078
Cost of fuel and electricity.....\$	.....	714	3,965	21,710	.....	.....	.....	.....	26,419
Cost of materials.....\$	.....	7,848	106,300	377,667	.....	.....	.....	.....	493,270
Value of products.....\$	.....	18,855	235,617	1,001,036	.....	.....	.....	.....	1,257,871
<b>SAND-LIME BRICK INDUSTRY—</b>									
Number of plants.....	.....	.....	.....	10	1	1	.....	.....	12
Capital employed.....\$	.....	.....	.....	961,435	.....	.....	.....	.....	1,346,239
Salaried employees—									
Male.....	.....	.....	.....	17	.....	.....	.....	.....	23
Female.....	.....	.....	.....	5	.....	.....	.....	.....	5
Wage-earners—									
Male.....	.....	.....	.....	186	.....	.....	.....	.....	209
Female.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total employees.....	.....	.....	.....	208	.....	.....	.....	.....	236
Salaries and wages—									
Salaries.....\$	.....	.....	.....	42,985	.....	.....	.....	.....	48,785
Wages.....\$	.....	.....	.....	195,116	.....	.....	.....	.....	199,260
Total.....\$	.....	.....	.....	238,101	.....	.....	.....	.....	248,045
Cost of fuel and electricity.....\$	.....	.....	.....	59,470	.....	.....	.....	.....	61,237
Cost of materials.....\$	.....	.....	.....	174,077	.....	.....	.....	.....	181,260
Value of products.....\$	.....	.....	.....	604,275	.....	.....	.....	.....	619,346

\*Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces but they are included in the Canada totals for each industry.

Table 2.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries, and by Provinces, 1924—Continued.

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>COKE AND BY-PRODUCTS INDUSTRY—</b>									
Number of plants.....	1			3				2	6
Capital employed.....\$				10,925,764					24,315,744
Salaries and wages—									
Male.....				14					28
Female.....									
Wage-earners—									
Male.....				251					501
Female.....				1					1
Total employees.....				266					539
Salaries and wages—									
Salaries.....\$				45,078					84,854
Wages.....\$				461,009					816,138
Total.....\$				506,087					900,992
Cost of fuel and electricity.....\$				665,613					1,125,067
Cost of materials—									
Firms' own make.....\$				70,203					90,188
Purchased materials.....\$				4,565,443					6,789,328
Total.....\$				4,641,646					6,879,516
Value of products—									
Made for use in coke plant.....\$				708,341					1,101,481
Made for use in metallurgical works.....\$				4,183,079					6,322,069
Made for sale.....\$				1,931,289					3,014,912
Total.....\$				6,823,309					10,438,462
<b>GLASS INDUSTRY—</b>									
Number of plants.....		1	11	28	3			4	48
Capital employed.....\$			5,443,807	6,820,634	106,041			44,546	13,304,814
Salaries and wages—									
Male.....			61	115	7			5	194
Female.....			12	34	3				58
Wage-earners—									
Male.....			1,031	1,465	15			7	2,659
Female.....			93	139				1	243
Total employees.....			1,197	1,753	25			13	3,137
Salaries and wages—									
Salaries.....\$			133,506	337,068	12,581			3,605	511,660
Wages.....\$			1,195,240	1,750,480	17,173			8,276	3,154,553
Total.....\$			1,328,746	2,093,548	29,754			11,881	3,666,213
Cost of fuel and electricity.....\$			503,731	742,629	792			568	1,255,190
Cost of materials.....\$			1,127,624	2,147,988	50,947			10,509	3,667,660
Value of products.....\$			3,817,455	5,895,490	88,781			25,906	10,776,816
<b>ILLUMINATING AND FUEL GAS INDUSTRY—</b>									
Number of plants.....	1	2	4	21	8		2	1	5
Capital employed.....\$			6,978,091	23,504,144	5,466,931			5,466,224	42,818,276
Salaries and wages—									
Male.....			49	275	35			43	423
Female.....			153	185	22			6	369
Wage-earners—									
Male.....			841	1,548	140			235	2,851
Female.....				1	2				3
Total employees.....			1,043	2,009	199			284	3,648
Salaries and wages—									
Salaries.....\$			397,023	641,789	78,045			87,561	1,231,513
Wages.....\$			962,031	2,034,913	195,947			303,881	3,693,839
Total.....\$			1,359,054	2,676,702	273,992			391,442	4,925,351
Cost of fuel and electricity.....\$			841,666	1,325,738	219,611			250,138	2,706,182
Cost of materials—									
Firms' own make.....\$			98,967	336,272	24,762			8,723	468,721
Purchased materials.....\$			2,385,158	3,042,410	441,067			304,110	6,393,552
Total.....\$			2,484,125	3,378,682	465,829			300,833	6,772,576
Value of products—									
By-products made for use.....\$				724,831	126,133			139,131	1,005,291
By-products made for sale.....\$									
Income from gas sold.....\$			1,359,008	969,461	257,338			160,973	2,828,116
Total.....\$			5,153,954	7,188,245	792,854			856,288	14,288,315
Total.....\$			6,512,982	8,892,537	1,178,325			1,156,372	18,161,724

\*Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces but they are included in the Canada totals for each industry.



Table 2.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries and by Provinces, 1924—Continued

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>PRODUCTS FROM IMPORTED CLAY INDUSTRY—</b>									
Number of plants.....		1	5	6					13
Capital employed.....\$				994,662					1,677,533
Salaried employees—									
Male.....				19					36
Female.....				8					9
Wage-earners—									
Male.....				293					421
Female.....				16					29
Total employees.....				336					489
Salaries and wages—									
Salaries.....\$				63,157					101,277
Wages.....\$				332,011					462,866
Total.....\$				395,168					567,143
Cost of fuel and electricity.....\$				73,962					141,491
Cost of materials.....\$				382,250					533,293
Value of products.....\$				1,472,713					1,879,769
<b>MONUMENTAL AND ORNAMENTAL STONE INDUSTRY—</b>									
Number of plants.....	14	9	42	113	12	7	6	7	210
Capital employed.....\$	70,719	132,078	1,080,515	2,674,090	449,284	216,945	225,812	88,826	4,911,269
Salaried employees—									
Male.....	1	7	31	95	21	14	8	7	184
Female.....		1	2	12	4	3	3		25
Wage-earners—									
Male.....	36	58	314	558	76	26	21	43	1,132
Female.....		1		2					3
Total employees.....	37	67	347	667	101	43	32	50	1,344
Salaries and wages—									
Salaries.....\$	1,200	10,730	81,143	207,333	52,871	25,208	16,277	14,322	469,684
Wages.....\$	29,846	56,801	404,732	771,227	82,992	34,677	33,528	64,555	1,474,378
Total.....\$	31,046	67,531	485,875	978,560	135,863	59,885	49,805	78,877	1,887,462
Cost of fuel and electricity.....\$	2,451	2,012	36,008	41,966	6,807	1,203	1,734	3,580	95,291
Cost of materials.....\$	55,113	33,041	271,790	899,300	91,029	34,019	31,088	26,373	1,411,733
Value of products.....\$	126,243	137,494	1,137,660	2,639,443	277,669	128,844	136,110	147,109	4,730,672
<b>PETROLEUM PRODUCTS INDUSTRY—</b>									
Number of plants.....	1		4	8	1	1	8	2	25
Capital employed.....\$			8,712,950	15,044,260			9,908,910		53,793,791
Salaried employees—									
Male.....			50	160			41		284
Female.....			11	33			6		64
Wage-earners—									
Male.....			512	1,439			368		3,185
Female.....			5	18			1		28
Total employees.....			587	1,650			416		3,669
Salaries and wages—									
Salaries.....\$			136,845	400,380			92,673		961,281
Wages.....\$			728,284	2,137,767			577,810		4,788,424
Total.....\$			865,129	2,547,147			670,483		5,749,705
Cost of fuel and electricity.....\$			636,420	1,444,713			298,068		3,586,532
Cost of materials.....\$			5,011,900	14,506,930			4,118,846		37,692,711
Value of products—									
Made for use.....\$			575,806	551,676			143,277		2,419,016
Made for sale.....\$			6,468,123	18,162,840			5,809,096		46,992,051
Total.....\$			7,044,019	18,717,516			5,944,273		49,411,067
<b>MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY—</b>									
Number of plants.....			17	19					36
Capital employed.....\$			1,941,533	4,717,526					6,659,059
Salaried employees—									
Males.....			21	89					116
Female.....			11	32					43
Wage-earners—									
Male.....			161	587					749
Female.....			767	99					866
Total employees.....			960	807					1,767

\*Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces but they are included in the Canada totals for each industry.

Table 2.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries and by Provinces, 1924—Concluded

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	*Canada
<b>MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY—Con.</b>									
Salaries and wages—									
Salaries.....\$			53,765	208,778					262,573
Wages.....\$			279,382	787,021					1,066,403
Total.....\$			333,177	995,799					1,328,976
Cost of fuel and electricity.....\$			130,483	433,737					564,220
Cost of materials.....\$			476,083	1,951,002					2,427,145
Value of products.....\$			1,306,433	5,685,471					6,991,904
<b>All Industries—</b>									
Number of plants.....	37	31	183	436	33	25	32	37	814
Capital employed.....\$	22,466,177	460,483	28,246,887	71,813,426	7,411,954	5,811,964	11,751,574	13,447,551	161,390,016
Salaried employees—									
Male.....	71	31	377	934	88	60	91	133	1,785
Female.....	12	7	210	312	35	6	13	10	635
Wage-earners—									
Male.....	681	151	3,532	7,066	307	377	562	603	13,279
Female.....	9	1	891	313	4	2	15	4	1,239
Total employees.....	773	190	5,010	8,655	434	445	681	750	16,938
Salaries and wages—									
Salaries.....\$	168,442	43,435	1,145,395	2,363,209	192,501	136,834	192,866	283,260	4,466,942
Wages.....\$	872,837	144,134	4,200,755	9,202,971	397,931	545,775	839,065	916,103	17,119,574
Total.....\$	1,041,279	187,569	5,346,150	11,566,180	590,435	682,609	1,032,931	1,199,363	21,586,516
Cost of fuel and electricity.....\$	926,885	23,426	2,277,432	4,863,821	251,077	470,019	316,168	581,809	9,213,687
Cost of materials—									
Firms' own make.....			98,967	412,175	21,762			22,708	558,912
Purchased materials.....\$	6,067,375	199,038	10,285,878	29,011,998	1,028,164	4,167,121	4,576,518	5,596,218	61,182,313
Total.....\$	6,067,375	199,038	10,384,845	29,454,173	1,052,926	4,167,121	4,576,518	5,618,926	61,741,225
Value of products.....\$									
Made for own use.....\$	2,256,403	14,949	575,896	6,171,527	138,243	432,143	142,277	1,115,319	10,847,857
Made for sale.....\$	6,929,039	548,968	22,288,708	48,282,980	2,243,289	5,883,239	7,203,265	6,953,443	100,203,971
Total.....\$	9,185,442	563,917	22,864,604	54,453,507	2,381,632	6,315,382	7,346,582	8,068,762	111,151,828

\*Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces but they are included in the Canada totals for each industry.

**Table 3.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries and by Provinces, 1925**

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>AERATED WATERS INDUSTRY</b>									
Number of plants.....	21	16	88	131	10	16	14	17	313
Capital employed.....\$	202,655	249,965	3,049,711	4,311,131	1,020,296	553,592	603,469	582,512	10,673,331
Salaries and wages—									
Male.....	18	6	136	93	20	16	22	14	325
Female.....		4	21	22	3	2	4	1	57
Wage-earners—									
Male.....	30	48	467	430	89	52	43	52	1,226
Female.....	7	1	24	33	3	4	7	3	82
Total employees.....	64	59	648	578	115	74	76	70	1,684
Salaries and wages—									
Salaries.....\$	19,008	16,031	269,183	173,098	32,807	24,633	39,892	24,389	599,041
Wages.....\$	37,473	43,583	460,700	432,262	99,478	59,570	51,589	65,558	1,230,213
Total.....\$	56,481	59,614	729,883	605,360	132,285	84,203	91,481	89,947	1,819,254
Cost of fuel and electricity.....\$	4,595	4,700	49,101	47,542	9,983	13,776	6,689	9,129	115,596
Cost of materials.....\$	93,651	88,479	1,156,235	1,041,432	252,014	151,072	144,384	148,396	3,076,563
Value of products.....\$	180,061	246,472	2,592,501	2,425,681	422,533	350,290	342,165	309,821	6,877,521
<b>ASBESTOS AND ALLIED PRODUCTS INDUSTRY</b>									
Number of plants.....	1		4	6				1	12
Capital employed.....\$			2,072,654	540,065					2,624,289
Salaries and wages—									
Male.....			30	17					48
Female.....			5	7					12
Wage-earners—									
Male.....			143	25					170
Female.....			21	4					26
Total employees.....			199	53					256
Salaries and wages—									
Salaries.....\$			62,152	46,535					110,488
Wages.....\$			140,762	28,517					171,894
Total.....\$			202,915	75,052					282,382
Cost of fuel and electricity.....\$			55,247	7,022					62,649
Cost of materials.....\$			567,152	207,240					783,663
Value of products.....\$			922,641	403,254					1,344,697
<b>CEMENT PRODUCTS INDUSTRY</b>									
Number of plants.....	2	5	34	148			2	4	197
Capital employed.....\$		41,348	392,081	2,068,497				21,143	2,504,226
Salaries and wages—									
Male.....		1	24	54					82
Female.....			1	7					8
Wage-earners—									
Male.....		15	182	504				9	724
Female.....			2	3					5
Total employees.....		16	179	568				9	819
Salaries and wages—									
Salaries.....\$		900	24,126	69,968					125,567
Wages.....\$		4,482	120,479	411,836				2,575	572,149
Total.....\$		5,382	150,605	511,704				2,575	697,716
Cost of fuel and electricity.....\$		497	8,476	30,751				30	40,442
Cost of materials.....\$		6,077	151,933	516,258				2,537	730,296
Value of products.....\$		24,077	398,192	1,499,938				7,448	2,020,239
<b>SAND-LIME BRICK INDUSTRY</b>									
Number of plants.....				7	2				9
Capital employed.....\$									966,729
Salaries and wages—									
Male.....									16
Female.....									1
Wage-earners—									
Male.....									189
Female.....									
Total employees.....									206
Salaries and wages—									
Salaries.....\$									35,327
Wages.....\$									297,659
Total.....\$									212,996
Cost of fuel and electricity.....\$									67,644
Cost of materials.....\$									139,155
Value of products.....\$									781,555

\*Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces but they are included in the Canada totals for each industry.

Table 3.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries and by Provinces, 1925—Continued

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>COKE AND BY-PRODUCTS INDUSTRY—</b>									
Number of plants.....	1			3				2	6
Capital employed..... \$				10,573,647					23,965,454
Salaried employees—									
Male.....				14					27
Female.....									
Wage-earners—									
Male.....				235					555
Female.....				1					1
Total employees.....				250					583
Salaries and wages—									
Salaries..... \$				46,344					80,090
Wages..... \$				446,821					865,547
Total..... \$				493,165					945,637
Cost of fuel..... \$				648,039					1,213,677
Cost of materials—									
Firm's own make..... \$				72,011					85,550
Purchased materials..... \$				4,300,412					7,076,761
Total..... \$				4,372,423					7,112,311
Value of products—									
Made for use in coke plant..... \$				664,667					1,000,991
Made for use in metallurgical works..... \$				3,619,670					5,799,093
Made for sale..... \$				2,717,576					4,229,214
Total..... \$				7,001,913					11,029,298
<b>GLASS INDUSTRY—</b>									
Number of plants.....		1	10	32	3			2	4
Capital employed..... \$			5,845,085	5,844,224	105,554			15,518	12,694,338
Salaried employees—									
Male.....			85	114	7			4	218
Female.....			25	29	1			1	59
Wage-earners—									
Male.....			1,109	1,074	17			5	2,291
Female.....			141	61				1	210
Total employees.....			1,360	1,278	25			11	2,778
Salaries and wages—									
Salaries..... \$			178,768	307,333	11,510			3,780	530,774
Wages..... \$			1,287,337	1,352,557	21,022			6,233	2,761,138
Total..... \$			1,466,105	1,659,890	32,532			10,013	3,291,912
Cost of fuel..... \$			576,508	518,574	822			567	1,101,868
Cost of materials..... \$			1,457,927	2,316,286	54,092			7,525	4,029,035
Value of products..... \$			4,189,038	5,352,344	97,310			16,843	10,117,601
<b>ILLUMINATING AND FUEL GAS INDUSTRY—</b>									
Number of plants.....	1	2	4	21	8		2	1	5
Capital employed..... \$			6,999,625	26,078,348	5,405,232			6,244,406	46,129,651
Salaried employees—									
Male.....			168	301	37			51	577
Female.....			77	182	23			7	292
Wage-earners—									
Male.....			879	1,591	119			245	2,928
Female.....				2	179			7	7
Total employees.....			1,124	2,076	307			303	3,804
Salaries and wages—									
Salaries..... \$			415,145	681,910	90,047			101,680	1,326,359
Wages..... \$			1,010,126	2,150,717	165,198			301,602	3,731,343
Total..... \$			1,425,271	2,832,627	255,245			403,282	5,057,702
Cost of fuel..... \$			256,229	897,124	68,409			85,125	1,128,846
Cost of materials—									
Firm's own make..... \$			72,946	271,707	75,630			18,118	438,401
Purchased materials..... \$			2,068,408	2,819,532	394,860			317,251	5,740,298
Total..... \$			2,161,354	3,091,239	470,490			335,369	6,178,699
Value of products—									
By-products made for use..... \$			102,715	662,625	86,864			91,824	978,416
By-products made for sale..... \$			1,300,413	1,060,707	269,308			156,584	2,848,727
Income from gas sold..... \$			5,038,743	7,024,535	757,759			931,021	14,047,366
Total..... \$			6,441,871	8,747,867	1,113,929			1,179,429	17,874,479

\* Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces, but they are included in the Canada totals for each industry.

Table 3.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries and by Provinces, 1925—Continued

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	*Canada
<b>IMPORTED—CLAY PRODUCTS INDUSTRY—</b>									
Number of plants		1	5	6					12
Capital employed			1,255,135	1,527,816					2,782,951
<b>Salaries and wages—</b>									
Male			27	27					54
Female			2	9					11
<b>Wage-earners—</b>									
Male			178	266					444
Female			3	40					43
Total employees			210	342					552
<b>Salaries and wages—</b>									
Salaries			65,117	84,771					149,888
Wages			198,333	301,990					500,323
Total			263,450	386,761					650,211
Cost of fuel and electricity			96,963	73,376					170,339
Cost of materials			130,183	195,840					326,023
Value of products			604,653	1,133,277					1,737,930
<b>MONUMENTAL AND ORNAMENTAL STONE INDUSTRY—</b>									
Number of plants	12	9	41	118	13	7	5	6	214
Capital employed	82,975	118,437	696,072	3,010,598	561,530	213,114	226,774	97,229	5,015,729
<b>Salaries and wages—</b>									
Male	5	5	24	110	23	9	6	7	199
Female		1	2	13	4	2	3		25
<b>Wage-earners—</b>									
Male	27	50	207	573	106	23	21	39	1,046
Female				2					2
Total employees	32	56	233	698	133	34	30	46	1,262
<b>Salaries and wages—</b>									
Salaries	4,100	9,060	60,128	243,361	57,345	17,980	14,225	10,040	422,239
Wages	24,132	46,507	225,451	853,694	122,577	26,377	40,170	50,365	1,349,273
Total	28,232	55,567	285,579	1,097,055	179,922	44,357	54,395	60,405	1,811,512
Cost of fuel and electricity	2,093	2,296	18,739	52,805	12,892	2,586	1,818	3,700	96,929
Cost of materials	44,378	26,992	216,506	1,407,078	168,392	28,925	38,888	33,660	1,964,812
Value of products	126,632	122,503	687,440	3,485,505	523,258	108,999	152,768	148,802	5,355,997
<b>PETROLEUM PRODUCTS INDUSTRY—</b>									
Number of plants	1	1	4	7	1	1	4	2	21
Capital employed			9,677,552	16,969,751			5,431,170		50,598,519
<b>Salaries and wages—</b>									
Male			68	163			34		393
Female			14	36			4		68
<b>Wage-earners—</b>									
Male			586	1,602			187		3,256
Female			6	17			2		24
Total employees			676	1,824			227		3,738
<b>Salaries and wages—</b>									
Salaries			166,280	427,045			89,833		1,014,946
Wages			813,432	2,370,685			283,924		4,760,166
Total			979,712	2,797,730			373,757		5,775,046
Cost of fuel and electricity			839,858	1,338,002			214,164		3,447,136
Cost of materials			6,710,109	15,808,948			3,742,372		38,261,024
<b>Value of products—</b>									
Made for use			808,355	531,711			117,788		2,419,136
Made for sale			7,859,483	19,894,143			5,340,624		48,342,971
Total			8,667,838	20,425,854			5,458,412		50,762,127
<b>MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY—</b>									
Number of plants			13	22					35
Capital employed			2,417,263	5,004,833					8,322,096
<b>Salaries and wages—</b>									
Male			25	97					122
Female			10	25					35
<b>Wage-earners—</b>									
Male			149	616					765
Female			369	25					391
Total employees			553	763					1,316

\* Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces but they are included in the Canada totals for each industry.

Table 3.—Principal Statistics Relative to the Manufacture of Non-Metallic Mineral Products in Canada, by Industries and by Provinces, 1925—Concluded

Industry	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY—Con.</b>									
Salaries and wages—									
Salaries.....\$			53,608	243,959					297,567
Wages.....\$			280,939	793,389					1,074,328
Total.....\$			334,547	1,037,348					1,371,895
Cost of fuel and electricity.....\$			143,391	448,936					592,327
Cost of materials.....\$			519,692	2,167,164					2,686,856
Value of products.....\$			1,237,149	6,741,034					7,978,183
<b>All Industries—</b>									
Number of plants.....	39	35	203	501	37	28	28	44	915
Capital employed.....\$	21,371,454	804,221	32,385,178	77,116,321	7,634,485	5,097,434	7,264,120	11,260,911	166,263,824
Salaries and wages—									
Male employees.....	87	25	587	1,003	91	53	71	137	2,054
Female.....	8	10	157	331	31	6	13	12	568
Wage-earners—									
Male.....	681	168	3,872	7,691	355	315	341	758	13,582
Female.....	8	6	565	188	3	4	16	4	794
Total employees.....	784	209	5,182	8,613	480	378	441	911	16,998
Salaries and wages—									
Salaries.....\$	182,358	29,632	1,291,508	2,381,061	202,309	122,612	173,686	295,024	4,692,390
Wages.....\$	829,757	154,975	4,543,559	9,344,904	422,477	416,963	471,515	1,042,793	17,226,073
Total.....\$	1,012,115	193,807	5,838,067	11,725,965	624,786	539,575	645,201	1,337,817	21,919,263
Cost of fuel and electricity.....\$	514,466	15,934	2,044,522	3,921,626	112,241	376,562	229,189	447,098	8,061,688
Cost of materials—									
Firm's own make.....\$			72,916	343,718	75,630			31,657	523,951
Purchased materials.....\$	5,500,831	234,383	12,998,145	50,886,028	1,736,715	3,857,650	4,109,879	5,921,070	64,754,801
Total.....\$	5,500,831	234,383	13,071,061	51,339,746	1,812,345	3,857,650	4,109,879	5,952,827	65,278,752
Value of products—									
Made for own use.....\$	2,169,381	18,506	911,070	5,478,672	103,241	317,522	117,788	1,072,508	10,188,686
Made for sale.....\$	6,350,658	808,290	24,830,253	52,486,387	2,176,544	5,736,269	6,296,351	6,688,410	105,685,162
Total.....\$	8,530,039	826,796	25,741,323	57,965,060	2,579,788	6,053,791	6,414,139	7,760,918	115,873,848

\* Where fewer than three firms in one province were engaged in the same industry, the data for these companies are not shown by provinces, but they are included in the Canada totals for each industry.

Table 4.—Capital Employed in the Manufacture of Non-Metallic Mineral Products in Canada, by Provinces, 1924-1925

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts	Total	Lands, buildings, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts	Total
\$	\$	\$	\$	\$	\$	\$	\$	
Prince Edward Island.....	25,300	59,116	550	84,966	25,375	71,439	500	97,314
Nova Scotia.....	17,901,931	4,421,330	57,950	22,381,211	17,615,418	3,575,200	53,222	21,243,840
New Brunswick....	226,378	131,555	102,550	460,483	375,818	151,393	277,010	601,221
Quebec.....	18,219,817	6,521,937	3,505,133	28,246,887	20,771,343	7,758,416	3,855,419	32,385,178
Ontario.....	51,554,907	12,575,377	7,683,142	71,813,426	53,801,219	14,109,077	9,476,025	77,446,321
Manitoba.....	6,500,837	584,838	326,279	7,411,954	6,800,113	486,106	348,266	7,634,485
Saskatchewan.....	3,450,476	2,197,025	164,463	5,811,964	3,501,116	1,440,535	155,783	5,097,434
Alberta.....	8,932,689	2,302,819	496,066	11,731,571	4,750,043	2,150,113	363,962	7,264,120
British Columbia..	10,563,666	2,396,195	457,690	13,417,551	11,203,676	2,282,065	775,170	14,260,911
<b>Canada</b> .....	<b>117,466,001</b>	<b>31,190,192</b>	<b>12,793,823</b>	<b>161,390,016</b>	<b>118,931,123</b>	<b>32,024,344</b>	<b>15,303,357</b>	<b>166,263,824</b>

Table 5.—Capital Employed in the Manufacture of Non-Metallic Mineral Products in Canada, by Industries, 1924-1925

Industry	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts	Total	Lands, buildings, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts	Total
\$	\$	\$	\$	\$	\$	\$	\$	
Aerated waters....	5,379,841	1,899,193	2,106,768	9,385,802	6,928,558	1,767,372	2,377,401	10,673,331
Asbestos and allied products.....	959,740	333,977	175,011	1,468,728	1,883,094	491,457	244,719	2,621,260
Cement products....	982,982	334,199	356,577	1,673,758	1,465,650	478,620	650,466	2,594,736
Sand-lime brick....	1,132,579	39,224	124,436	1,346,239	738,692	42,030	180,007	960,729
Coke and by-products.....	22,446,224	1,579,203	290,317	24,315,744	22,415,261	1,273,899	2,216,294	23,905,454
Glass.....	8,414,045	2,991,799	1,898,970	13,304,814	7,773,399	3,033,256	1,887,683	12,694,338
Illuminating and fuel gas.....	36,150,594	2,476,032	4,191,650	42,818,276	38,924,759	2,258,957	4,045,935	46,129,651
Products from imported clay.....	961,927	415,535	300,071	1,677,533	1,546,143	699,105	547,703	2,762,951
Monumental and ornamental stone.....	2,214,307	1,215,417	1,514,545	4,944,269	2,346,427	1,304,726	1,364,576	5,015,729
Petroleum products.....	34,613,268	18,264,767	917,759	53,795,794	30,842,834	19,005,802	731,913	50,580,549
Miscellaneous non-metallic mineral products.....	4,100,494	1,640,846	917,719	6,659,059	4,494,316	1,669,120	2,158,660	8,322,096
<b>Total</b> .....	<b>117,466,001</b>	<b>31,190,192</b>	<b>12,793,823</b>	<b>161,390,016</b>	<b>118,931,123</b>	<b>32,024,344</b>	<b>15,303,357</b>	<b>166,263,824</b>

Table 6.—Number of Wage-Earners Employed in the Manufacture of Non-Metallic Mineral Products in Canada, by Months and by Provinces, 1924

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
January.....	12	702	78	3,976	6,745	227	314	684	624	<b>13,362</b>
February.....	15	658	85	4,263	6,576	236	320	587	598	<b>13,338</b>
March.....	16	751	142	3,795	6,828	256	320	529	611	<b>13,248</b>
April.....	16	720	152	4,022	7,297	282	323	535	561	<b>13,908</b>
May.....	17	738	156	4,200	7,614	334	338	732	599	<b>14,728</b>
June.....	17	723	167	4,260	7,641	359	349	714	599	<b>14,829</b>
July.....	17	690	186	4,077	7,892	368	372	605	603	<b>14,816</b>
August.....	11	585	178	4,087	7,613	355	365	572	585	<b>14,351</b>
September.....	16	584	161	4,175	7,423	310	428	538	504	<b>14,329</b>
October.....	15	670	150	4,212	7,446	296	420	493	627	<b>14,329</b>
November.....	13	601	139	4,068	7,120	271	388	495	630	<b>13,734</b>
December.....	13	555	106	3,652	6,761	262	396	378	616	<b>12,739</b>
<b>Average.....</b>	<b>15</b>	<b>675</b>	<b>152</b>	<b>4,423</b>	<b>7,379</b>	<b>311</b>	<b>379</b>	<b>577</b>	<b>607</b>	<b>14,518</b>

Table 7.—Number of Wage-Earners Employed in the Manufacture of Non-Metallic Mineral Products in Canada, by Months and by Provinces, 1925

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
January.....	11	663	100	3,855	6,141	270	378	300	684	<b>12,402</b>
February.....	14	641	128	4,050	5,932	286	324	263	698	<b>12,336</b>
March.....	15	688	153	4,206	6,128	305	303	293	675	<b>12,766</b>
April.....	16	634	176	4,453	6,744	308	306	320	651	<b>13,611</b>
May.....	16	681	186	4,887	7,276	349	366	364	639	<b>14,764</b>
June.....	16	679	183	4,972	7,721	369	376	331	663	<b>15,340</b>
July.....	16	712	181	4,973	7,792	403	381	373	713	<b>15,544</b>
August.....	10	720	177	4,693	7,865	396	365	488	803	<b>15,517</b>
September.....	15	712	169	4,348	7,642	356	224	429	790	<b>14,685</b>
October.....	14	678	154	4,315	7,683	332	201	400	854	<b>14,631</b>
November.....	12	583	137	3,949	7,485	289	181	335	921	<b>13,892</b>
December.....	11	590	117	3,771	7,195	290	183	320	905	<b>13,382</b>
<b>Average.....</b>	<b>14</b>	<b>675</b>	<b>174</b>	<b>4,438</b>	<b>7,279</b>	<b>358</b>	<b>319</b>	<b>357</b>	<b>762</b>	<b>14,376</b>



Table 8.—Number of Wage-Earners Employed in the Manufacture of Non-Metallic Mineral Products in Canada, by Months and by Industries, 1924

Month	Aerated waters	Asbestos and allied products	Cement products	Sand-lime brick	Coke and by-products	Glass	Illuminating and fuel gas	Products from imported clays	Monumental and ornamental stone	Petroleum products	Miscellaneous non-metallic mineral products	Total
January.....	855	74	214	164	575	2,998	2,263	520	810	3,116	1,704	13,362
February.....	894	82	194	120	531	3,051	2,203	513	854	2,976	1,020	13,338
March.....	944	82	293	153	735	2,925	2,249	479	945	3,001	1,442	13,248
April.....	1,034	83	392	102	628	2,987	2,550	471	1,007	3,186	1,378	13,908
May.....	1,266	84	466	228	446	3,044	3,065	444	1,089	3,316	1,280	14,728
June.....	1,372	110	452	190	477	2,924	3,180	411	1,170	3,284	1,259	14,829
July.....	1,512	109	414	212	456	2,743	3,220	410	1,238	3,302	1,194	14,810
August.....	1,405	105	400	178	349	2,433	3,236	415	1,252	3,395	1,183	14,351
September.....	1,175	65	385	177	349	2,614	3,329	422	1,234	3,348	1,131	14,229
October.....	1,013	45	357	192	459	3,032	3,223	420	1,196	3,247	1,145	14,329
November.....	948	44	270	219	393	3,065	3,039	440	1,079	3,142	1,095	13,784
December.....	915	43	191	229	361	2,866	2,745	364	978	3,023	1,024	12,739
<b>Average</b>	<b>1,167</b>	<b>77</b>	<b>400</b>	<b>209</b>	<b>502</b>	<b>2,893</b>	<b>2,856</b>	<b>444</b>	<b>1,135</b>	<b>3,221</b>	<b>1,614</b>	<b>14,518</b>

Table 9.—Number of Wage-Earners Employed in the Manufacture of Non-Metallic Mineral Products in Canada, by Months and by Industries, 1925

Month	Aerated waters	Asbestos and allied products	Cement products	Sand-lime brick	Coke and by-products	Glass	Illuminating and fuel gas	Products from imported clays	Monumental and ornamental stone	Petroleum products	Miscellaneous non-metallic mineral products	Total
January.....	993	177	261	143	558	2,416	2,339	465	801	3,159	1,090	12,402
February.....	1,066	174	262	139	563	2,399	2,374	467	780	3,060	1,112	12,336
March.....	1,059	187	371	150	596	2,388	2,390	481	823	3,192	1,129	12,766
April.....	1,167	185	551	185	577	2,393	2,791	486	881	3,233	1,162	13,611
May.....	1,349	198	811	195	583	2,438	3,220	402	986	3,302	1,199	14,764
June.....	1,543	206	787	205	545	2,600	3,293	478	1,058	3,375	1,160	15,319
July.....	1,554	212	730	199	541	2,354	3,575	483	1,141	3,466	1,283	15,541
August.....	1,495	221	724	196	526	2,376	3,602	458	1,159	3,565	1,195	15,517
September.....	1,308	200	692	192	512	2,204	3,402	499	1,145	3,393	1,138	14,685
October.....	1,132	186	586	191	576	2,849	3,065	507	1,113	3,262	1,164	11,631
November.....	1,052	190	510	166	542	2,858	2,671	509	1,054	3,150	1,181	13,892
December.....	1,045	184	413	164	554	2,866	2,467	509	985	3,098	1,097	13,382
<b>Average</b>	<b>1,362</b>	<b>196</b>	<b>729</b>	<b>189</b>	<b>556</b>	<b>2,501</b>	<b>2,935</b>	<b>487</b>	<b>1,048</b>	<b>3,274</b>	<b>1,159</b>	<b>14,376</b>

Table 10.—Fuel and Electricity Used in the Manufacture of Non-Metallic Mineral Products in Canada, by Kinds and by Industries, 1924

Industry	Anthra- cite coal	Bitumi- nous coal	Coke	Fuel oil and gasoline	Gas	Wood	Other	Electricity	Total
	Ton	Ton	Ton	Gal.	M cu. ft.	Cord	\$	K.W.H.	\$
Aerated waters—									
Quantity	1,406	4,244	77	83,967	13,568	1,472		1,442,326	
\$	19,139	36,055	911	24,422	6,012	6,632	3,197	35,241	131,669
Asbestos and allied pro- ducts—									
Quantity		893		38,791		3		405,143	
\$		5,232		3,654		25		11,038	19,919
Cement products—									
Quantity	497	1,651	57	16,049	566	95		87,362	
\$	3,656	10,048	532	4,208	341	481	68	7,085	26,419
Sand-lime brick—									
Quantity		7,331		592		20		955,494	
\$		44,901		121		105	20	16,090	61,237
Coke and by-products—									
Quantity		11,589	13,123		5,913,099			8,578,445	
\$		37,793	60,879		912,656		1,758	75,381	1,125,067
Glass—									
Quantity	689	72,297	272	3,639,800	280,114	12		14,915,018	
\$	7,922	526,546	2,639	334,018	199,973	156		183,936	1,255,190
Illuminating and fuel gas—									
Quantity	759	37,183	141,826		1,339,350			2,945,329	
\$	3,643	201,430	841,224		1,509,327		42,384	48,168	2,706,183
Products from imported clays—									
Quantity	3,167	11,294	201	48,191	699	202		847,732	
\$	40,396	84,552	2,156	3,353	489	1,499	130	9,016	141,491
Monumental and ornamental stone—									
Quantity	291	795	119	19,133	638	372		4,202,106	
\$	4,168	6,077	1,406	5,294	895	2,725	490	74,746	95,791
Petroleum products—									
Quantity	18,692	180,571	18,760	42,824,417	1,372,675	35		15,506,873	
\$	100,225	877,851	99,862	1,931,130	326,562	92	86,677	173,133	3,586,532
Miscellaneous non-metallic mineral products—									
Quantity	293	6,587	31	4,197	1,896	158		86,112,355	
\$	4,122	44,231	31	365	1,527	578		513,396	561,229
<b>Total—</b>									
<b>Quantity</b>	<b>25,786</b>	<b>343,435</b>	<b>174,438</b>	<b>16,675,137</b>	<b>8,972,605</b>	<b>2,429</b>		<b>135,998,193</b>	
<b>\$</b>	<b>183,171</b>	<b>1,934,722</b>	<b>1,006,649</b>	<b>2,306,565</b>	<b>2,987,782</b>	<b>12,293</b>	<b>134,714</b>	<b>1,147,800</b>	<b>9,713,687</b>

Table 11.—Fuel and Electricity Used in the Manufacture of Non-Metallic Mineral Products, by Kinds and by Industries, 1925

Industry	Anthra- cite coal	Bitumi- nous coal	Coke	Fuel oil and gasoline	Gas	Wood	Other	Electricity	Total
	Ton	Ton	Ton	Gal.	M cu. ft.	Cord	\$	K.W.H.	\$
Aerated waters—									
Quantity	1,187	4,544	155	106,485	13,454	1,342		1,486,104	
\$	18,253	39,239	2,022	29,973	7,513	6,877	2,276	39,353	145,506
Asbestos and allied pro- ducts—									
Quantity	83	4,599		36,900		5		1,641,275	
\$	732	28,530		3,622		35		29,721	62,640
Cement products—									
Quantity	132	2,205	75	33,853	380	71		460,112	
\$	2,026	14,268	877	8,813	263	580	1,159	12,456	46,442
Sand-lime brick—									
Quantity		7,451				27		817,516	
\$		47,388				158		14,498	62,041
Coke and by-products—									
Quantity		7,399	46,711		5,008,236			11,342,996	
\$		28,820	224,787		862,927		882	96,261	1,213,677
Glass—									
Quantity	1,776	41,513	198	5,245,654	188,306	11		14,873,797	
\$	12,046	276,213	2,353	516,908	165,810	142	604	127,732	1,191,898
Illuminating and fuel gas—									
Quantity	959	30,264	139,261		38,957			13,907,432	
\$	4,888	188,163	835,355		58,508			41,932	1,128,846
Products from imported clays—									
Quantity	1,871	15,264	336	213,885	957	241		1,241,190	
\$	21,637	107,156	3,668	14,815	670	2,165	98	20,190	176,339
Monumental and ornamental stone—									
Quantity	263	1,416	102	19,159	2,172	609		2,997,122	
\$	3,949	12,379	1,356	5,516	2,123	3,655	489	67,462	96,929
Petroleum products—									
Quantity	10,543	179,873	5,192	36,232,051	1,020,044	6		15,605,121	
\$	102,060	759,055	30,771	1,874,195	360,917	60	136,054	183,418	3,447,130
Miscellaneous non-metallic mineral products—									
Quantity	333	9,548	25	8,613	1,348	122		196,058,070	
\$	1,409	62,682	248	360	604	415	100	523,509	592,327
<b>Total—</b>									
<b>Quantity</b>	<b>26,147</b>	<b>304,075</b>	<b>192,055</b>	<b>11,896,600</b>	<b>6,273,854</b>	<b>2,494</b>		<b>260,430,745</b>	
<b>\$</b>	<b>170,600</b>	<b>1,563,893</b>	<b>1,101,437</b>	<b>2,454,202</b>	<b>1,459,335</b>	<b>11,087</b>	<b>141,662</b>	<b>1,156,472</b>	<b>8,961,688</b>

**Table 12.—Fuel and Electricity Used in the Manufacture of Non-Metallic Mineral Products in Canada, by Kinds and by Provinces, 1924**

Province	Anthra- cite coal	Bitumi- nous coal	Coke	Fuel oil and gasoline	Gas	Wood	Other	Electricity	Total
	Ton	Ton	Ton	Gal.	M cu. ft.	Cord	\$	K.W.H.	\$
Prince Edward Island—									
Quantity		27	12	2,159				4,143	
\$		285	115	560				290	1,250
Nova Scotia—									
Quantity	21	11,146	1,748	12,069,441	3,320,916	6		6,067,532	
\$	240	34,973	183	469,529	338,697	51		81,962	925,635
New Brunswick—									
Quantity	27	590	1,463	918	420	102		23,072	
\$	380	4,550	15,169	270	434	773		1,841	23,426
Quebec—									
Quantity	5,010	43,035	40,425	12,150,739	691,166	1,225		82,673,090	
\$	58,776	346,802	225,996	715,640	639,252	5,381	2,510	283,075	2,277,432
Ontario—									
Quantity	20,696	250,753	100,978	6,464,190	3,426,202	720		40,715,329	
\$	123,283	1,387,756	568,312	442,070	1,583,647	4,726	73,626	680,451	4,863,871
Manitoba—									
Quantity	26	1,602	11,061	122,146	68,625	148		1,150,236	
\$	396	15,421	101,105	12,227	108,347	322	20	13,230	251,077
Saskatchewan—									
Quantity		1,318	266	7,286,062	289,856	63		967,950	
\$		8,958	1,671	375,355	49,841	443	8,417	25,334	470,019
Alberta—									
Quantity		32,863	1,766	3,411,234	289,419	44		1,403,697	
\$		122,659	10,260	102,970	51,783	90	4,413	23,993	316,188
British Columbia—									
Quantity	6	2,101	16,719	5,168,248	836,001	121		2,308,144	
\$	90	13,309	83,829	187,944	215,781	507		37,615	581,809
<b>Canada—</b>									
Quantity	25,786	343,435	174,138	46,675,137	8,922,665	2,429		135,998,193	
\$	183,171	1,931,722	1,096,640	2,306,565	2,987,782	12,293	134,714	1,147,800	9,713,697

**Table 13.—Fuel and Electricity Used in the Manufacture of Non-Metallic Mineral Products in Canada by Kinds and by Provinces, 1925**

Province	Anthra- cite coal	Bitumi- nous coal	Coke	Fuel oil and gasoline	Gas	Wood	Other	Electricity	Total
	Ton	Ton	Ton	Gal.	M cu. ft.	Cord	\$	K.W.H.	\$
Prince Edward Island—									
Quantity		27		100	600	3		4,143	
\$		285		35	680	29	118	290	1,428
Nova Scotia—									
Quantity	24	6,651	40,125	8,032,790	2,514,234	21		6,339,129	
\$	270	24,821	208,776	373,840	224,596	166		80,569	913,038
New Brunswick—									
Quantity	30	432	20	141,127	889	74		67,995	
\$	534	3,144	220	8,350	915	529	66	2,176	15,934
Quebec—									
Quantity	4,843	38,171	41,202	15,074,013	188,886	1,144		102,170,403	
\$	44,814	262,050	230,336	1,082,070	96,495	6,604	5,137	317,366	2,041,572
Ontario—									
Quantity	21,145	221,402	84,759	6,250,274	2,606,988	663		146,670,198	
\$	121,325	1,136,137	508,468	429,713	930,380	4,530	124,316	666,757	3,921,626
Manitoba—									
Quantity	69	2,196	6,585	182,022	6,657	379		618,582	
\$	992	20,867	49,344	16,392	8,864	1,541	580	13,661	112,241
Saskatchewan—									
Quantity	30	2,710	189	4,768,273	206,050	59		1,976,292	
\$	2,565	15,285	1,162	250,165	65,239	340	3,289	38,517	376,562
Alberta—									
Quantity	1	30,843	3,962	2,470,563	96,887	12		966,498	
\$	10	90,092	24,294	75,816	18,124	63	3,224	17,566	229,189
British Columbia—									
Quantity	5	1,643	15,213	4,970,529	652,663	139		1,617,515	
\$	90	11,212	78,897	217,821	114,342	294	4,832	19,570	147,096
<b>Canada—</b>									
Quantity	26,147	394,075	192,055	41,896,609	6,273,454	2,494		269,439,735	
\$	179,600	1,363,893	1,101,437	2,454,202	1,459,335	11,087	111,662	1,156,472	8,061,688

Table 14.—Power Equipment in Use in the Manufacture of Non-Metallic Mineral Products in Canada, by Classes and by Industries, 1924

Industry	Steam engines and turbines	Internal combustion engines gas, oil and gasoline	Hydraulic turbines and water wheels	Total primary power	Electric motors driven by purchased power	Total power equipment employed	Electric motors driven by power generated by the primary power of the industry	Total electric power	Boilers installed
Aerated waters.....	No. 13	27	7	47	516	563	9	525	46
Asbestos and allied products.....	H.P. 194	83	14	291	1,620	1,911	45	1,665	1,092
Cement products.....	No. 8	50	.....	58	36	36	8	44	5
Sand-lime brick.....	H.P. 253	351	.....	604	536	536	97	633	273
Coke and by-products.....	No. 7	.....	.....	7	57	115	.....	57	19
Glass.....	H.P. 700	.....	.....	700	542	1,146	.....	542	580
.....	No. 89	.....	.....	80	35	42	.....	35	8
.....	H.P. 2,993	.....	.....	2,993	891	1,591	.....	891	1,115
.....	No. 89	.....	.....	80	162	251	191	353	27
.....	H.P. 2,993	.....	.....	2,993	4,080	7,073	5,043	9,123	6,137
.....	No. 3	.....	.....	3	301	394	48	439	25
.....	H.P. 427	.....	.....	427	6,243	6,670	523	6,766	2,043
.....	No. 54	17	.....	71	136	207	12	148	166
.....	H.P. 808	963	.....	1,771	2,153	3,924	196	2,349	8,875
.....	No. 1	.....	.....	1	60	61	.....	60	6
.....	H.P. 35	.....	.....	35	402	437	.....	402	360
.....	No. 1	24	.....	25	354	379	7	361	5
.....	H.P. 46	164	.....	210	4,998	5,208	122	5,120	130
.....	No. 273	21	.....	297	225	522	105	330	98
.....	H.P. 0,072	2,010	.....	11,082	5,859	16,941	2,542	8,401	18,961
.....	No. 1	.....	.....	1	220	221	63	283	10
.....	H.P. 50	.....	.....	50	159,166	159,216	401	159,567	820
<b>Total.....</b>	<b>No. 442</b>	<b>145</b>	<b>7</b>	<b>599</b>	<b>2,192</b>	<b>2,791</b>	<b>413</b>	<b>2,635</b>	<b>415</b>
	<b>H.P. 14,151</b>	<b>3,938</b>	<b>14</b>	<b>18,163</b>	<b>186,490</b>	<b>294,653</b>	<b>8,969</b>	<b>195,459</b>	<b>40,386</b>

Table 15.—Power Equipment in Use in the Manufacture of Non-Metallic Mineral Products in Canada, by Classes and by Industries, 1925

Industry	Steam engines and turbines	Internal combustion engines gas, oil and gasoline	Hydraulic turbines and water wheels	Total primary power	Electric motors driven by purchased power	Total power equipment employed	Electric motors driven by power generated by the primary power of the industry	Total electric power	Boilers installed
Aerated waters.....	No. 18	30	6	52	550	602	5	555	38
Asbestos and allied products.....	H.P. 223	74	12	309	1,083	1,992	23	1,706	991
Cement products.....	No. 6	71	.....	77	101	101	2	103	6
Sand-lime brick.....	H.P. 170	407	.....	577	2,259	2,259	45	2,304	764
Coke and by-products.....	No. 4	.....	.....	4	90	167	.....	90	23
Glass.....	H.P. 475	.....	.....	475	854	1,431	.....	854	431
.....	No. 98	.....	.....	98	26	30	.....	26	10
.....	H.P. 3,831	.....	.....	3,831	719	1,194	.....	719	915
.....	No. 2	.....	.....	2	183	281	173	356	27
.....	H.P. 300	.....	.....	303	4,481	8,312	4,753	9,234	6,137
.....	No. 53	21	.....	75	197	197	274	468	14
.....	H.P. 729	958	.....	1,690	3,064	3,364	3,608	6,967	824
.....	No. 729	958	.....	1,690	127	202	14	141	170
.....	H.P. 729	958	.....	1,690	1,587	3,277	201	1,788	10,231
.....	No. 27	.....	.....	27	27	27	108	135	13
.....	H.P. 384	.....	.....	384	384	384	481	865	955
.....	No. 2	16	.....	19	400	419	.....	400	6
.....	H.P. 44	151	.....	198	5,209	5,407	.....	5,209	202
.....	No. 274	9	.....	283	299	582	64	393	94
.....	H.P. 9,170	1,036	.....	10,206	7,300	17,506	1,628	8,928	20,235
.....	No. 2	.....	.....	2	277	279	80	357	10
.....	H.P. 150	.....	.....	150	158,036	159,086	442	159,378	965
<b>Total.....</b>	<b>No. 455</b>	<b>149</b>	<b>9</b>	<b>613</b>	<b>2,274</b>	<b>2,887</b>	<b>729</b>	<b>2,994</b>	<b>411</b>
	<b>H.P. 14,792</b>	<b>2,926</b>	<b>21</b>	<b>17,739</b>	<b>186,473</b>	<b>294,212</b>	<b>11,179</b>	<b>197,652</b>	<b>42,656</b>

Table 16.—Power Equipment in Use in the Manufacture of Non-Metallic Mineral Products in Canada, by Classes and by Provinces, 1924

Province	Steam engines and turbines	Internal combustion engines gas, oil and gasoline	Hydraulic turbines and water wheels	Total primary power	Electric motors driven by purchased power	Total power equipment employed	Electric motors driven by power generated by the primary power of the industry	Total electric power	Boilers installed
Prince Edward Island.....	No. 5 H.P. 10				5 10	5 10		5 10	
Nova Scotia.....	No. 50 H.P. 3,138	10 1,032		60 4,170	33 208	93 4,378	217 6,292	250 6,590	23 7,034
New Brunswick.....	No. 5 H.P. 147	15 101	1 2	21 250	51 247	72 497	1 5	52 252	5 285
Quebec.....	No. 154 H.P. 4,296	25 256	3 4	182 4,556	352 4,399	534 8,955	97 1,521	449 5,920	50 6,764
Ontario.....	No. 143 H.P. 4,193	65 835	2 6	210 5,034	1,304 173,906	1,514 178,940	123 1,132	1,427 175,038	283 19,822
Manitoba.....	No. 13 H.P. 136	3 127		16 263	85 1,247	101 1,510	1 10	86 1,257	5 242
Saskatchewan.....	No. 12 H.P. 1,124	2 103	2	14 1,227	80 1,801	94 3,028		80 1,801	14 2,210
Alberta.....	No. 20 H.P. 411	21 1,407		41 1,818	151 2,189	102 4,007	3 4	154 2,193	14 1,859
British Columbia.....	No. 50 H.P. 796	4 137	1 2	55 845	131 2,483	186 3,328	1 5	132 2,488	19 2,164
<b>CANADA.....</b>	<b>No. 447 H.P. 14,151</b>	<b>145 3,998</b>	<b>7 14</b>	<b>599 18,163</b>	<b>2,192 186,499</b>	<b>2,791 204,653</b>	<b>443 8,969</b>	<b>2,635 195,459</b>	<b>415 40,386</b>

Table 17.—Power Equipment in Use in the Manufacture of Non-Metallic Mineral Products in Canada, by Classes and by Provinces, 1925

Province	Steam engines and turbines	Internal combustion engines gas, oil and gasoline	Hydraulic turbines and water wheels	Total primary power	Electric motors driven by purchased power	Total power equipment employed	Electric motors driven by power generated by the primary power of the industry	Total electric power	Boilers installed
Prince Edward Island.....	No. 5 H.P. 10			1 2	5 10	6 12		5 10	
Nova Scotia.....	No. 50 H.P. 3,131	11 1,035		61 4,166	43 196	104 4,362	216 6,287	259 6,483	24 7,014
New Brunswick.....	No. 5 H.P. 147	8 92		13 239	51 182	64 421	1 5	52 187	6 400
Quebec.....	No. 157 H.P. 4,286	26 232	3 4	180 4,522	533 7,582	719 12,104	20 202	553 7,784	58 7,920
Ontario.....	No. 148 H.P. 4,784	82 757	4 12	234 5,553	1,163 171,038	1,397 176,591	481 4,683	1,644 175,721	275 18,627
Manitoba.....	No. 13 H.P. 136	3 127		16 203	112 1,260	128 1,523		112 1,260	9 1,435
Saskatchewan.....	No. 11 H.P. 1,049	2 104		13 1,153	98 1,905	101 3,058		88 1,905	12 2,076
Alberta.....	No. 16 H.P. 337	8 453		24 790	145 1,839	169 2,629	1 1	146 1,840	7 1,464
British Columbia.....	No. 56 H.P. 922	8 124	2 5	65 1,051	134 2,461	199 3,512	1 1	135 2,462	20 3,714
<b>CANADA.....</b>	<b>No. 455 H.P. 14,792</b>	<b>149 2,926</b>	<b>9 21</b>	<b>613 17,739</b>	<b>2,274 196,473</b>	<b>2,887 204,215</b>	<b>720 11,179</b>	<b>2,194 197,652</b>	<b>411 42,650</b>

Table 18.—Imports into Canada of Non-Metallic Minerals and Their Products, 1924 and 1925

Commodity	1924		1925	
	Quantity	Value	Quantity	Value
		\$		\$
Asbestos.....		441,300		350,600
Asbestos packing..... lb.	221,266	98,418	222,051	98,169
Magnesia pipe covering.....		121,046		108,681
Total.....		660,764		557,450
<b>CLAY AND ITS PRODUCTS</b>				
Bath brick.....		1,799		695
Building brick..... M	5,425	124,983	5,489	125,565
Building blocks.....		63,559		81,873
Clays—				
China..... ton	19,531	250,113	18,194	195,032
Fire..... ton	44,305	186,696	41,238	166,733
Pipe.....		847		1,688
Other clays.....		56,590		64,498
Drain tile, unglazed.....		3,014		8,622
Drain and sewerpipe.....		68,449		66,960
Earthen and chinaware.....		4,124,007		4,558,194
Firebrick <sup>1</sup> .....		835,452		888,809
Firebrick, chrome.....				35,277
Firebrick, n.o.p.....		284,388		194,080
Magnesite brick.....		91,553		93,840
Silieu brick.....		154,251		185,356
Paving brick..... M	2,559	69,493		39,901
Other clay manufactures.....		842,577		771,001
Total clay and its products.....		7,158,371		7,478,084
<b>COAL AND ITS PRODUCTS</b>				
<b>COAL</b>				
Anthracite coal and anthracite dust <sup>2</sup> ..... ton	4,152,558	37,280,910	3,782,557	32,096,509
Bituminous round and run-of-mine <sup>3</sup> ..... ton	9,222,019	23,120,128	2,055,946	4,426,759
Bituminous slack such as will pass through 1-in. screen <sup>4</sup> ..... ton	3,324,195	6,508,515	765,519	1,378,101
Bituminous coal and coal, n.o.p..... ton			9,726,995	21,169,480
Lignite and lignite dust..... ton	26,007	117,955	18,563	87,832
Total coal.....	16,724,779	67,027,508	16,349,580	59,158,681
<b>Coal Products</b>				
Coal tar, crude, in packages of not less than 16 gallons, and coal pitch..... gal.	2,880,499	186,178	3,636,880	258,944
Carbolic or heavy oil..... gal.	3,734,722	681,063	4,857,720	723,775
Coke..... ton.	521,725	3,131,485	852,427	5,553,494
Coke, ground, when imported by manufacturers of electric batteries for use in their own factories in the manufacture of such batteries..... cwt.	12,638	39,392	15,393	52,815
Total coal products.....		4,038,118		6,589,028
Total coal and its products.....		71,065,626		65,747,709
<b>GLASS AND GLASSWARE</b>				
<b>Cut, Pressed or Blown Glass</b>				
Glass plates or discs, rough cut or unwrought, for use in the manufacture of optical instruments, when imported by manufacturers of such optical instruments.....		67,083		76,713
Glass milk bottles.....		17,051		44,576
Glass carboys or demijohns, bottles, decanters, flasks, jars and phials.....		1,161,532		1,108,285
Glass balls, and cut, pressed or moulded crystal glass tableware, blown glass tableware, and other cut glassware.....		647,107		688,801
Incandescent lamp bulbs and glass tubing for use in the manufacture of incandescent lamps.....		383,745		378,219
Lamp chimneys, glass shades or globes.....		230,704		330,182
Lenses, glass, unfinished.....		159,922		149,825

<sup>1</sup> Duty free of a kind not made in Canada.<sup>2</sup> Coal anthracite and anthracite coal dust, duty free.<sup>3</sup> Duty, 35 cents per ton.<sup>4</sup> Duty, 14 cents per ton.

Table 18.—Imports into Canada of Non-Metallic Minerals and Their Products, 1924 and 1925—Continued

Commodity	1924		1925	
	Quantity	Value	Quantity	Value
		\$		\$
<b>GLASS AND GLASSWARE—Concluded</b>				
<b>PLATE, SHEET AND WINDOW GLASS</b>				
Common and colourless window glass..... sq. ft.	23,002,455	1,042,570	35,586,388	1,248,712
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.....		16,484		5,074
Plate glass, not bevelled, in sheets or panes not exceeding 7 sq. ft. each, n.o.p..... sq. ft.	1,927,123	878,983	2,516,402	1,031,956
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.	583,277	310,476	556,043	293,912
Plate glass, n.o.p..... sq. ft.	783,624	463,866	898,016	492,709
Plate glass, bevelled, n.o.p..... sq. ft.	24,766	14,586	19,552	10,431
Glass in sheets and bent plate glass, n.o.p.....		172,150		187,924
<b>STAINED, ORNAMENTAL AND SILVERED GLASS</b>				
Lenses, silvered, for automobile lamps.....		136		191
Ornamental, figured and enamelled coloured glass, and memorial or other ornamental window glass.....		10,819		6,119
Painted or vitrified, chipped, figured, enamelled and obscured white glass.....		16,607		25,186
Plain, coloured, opaque, stained or tinted or muffled glass in sheets		11,170		6,973
Stained or ornamental glass windows.....		9,810		20,551
Silvered glass, bevelled or not, framed or not framed.....		178,871		192,098
<b>OTHER GLASS AND GLASSWARE</b>				
Articles of glass, not plate or sheet, designed to be cut or mounted		182,001		185,896
Photographic dry plates.....		25,194		21,416
Spectacles, eye-glasses and ground or finished spectacle or eye-glass lenses.....		77,994		79,609
Manufactures of glass, n.o.p.....		573,665		570,413
Total glass and glassware.....		6,652,825		7,155,760
<b>GRAPHITE AND ITS PRODUCTS</b>				
Crucibles, plumbago.....		42,740		49,730
Plumbago not ground or otherwise manufactured.....		2,651		772
Plumbago ground and manufactures of, n.o.p.....		50,924		91,767
Total graphite.....		96,315		142,269
<b>PETROLEUM, ASPHALT AND THEIR PRODUCTS</b>				
<b>ASPHALT AND ITS PRODUCTS</b>				
Asphalt or asphaltum solid..... cwt.	341,408	283,658	251,658	292,218
Asphalt, not solid.....		10,536		13,288
Asphaltum oil.....		37,794		12,147
Total asphalt and its products.....		331,988		317,653
<b>PETROLEUM OILS, CRUDE, FUEL AND GAS</b>				
Crude petroleum not 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.	55,738	3,953	49,149	2,910
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..... gal.	465,958,509	20,260,488	436,258,650	23,414,837
Crude petroleum, gas oils other than naphtha, benzine and gasoline lighter than .8235 but not less than .775 specific gravity at 60 degrees..... gal.	139,745	10,875	4,181,914	227,378
Petroleum (not including crude petroleum) imported to be refined or illuminating or lubricating oils, .8235 specific gravity or heavier at 60 degrees temperature..... gal.	94,104,526	4,122,333	103,667,295	4,690,901
Petroleum, imported by miners or mining companies or concerns, for use in the concentration of ores of metals in their own concentrating establishments..... gal.	139,473	35,880	129,665	26,251

Table 18.—Imports into Canada of Non-Metallic Minerals and Their Products, 1924 and 1925—Continued

Commodity	1924		1925	
	Quantity	Value	Quantity	Value
<b>PETROLEUM, ASPHALT AND THEIR PRODUCTS—</b>				
Concluded				
<b>PETROLEUM OILS, REFINED</b>				
Coal oil and kerosene, distilled, purified or refined . . . . . gal	5,410,973	444,646	4,700,876	391,538
Coal oil and kerosene distilled known as "engine distillates" .725 specific gravity and heavier but not heavier than .770 specific gravity at 60 degrees temperature . . . . . gal	20,420	2,942	305,795	63,587
Illuminating oils, composed wholly or in part of the products of petroleum, coal, shale or lignite, costing more than 30 cents per gallon . . . . . gal	10,655	4,215	2,451	1,776
Lubricating oils, composed wholly or in part of petroleum, and costing less than 25 cents per gallon . . . . . gal	3,975,337	728,250	3,813,543	712,850
Lubricating oils, n.o.p. . . . . gal	4,521,086	1,714,403	4,632,195	1,770,739
Gasoline under .725 specific gravity at 60 degrees temperature . gal	56,389,078	7,138,561	68,993,020	8,388,058
Gasoline, n.o.p. . . . . gal	284,115	38,745	37,070	7,094
Gasoline .725 specific gravity but not heavier than .770 specific gravity at 60 degrees temperature . . . . . gal	17,081,248	2,166,847	24,897,661	3,204,470
All other oils, n.o.p. . . . . gal	260,801	119,088	204,633	109,348
<b>OTHER PRODUCTS OF PETROLEUM</b>				
Grease, axle . . . . . lb.	2,853,720	165,694	3,776,077	230,151
Paraffine wax . . . . . lb.	837,317	65,782	1,001,505	124,234
Paraffine wax candles . . . . . lb.	202,565	36,884	208,887	46,257
Vaseline and all similar preparations of petroleum for toilet, medicinal or other purposes . . . . . gal		195,457		216,464
Petroleum products, of, n.o.p. . . . . gal	1,298,590	242,996	1,243,176	213,577
Total petroleum and its products . . . . .		37,498,039		43,842,429
Total asphalt, petroleum and their products . . . . .		37,830,027		44,160,082
<b>STONE AND ITS PRODUCTS</b>				
<b>ABRASIVES</b>				
Grindstones . . . . . No	145	593,670	5	661,352
Burrstones in blocks, etc. . . . . No		794		584
Diamond dust or bort and black diamonds for borers . . . . .		399,835		523,163
Emery in bulk, crushed or ground . . . . .		53,208		223,598
Emery and carborundum wheels and manufactures . . . . .		76,971		258,207
Pumice and pumice stone ground . . . . .		28,127		27,581
Iron sand or globules for polishing and sawing . . . . .		17,985		11,702
Shelfpaper, emery paper, etc. . . . .		279,586		305,042
Artificial abrasives . . . . .		125,303		123,651
Total . . . . .		1,575,476		2,134,880
<b>BUILDING AND PAVING STONE</b>				
Building stone . . . . .		267,699		244,105
Granite . . . . .		140,237		160,869
Marble . . . . .		291,380		281,829
Refuse stone . . . . . ton	281,824	174,738	100,997	100,544
Total building and paving stone . . . . .		874,054		787,347
<b>LIME, PLASTER AND CEMENT</b>				
Portland cement . . . . . brl.	27,672	69,320	76,472 cwt.	63,067
Manufactures of . . . . .		9,772		13,753
Total cement . . . . .		79,092		76,820
Lime . . . . . ton	4,418	46,578	4,700	47,639
<b>GYPSUM</b>				
Crude . . . . . cwt.	3,252	63,156	4,433	66,064
Ground . . . . . ton	102	2,174	119	3,858
Plaster of Paris . . . . . ton	3,969	62,770	4,369	66,386
Total gypsum . . . . .		128,100		136,308



Table 18.—Imports into Canada of Non-Metallic Minerals and Their Products, 1924 and 1925—Concluded

Commodity	1924		1925		
	Quantity	Value	Quantity	Value	
<b>STONE AND ITS PRODUCTS—Concluded</b>					
<b>SLATE</b>					
Roofing .....	square	5,718	71,298	4,411	50,331
School-writing .....			74,879		102,879
Pencils .....			7,601		4,810
All other .....			66,624		47,488
<b>Total slate .....</b>			<b>220,402</b>		<b>205,507</b>
<b>OTHER STONE PRODUCTS</b>					
Chalk, China or Cornwall stone, cliff stone and mica schist, ground or unground .....			17,595		25,196
Chalk, prepared .....			94,355		107,805
Curling stones and handles therefor .....	pair	855	17,703	842	17,704
Feldspar .....	ton	1,921	37,845	1,570	31,114
Quartz—					
Silex .....	ton	1,941	40,552	2,197	30,301
Flint .....	ton	6,010	94,753	3,601	36,936
Hydro-fluo-silicic acid .....	lb.	286	40	4,378	636
Fluorspar .....	ton	4,353	50,158	5,111	60,458
Ginister .....	cwt.	6,095	2,211	3,777	1,452
Lithographic stones, not engraved .....			3,553		4,881
Magnesite .....	ton	280	8,990	111	4,528
Magnesium .....	ton	11,668	56,965	14,002	62,107
Phosphate rock .....	ton	2,635,560	324,279	2,870,038	353,237
Sand, silica for glass, etc. ....	cwt	150,868	118,307	242,203	184,000
Sand and gravel .....	ton	59,381	59,800	91,351	91,288
Talc or soapstone, ground or unground .....	cwt.	279,706	168,915	333,727	199,625
Whiting, gilder's whiting, and Paris white .....	cwt.		38,103		37,645
Manufactures of stone, n.o.p. ....					
<b>Total other stone products .....</b>			<b>1,109,204</b>		<b>1,257,913</b>
<b>Total stone and its products .....</b>			<b>4,032,906</b>		<b>4,616,414</b>
<b>OTHER NON-METALLICS</b>					
<b>BARIUM COMPOUNDS</b>					
Barium peroxide .....	ton	37	11,883	33	7,488
Blanc fixe .....	ton	354	21,742	303	19,343
Salm white .....	ton	758	21,591	778	21,486
Barytes .....	ton	2,322	48,693	2,433	50,566
<b>Total barium compounds .....</b>			<b>103,909</b>		<b>98,883</b>
Blast furnace slag .....			26,665		664
Carbons over 3 inches in circumference and not exceeding 35 inches .....			754,109		829,122
Carbon electrodes over 35 inches in circumference .....			14,483		28,139
Carbons, electric light, and carbon points, of all kinds, n.o.p. ....			35,287		49,846
Diamonds, unset .....			2,166,553		2,740,689
Earths, crude only .....			1,092		3,088
Foundry facings of all kinds .....			12,100		8,388
Fuller's earth, in bulk only .....			25,142		31,869
Gas for cooking, heating or illuminating, imported by pipe line .....	M cu. ft.			63,614	40,542
Insulators, electric .....			631,987		527,156
Meerschaum, crude or raw .....	lb.	9	64		59
Mica and manufactures of, n.o.p. ....			130,598		115,994
<b>Total .....</b>			<b>3,797,100</b>		<b>4,381,556</b>
<b>SALT</b>					
Fine, in bulk <sup>1</sup> .....	ton	68,190	332,649	73,166	327,364
In bags, barrels <sup>2</sup> .....	ton	43,508	462,184	21,007	420,137
All other <sup>3</sup> .....	ton	71,179	339,557	80,405	329,820
<b>Total salt .....</b>	ton	<b>182,886</b>	<b>1,134,390</b>	<b>174,578</b>	<b>1,077,321</b>
Brimstone or sulphur, crude, or in roll or flour .....	ton	131,547	1,776,978	137,709	1,982,788
Mineral and bituminous substances, n.o.p. ....			724,035		745,015
<b>Grand total .....</b>			<b>135,033,046</b>		<b>138,171,331</b>

<sup>1</sup> Duty 5 cents per 100 pounds.<sup>2</sup> Duty 7½ cents per 100 pounds.<sup>3</sup> Free—imported for use of seal or gulf fisheries.

Table 19.—Exports from Canada of Non-Metallic Minerals and Their Products, 1924 and 1925

Commodity	1924		1925	
	Quantity	Value	Quantity	Value
		\$		\$
<b>ASBESTOS</b>				
Asbestos..... ton	107,200	6,297,819	136,750	8,090,106
Sand and waste..... ton	95,089	1,220,070	121,267	1,592,286
Manufactures.....		44,132		55,572
Total.....		7,562,021		9,737,964
<b>CLAY AND ITS PRODUCTS</b>				
Building brick..... M	2,988	38,105	1,758	22,027
Clay—				
Unmanufactured..... cwt.	1,346	1,127	7,325	8,496
Manufactures.....		109,295		85,383
Earthenware.....		72,839		16,879
Porcelain insulators.....		322,206		88,033
Total.....		543,572		220,818
<b>COAL AND ITS PRODUCTS</b>				
Coal..... ton	773,246	4,836,548	785,910	4,329,473
Cinders.....		10,948		13,093
Coke..... ton	23,144	393,979	44,992	675,595
Tar and pitch, coal..... gal.	2,339,041	273,900	2,658,851	188,007
Total.....		5,515,345		5,205,778
<b>GLASS AND GLASSWARE</b>				
Glass for lighting.....		68,009		39,064
Glass and glassware, n.o.p.....		250,660		268,753
Total.....		318,675		307,817
<b>GRAPHITE AND ITS PRODUCTS</b>				
Graphite or plumbago, crude or refined..... ton	1,148	50,992	2,484	135,897
<b>MICA AND ITS PRODUCTS</b>				
Cobbed..... ton	88	52,527	29	21,366
Splittings..... ton	285	424,503	230	324,967
Scrap and waste..... ton	4,510	63,610	4,991	63,931
Plate and manufactures.....		3,326		1,046
Total.....		543,966		411,310
<b>PETROLEUM AND ITS PRODUCTS</b>				
Oil, coal kerosene, crude..... gal.	18,263,236	529,497	7,375,163	346,512
Oil, coal and kerosene, refined..... gal.	1,525,427	165,520	1,508,686	155,783
Oil, gasoline and naphtha..... gal.	1,403,716	256,966	1,568,855	333,330
Oil, mineral, n.o.p..... gal.	627,671	161,258	1,473,779	287,463
Wax, mineral..... cwt.	33,171	147,810	14,541	82,999
Total.....		1,261,052		1,206,087
<b>STONE AND ITS PRODUCTS</b>				
<b>BUILDING AND PAVING STONE.</b>				
Crushed..... ton	59,984	100,873	42,518	81,764
Ornamental, rough <sup>1</sup> ..... ton	3,390	45,195	3,430	36,552
Building, rough <sup>2</sup> ..... ton	2,059	18,680	4,166	14,389
Dressed.....		5,365		5,687
Total.....		170,113		138,392

<sup>1</sup> Granite marble unwrought.<sup>2</sup> Freestone, limestone, etc., unwrought.

Table 19.—Exports from Canada of Non-Metallic Minerals and Their Products, 1924 and 1925—Concluded

Commodity	1924		1925	
	Quantity	Value	Quantity	Value
<b>STONE AND ITS PRODUCTS—Concluded</b>				
<b>ABRASIVES</b>				
Grindstones, manufactured.....		49,630		61,429
Stone for the manufacture of grindstones..... ton	120	1,080	93	794
Abrasives—				
Natural, n.o.p..... cwt.	5,756	10,321	464	464
Artificial, crude, including carborundum..... cwt.	791,803	2,591,310	955,184	2,978,639
Artificial, made up into wheels, stones, etc.....		13,264		32,030
Corundum..... ton	2	251		45
<b>Total.....</b>		<b>2,665,856</b>		<b>3,073,401</b>
<b>LIME, PLASTER AND CEMENT</b>				
Lime..... ton	22,750	411,122	16,286	312,168
Cement..... brl.	153,520	213,845	cwt. 3,492,704	1,498,495
Gypsum—				
Crude..... ton	472,236	747,829	533,641	861,468
Ground..... ton	5,226	83,927	5,643	87,242
<b>Total..... ton</b>	<b>477,462</b>	<b>831,756</b>	<b>539,289</b>	<b>948,710</b>
<b>Total lime, plaster and cement.....</b>		<b>1,456,723</b>		<b>2,759,373</b>
<b>OTHER STONE PRODUCTS</b>				
Feldspar..... ton	37,869	274,881	28,659	209,164
Magnesite calcined dead burned..... ton	293	8,520	834	21,401
Phosphate rock..... ton			25	500
Sand and gravel..... ton	1,036,029	219,496	804,672	198,485
Talc..... ton	7,876	98,571	209,218	124,217
<b>Total other stone products.....</b>		<b>592,268</b>		<b>553,767</b>
<b>Total stone and its products.....</b>		<b>4,884,960</b>		<b>6,524,933</b>
<b>OTHER NON-METALLIC PRODUCTS</b>				
Carbon electrodes.....		168,369		155,349
Sulphur contained in pyrites..... ton	219	1,081	13	150
Salt..... cwt.	19,304	10,795	46,470	26,678
Other non-metallic minerals and their products.....		80,119		410,339
<b>Total.....</b>		<b>260,364</b>		<b>592,516</b>
<b>Grand total.....</b>		<b>20,948,947</b>		<b>21,343,120</b>

Table 20—Alphabetical List of Materials Used in All the Industries Classified under Manufactures of the Non-Metallic Minerals in Canada, 1925

Commodity	Industry number (See list at end of table 21)	Unit of measure	Quantity	Total selling value
Abrasive grains, artificial, such as alundum, corundum, aloxite and silicon carbide	12			\$ 112,120
Abrasive grains, natural, such as corundum, silica sand, flint and garnets	12			39,512
Acid, sulphuric	2-8	lb.	68,089,119	623,281
Acids, not elsewhere listed	4-12			6,013
Asbestos fibre and paper	1			672,598
Bauxite, silica sand, coke, iron borings, mill scale, electrodes, sawdust and salt, etc., used in the manufacture of abrasive products	12			1,658,526
Calcium carbide	3	ton	168	14,077
Calcium and magnesium chloride	1	lb.	94,521	5,063
Carborundum, emery and other abrasives	4			7,068
Caustic soda	1-8	lb.	4,259,836	155,001
Cement	1-4-10			12,843
Clays, fire	14-17	ton	11,796	71,718
Clays, other, including imported clays	1-10-12-14	ton	5,310	97,457
Cobalt sulphate	1-14			2,015
Coal for gas making (a) Anthracite	3	ton	15,323	183,050
(b) Bituminous	3	ton	723,394	4,395,445
Coal, bituminous, for coke making (a) Canadian	2	ton	598,280	2,070,313
(b) Foreign	2	ton	930,738	4,723,140
Coal, other, not for fuel	6-17	ton	5,730	65,876
Coke for gas making	3	ton	80,600	544,653
Coke, other, not for fuel	6	ton	559	5,295
Colours	1-10	lb.	83,500	10,305
Compounding materials used in petroleum refineries	8			510,735
Containers, boxes, barrels, etc.	1-2-4-5-6-7-8-10-11-12-13-14-15-16-17			3,163,397
Feldspar	14	ton	831	17,813
Felt, burlap, jute, fibre, etc.	1-10			5,037
Flint	14	ton	565	9,484
Fullers' earth	8	lb.	1,281,190	14,433
Gasoline, kerosene, benzol, alcohol, toluol, etc., for blending	1-7			50,534
Glass, blanks for cutting	4			187,628
Glass, figured, coloured and cathedral	4	sq. ft.	300,897	71,067
Glass, plate	4	sq. ft.	1,457,306	814,436
Glass, sheet and window	4	sq. ft.	2,116,358	262,424
Glue	4-10			33,358
Grease, cup, axle and soap	7	lb.	60,496	8,392
Hardware	4-14			83,795
Lead	4-7-14			26,930
Lime	2-3	lb.	3,095,780	17,795
Litharge	8	lb.	549,450	59,825
Lumber	4-16			1,111
Magnesite	1	ton	80	4,045
Mica, knife-trimmed	16	lb.	401,715	94,428
Mica, thumb-trimmed	16	lb.	166,125	38,597
Mica, splittings, mica cut and uncut and manufactured plate	16	lb.	45,564	20,434
Oil, animal	7	gal.	32,438	30,656
Oil, crude (a) Canadian	8	gal.	12,337,192	1,511,181
(b) Imported	8	gal.	432,778,502	33,344,004
Oil ("gas oil") for gas making	3	gal.	10,498,336	970,110
Oils, light, to enrich gas	2	gal.	1,142,876	85,550
Oils, lubricating	7	gal.	30,600	10,500
Oils, mineral	7	gal.	948,110	209,803
Oils, other, not for fuel	7-10			54,738
Oxide or purifying materials	3	ton	5,942	54,056
Paint, shellac, varnish and stencil ink	10			1,946
Paper	4-10			117,637
Pitch	6-16	ton	1,161	14,762
Plaster	10-14			27,904
Plaster of Paris and putty	4-10			72,196
Rubber	1	lb.	25,559	8,345
Sawdust and shavings	6-10			6,406
Silica sand	1-4-6-14	lb.	1,941,630	7,632
Silver	4	lb.	400	3,153
Silver nitrate	4	lb.	1,323	10,222
Sodium silicate	1-14	lb.	1,068,564	9,247
Stands, frames, silks, fringes, etc.	4			8,390
Sulphur	8	lb.	141,265	3,988
Tallow	1-7			51,111
Water	3			12,341
Whiting	4-10-14			23,148
Wire, brass, etc.	1			4,098
All other materials including silica, soda ash, stone, cement, sand, lime, sugar, flavours, talc, lampblack, carbons, raw and scrap, gypsum and various other materials	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17			7,650,941
<b>Total</b>				<b>65,278,752</b>

Table 21.—Alphabetical List of Products Made in All the Industries Classified under Manufactures of the Non-Metallic Minerals in Canada, 1924 and 1925

Commodity	Industry number (See list at end of table)	Unit	1924		1925	
			Quantity	Total selling value	Quantity	Total selling value
			\$		\$	
Ammonia liquor	2-3	lb. NH <sup>3</sup>	1,756,054	113,793	1,580,704	104,693
Ammonium sulphate	2-3	NH <sup>3</sup>	34,685,134	865,538	36,502,275	900,097
Asphalt	8	Imp. gal.	20,173,934	1,817,060	19,932,310	1,845,563
Asbestos linings	1	Sq. ft.		186,295	1,036,355	272,217
Asbestos packing	1	lb.		128,037		187,916
Asbestos sheathing and paper	1	lb.				465,160
Asbestos shingles, millboard and building lumber	1			97,364		102,219
Asbestos pipecovering and corrugated sheathings	1			83,373		179,717
Bricks, cement	11			53,006		40,261
Bricks, sand-lime	13	M	55,873	619,946	63,869	781,555
Carborundum, crude and firesand aluminous abrasives such as aloxite, alundum, fuse alumina, etc.	12			4,990,441		5,186,802
Cement blocks, hollow building	11			523,326		869,706
Cider	15			186,134		131,236
Coke	2-3	Ton	1,370,599	10,288,806	1,493,098	10,295,440
Coke breeze	2-3	Ton	66,313	144,144	53,641	187,401
Coke, acid	8	Ton	11,223	42,118	9,170	33,014
Coke, petroleum	8	Ton	28,102	270,402	34,018	248,691
Custom work and repairs	1-4-7-10			73,698		31,548
Drain pipe, cement	11			53,989		261,800
Distillate	8	Imp. gal.	2,648,738	289,543	687,413	130,685
Fireclay blocks and shapes	14			146,016		157,911
Gas from gas plants—						
(a) Acetylene gas	3	M cu. ft.	1,584		1,462	
(b) Straight coal gas	3	M cu. ft.	7,991,915		8,315,179	
(c) Carburetted water gas	3	M cu. ft.	5,027,331		5,023,596	
(d) Mixed coal and water gas	3	M cu. ft.	103,218		98,531	
(e) Pintsch gas	3	M cu. ft.	69,621		68,735	
(f) Gas sold	3	M cu. ft.	11,879,111	14,208,315	12,064,863	14,047,366
Gas from coke plants—						
(a) Gas sold	2	M cu. ft.	936,602	421,021	1,124,237	492,458
(b) Gas used in heating ovens and retorts	2	M cu. ft.	5,125,920	879,683	5,008,235	862,027
(c) Gas otherwise used in plant or otherwise accounted for but not sold	2	M cu. ft.	2,375,792	578,593	5,901,069	674,744
Gas from petroleum refineries—						
(a) Still gas	8	M cu. ft.	1,180,787	302,946	1,019,755	390,046
Gasoline	8	Imp. gal.	100,045,739	25,799,219	104,670,072	27,580,037
Glass, building	5			321,561		
Glass, cut	4			500,563		506,475
Glass, ornamental and art	4			34,809		71,568
Glass, pressed and blown	5			8,467,875		7,373,733
Glass, window, show case, windsbiled, etc.	4	ft.	502,502	355,678		648,925
Glass and lights, leaded	4			169,579		179,686
Glass for glazing, beat glass and cut plates	4			50,361		192,280
Grinding wheels, abrasive wheels, razor hones and alundum tile	12			432,161		431,560
Granite, cut and polished for building purposes	9			465,539		73,376
Grease, axle, cup and other	7-8	lb.	10,427,590	260,675	9,413,911	247,947
Gypsum wall board and wall coating	10			659,837		864,483
Insulators, porcelain	14			1,332,679		973,328
Kerosene	8	Imp. gal.	61,308,407	7,486,042	45,026,459	5,960,913
Lamp stands and shades	4-10			16,900		20,368
Limestone, for building purposes	9			1,041,485		1,909,212
Marble, for building purposes	9			632,356		573,002
Marble chips and dust	9			46,530		13,849
Mica, thumb trimmed and knife trimmed	16	lb.	95,420	22,689	1,406,237	74,321
Mica, n.e.s.	16	lb.	40,318	43,561		12,319
Mica plate, amber commutator and flexible	16	lb.	13,270	24,063	21,102	35,380
Mica splittings	16	lb.	388,548	298,318	308,654	230,227
Mineral water, natural	15			178,715		220,820
Mirrors and bevelled plates	4	Sq. ft.		699,805	736,377	868,155
Monuments finished (lettered only)	9			824,681		801,322
Monuments, granite, cut and polished	9			1,223,417		1,387,658
Monuments, marble, cut and polished	9			208,482		262,621
Monuments, and bases, limestone	9			42,577		154,488
Oil, acid	8	Imp. gal.	1,568,094	71,672	1,395,470	64,000
Oils, fuel and gas	8	Imp. gal.	177,123,232	9,076,746	172,407,242	9,656,655
Oils, lubricating	7-8	Imp. gal.	15,479,465	3,061,116	15,789,852	3,131,634
Oils, light	2-3	Imp. gal.	1,201,634	93,179	1,201,288	102,652
Oils, n.e.s. (absorption, core, ink, road and motor fuel)	2-4-7-8	Imp. gal.	549,648	156,548	2,122,272	491,547
Petroleum spirits	8	Imp. gal.	788,571	132,063	1,137,787	199,619
Pottery, glazed and unglazed	13			53,678		55,305
Plaster castings, assorted statues and church supplies	10			102,040		113,054
Posts, poles, etc., of cement	11					5,769

Table 21.—Alphabetical List of Products Made in All the Industries Classified under Manufactures of the Non-Metallic Minerals in Canada, 1924 and 1925—Concluded

Commodity	Industry number (See list at end of table)	Unit	1924		1925	
			Quantity	Total selling value	Quantity	Total selling value
Sewer pipe and culvert tile, cement .....	11			419,730		394,366
Soap, liquid, soft and powder .....	7			64,933		78,321
Soda water and carbonated beverages .....	15			5,438,462		5,731,217
Stone, artificial .....	11			77,484		256,118
Syrups and fruit juices .....	15			264,559		547,082
Tar and tar products .....	2-3-8	Imp. gal.	19,007,522	736,034	19,016,927	1,065,917
Wax and candles .....	8	lb.	9,112,143	551,434	15,736,867	734,322
Windows, church and memorial .....	4			85,361		96,249
All other products, including ceramic wall tile, glazed and unglazed, electrodes, foundry supplies, graphite, cement posts, poles, etc., pavement and window prisms, sanitary ware, and various other products	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17			1,613,973		2,586,556
<b>Total</b> .....				<b>111,151,828</b>		<b>115,873,848</b>

## KEY TO THE NUMBERED INDUSTRIES

- |                                    |  |
|------------------------------------|--|
| 1. ASBESTOS AND ALLIED PRODUCTS    | 10. (PLASTER CASTINGS AND MODELS<br>(GYPSUM PRODUCTS |
| 2. COKE AND ITS BY-PRODUCTS        | 11. CEMENT PRODUCTS                                  |
| 3. ILLUMINATING AND FUEL GAS       | 12. (ABRASIVE PRODUCTS<br>(ARTIFICIAL ABRASIVES      |
| 4. PLATE, CUT AND ORNAMENTAL GLASS | 13. SAND-LIME BRICK                                  |
| 5. PRESSED AND BLOWN GLASS         | 14. PRODUCTS FROM IMPORTED CLAYS                     |
| 6. GRAPHITE AND ITS PRODUCTS       | 15. AERATED WATERS                                   |
| 7. LUBRICATING OILS, GREASES, ETC. | 16. MICA TRIMMING                                    |
| 8. PETROLEUM REFINING              |  |
| 9. MONUMENTAL AND ORNAMENTAL STONE | 17. MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS      |

Table 22.—Wholesale Prices of Non-Metallic Minerals and Their Products, 1913-1925

## BRICKS, FACE, PRESSED No. 1

Price per M. l.o.b. plant—Monthly quotations from National Brick Co. of Laprairie, Ltd.

Averages		1925					
1913.....	\$16.68	1920.....	\$25.79	Jan.....	\$30.40	July.....	\$30.40
1914.....	15.50	1921.....	26.61	Feb.....	30.40	Aug.....	30.40
1915.....	15.50	1922.....	28.50	March.....	30.40	Sept.....	30.40
1916.....	16.50	1923.....	28.50	April.....	30.40	Oct.....	30.40
1917.....	16.50	1924.....	30.40	May.....	30.40	Nov.....	30.40
1918.....	16.50	1925.....	30.40	June.....	30.40	Dec.....	30.40
1919.....	18.67						

## BRICKS, COMMON, PLASTIC

Price per M. l.o.b. plant—Monthly quotations from National Brick Co., of Laprairie, Ltd.

Averages		1925					
1913.....	\$10.00	1920.....	\$15.85	Jan.....	\$16.625	July.....	\$16.625
1914.....	8.00	1921.....	15.62	Feb.....	16.625	Aug.....	16.625
1915.....	7.25	1922.....	15.20	March.....	16.625	Sept.....	16.625
1916.....	7.75	1923.....	15.68	April.....	16.625	Oct.....	16.625
1917.....	11.00	1924.....	16.63	May.....	16.625	Nov.....	16.625
1918.....	10.75	1925.....	16.625	June.....	16.625	Dec.....	16.625
1919.....	12.50						

## POTTERY

CUPS AND SAUCERS, No. 1 QUALITY, ENGLISH EARTHENWARE, FROM OPEN STOCK

Price per dozen—Monthly quotations from dealers, Toronto

Averages		1925					
1913.....	\$0.65	1920.....	\$2.40	Jan.....	\$1.25	July.....	\$1.50
1914.....	.75	1921.....	2.46	Feb.....	1.25	Aug.....	1.50
1915.....	.90	1922.....	1.90	March.....	1.25	Sept.....	1.35
1916.....	1.10	1923.....	1.52	April.....	1.35	Oct.....	1.35
1917.....	1.25	1924.....	1.38	May.....	1.35	Nov.....	1.35
1918.....	1.60	1925.....	1.36	June.....	1.50	Dec.....	1.35
1919.....	1.92						

Table 22.—Wholesale Prices of Non-Metallic Minerals and Their Products,  
1913-1925—Continued

## DINNER SETS, PRINTED

Price per set of 97 pieces—Monthly quotations from dealer, Toronto

Averages		1925					
1913.....	\$ 4.75	1920.....	\$24.31	Jan.....	\$13.00	July.....	\$10.00
1914.....	4.75	1921.....	22.76	Feb.....	13.00	Aug.....	10.00
1915.....	5.75	1922.....	18.83	March.....	13.00	Sept.....	10.00
1916.....	10.00	1923.....	14.92	April.....	16.00	Oct.....	16.00
1917.....	11.00	1924.....	13.29	May.....	16.00	Nov.....	16.00
1918.....	12.00	1925.....	15.25	June.....	16.00	Dec.....	10.00
1919.....	16.50						

## COAL AND ITS PRODUCTS

## COAL, ANTHRACITE, EGG

Price per ton, f.o.b. Toronto, carload lots—Monthly quotations from dealers

Averages		1925					
1913.....	\$5.88	1920.....	\$11.54	Jan.....	\$12.24	July.....	\$13.21
1914.....	5.76	1921.....	12.66	Feb.....	12.24	Aug.....	13.42
1915.....	5.76	1922.....	11.73	March.....	12.24	Sept.....	13.52
1916.....	5.97	1923.....	11.90	April.....	13.92	Oct.....	13.52
1917.....	6.36	1924.....	12.25	May.....	13.12	Nov.....	13.52
1918.....	7.67	1925.....	13.06	June.....	13.22	Dec.....	13.52
1919.....	9.33						

## COAL, DOMESTIC, RUN OF MINE

Price for small lots per ton net, f.o.b. mines, N.S.—Monthly quotations from owners

Averages		1925					
1913.....	\$2.75	1920.....	\$5.81	Jan.....	\$6.25	July.....	\$ *
1914.....	2.75	1921.....	7.00	Feb.....	6.25	Aug.....	6 *
1915.....	2.75	1922.....	6.08	March.....	6.25	Sept.....	6.25
1916.....	2.75	1923.....	6.25	April.....	6.25	Oct.....	6.25
1917.....	3.25	1924.....	6.25	May.....	6.25	Nov.....	6.25
1918.....	3.76	1925.....	6.25	June.....	*	Dec.....	6.25
1919.....	4.80						

\* Strike.

## COAL, DOMESTIC, RUN OF MINE

Price per net ton, carload lots, f.o.b. mines, B.C.—Monthly quotations from dealers

Averages		1925					
1913.....	\$2.58	1920.....	\$5.63	Jan.....	\$5.30	July.....	\$4.27
1914.....	2.35	1921.....	6.22	Feb.....	4.27	Aug.....	4.27
1915.....	2.32	1922.....	5.72	March.....	4.27	Sept.....	4.27
1916.....	2.40	1923.....	5.69	April.....	4.27	Oct.....	4.27
1917.....	3.12	1924.....	5.45	May.....	4.27	Nov.....	4.27
1918.....	3.88	1925.....	4.35	June.....	4.27	Dec.....	4.27
1919.....	4.91						

## COKE

Price per net ton, f.o.b. mines, B.C.—Monthly quotations from dealers

Averages		1925					
1913.....	\$5.16	1920.....	\$9.55	Jan.....	\$10.27	July.....	\$ 9.40
1914.....	4.56	1921.....	10.67	Feb.....	9.40	Aug.....	9.40
1915.....	4.54	1922.....	10.67	March.....	9.40	Sept.....	9.40
1916.....	4.71	1923.....	10.67	April.....	9.40	Oct.....	9.40
1917.....	6.11	1924.....	10.51	May.....	9.40	Nov.....	9.40
1918.....	7.07	1925.....	9.47	June.....	9.40	Dec.....	9.40
1919.....	8.50						

Table 22.—Wholesale Prices of Non-Metallic Minerals and Their Products,  
1913-1925—Continued

## GLASS AND ITS PRODUCTS

GLASS, WINDOW, STAR, UNDER 26 INCHES

Price per box—Monthly quotations from Hardware and Metal, Toronto

Averages		1925					
1913.....	\$ 3 61	1920.....	\$16 25	Jan.....	\$4 00	July.....	\$4 50
1914.....	3 73	1921.....	6 56	Feb.....	4 00	Aug.....	4 50
1915.....	5 20	1922.....	5 74	March.....	4 00	Sept.....	4 50
1916.....	5 69	1923.....	5 94	April.....	4 00	Oct.....	3 80
1917.....	7 47	1924.....	4 98	May.....	4 00	Nov.....	3 80
1918.....	12 03	1925.....	4 11	June.....	4 50	Dec.....	3 80
1919.....	13 42						

## TUMBLERS, TANK GLASS, OPEN STOCK

Price per gross—Monthly quotations from dealers, Toronto

Averages		1925					
1913.....	\$4 00	1920.....	\$6 66	Jan.....	\$4 70	July.....	\$ 4 80
1914.....	3 00	1921.....	6 90	Feb.....	4 70	Aug.....	4 80
1915.....	3 25	1922.....	5 82	March.....	4 70	Sept.....	4 80
1916.....	3 25	1923.....	4 53	April.....	4 80	Oct.....	4 80
1917.....	4 00	1924.....	4 70	May.....	4 80	Nov.....	4 80
1918.....	5 25	1925.....	4 77	June.....	4 80	Dec.....	4 80
1919.....	6 16						

## PETROLEUM AND ITS PRODUCTS

COAL OIL, WATER WHITE

Price per gallon, f.o.b. Toronto—Quotations from Imperial Oil Company, Ltd.

Averages		1925					
1913.....	\$0 1642	1920.....	\$0 2721	Jan.....	\$0 20	July.....	\$0 20
1914.....	1588	1921.....	2242	Feb.....	20	Aug.....	20
1915.....	1408	1922.....	206	March.....	20	Sept.....	20
1916.....	1013	1923.....	194	April.....	20	Oct.....	20
1917.....	1533	1924.....	2133	May.....	20	Nov.....	20
1918.....	1779	1925.....	20	June.....	20	Dec.....	20
1919.....	2034						

## MOTOR GASOLINE

Price per gallon, f.o.b., Toronto—Monthly quotations from Imperial Oil Company, Ltd.

Averages		1925					
1913.....	\$0 25	1920.....	\$0 386	Jan.....	\$0 205	July.....	\$0 245
1914.....	203	1921.....	351	Feb.....	245	Aug.....	245
1915.....	27	1922.....	327	March.....	245	Sept.....	235
1916.....	27	1923.....	2575	April.....	235	Oct.....	235
1917.....	309	1924.....	3525	May.....	235	Nov.....	235
1918.....	326	1925.....	2366	June.....	245	Dec.....	235
1919.....	325						

## LIME AND CEMENT

LIME, HIGH CALCIUM, 95-97 PER CENT

Price per ton, net, f.o.b. works—Monthly quotations from manufacturer

Averages		1925					
1913.....	\$5 05	1920.....	\$11 75	Jan.....	\$8 00	July.....	\$8 00
1914.....	5 05	1921.....	13 00	Feb.....	8 00	Aug.....	8 00
1915.....	5 00	1922.....	10 00	March.....	8 00	Sept.....	8 50
1916.....	5 50	1923.....	9 17	April.....	8 00	Oct.....	8 00
1917.....	6 00	1924.....	8 83	May.....	8 50	Nov.....	8 00
1918.....	9 00	1925.....	8 08	June.....	8 00	Dec.....	8 00
1919.....	9 25						



Table 22.—Wholesale Prices of Non-Metallic Minerals and Their Products,  
1913-1925—Concluded

PORTLAND CEMENT					
Price per barrel of 350 pounds at Montreal—Monthly quotations from dealer					
Averages			1925		
1913.....	\$1.40	1920.....	\$2.64	Jan.....	\$1.97
1914.....	1.40	1921.....	2.68	Feb.....	1.97
1915.....	1.40	1922.....	2.44	March.....	1.97
1916.....	1.80	1923.....	2.20	April.....	1.97
1917.....	2.00	1924.....	2.12	May.....	1.97
1918.....	2.25	1925.....	1.97	June.....	1.97
1919.....	2.29			July.....	\$1.97
				Aug.....	1.97
				Sept.....	1.97
				Oct.....	1.97
				Nov.....	1.97
				Dec.....	1.97

## MISCELLANEOUS

## SALT, FINE

Price per barrel, 280 pounds net—Monthly quotations from manufacturer					
Averages			1925		
1913.....	\$0.95	1920.....	\$2.56	Jan.....	\$1.55
1914.....	0.95	1921.....	2.77	Feb.....	1.55
1915.....	1.00	1922.....	2.45	March.....	1.55
1916.....	1.06	1923.....	2.16	April.....	1.40
1917.....	1.44	1924.....	1.91	May.....	1.40
1918.....	1.95	1925.....	1.43	June.....	1.40
1919.....	2.15			July.....	\$1.40
				Aug.....	1.40
				Sept.....	1.40
				Oct.....	1.40
				Nov.....	1.40
				Dec.....	1.40

## SULPHUR (CRUDE BRIMSTONE)

Price per gross ton, ex vessel Three Rivers or Montreal—Monthly quotations from dealers

Price per gross ton, ex vessel Three Rivers or Montreal—Monthly quotations from dealers					
Averages			1925		
1913.....	\$32.50	1920.....	\$23.90	Jan.....	\$19.75
1914.....	22.50	1921.....	21.75	Feb.....	19.75
1915.....	22.50	1922.....	21.08	March.....	19.75
1916.....	22.50	1923.....	19.75	April.....	19.75
1917.....	22.50	1924.....	19.75	May.....	19.75
1918.....	22.50	1925.....	19.75	June.....	19.75
1919.....	25.40			July.....	\$19.75
				Aug.....	19.75
				Sept.....	19.75
				Oct.....	19.75
				Nov.....	19.75
				Dec.....	19.75

Table 23.—Index Numbers of Prices for Non-Metallic Minerals and their Products,  
1914 and 1921-1925

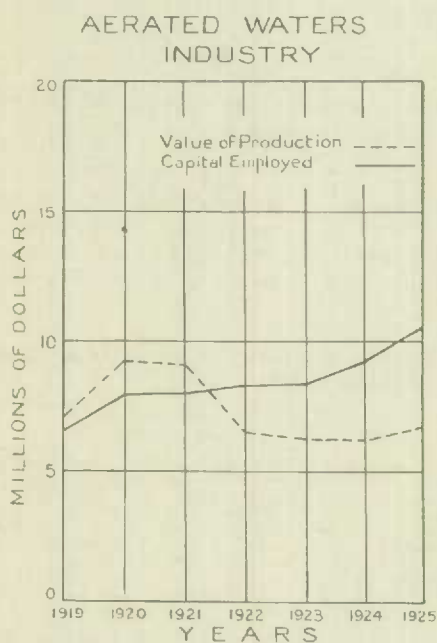
(Average of 1913 Prices=100)

Commodity	1914	1921	1922	1923	1924	1925
Clay products.....	83.4	156.4	157.0	160.5	170.5	170.5
1 Bricks, pressed No. 1.....	92.9	157.2	170.9	170.9	182.3	182.3
2 Bricks, plastic, common.....	80.0	156.2	152.0	156.7	166.3	166.3
Pottery.....	100.8	373.9	391.0	309.9	276.0	315.3
3 Cups and saucers, No. 1 quality.....	115.4	378.3	292.3	233.8	212.8	209.6
4 Dinner sets, printed.....	100.0	479.3	396.6	314.0	279.8	321.1
Coal and its products.....	97.4	233.7	213.8	217.1	216.7	210.8
5 Coal, anthracite, egg.....	98.0	215.3	199.5	202.4	208.3	222.2
6 Coal, run of mine.....	100.0	254.5	221.1	227.3	227.3	227.3
7 Coal, run of mine.....	103.6	242.5	221.1	227.3	227.3	227.3
8 Coal, run of mine.....	90.0	240.7	221.4	220.3	210.9	168.6
9 Coke.....	88.3	206.7	206.7	206.7	203.6	183.5
Glass and its products.....	102.9	181.5	158.7	163.8	157.7	114.0
10 Glass, window, star.....	103.2	151.6	158.9	164.4	137.9	114.0
11 Tumblers, tank glass.....	75.0	172.5	145.5	113.4	117.5	119.4
Petroleum and its products.....	85.9	130.2	129.2	107.6	109.8	102.9
12 Coal oil, W.W.....	96.7	136.5	125.4	118.1	129.9	121.8
13 Gasoline.....	81.2	140.4	130.8	103.0	101.0	94.7
Lime, plaster and cement.....	100.0	198.0	176.7	159.6	153.5	142.7
14 Lime, high calcium.....	100.0	257.5	198.0	181.6	175.0	160.1
15 Cement, portland.....	100.0	191.4	174.3	157.1	151.1	140.7
Miscellaneous non-metallic minerals.....	102.7	208.7	188.2	168.3	153.1	124.4
16 Salt, fine.....	104.7	291.3	257.9	227.6	190.8	151.3
17 Sulphur, refined.....	100.0	96.7	93.7	87.8	87.8	87.8
<b>Index numbers of non-metallic minerals and their products.....</b>	<b>94.5</b>	<b>205.4</b>	<b>188.4</b>	<b>183.8</b>	<b>183.4</b>	<b>176.6</b>

## CHAPTER TWO

### AERATED WATERS

**General.**—Production from plants in Canada engaged primarily in the manufacture of non-alcoholic carbonated beverages amounted in value to \$6,877,524 in 1925 as compared with corresponding values of \$6,354,358 in 1924 and \$6,408,832 in 1923. Capital employed was reported at 10.7 million dollars and 1,684 people were employed throughout the year. Raw materials cost slightly more than 3 million dollars and as the completed products sold for 6.9 million dollars the value added by manufacturing stood at 3.8 million dollars; that is, the value of raw materials was more than doubled by the manufacturing processes.



The aerated waters industry in Canada is distributed fairly well over the whole Dominion. Demand for these beverages is, of course, greater in the more thickly populated districts, and so, naturally, the industry is centred in Ontario and Quebec. In 1925, there were 313 plants in Canada engaged in this line of production; they were distributed by provinces as follows: 131 in Ontario, 88 in Quebec, 21 in Nova Scotia and Prince Edward Island, 17 in British Columbia, 16 in New Brunswick, 16 in Saskatchewan, 14 in Alberta and 10 in Manitoba. Quebec and Ontario together accounted for 70 per cent of the operating plants and 73 per cent of the total production in Canada.

The manufacture of carbonated beverages is of such a nature as to permit of operations on a small scale with but limited equipment as is evidenced by the fact that during the year under review 126 plants in Canada each had a production valued at less than \$5,000, while the output values of 63 other concerns were each below the \$10,000 mark. Many of these establishments worked part time only, while others employed only one or two persons, but, on the other hand, the firms manufacturing the more widely known and popular brands of soft drinks maintained extensive properties in several different cities. Only 2 plants reported outputs valued in excess of a half million dollars, 4 others each exceeded the quarter million dollar mark and 22 other establishments each produced beverages valued at more than 100 thousand dollars. A large number of the plants in this industry are really only bottling works; they purchase the flavours and extracts from manufacturers and then carbonate the water and add the flavouring.

**Table 24.—Summary Statistics of the Aerated Waters Industry in Canada, 1921-1925**

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel	Cost of materials	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	\$
1921.....	320	8,236,946	1,932	578,356	1,233,627	113,714	3,607,147	9,176,868	5,569,721
1922.....	283	8,205,457	1,537	775,182	1,028,182	28,707	2,705,957	6,594,509	3,888,552
1923.....	295	8,315,389	1,724	704,047	1,139,494	98,807	2,672,332	6,408,832	3,736,500
1924.....	296	9,385,802	1,543	673,094	1,134,478	*131,609	1,982,340	6,354,358	4,372,018
1925.....	313	10,673,331	1,684	599,011	1,250,213	*145,506	3,076,563	6,877,524	3,800,964

\* Includes cost of electricity.

Table 25.—Principal Statistics of the Aerated Waters Industry in Canada, by Provinces, 1924 and 1925

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling value of products
			\$	\$			\$	\$
Nova Scotia and Prince Edward Island.....	18	59	50,280	192,711	21	64	56,481	180,051
New Brunswick.....	15	61	58,086	249,377	16	59	59,614	246,472
Quebec.....	80	565	635,730	2,201,769	88	648	729,893	2,592,501
Ontario.....	131	566	690,558	2,363,346	131	678	605,360	2,425,681
Manitoba.....	8	94	135,752	382,630	10	115	132,285	422,533
Saskatchewan.....	12	47	69,232	206,902	16	74	81,203	359,290
Alberta.....	16	85	110,158	326,592	14	76	91,481	342,165
British Columbia.....	16	67	87,176	238,037	17	70	89,947	308,821
<b>Canada.....</b>	<b>296</b>	<b>1,543</b>	<b>1,897,572</b>	<b>6,351,358</b>	<b>312</b>	<b>1,684</b>	<b>1,849,254</b>	<b>6,877,524</b>

**Capital Employed.**—In 1925, capital invested in the aerated waters industry in Canada reached the record sum of \$10,673,331, an increase of 1.3 million dollars over the corresponding figure for 1924 which in turn was a million dollars over 1923; lands, buildings, and plant equipment valued at \$6,528,558 made up about 61 per cent of the total investment. Plants in Ontario represented 40 per cent of the total investment, and the factories in Quebec accounted for about 48 per cent of the remainder.

Table 26.—Capital Employed in the Aerated Waters Industry in Canada, by Classes and by Provinces, 1924 and 1925

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Nova Scotia and Prince Edward Island.....	101,926	68,000	33,276	203,202	110,304	60,777	25,574	296,655
New Brunswick.....	99,178	69,404	77,111	245,723	106,320	84,369	79,276	249,965
Quebec.....	1,271,742	386,423	555,419	2,213,585	1,922,284	408,963	718,464	3,049,711
Ontario.....	2,497,565	506,409	1,290,101	4,294,075	2,557,469	509,611	1,244,051	4,311,131
Manitoba.....	597,668	287,990	30,871	916,529	790,490	189,626	40,180	1,020,296
Saskatchewan.....	228,416	190,114	41,337	459,867	337,536	146,881	69,175	553,592
Alberta.....	369,292	288,537	37,937	695,766	423,626	231,405	38,438	693,469
British Columbia.....	214,113	104,316	37,086	355,515	274,529	155,740	162,243	592,512
<b>Total.....</b>	<b>5,378,841</b>	<b>1,899,193</b>	<b>2,106,768</b>	<b>9,384,802</b>	<b>6,528,558</b>	<b>1,767,372</b>	<b>2,377,401</b>	<b>10,673,331</b>

**Employment.**—Plants in Canada making aerated waters of all kinds during 1925 gave employment to 382 salaried workers and 1,302 wage-earners, a total of 1,684 employees as compared with a total of 1,543 in 1924. Payments in salaries and wages totalled \$1,849,254, an increase of only 2 per cent over the corresponding figure for the previous year.

Seasonal demand for carbonated beverages is reflected in the monthly records of employment obtained from the manufacturers. In January, 1925, there were only 993 wage-earners on the rolls of the various companies but by July the number had increased to 1,554, a gain of 56 per cent during the first seven months of the year. Then the number employed gradually fell away until in December only 1,045 names were carried on the various wage rolls. The average for the year stood at 1,302 as against 1,167 in the preceding year.

Some years ago the aerated waters industry was largely seasonal in nature and there was little production in the winter months, but persistent advertising has created a considerable demand the year round. Of course, consumption is greatest during the hot summer months and the summer season is the busy time for all bottling companies in Canada.

Table 27.—Average Number of Employees, Salaries and Wages Paid in the Aerated Waters Industry in Canada, by Provinces, 1924 and 1925

Province	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
						\$	\$	\$
1924								
Nova Scotia.....	5	2	32	1	40	8,128	26,752	34,880
New Brunswick.....	10	5	46	.....	61	24,067	34,679	58,686
Quebec.....	111	16	417	21	365	242,287	393,443	635,730
Ontario.....	102	20	412	32	366	231,795	428,763	659,558
Manitoba.....	20	6	66	2	94	42,104	93,648	135,752
Saskatchewan.....	14	.....	31	2	47	25,177	44,055	69,232
Alberta.....	35	4	42	4	85	59,659	50,499	110,158
British Columbia.....	19	.....	45	3	67	32,192	51,984	87,176
<b>*Canada.....</b>	<b>323</b>	<b>53</b>	<b>1,097</b>	<b>76</b>	<b>1,543</b>	<b>673,094</b>	<b>1,134,478</b>	<b>1,807,572</b>
1925								
Nova Scotia.....	10	.....	34	2	46	10,223	30,858	41,081
New Brunswick.....	6	4	48	1	59	10,931	43,583	54,514
Quebec.....	136	21	467	24	648	269,183	460,700	729,883
Ontario.....	63	22	430	33	578	173,098	432,262	605,360
Manitoba.....	20	3	89	3	115	32,807	99,478	132,285
Saskatchewan.....	16	2	52	4	74	24,633	59,570	84,203
Alberta.....	22	4	43	7	76	39,892	51,589	91,481
British Columbia.....	14	1	52	3	70	24,389	66,558	89,947
<b>*Canada.....</b>	<b>325</b>	<b>57</b>	<b>1,220</b>	<b>82</b>	<b>1,684</b>	<b>599,041</b>	<b>1,250,213</b>	<b>1,849,254</b>

\*Includes also data for 2 plants in Prince Edward Island.

Table 28.—Number of Wage-Earners Employed in the Aerated Waters Industry in Canada, by Months, 1924 and 1925

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	806	49	855	938	55	993
February.....	842	52	894	945	61	1,006
March.....	888	56	944	908	61	1,059
April.....	970	58	1,034	1,102	65	1,167
May.....	1,198	68	1,266	1,269	80	1,349
June.....	1,297	75	1,372	1,453	90	1,543
July.....	1,434	78	1,512	1,473	81	1,554
August.....	1,337	68	1,405	1,419	76	1,495
September.....	1,113	62	1,175	1,223	75	1,308
October.....	956	57	1,013	1,009	63	1,132
November.....	892	56	948	991	61	1,052
December.....	859	56	915	982	63	1,045
<b>Average.....</b>	<b>1,097</b>	<b>70</b>	<b>1,167</b>	<b>1,220</b>	<b>82</b>	<b>1,302</b>

Table 29.—Hours of Labour (in Month of Greatest Employment) in the Aerated Waters Industry in Canada, by Provinces, 1925

Province	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
Prince Edward Island.....	12	.....	.....	.....	48	.....	.....	.....
Nova Scotia.....	20	14	8	.....	48	54	58	.....
New Brunswick.....	11	40	9	.....	48	54	60	.....
Quebec.....	85	47	436	8	44	54	60	66
Ontario.....	121	249	266	14	45	54	60	68
Manitoba.....	1	73	34	2	48	54	58	66
Saskatchewan.....	19	31	22	.....	45	54	60	.....
Alberta.....	40	21	11	.....	45	54	60	.....
British Columbia.....	38	25	8	.....	48	54	60	.....

Table 30.—Fuel and Electricity Used in the Aerated Waters Industry in Canada, 1924 and 1925

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
Anthracite coal.....	Ton	1,406	19,138	1,187	18,253
Bituminous coal.....	Ton	4,244	36,055	4,544	39,239
Lignite.....	Ton	502	2,739	153	1,307
Coke.....	Ton	77	911	155	2,023
Gasoline.....	Gal.	80,357	23,472	97,207	27,00
Oil (fuel).....	Gal.	3,610	950	9,278	2,372
Wood.....	Cord	1,472	6,632	1,342	6,877
Gas.....	M. cu. ft.	13,588	6,012	13,454	7,513
Other fuel.....			458		960
Electric power.....	K.W.H.	1,442,336	35,241	1,486,104	39,353
<b>Total</b> .....			<b>131,609</b>		<b>143,506</b>

Table 31.—Power Equipment Employed in the Aerated Waters Industry in Canada, 1924 and 1925

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines.....	13	194	16	223
Gas engines.....	7	16	12	35
Oil and gasoline engines.....	20	67	18	39
Hydraulic turbines and water wheels.....	7	14	6	12
<b>Total primary power</b> .....	<b>47</b>	<b>291</b>	<b>52</b>	<b>309</b>
Electric motors driven by purchased power.....	516	1,020	550	1,683
<b>Total power equipment employed</b> .....	<b>563</b>	<b>1,911</b>	<b>602</b>	<b>1,992</b>
Electric motors driven by power generated by the primary power of the industry.....	9	45	5	24
<b>Total electric motors</b> .....	<b>572</b>	<b>1,665</b>	<b>557</b>	<b>1,706</b>
Boilers installed.....	46	1,092	38	991

**Materials Used.**—Sugar, carbon dioxide gas, syrup, fruit juices and flavouring extracts are the principal materials used in the manufacture of aerated waters. In 1925 the cost of all ingredients used in manufacturing was \$2,150,739 and containers of all kinds cost \$925,824, making a total expenditure of \$3,076,563 for all materials used during the year. In 1924, the cost of all materials used was \$1,982,340 and, in 1923, the corresponding figure was \$2,672,332.

Table 32.—Materials Used in the Aerated Waters Industry in Canada, 1924 and 1925

Item	1924	1925
	Cost at works	Cost at works
	\$	\$
Manufacturing materials used.....	1,349,434	2,150,739
Boxes, barrels, bottles, packages, labels, casks, caps, etc., purchased during the year.....	632,906	925,824
<b>Total</b> .....	<b>1,982,340</b>	<b>3,076,563</b>

**Products.**—Soda water and other non-alcoholic carbonated beverages made up the bulk of production in this industry; in 1925 the value placed on the output was \$5,731,217 as against a corresponding figure of \$5,438,463 in 1924. Natural mineral water, cider, syrups and fruit juices were also sold in considerable quantities.

**Table 33.—Products of the Aerated Waters Industry in Canada, 1924 and 1925**

Item	1924	1925
	Selling value	Selling value
	\$	\$
Cider.....	186,134	131,236
Natural mineral water (fortified or not).....	178,715	220,820
Soda water and other carbonated beverages (non-alcoholic).....	5,438,462	5,731,217
Syrups and fruit juices.....	264,559	547,082
All other products.....	256,488	247,169
<b>Total.....</b>	<b>6,354,358</b>	<b>6,877,524</b>

**Primary Production of Mineral Waters.**—(From the *Annual Report on the Mineral Production of Canada, 1925*.)—Mineral waters produced in Canada during 1925 amounted to 190,134 imperial gallons valued at \$28,413 as compared with 209,353 gallons valued at \$15,421 in the previous year. Mineral springs in Ontario and Quebec contributed the whole of the Canadian production. In the present compilation there has been included a record of all natural mineral waters sold to the general public for medicinal purposes. No record has been kept of the shipments made of ordinary spring waters. The values given do not take into account any mineral waters used at the springs for drinking or bathing purposes but include only the shipments from the springs in bottles or other containers.

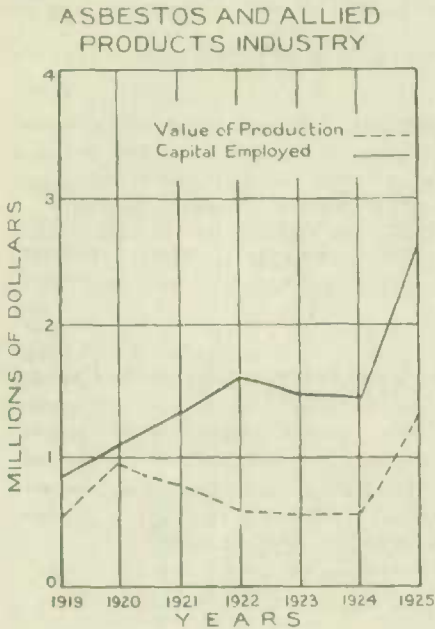
**Table 34.—Production in Canada, Imports and Exports of Mineral Waters, 1924 and 1925**

Item	1924		1925	
	Imp. gals.	Value	Imp. gals.	Value
		\$		\$
<b>PRODUCTION, by provinces—</b>				
Quebec.....	7,683	2,288	7,122	2,961
Ontario.....	201,670	13,133	183,012	25,452
<b>Total.....</b>	<b>209,353</b>	<b>15,421</b>	<b>190,134</b>	<b>28,413</b>
<b>IMPORTS—Mineral and aerated waters.....</b>		181,107		180,543
<b>EXPORTS—Mineral and aerated waters.....</b>		109,735		12,402

## CHAPTER THREE

### ASBESTOS AND ALLIED PRODUCTS

**General.**—Manufactures of asbestos and allied products in Canada during 1925 amounted in value to \$1,344,097, an increase of 128 per cent over the corresponding value for 1924 due chiefly to returns received from new plants in Quebec. Products of this industry include asbestos packing, brake linings, pipe covering, paper sheathings, shingles and lumber, and magnesite stucco and flooring.



Although Canada produces annually about 85 per cent of the world's supply of crude asbestos, the fabrication of asbestos products for commercial uses is yet in the early stages of development. During 1925, exports of asbestos from Canada amounted in value to \$9,737,964 of which only \$55,572 was in the form of manufactures. Imports of asbestos products in the same year totalled \$448,769 and as production in Canada was valued at \$1,344,097, the apparent consumption of manufactured asbestos products in Canada during 1925 reached a value of \$1,737,294.

In 1925, there were 12 plants in Canada engaged in the manufacture of products from asbestos or allied materials. These plants represented a capital investment of 2.6 million dollars, gave employment to 256 persons to whom \$282,382 were paid in salaries and wages, and used \$783,063 worth of raw materials in the manufacture of finished commodities for sale. There were 6 plants in Ontario, 4 in Quebec, 1 in Nova Scotia and 1 in British Columbia. In 1924, only 9 plants were in operation, of which 5 were in Ontario, 2 in Quebec and 1 in each of the provinces of Nova Scotia and British Columbia. During 1925 there was in operation 1 new plant in Ontario and 2 new factories in Quebec.

Many of the Canadian plants making asbestos products are subsidiary companies making only a limited number of commodities and marketing all lines produced by the parent company. The close relation between the manufacturing and jobbing divisions of such concerns makes it difficult in some instances to separate the data relating to manufacturing only. The present report, however, shows only data pertaining to the manufacturing operations.

**Table 35.—Summary Statistics of the Asbestos and Allied Products Industry in Canada, 1921-1925**

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel*	Cost of materials	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	
1921.....	11	1,351,278	132	87,609	185,913	12,765	385,810	804,693	418,793
1922.....	11	1,610,700	156	91,798	97,261	10,682	271,749	615,190	343,411
1923.....	9	1,486,589	145	83,518	93,468	12,292	260,281	583,013	322,732
1924.....	9	1,468,728	120	92,514	77,465	19,949	267,201	589,339	322,138
1925.....	12	2,624,260	256	110,488	171,894	62,640	783,063	1,344,097	561,034

\* Includes cost of electricity in 1924 and 1925.

**Table 36.—Principal Statistics of the Asbestos and Allied Products Industry in Canada, by Provinces, 1924 and 1925**

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling value of products
			\$	\$			\$	\$
Quebec.....	2				4	199	202,015	922,641
Ontario.....	5	48	74,717	370,362	6	53	75,052	403,254
<b>Canada*</b> .....	<b>9</b>	<b>120</b>	<b>169,979</b>	<b>589,339</b>	<b>12</b>	<b>256</b>	<b>282,382</b>	<b>1,344,697</b>

\*Includes also data for 1 plant in each of the provinces of Nova Scotia and British Columbia in 1924 and 1925, also data for 2 plants in Quebec in 1924.

**Capital Employed.**—Capital employed in the asbestos products industry in Canada in 1925 amounted to \$2,624,260, an increase of almost 79 per cent over the corresponding figure for 1924, and the highest on record for the industry. Lands, building and plant equipment were valued at \$1,888,084 as compared with \$959,740 in 1924; the value of materials on hand and stocks in process rose to \$491,457 from \$333,977, and the cash, trading and operating accounts and bills receivable was reported at \$244,719 as against \$175,011 in the previous year. Quebec's 4 plants reported a capital investment of \$2,072,654 which was about 79 per cent of the total for the industry.

**Table 37.—Capital Employed in the Asbestos and Allied Products Industry in Canada, by Classes and by Provinces, 1924 and 1925**

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Quebec.....					1,598,521	341,754	142,379	2,072,654
Ontario.....	296,207	152,267	71,176	519,650	298,863	142,887	98,315	519,965
<b>Canada*</b> .....	<b>959,740</b>	<b>333,977</b>	<b>175,011</b>	<b>1,468,728</b>	<b>1,888,084</b>	<b>491,457</b>	<b>244,719</b>	<b>2,624,260</b>

\*Includes data for 1 plant in each of the provinces of Nova Scotia, and British Columbia in 1924 and 1925, also data for 2 plants in Quebec in 1924.

**Employment.**—Plants engaged in the manufacture of asbestos products in 1925 employed 60 salaried employees and an average of 196 wage-earners, a total of 256 persons as compared with 43 salaried employees and 77 wage-earners or a total of 120 in 1924. Payments in salaries and wages amounted to \$282,382 in 1925 and \$169,979 in 1924.

Employment returns show a distinct seasonal trend in the industry due probably to the greater demand for asbestos building materials in the summer months. In January, there were 177 wage-earners employed in all plants; by May the number had risen to 198 and in August reached the maximum of 221, an increase of 25 per cent over the January figure. Thereafter activity was not so great and by the end of the year the number of names carried on the rolls had declined to 184. In the previous year, 1924, the maximum of employment was attained in June when there were 110 names on the wage-rolls, and the minimum was reached in December when only 43 wage-earners were employed.

On the average, plants in this industry operated on 265 days during the year. All the larger plants operated the year round but two of the smaller factories worked only part of the year.



**Table 38.—Average Number of Employees, Salaries and Wages Paid in the Asbestos and Allied Products Industry in Canada, by Provinces, 1924 and 1925**

Province	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1924						\$	\$	\$
Ontario.....	16	6	22	4	48	44,438	30,279	74,717
*Canada.....	33	10	71	6	120	92,544	77,465	169,979
1925								
Quebec.....	30	5	143	21	199	62,153	140,762	202,915
Ontario.....	17	7	25	4	53	46,535	28,517	75,052
*Canada.....	48	12	170	26	256	110,488	171,854	282,383

\*Includes also data for 2 plants in Quebec in 1924 and 1 in each of the provinces of Nova Scotia and British Columbia in 1924 and 1925.

**Table 39—Number of Wage-Earners Employed in the Asbestos and Allied Products Industry in Canada, by Months, 1924 and 1925**

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	68	6	74	152	25	177
February.....	76	6	82	148	20	124
March.....	77	5	82	161	20	187
April.....	76	7	83	150	26	185
May.....	78	6	84	172	26	198
June.....	104	6	110	180	26	206
July.....	103	6	109	180	26	212
August.....	99	6	105	191	27	221
September.....	59	6	65	175	25	200
October.....	39	6	45	161	25	188
November.....	39	5	44	172	27	199
December.....	39	4	43	158	20	184
Average.....	71	6	77	170	26	196

**Table 40—Hours of Labour (in Month of Greatest Employment) in the Asbestos and Allied Products Industry in Canada, by Provinces, 1925**

Province*	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
Quebec.....	1		179	25	45		56	60
Ontario.....	21	21			44	50		

\*There was also 1 plant in each of the provinces of Nova Scotia and British Columbia.

**Table 41—Fuel and Electricity Used in the Asbestos and Allied Products Industry in Canada, 1924 and 1925**

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
Anthracite coal.....	Short ton			83	732
Bifuminous coal.....	Short ton	893	5,232	4,590	28,530
Fuel oil.....	Imp. gal.	38,791	3,651	36,900	3,822
Wood.....	Cord	3	25	5	35
Electric power.....	K.W.H.	405,143	11,038	1,041,275	20,721
<b>Total.....</b>			<b>19,849</b>		<b>62,640</b>

**Table 42—Power Equipment Employed in the Asbestos and Allied Products Industry in Canada, 1924 and 1925**

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Electric motors driven by purchased power.....	36	536	101	2,259
<b>Total power equipment employed.....</b>	<b>36</b>	<b>536</b>	<b>191</b>	<b>2,259</b>
Electric motors driven by power generated by the primary power of the industry.....	8	97	2	45
<b>Total electric motors.....</b>	<b>44</b>	<b>633</b>	<b>193</b>	<b>2,364</b>
Boilers installed.....	5	273	6	764

**Materials Used.**—Asbestos fibre, asbestos cloth and yarn, asbestos paper, and bonding materials such as clays and silicates were the principal materials used in manufacturing in this industry. In 1925, the total cost of materials used was reported at \$783,063 as compared with a cost of \$267,201 in 1924.

**Table 43.—Materials Used in the Asbestos and Allied Products Industry in Canada, 1924 and 1925**

Material	Unit of measure	1924		1925	
		Quantity	Cost at works	Quantity	Costs at works
Asbestos cloth and yarn.....	Yd.	105,152	46,632		
Asbestos crude and fibre.....	Lb.	75,967	24,753		665,608
Asbestos paper, corrugated and plain.....	Sq. ft.	253,300	5,369		
Clay.....	Cwt.	4,799	3,630	2,500	1,009
Cotton cloth and yarn.....	Lb.		8,424	19,096	6,825
Felt.....	Lb.	4,059	5,172	2,059	2,900
Rubber.....	Lb.	25,501	6,697	25,559	8,345
Silicate of soda.....	Cwt.	7,515	13,866	10,659	9,122
Gasoline, benzol toluol, alcohol, etc.....	Gal.			18,744	8,139
Talc.....	Cwt.	350	300	115	172
Colours.....	Lb.			52,300	4,845
Containers, boxes, etc.....			2,212		5,896
All other materials.....			150,146		70,202
<b>Total.....</b>			<b>267,201</b>		<b>783,063</b>

**Products.**—Products of the asbestos industry included asbestos lining, asbestos packing, asbestos building materials and various other products valued in the aggregate at \$1,344,097, an increase of 128 per cent over the output value for 1924. Increases were noted in the outputs of all classes of asbestos products, but particularly in the output of asbestos paper, shingles and lumber; as these latter commodities were only made in 2 establishments in Canada no separate details can be given in this report.

**Table 44.—Products of the Asbestos and Allied Products Industry in Canada, 1924 and 1925**

Product	Unit of measure	1924		1925	
		Quantity	Selling value	Quantity	Selling value
Asbestos lining.....	Ft.		\$ 186,295	1,636,355	272,217
Asbestos packing of all kinds.....			128,037		187,916
Asbestos pipe and boiler covering.....			12,622		179,717
All other products*.....			252,106		702,748
Amount received for custom work and repairs.....			10,279		1,499
<b>Total.....</b>			<b>589,339</b>		<b>1,344,097</b>

\*Includes composition flooring, furnace cement, silicate, boiler cleaners, asbestos shingles, millboard, corrugated sheathing, paper, asbestos building lumber and magnesite stucco.

**Primary Production of Asbestos.**—(From the annual *Report on the Mineral Production of Canada, 1925.*)—A new high record was established in the Canadian production of asbestos in 1925. Total shipments for the year were 290,389 short tons valued at \$8,988,360, as compared with 225,744 tons at \$6,710,830 in 1924. The average price per ton received by the operators was \$30.95, while in 1924 receipts averaged \$29.73.

Asbestos rock mined and raised during the year amounted to 4,121,258 tons. In the same period the mills handled 3,386,752 tons or 82 per cent of the tonnage raised; the remainder consisted of waste rock and was sent directly to the dumps.

Exports of asbestos (including sand and waste) in 1925, totalled 258,017 tons, or 42,515 tons in excess of the quantity exported in 1924. Shipments to Great Britain amounted to 8,709 tons, to United States 209,879 tons, and to Germany, 11,120 tons. Exports of asbestos to Australia, Belgium, France, Italy and the Netherlands increased materially.

Sales of Rhodesian and South African asbestos in 1925 were considerably greater than in the previous year. The Russian output also increased, while the Cyprus production remained at the same level as in 1924. Canada produces about 85 per cent of the world's total supply of asbestos.

**Table 45.—Output and Sales of Asbestos in Canada, 1924 and 1925**

Classification	1924				1925			
	Total output	Sold or shipped			Total output	Sold or shipped		
		Quantity	Total sales value at mill	Average value per ton		Quantity	Total sales value at mill	Average value per ton
	Ton	Ton	\$	\$	Ton	Ton	\$	\$
Crude No. 1.....	995	980	403,304	411.54	806	1,044	381,026	365.13
Crude No. 2.....	2,805	3,808	762,166	200.15	2,701	3,777	778,895	206.22
Other crude.....	190	71	12,080	170.14	260	348	49,030	140.90
Spinning stocks.....	8,623	10,205	1,112,796	109.04	13,509	16,070	1,710,379	106.43
Shingle stocks.....	15,734	19,292	903,775	46.85	25,501	30,010	1,523,980	50.78
Mill board and paper stocks.....	73,282	70,387	2,208,698	31.38	94,350	93,937	2,915,046	31.03
Fillers, floats and other short fibres.....	124,840	121,001	1,308,011	10.81	128,382	128,338	1,618,290	12.61
Sand, gravel and crushed rock.....					16,409	16,865	10,814	0.64
<b>Total.....</b>	<b>226,463</b>	<b>225,744</b>	<b>6,710,830</b>	<b>29.73</b>	<b>281,718</b>	<b>290,389</b>	<b>8,988,360</b>	<b>30.95</b>

**Table 46.—World's Production of Asbestos<sup>1</sup>, 1913 and 1921-1925**

(Long tons)

Country	1913	1921	1922	1923	1924	1925
Canada <sup>1</sup> .....	118,361	82,822	136,166	206,680	201,557	259,275
Southern Rhodesia <sup>2</sup> .....	259	17,437	12,722	18,182	23,340	30,669
Union of South Africa <sup>2</sup> .....	850	4,810	3,919	7,312	6,459	9,078
Australia <sup>2</sup> .....		1,182	741	217	74	51
Cyprus <sup>2</sup> .....	(a) 1,168	(a) 897	2,285	2,151	3,903	3,221
India <sup>2</sup> .....		316	242	247	125	—
China <sup>2</sup> .....		33	(a) 194	(a) 126	125	213
Finland.....		750	772	774	1,207	1,700
Italy <sup>4</sup> .....		413	492	1,813	2,125	2,071
Russia <sup>2</sup> .....	17,218	7,080	5,065	4,801	(a) 8,197	10,000
Spain <sup>2</sup> .....		19	5	*	*	*
United States <sup>2</sup> .....	982	742	60	202	(*) 268	1,123
France <sup>2</sup> .....		500	600	653	*	*
Japan.....		*	919	309	277	*
<b>Total.....</b>	<b>139,019</b>	<b>116,931</b>	<b>174,182</b>	<b>243,227</b>	<b>247,657</b>	<b>317,401</b>

\* Data not available.

Source—

<sup>1</sup> Dominion Bureau of Statistics, Canada.

<sup>2</sup> Imperial Mineral Resources Bureau (to 1921). Later figures from official reports of the different countries.

<sup>3</sup> Mineral Resources of United States 1923.

<sup>4</sup> Asbestos

<sup>5</sup> The Mineral Industry, 1924.

(a) Exports.

44290—41

Table 47.—Imports into Canada and Exports of Asbestos, 1924 and 1925

	1924		1925	
	Tons	Value	Tons	Value
<b>IMPORTS—</b>		\$		\$
Asbestos in any form other than crude, and all manufactures of, n.o.p. ....	—	441,300	—	350,600
Asbestos packing .....	111	98,418	111	98,169
<b>Total</b> .....	—	<b>539,718</b>	—	<b>448,769</b>
<b>EXPORTS—</b>				
Asbestos .....	109,730	6,297,819	136,750	8,090,106
Asbestos sand and waste .....	95,019	1,219,270	121,267	1,592,286
Asbestos manufactures .....	—	44,132	—	55,572
<b>Total</b> .....	—	<b>7,561,221</b>	—	<b>9,737,964</b>

Table 48.—Exports of Canadian Asbestos by Countries of Destination, 1924 and 1925

Commodity and Destination	1924		1925	
	Tons	Value	Tons	Value
<b>ASBESTOS—</b>		\$		\$
Great Britain .....	6,614	374,690	6,840	608,774
United States .....	72,233	3,904,161	94,292	4,979,303
Australia .....	473	24,130	1,360	94,272
Belgium .....	2,798	150,065	6,002	370,550
France .....	5,640	452,151	5,484	438,195
Germany .....	9,133	785,703	8,947	737,802
Italy .....	2,439	151,778	3,730	260,263
Japan .....	9,222	358,596	7,127	373,312
Netherlands .....	1,068	88,580	2,707	212,855
Spain .....	—	—	130	7,800
Other countries .....	110	7,975	125	7,000
<b>Total</b> .....	<b>109,730</b>	<b>6,297,819</b>	<b>136,750</b>	<b>8,090,106</b>
<b>SAND AND WASTE—</b>				
Great Britain .....	3,100	53,983	1,863	34,490
United States .....	89,852	1,124,031	115,687	1,460,341
Other countries .....	2,337	42,056	3,817	67,455
<b>Total</b> .....	<b>95,059</b>	<b>1,220,070</b>	<b>121,267</b>	<b>1,592,286</b>
<b>ASBESTOS MANUFACTURES INCLUDING ASBESTOS ROOFING—</b>				
Great Britain .....	—	1,007	—	272
United States .....	—	30,272	—	32,443
British South Africa .....	—	—	—	5,855
France .....	—	32	—	205
New Zealand .....	—	125	—	31
Other countries .....	—	12,696	—	16,766
<b>Total</b> .....	—	<b>44,132</b>	—	<b>55,572</b>

CHAPTER FOUR  
CEMENT PRODUCTS

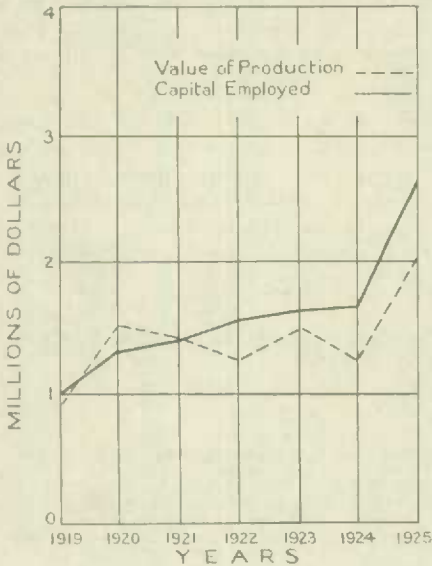
**General.**—During 1925, the production in Canada of cement blocks, sewer pipe, drain pipe and similar commodities amounted in value to \$2,020,239, an increase of 61 per cent over the \$1,257,871 produced in the previous year and 34 per cent above the corresponding figure of \$1,505,528 reported for 1923. The industry as reviewed in this chapter covers the

operations of 197 different establishments distributed as follows: 148 in Ontario, 34 in Quebec, 5 in New Brunswick, 4 in British Columbia, 2 in Alberta and 2 each in Nova Scotia and Saskatchewan. Many of these plants were very small and employed only 1 or 2 persons; only 11 concerns each had a production valued at more than \$50,000; 2 other concerns each made more than \$25,000 worth of commodities for sale; 21 more establishments each had outputs above \$10,000 in value; 26 others each exceeded the \$5,000 mark; the outputs of 91 other plants were each valued at between \$1,000 and \$5,000, while 46 of the reporting firms made less than a thousand dollars' worth of commodities during the year. Many individuals made a few cement blocks in spare time only but no record of these minor operations has been included in this report.

Plants in this industry in 1925 represented a capital investment of \$2,594,736, and gave employment throughout the year to an average of 819 people to whom \$697,716 were paid in salaries and wages. Purchased materials used during the year cost \$730,296 so the value added by the manufacturing processes, being

the difference between the cost of raw materials and the selling value of the products, was \$1,289,943.

CEMENT PRODUCTS  
INDUSTRY



**Table 49—Summary Statistics of the Cement Products Industry in Canada, 1921-1925**

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel*	Cost of materials	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	\$
1921.....	108	1,410,813	441	74,125	332,620	26,991	555,915	1,433,253	877,338
1922.....	124	1,553,160	391	81,965	290,303	21,794	533,335	1,281,004	747,669
1923.....	118	1,664,580	421	97,987	360,758	25,242	590,654	1,505,528	908,874
1924.....	116	1,673,758	455	87,308	337,770	26,419	493,270	1,257,871	764,601
1925.....	197	2,594,736	819	125,567	572,149	40,442	730,296	2,020,239	1,289,943

\* Includes cost of electricity in 1924 and 1925.

**Table 50.—Principal Statistics of the Cement Products Industry in Canada, by Provinces, 1924 and 1925**

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling value of products
			\$	\$			\$	\$
New Brunswick.....	3	11	8,240	18,855	5	16	5,382	24,077
Quebec.....	18	90	75,910	235,617	34	179	150,605	398,192
Ontario.....	92	345	339,793	1,001,036	148	568	511,704	1,499,938
British Columbia.....					4	9	2,575	7,448
<b>Canada*</b> .....	<b>116</b>	<b>455</b>	<b>425,078</b>	<b>1,257,871</b>	<b>197</b>	<b>819</b>	<b>697,716</b>	<b>2,629,239</b>

\* In 1924 total for Canada includes data for 1 plant in Nova Scotia and 2 in Saskatchewan; in 1925 the total includes data for 2 plants in Nova Scotia, 2 in Saskatchewan and 2 in Alberta.

**Capital Employed.**—Capital employed in the cement products industry in Canada totalled \$2,594,736 in 1925 as compared with \$1,673,758 in the previous year. The increase of 55 per cent in output value was due to the collection of more complete returns for this industry and a gain of 81 in the number of reporting plants. Lands, buildings, machinery and tools valued at \$1,465,650 represented about 56 per cent of the total investment in the industry. Ontario led the provinces with a capital investment of \$2,068,497 or about 80 per cent of the total capital employed in the industry.

**Table 51.—Capital Employed in the Cement Products Industry in Canada, by Classes and by Provinces, 1924 and 1925**

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand and stock in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand and stock in process	Cash, trading and operating accounts and bills receivable	Total
	\$	\$	\$	\$	\$	\$	\$	\$
New Brunswick.....	36,853	3,208	3,150	43,211	37,351	3,994		41,348
Quebec.....	169,289	43,797	60,264	273,350	227,963	61,089	103,029	392,081
Ontario.....	770,325	286,017	291,904	1,348,246	1,126,400	401,875	540,222	2,068,497
British Columbia.....					19,500	143	1,500	21,143
<b>Canada*</b> .....	<b>982,982</b>	<b>334,199</b>	<b>356,577</b>	<b>1,673,758</b>	<b>1,465,650</b>	<b>478,620</b>	<b>650,466</b>	<b>2,594,736</b>

\* In 1924 total for Canada includes data for 1 plant in Nova Scotia and 2 plants in Saskatchewan; in 1925 the total includes data for 2 plants in Nova Scotia, 2 in Saskatchewan and 2 in Alberta.

**Employment.**—In 1925, the cement products industry gave employment to 819 persons of whom 90 were salaried employees and 729 were wage-earners. Payments in salaries reached the sum of \$125,567 and wages amounted to \$572,149, a total expenditure for this purpose of \$697,716 as compared with \$425,078 to a total of 455 employees in 1924.

As in other industries that supply materials to the building trade, the manufacture of cement products shows a distinct seasonal trend. In January, 1925, there were only 261 wage-earners employed but this number gradually increased to 551 in April and a maximum of 811 in May after which there was a decline to 724 in August, 586 in October and 413 in December, making an average of 729 wage-earners for the year. A similar trend was shown in 1924, the peak number of 466 being reached in May and the minimum of 191 in December.

Table 52.—Average Number of Employees, Salaries and Wages Paid in the Cement Products Industry in Canada, by Provinces, 1924 and 1925

Province	Average number of employees				Salaries and wages			
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
					\$	\$	\$	
<b>1924</b>								
New Brunswick.....	2		9		11	1,700	6,540	8,240
Quebec.....	12		78		90	13,600	62,310	75,910
Ontario.....	32	7	305	1	345	71,408	268,385	339,793
<b>*Canada.....</b>	<b>48</b>	<b>7</b>	<b>399</b>	<b>1</b>	<b>455</b>	<b>87,308</b>	<b>337,770</b>	<b>425,078</b>
<b>1925</b>								
New Brunswick.....	1		15		16	900	4,482	5,382
Quebec.....	24	1	152	2	179	24,126	126,479	150,605
Ontario.....	54	7	504	3	568	99,868	411,836	511,704
British Columbia.....			9		9		2,575	2,575
<b>*Canada.....</b>	<b>82</b>	<b>8</b>	<b>724</b>	<b>5</b>	<b>819</b>	<b>125,567</b>	<b>572,149</b>	<b>697,716</b>

\* Includes also data for 1 plant in Nova Scotia and 2 in Saskatchewan in 1924 and for 2 plants in Nova Scotia, and 2 in each of the provinces of Saskatchewan and Alberta in 1925.

Table 53.—Number of Wage-Earners Employed in the Cement Products Industry in Canada, by Months, 1924 and 1925

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	213	1	214	257	4	261
February.....	193	1	194	258	4	262
March.....	292	1	293	366	5	371
April.....	391	1	392	546	5	551
May.....	465	1	466	806	5	811
June.....	451	1	452	763	4	767
July.....	413	1	414	732	4	736
August.....	398	2	400	719	5	724
September.....	384	1	385	687	5	692
October.....	356	1	357	581	5	586
November.....	269	1	270	506	4	510
December.....	190	1	191	409	4	413
<b>Average.....</b>	<b>399</b>	<b>1</b>	<b>400</b>	<b>724</b>	<b>5</b>	<b>729</b>

Table 54.—Hours of Labour (in Month of Greatest Employment) in the Cement Products Industry in Canada, by Provinces, 1924 and 1925

Province	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
Nova Scotia.....		5	4			54	60	
New Brunswick.....	3	10	2		45	54	60	
Quebec.....	62	105	98	1	48	54	60	66
Ontario.....	135	223	374	12	48	54	58	66
Saskatchewan.....			37	2			60	22
Alberta.....	2	1			48	54		
British Columbia.....	10				45			

Table 55.—Fuel and Electricity Used in the Cement Products Industry in Canada, 1924 and 1925

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
Anthracite coal.....	ton	487	\$ 3,656	132	\$ 2,026
Bituminous coal.....	ton	1,657	10,048	2,205	14,268
Lignite.....	ton	3	36		
Coke.....	ton	57	532	75	877
Gasoline.....	imp. gal.	10,624	2,025	30,804	8,164
Fuel oil.....	imp. gal.	5,425	1,283	3,049	649
Wood.....	cords	95	481	71	580
Gas.....	M cu. ft.	566	341	380	263
Other fuel.....			32		1,159
Electric power.....	k. w. h.	87,362	7,085	400,112	12,456
<b>Total</b> .....			<b>26,419</b>		<b>40,442</b>

Table 56.—Power Equipment Employed in the Cement Products Industry in Canada, 1924 and 1925

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines.....	8	253	6	170
Gas engines.....	23	148	34	218
Oil and gasoline engines.....	27	203	37	189
<b>Total primary power</b> .....	<b>58</b>	<b>604</b>	<b>77</b>	<b>577</b>
Electric motors driven by purchased power.....	57	542	90	854
<b>Total power equipment employed</b> .....	<b>115</b>	<b>1,146</b>	<b>167</b>	<b>1,431</b>
<b>Total electric motors</b> .....	<b>57</b>	<b>542</b>	<b>90</b>	<b>854</b>
Boilers installed.....	19	580	23	431

**Materials Used.**—The principal materials used in the manufacture of cement products are Portland cement, sand, gravel and crushed stone. In 1925, the cost of these and other raw materials, amounted to \$704,484 which together with \$25,812 paid for boxes, crates, etc., made a total expenditure of \$730,296 as compared with \$493,270 in the previous year.

Table 57.—Materials used in the Cement Products Industry in Canada, 1924 and 1925

Material	Total cost at works	
	1924	1925
	\$	\$
Portland cement, sand, gravel, etc.....	470,361	704,484
Boxes, crates and lumber.....	22,909	25,812
<b>Total</b> .....	<b>493,270</b>	<b>730,296</b>

**Products.**—In 1925, the value of production in this industry stood at \$2,020,239 as compared with the corresponding figure of \$1,257,871 shown for 1924. Hollow building blocks produced were worth \$859,706 as against \$523,326 in 1924; the output of drain pipe valued at \$201,890 was almost four times the value reported in the previous year; artificial stone made during the year was valued at \$256,118 as compared with \$77,484 in 1924, while the output of cement bricks and sewer pipe were slightly below the figures shown for last year. Quantity production of cement bricks, building blocks, drain pipe, etc., have not been shown because of the different sizes made; in many cases, too, only the value was reported.



Table 58.—Products of the Cement Products Industry in Canada, 1924 and 1925

Product	Total selling value	
	1924	1925
	\$	\$
Cement bricks.....	53,066	40,261
Hollow building blocks, etc.....	523,326	859,706
Drain pipe.....	53,989	201,890
Sewer pipe.....	419,730	304,366
Artificial stone.....	77,484	256,118
Cement posts, poles, etc.....	13,444	5,769
Other products.....	116,832	262,129
<b>Total</b> .....	<b>1,257,871</b>	<b>2,020,239</b>

**Primary Production of Cement.**—(From the annual *Report of the Mineral Production of Canada, 1925*.)—In 1925, shipments of cement from Canadian mills showed an appreciable advance over the total recorded for the previous twelve months. Sales during 1925 totalled 8,116,597 barrels valued at \$14,046,704 as compared with 7,498,624 barrels at \$13,398,411 shipped in 1924.

Cement is produced in Quebec, Ontario, Manitoba, Alberta and British Columbia. There was formerly a production of puzzolan cement from blast furnace slag in Nova Scotia, but this has been discontinued in recent years. In 1925, Ontario was the leading producer, sales in that province amounting to 3,462,358 barrels valued at \$5,253,911. While slightly below the total quantity for Ontario, sales from Quebec mills amounted to 3,365,802 barrels. British Columbia mills sold 485,185 barrels for \$1,151,344, and Manitoba came next with 407,395 barrels worth \$1,037,929. Alberta sales totalled 395,857 barrels at \$913,529.

By provinces, the average selling price per barrel, f.o.b. plant, was as follows: Quebec; \$1.69; Ontario, \$1.52; Manitoba, \$2.55; Alberta, \$2.31; and British Columbia, \$2.37.

Importations during 1925 amounted to 21,849 barrels averaging \$2.89 per barrel as against an average price of \$2.50 in 1924. Exports of Portland cement totalled 997,915 barrels invoiced at \$1,498,495.

Cement consumption in Canada during the year was considerably lower than in 1924. In comparison with 1913, the 1925 consumption showed a decrease of 3 per cent.

Table 59.—Production, Imports, Exports and Apparent Consumption of Cement in Canada, 1924 and 1925

	1924		1925	
	Barrels	Value	Barrels	Value
		\$		\$
Output.....	7,768,652		7,869,946	
Sold or used.....	7,498,624	13,398,411	8,116,597	14,046,704
Stocks, December 31.....	1,521,574		1,274,923	
Imports.....				
Portland cement.....	27,672	69,320	21,849	63,067
Manufactures.....		9,772		13,753
Exports.....	153,520	213,845	997,915	1,498,495
Consumption.....	7,372,776		7,140,351	

Table 60.—Sales of Cement in Canada by Provinces, 1924 and 1925

Province	1924		1925	
	Barrels	Value	Barrels	Value
		\$		\$
Quebec.....	2,758,316	4,796,959	3,365,802	5,689,991
Ontario.....	3,504,499	5,068,671	3,462,358	5,253,911
Manitoba.....	280,948	746,750	407,395	1,037,929
Alberta.....	416,534	945,700	395,857	913,529
British Columbia.....	472,327	1,240,331	485,185	1,151,344
<b>Canada</b> .....	<b>7,498,624</b>	<b>13,398,411</b>	<b>8,116,597</b>	<b>14,046,704</b>

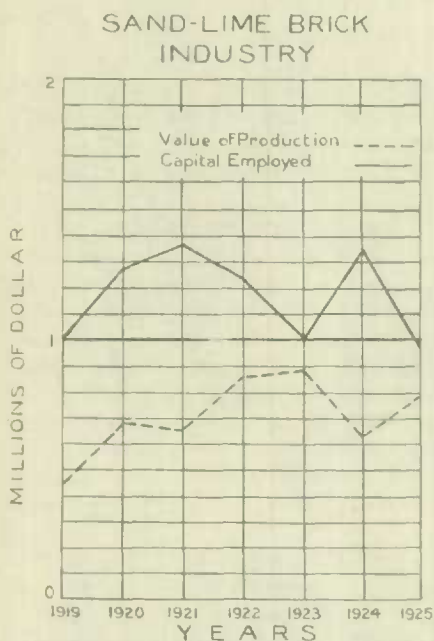
## CHAPTER FIVE

### SAND-LIME BRICK

**General.**—Sand-lime brick is used extensively in the building trade. By the addition of hydrated lime to sand in the proper proportions, a mixture can be made from which it is possible to produce durable bricks. Methods of manufacture were described in the review of the industry for 1923. In general the essentials to the production of high-grade brick are: thorough hydration of the lime before being made into the brick form; the proper percentage of lime and sand; the highest pressure to form the brick, and the elimination of manual labour to attain consistent results.

Increased outputs characterized the operations of the plants reporting in 1925. In spite of the fact that there were fewer plants in operation, production of sand-lime brick in Canada in 1925 totalled 63,869 M valued at \$781,555 as compared with 55,873 M worth \$619,946 in 1924. This was an increase of 14 per cent in quantity and 26 per cent in value. Nine plants were in operation in 1925 of which 7 were in Ontario and 2 in Manitoba; in 1924 there were 10 factories in Ontario, 1 in Manitoba and 1 in Saskatchewan. Three of the smaller establishments in Ontario and 1 small plant in Saskatchewan did not operate during 1925, but one other plant in Manitoba again commenced to produce during the year.

Capital employed in the sand-lime brick industry in 1925 amounted to \$960,729 as against \$1,346,239 in the previous year; employees numbered 206 as against 236 in 1924 and materials used in manufacture cost \$130,155 in 1925 as compared with a corresponding figure of \$181,260 in 1924.



**Table 61.—Summary Statistics of the Sand-Lime Brick Industry in Canada, 1921-1925**

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel*	Cost of materials	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	\$
1921	10	1,372,253	223	52,017	179,996	43,320	139,008	662,744	523,736
1922	11	1,224,808	223	54,418	233,287	58,258	291,903	858,807	566,904
1923	8	1,042,619	225	49,257	235,991	50,810	218,118	807,960	670,842
1924	12	1,346,239	236	48,785	199,260	61,237	181,260	619,946	438,686
1925	9	960,729	206	35,337	207,659	62,044	130,155	781,555	651,400

\* Includes cost of electricity in 1924 and 1925.

**Capital Employed.**—Capital employed in the sand-lime brick industry in 1925 was reported at \$960,729, a decline of 30 per cent from the figure given for 1924 and the lowest on record for the industry. Lands, plants and equipments valued at \$738,692 represented 77 per cent of the total capital employed in 1925 and compares with a value of \$1,182,579 placed on fixed assets in the previous year. Plants in Ontario accounted for approximately two-thirds of the total capital employed in the industry.

Table 62.—Capital Employed in the Sand-Lime Brick Industry in Canada, by Classes and by Provinces, 1924 and 1925

Province	1924				1925			
	Lands, buildings, fixtures, machinery and tools	Materials on hand and stock in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand and stock in process	Cash, trading and operating accounts and bills receivable	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Ontario.....	835,995	34,368	91,072	961,435	395,808	39,576	175,027	610,411
<b>Canada*</b> .....	<b>1,182,579</b>	<b>39,224</b>	<b>124,436</b>	<b>1,346,239</b>	<b>738,692</b>	<b>42,036</b>	<b>180,907</b>	<b>960,729</b>

\* Includes data for 1 plant in each of the provinces of Manitoba and Saskatchewan for 1924, and for 2 plants in Manitoba for 1925.

**Employment.**—In 1925, there were 17 salaried employees and 189 wage-earners, a total of 206 people, employed in the manufacture of sand-lime brick in Canada and payments in salaries and wages amounted to \$242,996; in the previous year there were 236 persons employed and expenditures in salaries and wages totalled \$248,045.

Employment showed a seasonal trend as some of the plants did not operate during the winter months when building activities were curtailed. In January, there were 143 wage-earners employed; in June the number reached a maximum for the year with 205 names on the rolls, and then declined to 191 in October and 164 in December, making an average of 189 for the year as compared with an average of 209 in 1924.

Table 63.—Average number of Employees, Salaries and Wages Paid, in the Sand-Lime Brick Industry in Canada, 1924 and 1925

—	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1924						\$	\$	\$
<b>Canada</b> .....	22	5	209		236	48,785	199,260	248,045
1925								
<b>Canada</b> .....	16	1	189		206	35,337	207,659	242,996

Table 64.—Number of Wage-Earners Employed in the Sand-Lime Brick Industry in Canada, by Months, 1924 and 1925

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	164		164	143		143
February.....	120		120	139		139
March.....	153		153	150		150
April.....	192		192	185		185
May.....	228		228	195		195
June.....	190		190	205		205
July.....	212		212	199		199
August.....	178		178	196		196
September.....	177		177	192		192
October.....	192		192	191		191
November.....	219		219	166		166
December.....	229		229	164		164
<b>Average</b> .....	<b>209</b>		<b>209</b>	<b>189</b>		<b>189</b>

**Table 65.—Hours of Labour (in Month of Greatest Employment) in the Sand-Lime Brick Industry in Canada, 1925**

	Number of wage-earners working				Average hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
Canada .....	15	67	156	2	44	54	58	66

**Table 66.—Fuel and Electricity Used in the Sand-Lime Brick Industry in Canada, 1924 and 1925**

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
Bituminous coal.....	Ton	7,331	44,901	7,451	47,388
Gasoline.....	Imp. gal.	592	121	.....	.....
Wood.....	Cord	20	105	27	158
Other fuel.....			20	.....	.....
Electric power.....	K.W.H.	955,494	16,090	817,516	14,498
<b>Total</b> .....			<b>61,237</b>		<b>67,044</b>

**Table 67.—Power Equipment Employed in the Sand-Lime Brick Industry in Canada, 1924 and 1925**

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines.....	7	700	4	475
<b>Total primary power</b> .....	<b>7</b>	<b>700</b>	<b>4</b>	<b>475</b>
Electric motors driven by purchased power.....	35	891	26	719
<b>Total power equipment employed</b> .....	<b>42</b>	<b>1,591</b>	<b>30</b>	<b>1,194</b>
<b>Total electric power</b> .....	<b>35</b>	<b>891</b>	<b>26</b>	<b>719</b>
Boilers installed.....	8	1,115	10	915

**Materials Used.**—Quicklime and sand are the principal materials used in the manufacture of sand-lime brick. In 1925 manufacturing materials cost \$105,022 delivered at the works and boxes, crates, etc., cost \$25,133 making a total of \$130,155 as compared with \$181,260 in the previous year.

**Table 68.—Materials Used in the Sand-Lime Brick Industry in Canada, 1924 and 1925**

Material	1924	1925
	Cost at works	Cost at works
	\$	\$
Manufacturing materials used.....	159,007	105,022
Boxes, crates and lumber.....	21,353	25,133
<b>Total</b> .....	<b>181,260</b>	<b>130,155</b>

**Products.**—Sand-lime brick was the only product of the plants in this industry. Production in 1925 amounted to 63,869 M valued at \$781,555 as compared with 55,873 M with a total selling value of \$619,946 in 1924. The value of output in 1925 was thus 26 per cent above the figure for 1924 but was 13 per cent below the total for 1923 when the record for the industry was attained.

**Table 69.—Products of the Sand-Lime Brick Industry in Canada, 1924 and 1925**

Product	1924		1925	
	Quantity	Selling value	Quantity	Selling value
Sand-lime brick.....	55,873	619,946	63,869	781,555
<b>Total</b> .....	<b>55,873</b>	<b>619,946</b>	<b>63,869</b>	<b>781,555</b>

**Primary Production of Brick, Lime and Sand.**—(From the annual *Report on the Mineral Production of Canada, 1925.*)

**Brick.**—The total Canadian production in 1925 was valued at \$5,944,163 as compared with a value of \$5,722,997 in the previous year. Ontario leads all other provinces in Canada in the production of building brick. In 1925, this province's production had a selling value of \$3,196,335; Quebec followed with a total value of \$2,018,008; and Alberta came next with a valuation of \$224,569. British Columbia, Manitoba, Nova Scotia, Saskatchewan, New Brunswick and Prince Edward Island followed in the order named.

**Table 70.—Production of Building Brick in Canada, by Provinces, 1924 and 1925**

		Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
<b>1924</b>										
Soft mud process	Face.....	M			10,605		226			10,831
		\$			182,385		2,863			185,248
Common		M	440	2,345	4,802	31,941	5,722	1,446	2,565	59,079
		\$	5,880	38,131	48,865	488,742	93,698	20,473	19,195	746,044
Stiff mud process (wire cut)	Face.....	M	675		14,611		165	1,200	213	349
		\$	13,581		381,546	1,385,131	4,911	32,210	5,730	19,106
Common		M	4,161		93,343		22,563	127	3,502	633
		\$	50,322		1,351,657	424,536	1,270	3,570	38,823	10,453
Dry press	Face.....	M			1,817		30,597		173	1,480
		\$			53,006	636,101		6,064	25,824	40,577
Common		M						128	7,510	35,283
		\$				34,093		2,018	96,533	761,572
Fancy or ornamental brick.....	M			223	532					755
	\$			9,603	88,857					98,460
Sewer brick.....		M			2,656					2,656
		\$			39,446					46,775
<b>Total</b> .....	M	5,276	2,345	114,796	163,790	6,014	3,557	14,157	7,433	31,473
	\$	69,743	38,131	1,811,680	3,279,291	99,879	67,195	186,111	136,334	5,722,997
<b>1925</b>										
Soft mud process	Face.....	M			2	24,479	3,219			27,694
		\$			35	476,638	45,060			521,739
Common		M	830	2,000	7,740	30,799	6,014	602	3,189	51,214
		\$	10,760	30,000	86,114	474,114	96,632	9,951	52,360	733,976
Stiff mud process (wire cut)	Face.....	M	1,435		21,224		68,975	324	852	93,973
		\$	29,180		506,113	1,288,382	8,404	17,104	17,963	1,843,856
Common		M	3,658		93,827		29	465	5,036	208
		\$	45,475		1,328,463	195,202	283	6,531	52,645	1,635,257
Dry press	Face.....	M			2,919		32,016		77	37,201
		\$			91,551	638,812		2,634	16,525	800,504
Common		M		250	800				11,930	27,053
		\$		2,800	7,200	64,377			137,430	276,133
Fancy or ornamental brick.....	M			98	426					524
	\$			4,592	21,728					26,320
Sewer brick.....		M			2,125				360	2,485
		\$			37,082				15,300	52,382
<b>Total</b> .....	M	5,923	2,250	126,611	176,645	9,596	1,764	18,740	16,093	351,196
	\$	85,415	32,880	2,018,008	3,196,335	150,385	36,220	224,569	197,911	5,944,163

\* Includes record of small production in Prince Edward Island.

**Lime.**—Production of lime in Canada during 1925, increased 12 per cent in quantity over the previous year's shipments. The year's production amounted to 10,256,542 bushels, consisting of 8,529,399 bushels of quicklime, and 60,450 tons of hydrated lime, having a total value of \$3,387,652. In 1924, the total production was 9,136,952 bushels valued at \$3,178,541. The average price throughout Canada for quicklime in 1925 was 32 cents per bushel, while hydrated lime sold for \$11.30 per ton.

Importations of lime in the year under review were recorded at 4,700 tons appraised at \$47,639. Exports, according to Customs' records, were 16,286 tons, worth \$312,168.

Quicklime is used extensively in Canada in chemical works, pulp and paper mills and in the building trades. Hydrated lime is sold mainly to the building trades and dealers, although appreciable quantities are also consumed in the chemical industry, pulp and paper mills, etc.

Ontario is the chief Canadian source of lime; this province produced 5,115,974 bushels of quicklime and 41,610 tons of hydrated lime in 1925, having a total selling value at the kiln of \$2,044,125. There was no production of lime in Prince Edward Island nor Saskatchewan during 1925.

**Table 71.—Production of Lime in Canada, 1924 and 1925, Showing Purpose for which Sold or Used**

Purpose for which sold or used	1924				1925			
	Quicklime		Hydrated lime		Quicklime		Hydrated lime	
	Bushels	Value*	Tons	Value*	Bushels	Value*	Tons	Value*
Building trades.....	1,056,281	\$ 430,624	22,772	\$ 284,327	1,003,084	\$ 369,574	20,658	\$ 358,178
Chemical works.....	2,653,362	843,111	1,953	13,835	3,145,399	992,360	2,325	18,576
Glass works.....	94,602	20,567	25	287	78,653	21,706		
Smelters.....	56,518	35,689			181,740	58,404		
Pulp and paper mills.....	1,806,907	466,189	3,535	33,016	2,028,002	479,025	5,500	37,562
Sugar refineries.....	315,323	94,383			314,786	91,974		
Tanneries.....	63,141	21,411		111	98,414	30,142	177	1,272
Agricultural uses (fertilizers).....				399	3,374	13,667	611	5,119
Dealers (uses unspecified).....	743,816	287,362	13,073	160,937	868,658	278,760	16,992	194,430
Other consumers.....	940,259	424,002	4,218	51,362	796,987	377,036	5,118	63,750
<b>Total sold or used.....</b>	<b>7,820,209</b>	<b>2,629,338</b>	<b>46,086</b>	<b>549,203</b>	<b>8,529,399</b>	<b>2,704,765</b>	<b>60,450</b>	<b>682,887</b>

\* Total selling value at kiln.

**Table 72.—Imports into Canada and Exports of Lime, 1924 and 1925**

Item	1924		1925	
	Tons	Value	Tons	Value
Imports.....	4,418	\$ 46,578	4,700	\$ 47,639
Exports.....	22,750	411,122	16,286	312,168

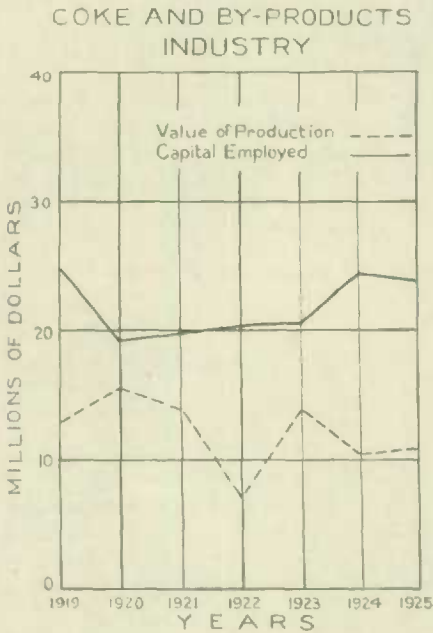
**Table 73.—Production in Canada, Imports and Exports of Sand and Gravel, 1924 and 1925**

Kind	1924		1925	
	Tons	Value	Tons	Value
<b>PRODUCTION—</b>		\$		\$
Moulding sand.....	118,202	80,072	57,650	48,880
Building sand and sand for concrete roadwork, etc.....	2,662,809	911,173	2,657,623	755,289
Other sand (including blast, core and engine sands).....	46,515	22,346	47,538	17,770
Sand and gravel for railway ballast.....	5,075,511	696,966	3,950,328	570,235
Sand and gravel for concrete, road building, etc.....	3,086,663	1,293,259	3,965,166	1,626,834
Crushed gravel.....	612,800	207,267	450,530	201,402
<b>Total.....</b>	<b>11,603,500</b>	<b>3,181,083</b>	<b>11,018,647</b>	<b>3,220,410</b>
<b>IMPORTS—</b>				
Sand, silica for glass and carborundum manufacture, etc.....	131,778	324,270	143,501	353,327
Sand and gravel, n.o.p.....	150,868	118,397	282,203	184,000
<b>Total.....</b>	<b>282,646</b>	<b>442,667</b>	<b>425,704</b>	<b>537,327</b>
<b>EXPORTS.....</b>	<b>1,036,029</b>	<b>210,496</b>	<b>864,672</b>	<b>198,485</b>

## CHAPTER SIX

### COKE AND ITS BY-PRODUCTS

**General.**—Coke is produced in Canada in three different industries. Besides that produced in the familiar beehive and by-product ovens, coke is obtained as a by-product in the manufacture of illuminating and fuel gas and in the refining of petroleum. Petroleum coke is of little importance as the production is comparatively small and it is not commonly sold in competition with gas-house or by-product coke; it is used in the manufacture of electrodes and as a fuel in the refineries. Gas coke is used extensively as a domestic fuel but is too soft for metallurgical or foundry purposes, the use which consumes the great bulk of all the coke produced in Canada.



Production of coke in Canada during 1925 totalled 1,589,927 tons, of which 1,079,526 tons were made in plants producing metallurgical coke as the chief product; 467,213 tons were obtained as a by-product from gas plants; and 43,188 tons of petroleum coke were recovered from oil refineries. In 1924, the total production of coke in Canada amounted to 1,486,237 tons.

The largest part of the output of coke is used in the metallurgical industry where it is employed as a blast furnace fuel, but it also is used extensively in foundries and in other metallurgical operations. The primary coke-producing plants, therefore, are usually operated as adjuncts to metallurgical works, especially iron blast furnaces, and the output of coke parallels closely the output of pig-iron which in turn is controlled by the condition of general business. Even the growing demand for coke as a domestic fuel has not destroyed this parallelism; blast furnaces and

other metallurgical industries remain the principal customers of the coke-maker.

Two general factors influenced the quantity output of metallurgical coke in Canada during 1925—the production of pig-iron and the strike of the coal miners in Nova Scotia during the summer months. Production of coke was highest in the months of March and October, due to increased pig-iron production in those months, while during June, July and August the output was considerably curtailed, especially in Nova Scotia, because of the strike, which was followed by a scarcity of Canadian-mined coal such as is used for coke-making in that province.

Coke is produced by the destructive distillation of bituminous coal and is made in two kinds of ovens, the by-product and the beehive types. From the by-product oven, as the name implies, are recovered coke, breeze, gas, ammonia liquor which may be made into ammonium sulphate, and light oils, such as toluol, benzol, motor oil, etc. The beehive type is designed to produce coke only and no provision is made for the recovery of the by-products.

Metallurgical coke was made in Canada by (a) Dominion Iron and Steel Company Limited at Sydney, N.S., (b) Steel Company of Canada Limited at Hamilton, Ont., (c) Algoma Steel Corporation, Limited, at Sault Ste. Marie, Ont., (d) Hamilton By-Product Coke Ovens, Limited at Hamilton, Ont., (e) Crow's Nest Pass Coal Company at Fernie,

B.C., (f) Granby Consolidated Mining, Smelting and Power Company at Anyox, B.C. The by-product type of oven is operated by all these companies with the exception of the Crow's Nest Pass Coal Company who, as yet, have not deemed it advisable to install the newer type of oven.

Of the 6 plants in this industry, the 3 in Ontario procured bituminous coal for coke-making from the United States; the 1 plant in Nova Scotia used Canadian coal almost entirely but during the strike of the coal miners in that area in 1925 this concern was forced to bring in some coal from United States; and 1 plant in British Columbia used domestic coal only while the other coke plant in that province used about 1 ton of American coal to every 6 tons of Canadian coal used.

Statistics given in this chapter (excepting tables 74 and 85-92) cover only those plants making coke as the primary product; that is, only those plants making metallurgical coke are included in this review. Separate chapters are devoted to the artificial gas and petroleum-refining industries.

The 6 plants in the coke industry represented a capital investment of nearly 24 million dollars, employed 583 persons during the year, paid out \$885,637 in salaries and wages, and converted materials worth \$7,112,311 into products having a selling value of \$11,020,298. In 1924, the same plants had an output valued at \$10,438,462. Of the 6 plants in operation, 3 were located in Ontario, 2 in British Columbia, and 1 in Nova Scotia.

**Table 74.—Total Production of Coke in Canada, by Industries, 1924 and 1925**

Industry	1924		1925	
	Quantity	Selling value	Quantity	Selling value
	Short tons	\$	Short tons	\$
Coke and by-products industry.....	985,305	7,268,713	1,079,526	7,442,103
Illuminating and fuel gas industry.....	451,607	3,164,234	467,213	3,040,738
Petroleum refining industry.....	49,325	312,521	43,188	281,705
<b>Total.....</b>	<b>1,486,237</b>	<b>10,745,468</b>	<b>1,589,927</b>	<b>10,764,546</b>

**Table 75.—Summary Statistics of the Coke and By-Products Industry in Canada, 1921-1925**

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel and electricity	Cost of materials*	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	\$
1921.....	5	19,866,300	647	283,554	939,235	38,638	12,295,797	14,214,728	1,918,631
1922.....	6	20,363,785	533	99,865	617,028	291,225	6,130,628	7,336,627	1,205,999
1923.....	5	20,494,142	598	86,979	755,397	211,515	11,437,863	13,901,445	2,463,582
1924.....	6	24,315,744	530	84,854	816,138	1,125,067	6,879,510	10,438,462	3,558,946
1925.....	6	23,905,454	583	80,090	805,517	1,213,677	7,112,311	11,020,298	3,907,987

\* Includes materials used as fuel in 1921, 1922 and 1923.

**Table 76.—Principal Statistics of the Coke and By-Products Industry in Canada, by Provinces, 1924 and 1925**

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling value of products
			\$	\$			\$	\$
Ontario.....	3	266	506,087	6,823,309	3	250	493,16	57,001,913
<b>Canada*.....</b>	<b>6</b>	<b>530</b>	<b>900,932</b>	<b>10,438,462</b>	<b>6</b>	<b>583</b>	<b>885,637</b>	<b>11,020,298</b>

\* Includes also data for 1 plant in Nova Scotia and 2 plants in British Columbia.



**Capital Employed.**—Capital employed in the coke and by-products industry in Canada in 1925 amounted to \$23,905,454, a decline of nearly a half-million dollars from the figure reported in 1924. About 95 per cent of the total output employed was tied up in lands and extensive buildings, and plant equipment. Ontario's plants accounted for 45 per cent of the total investment for the industry.

**Table 77.—Capital Employed in the Coke and By-Products Industry in Canada, by Classes and by Provinces, 1924 and 1925**

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand, and stock in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand, and stock in process	Cash, trading and operating accounts and bills receivable	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Ontario.....	9,090,384	1,565,063	270,317	10,925,764	9,159,137	1,260,709	153,712	10,573,647
<b>Canada</b> .....	<b>23,146,224</b>	<b>1,578,203</b>	<b>290,317</b>	<b>24,315,744</b>	<b>22,415,261</b>	<b>1,273,899</b>	<b>216,294</b>	<b>23,905,454</b>

Includes also data for 1 plant in Nova Scotia and 2 in British Columbia.

**Employment.**—During 1925, plants in the coke industry gave work to 27 salaried employees and an average of 556 wage-earners, a total of 583 persons to whom \$885,637 were paid in salaries and wages as compared with 530 employees and an expenditure of \$900,992 in salaries and wages in 1924. According to monthly figures, employment was greatest in the forepart of the year and reached a maximum in March when there were 596 wage-earners employed; this number did not vary much until June when the strike in Nova Scotia affected the industry and the number of employees dropped off a little. By September only 512 names were on the wage-rolls of the various companies but settlement of the strike and a number of rail orders for the steel plant led to increased activity in October and 576 wage-earners were employed in that month. By December the number had dropped again to 554. The coke industry is closely related to the pig iron industry and conditions generally follow the same trend.

**Table 78.—Average Number of Employees, Salaries and Wages Paid in the Coke and Its By-Products Industry in Canada, by Provinces, 1924 and 1925**

Province	Average number of employees				Salaries and wages			
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
					\$	\$	\$	
1924								
Ontario.....	14		251	1	266	45,078	461,009	506,087
<b>Canada</b> .....	<b>28</b>		<b>501</b>	<b>1</b>	<b>530</b>	<b>84,854</b>	<b>816,138</b>	<b>900,992</b>
1925								
Ontario.....	14		235	1	250	46,344	440,821	487,165
<b>Canada</b> .....	<b>27</b>		<b>555</b>	<b>1</b>	<b>583</b>	<b>80,000</b>	<b>805,547</b>	<b>885,637</b>

\* Includes data for 2 plants in British Columbia and 1 in Nova Scotia.

Table 79.—Number of Wage-Earners Employed in the Coke and Its By-Products Industry in Canada, by Months, 1924 and 1925

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	575		575	557	1	558
February.....	531		531	562	1	563
March.....	735		735	595	1	596
April.....	628		628	576	1	577
May.....	446		446	582	1	583
June.....	477		477	544	1	545
July.....	456		456	540	1	541
August.....	349		349	525	1	526
September.....	349		349	511	1	512
October.....	458	1	459	575	1	576
November.....	392	1	393	541	1	542
December.....	360	1	361	553	1	554
<b>Average.....</b>	<b>501</b>	<b>1</b>	<b>502</b>	<b>555</b>	<b>1</b>	<b>556</b>

Table 80.—Hours of Labour (in Month of Greatest Employment) in the Coke and Its By-Products Industry in Canada, by Provinces, 1925

Province	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
Ontario.....				284				76
<b>*Canada.....</b>	<b>141</b>			<b>478</b>	<b>48</b>			<b>80</b>

\* Includes also data for 2 plants in British Columbia and 1 in Nova Scotia.

Table 81.—Fuel and Electricity Used in the Coke and Its By-Products Industry in Canada, 1924 and 1925

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
Bituminous coal.....	Short ton	11,589	\$ 37,793	7,398	\$ 28,820
Coke.....	Short ton	13,123	96,879	46,711	224,787
Gas.....	M cu. ft.	5,913,099	942,656	5,008,236	862,927
Other fuel.....			1,758		882
Electric power.....	k.w.h.	8,578,445	75,981	11,342,996	96,261
<b>Total.....</b>			<b>1,125,067</b>		<b>1,213,677</b>

Table 82.—Power Equipment Employed in the Coke and Its By-Products Industry in Canada, 1924 and 1925

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines.....	89	2,993	98	3,831
<b>Total primary power.....</b>	<b>89</b>	<b>2,993</b>	<b>98</b>	<b>3,831</b>
Electric motors driven by purchased power.....	162	4,086	183	4,481
<b>Total power equipment employed.....</b>	<b>251</b>	<b>7,079</b>	<b>281</b>	<b>8,312</b>
Electric motors driven by power generated by the primary power of the industry.....	191	5,043	173	4,753
<b>Total electric motors.....</b>	<b>352</b>	<b>9,123</b>	<b>356</b>	<b>9,234</b>
Boilers installed.....	27	6,137	27	6,137

**Materials Used.**—Both imported and domestic coal are used in the coke-making industry in Canada. In 1925, the cost of foreign coal used for making metallurgical coke was \$4,723,140; Canadian coal used cost \$2,070,313. During the year, 930,738 tons of foreign coal and 598,280 tons of Canadian coal were converted into 1,079,526 tons of coke giving thus an average yield of 1,412 pounds of coke for every ton of coal charged to the ovens. Sulphuric acid was used to convert the ammonia recovered to ammonium sulphate which finds an extensive market as a fertilizer.

**Table 83.—Materials Used in the Coke and Its By-Products Industry in Canada, 1924 and 1925**

Material	Unit of measure	1924		1925	
		Quantity	Cost of works	Quantity	Cost of works
			\$		\$
<b>BITUMINOUS COAL, FOR COKE MAKING:</b>					
Canadian.....	Short ton	584,304	2,110,064	598,280	2,070,313
Foreign.....	Short ton	826,613	4,415,142	930,738	4,723,140
Total coal.....	Short ton	1,410,917	6,525,206	1,529,018	6,793,453
<b>OTHER MATERIALS:</b>					
Sulphur.....	Ton	7,390	74,340		
Sulphuric acid, 66° Bé.....	Ton	9,860	149,885	12,623	175,753
All other materials.....			39,897		57,555
Total other materials.....			264,122		233,308
Total purchased materials.....			6,789,328		7,026,761
Intermediate products used as materials.....			90,188		85,550
<b>Total value of materials used.....</b>			<b>6,879,516</b>		<b>7,112,311</b>

**Products.**—The amount of coke manufactured in this industry in 1925 was 1,079,526 tons valued at \$7,442,103; this was 13 per cent in quantity and 5 per cent in value above the production of 1924. The increase is accounted for by greater demand in the metallurgical industries. In 1925, Ontario's ovens produced 640,161 tons of coke or 59 per cent of the total production in this industry.

Disposition of coke by the producing plants showed that 15,527 tons were used in the coking plants for heating and power development; 764,120 tons were used in the associated metallurgical works; and 299,879 tons were sold during the year.

The percentage of yield of coke obtained from any coal is dependent primarily upon the quantity of volatile matter present in the coal. Practically all the volatile matter is eliminated during coking, the fixed carbon and ash with only a low percentage of volatile matter being left to form the coke. The yield of coke from any particular coal is lower in the beehive than in the by-product oven because in the former a small part of the coke is burned in order to produce the heat required for the coking operations. In 1925—1,529,018 tons of bituminous coal were treated to produce 1,079,526 tons of coke, an average yield of 70 per cent.

Most of the gas from the by-product ovens was used either to heat the ovens or in the associated steel plants; some gas was sold for domestic and industrial uses.

The ammonia liquor recovered in the plant was nearly all made into ammonium sulphate and marketed as such. Tar and tar products and light oils were also recovered.

Table 84.—Products of the Coke and Its By-Products Industry in Canada, 1924 and 1925

	Unit of measure	1924		1925	
		Quantity	Selling value	Quantity	Selling value
<b>MADE FOR USE IN COKE PLANT:</b>					
Coke	Short ton	9,573	63,329	4,714	28,284
Coke breeze	Short ton	3,550	3,550	10,813	23,348
Gas used in heating ovens or retorts	M cu. ft.	5,125,920	879,682	5,008,236	862,927
Gas otherwise used in plant	Mcu. ft.	787,179	62,974		
Tar and tar products	Imp. gal.	47,481	1,758		
Light oils (toluol, benzol, drip oil, holder oil, motor fuel and road oil, etc.)	Imp. gal.	1,184,004	90,188	1,142,826	85,550
All other products					882
<b>Total</b>			<b>1,101,481</b>		<b>1,000,901</b>
<b>MADE FOR USE IN METALLURGICAL WORKS:</b>					
Coke	Short ton	724,322	5,555,406	726,837	4,749,733
Coke breeze	Short ton	57,123	107,894	37,283	128,606
Gas otherwise used in plant	M cu. ft.	1,588,613	515,619	5,991,969	674,744
Tar and tar products	Imp. gal.	2,956,064	134,812	3,314,142	234,801
All other products			8,338		2,209
<b>Total</b>			<b>6,322,063</b>		<b>5,798,083</b>
<b>MADE FOR SALE:</b>					
Coke	Short ton	185,097	1,505,834	294,870	2,478,423
Coke breeze	Short ton	5,640	32,700	5,009	33,699
Gas sold	M cu. ft.	935,602	421,021	1,124,237	492,458
Tar and tar products	Imp. gal.	7,825,068	190,462	7,769,134	240,644
Ammonium sulphate	lb.	30,037,134	742,925	31,808,275	807,814
Light oils (benzol, toluol, drip oil, holder oil, etc.)	Imp. gal.		116,445	898,994	173,227
All other products			5,525		2,939
<b>Total</b>			<b>3,014,912</b>		<b>4,225,214</b>
<b>Total value of products for use and for sale</b>			<b>10,438,462</b>		<b>11,020,298</b>

Table 85.—Production of Metallurgical and Gas-House Coke in Canada, 1919-1925

Year	Metallurgical coke		Gas-house coke		Total	
	Quantity	Selling value	Quantity	Selling value	Quantity	Selling value
	Short tons	\$	Short tons	\$	Short tons	\$
1919	1,276,443	9,821,998	398,589	2,251,744	<b>1,675,032</b>	<b>12,073,742</b>
1920	1,270,322	11,524,091	431,352	3,835,305	<b>1,701,674</b>	<b>15,359,396</b>
1921	974,526	11,049,369	452,152	3,061,814	<b>1,426,678</b>	<b>14,111,183</b>
1922	700,098	5,560,183	532,548	3,492,700	<b>1,232,646</b>	<b>9,052,883</b>
1923	1,169,989	10,230,524	498,313	3,695,960	<b>1,668,302</b>	<b>13,927,484</b>
1924	985,305	7,268,713	451,607	3,164,234	<b>1,436,912</b>	<b>10,432,947</b>
1925	1,079,526	7,442,103	467,213	3,040,738	<b>1,546,739</b>	<b>10,482,841</b>

**Imports and Exports.**—Imports of coke during the year totalled 852,427 tons of which 739,104 tons were brought in through Ontario ports of entry; 52,329 tons through the eastern provinces and 60,994 tons into the western provinces. Imports were greatest in December when 131,276 tons were brought into Canada. This was due in some measure to the difficulty in obtaining anthracite coal because of the strike in the United States. Imports totalled 71,186 tons in January, 67,034 tons in March, 45,954 tons in May, 70,000 tons in August, 94,213 tons in October and 131,276 tons in December.

Exports of coke exclusive of petroleum coke during the twelve months ended December totalled 25,578 tons, of which 23,929 tons were exported from the western provinces, 24 tons from Ontario and 1,625 tons from the eastern provinces. Exports totalled 4,038 tons in January, 5,453 tons in March, 1,683 tons in July, 4,149 tons in October and 4,401 tons in December.

By adding the imports of coke to the production in Canada and deducting the exports the apparent consumption of coke in Canada during 1925, totalled 2,373,588 tons. Ontario's consumption for the year totalled 1,569,919 tons; the eastern provinces used 555,660 tons, and the western provinces, 248,009 tons.

**Domestic Consumption of Coke in Canada.**—Production of coke (including breeze) from gas plants and by-product coke plants in Canada during 1925 totalled 1,546,739 tons and as imports in the same year amounted to 852,427 tons there was thus an available supply of 2,399,166 tons. Exports, however, amounted to 25,578 tons, leaving 2,373,588 tons as the amount which was apparently consumed in Canada during the year.

An analysis of returns to the Bureau shows that during the year, 996,662 tons of coke were used as blast furnace and cupola charges, 194,403 tons were used as raw materials in manufacturing, and 345,803 tons were used as industrial fuel. Thus, a total of 1,536,868 tons of coke can be accounted for and it is assumed that the balance, or 836,720 tons, were used as domestic fuel during the year. By districts, the consumption of coke for domestic use was as follows: Maritime, 10,859 tons; Quebec, 90,207 tons; Ontario, 644,113 tons, and the western provinces, 91,541 tons. Taking an average of 8 tons as the requirements per home per year, if coke were used entirely as fuel, it follows that about 100,000 homes in Canada were using coke for domestic heating purposes in 1925.

Blast furnace charges of coke during 1925 totalled 996,662 tons of which 636,390 tons were charged to iron blast furnaces, 5,394 to steel furnaces, 97,352 tons to foundry cupolas and 257,506 tons to non-ferrous metal blast furnaces. By districts the consumption for this purpose was as follows: Maritimes, 256,210 tons; Quebec, 26,985 tons; Ontario, 602,265 tons; and the western provinces, 111,202 tons.

Consumption of coke as a raw material in manufacturing in 1925 amounted to 194,347 tons of which 89,886 tons were used in the manufacture of calcium carbide and carbon dioxide, 80,600 tons in the manufacture of water gas and 23,861 were used in making graphite electrodes and foundry facings. Plants in Ontario used 132,558 tons for these purposes; in Quebec, 51,338; in the Maritime, 202 tons and in the western provinces, 10,249 tons.

Coke was also used in considerable quantity as an industrial fuel; in 1925 about 345,859 tons were used for fuel purposes in industrial plants. The iron and steel industries used 57,801 tons; chemical industries, 14,436 tons; non-ferrous metal products 8,352 tons; non-metallic mineral products, 192,055; metal mining, 1,623; non-metallic mining 4,940 tons; structural materials and clay products, 8,438 tons; paper-using industries, 829 tons; wood using industries, 1,118; vegetable products, 36,641 tons; textile products, 6,282 tons; animal product industries, 10,036 tons; and other industries, 3,308 tons. Industrial plants in the Maritime used 42,988 tons of coke for fuel purposes; in Quebec, 76,871 tons; in Ontario, 190,927 tons; and the western provinces, 35,017 tons.

Table 86.—Apparent Consumption of Coke in Canada, by Provinces, 1925

	Maritime Provinces	Quebec	Ontario	Western Provinces	Canada
Production..... Tons	307,253	197,703	830,839	210,944	1,546,739
Imports..... Tons	3,835	48,494	739,104	60,994	852,427
Exports*..... Tons	6,653	5,395	200	202,572	214,820
Apparent consumption..... Tons	310,235	245,401	1,569,919	248,669	2,373,588
	1,667,781	1,087,360	5,967,333	1,760,361	10,482,841
	32,280	376,942	4,571,928	572,344	5,553,494
	311,088	246,197	1,569,943	271,838	2,399,166
	1,700,061	1,464,308	10,539,261	2,332,705	16,036,335
	829	796	24	23,029	25,578
	6,653	5,395	200	202,572	214,820
	310,235	245,401	1,569,919	248,669	2,373,588
	1,693,468	1,458,913	10,539,061	2,130,133	15,821,515

\* Exclusive of petroleum coke.

Table 87—Consumption of Coke in Canada, by Principal Uses, and by Provinces, 1925.

Use		Maritime Provinces	Quebec	Ontario	Western Provinces	Canada
Furnace charges.....	Tons	256,210	26,985	602,265	111,202	996,662
	\$	1,386,701	368,727	4,670,653	1,253,460	7,679,541
Manufacturing material.....	Tons	202	51,338	132,614	10,249	194,403
	\$	4,323	471,089	1,114,821	98,480	1,688,713
Industrial fuel.....	Tons	42,988	76,871	190,927	35,017	345,803
	\$	245,333	512,230	1,400,123	271,034	2,428,720
Domestic fuel.....	Tons	10,850	90,207	644,113	91,541	836,720
	\$	57,051	106,867	3,353,464	507,159	4,024,541
<b>Total.....</b>	<b>Tons</b>	<b>310,259</b>	<b>245,401</b>	<b>1,569,919</b>	<b>248,009</b>	<b>2,373,588</b>
	<b>\$</b>	<b>1,693,408</b>	<b>1,458,913</b>	<b>10,539,061</b>	<b>2,130,133</b>	<b>15,821,515</b>

Table 88—Consumption of Coke in Canada as Furnace Charges, by Industries and by Provinces, 1925

Industry		Maritime Provinces	Quebec	Ontario	Western Provinces	Canada
Pig iron and ferro-alloys.....	Tons	249,972		386,418		636,390
	\$	1,302,848		2,508,819		3,811,667
Steel and rolled products.....	Tons	3,898	381	534	581	5,394
	\$	46,776	5,042	6,745	10,100	68,672
Castings and forgings.....	Tons	1,341	12,347	35,840	2,563	52,091
	\$	21,557	155,116	368,684	42,567	587,924
Boilers, tanks and engines.....	Tons			420	10	430
	\$			1,370	62	1,432
Agricultural implements.....	Tons		120	9,497		9,626
	\$		1,669	94,014		95,683
Machinery.....	Tons		5,202	4,448	322	9,972
	\$		82,236	46,953	5,113	114,302
Railway rolling stock.....	Tons	999	8,926	10,031	5,297	25,253
	\$	15,520	144,064	98,581	76,855	335,620
Metallurgical works.....	Tons			155,077	102,429	257,506
	\$			1,545,487	1,119,754	2,664,241
<b>Total.....</b>	<b>Tons</b>	<b>256,210</b>	<b>26,985</b>	<b>602,265</b>	<b>111,202</b>	<b>996,662</b>
	<b>\$</b>	<b>1,386,701</b>	<b>368,727</b>	<b>4,670,653</b>	<b>1,253,460</b>	<b>7,679,541</b>

Table 89—Consumption of Coke in Canada as a Manufacturing Material, by Industries and by Provinces, 1925

Industry		Maritime Provinces	Quebec	Ontario	Western Provinces	Canada
Acids, alkalies, salts and compressed gases.....	Tons	202	24,749	64,634	301	89,886
	\$	4,323	186,638	563,698	4,732	759,391
Illuminating and fuel gas.....	Tons		17,390	53,262	9,948	80,600
	\$		115,244	335,661	93,748	544,653
Miscellaneous non-metallic mineral products.....	Tons		9,199	14,662		23,861
	\$		169,207	214,790		383,997
<b>Total.....</b>	<b>Tons</b>	<b>202</b>	<b>51,338</b>	<b>132,558</b>	<b>10,249</b>	<b>194,347</b>
	<b>\$</b>	<b>4,323</b>	<b>471,089</b>	<b>1,114,149</b>	<b>98,480</b>	<b>1,688,041</b>

Table 90.—Consumption of Coke in Canada as Industrial Fuel, by Industries and by Provinces, 1925

Industry	Maritime Provinces	Quebec	Ontario	Western Provinces	Canada
Chemicals and allied products.....	Tons 68	5,453	8,659	256	14,436
	\$ 758	42,190	61,829	2,966	107,743
Iron and steel and their products.....	Tons 1,262	11,502	43,372	1,665	57,801
	\$ 18,240	50,548	366,695	25,766	461,249
Manufactures of the non-ferrous metals.....	Tons 48	2,745	4,061	598	8,352
	\$ 547	34,033	31,652	8,334	74,566
Manufactures of the non-metallic minerals.....	Tons 40,145	41,202	84,759	25,949	192,055
	\$ 208,996	230,336	508,468	153,637	1,101,437
Metal mining.....	Tons	180	1,305	138	1,623
	\$	1,809	15,271	1,685	18,765
Non-metallic mining.....	Tons	4,267	610	63	4,910
	\$	41,897	5,785	381	48,063
Clay products and structural materials.....	Tons 10	608	7,540	280	8,438
	\$ 75	6,333	63,521	2,329	72,238
Paper-using industries.....	Tons 20	77	477	255	829
	\$ 221	1,152	5,968	2,564	9,905
Wood-using industries.....	Tons 2	379	704	33	1,118
	\$ 25	4,666	7,208	402	12,301
*Vegetable products.....	Tons 1,312	7,602	22,372	5,355	36,641
	\$ 14,634	76,819	249,853	67,629	408,936
*Textiles and textile products.....	Tons	940	5,177	165	6,282
	\$	11,703	30,903	1,458	41,064
*Animal products industries.....	Tons 71	1,448	8,487	30	10,036
	\$ 756	4,953	30,583	402	42,694
*Miscellaneous industries.....	Tons 50	468	2,560	230	3,308
	\$ 1,081	5,791	17,059	3,490	27,421
<b>Total.....</b>	<b>Tons</b>	<b>43,988</b>	<b>76,871</b>	<b>190,993</b>	<b>345,859</b>
	<b>\$</b>	<b>245,333</b>	<b>512,230</b>	<b>1,400,795</b>	<b>2,429,392</b>

\* Data for 1924; later data not available at this time.

Table 91—Production in Canada, Imports and Exports of Ammonium Sulphate during the Calendar Year 1919-1925

Year	Quantity	Value
<b>PRODUCTION—</b>	Pounds	\$
1919.....	38,644,152	1,423,545
1920.....	38,912,723	1,475,542
1921.....	34,680,248	1,183,776
1922.....	27,201,332	967,934
1923.....	43,037,062	1,268,146
1924.....	34,085,134	865,538
1925.....	36,502,275	909,007
<b>IMPORTS—</b>		
1919.....	203,408	12,129
1920.....	624,659	31,495
1921.....	313,354	11,513
1922.....	826,000	24,659
1923.....	517,629	18,577
1924.....	779,643	27,111
1925.....	795,792	27,514
<b>EXPORTS—</b>		
1919.....	38,331,200	1,846,713
1920.....	30,659,500	1,890,060
1921.....	29,296,100	784,028
1922.....	20,570,000	532,983
1923.....	34,640,000	1,044,681
1924.....	20,714,100	681,709
1925.....	25,120,700	837,310

Table 92.—Imports into Canada and Exports of Coal Products, 1924 and 1925

Item	1924		1925	
	Quantity	Value	Quantity	Value
<b>IMPORTS—</b>		\$		\$
Coal tar crude in packages of not less than 16 gallons and coal pitch.....	Gal. 2,880,499	186,178	3,630,880	258,944
Carbolic or heavy oil.....	Gal. 3,734,722	681,063	4,857,720	723,775
Coke.....	Tons 521,725	3,131,486	852,427	5,533,494
Coke ground when imported by manufacturers of electric batteries for use in their own factories in the manufacture of such batteries.....	12,638	39,392	15,393	52,815
<b>Total.....</b>		<b>4,058,118</b>		<b>6,589,028</b>
<b>EXPORTS—</b>				
Coke.....	Tons 23,144	393,079	44,992	675,595
Coal tar and pitch.....	Gal. 2,339,041	273,900	2,658,851	188,007
<b>Total.....</b>		<b>667,079</b>		<b>863,602</b>

## CHAPTER SEVEN

### GLASS

**General.**—The present review on the glass industry in Canada covers the operations of all plants engaged in (a) the manufacture of pressed and blown glass, and (b) the bevelling, cutting and bending of imported glass—there being no plate glass manufactured in Canada—to produce leaded glass, ornamental glass, memorial windows, mirror plate, show cases, etc.

In the pressed and blown glass industry there were 10 plants in operation during 1925 including 6 in Ontario, 3 in Quebec and 1 in Alberta.

A large plant in Ontario did not operate in 1925, but another plant in that province renewed operations during the year. Production from this industry in 1925 amounted in value to \$7,444,246 as compared with a figure of \$8,799,420 in the previous year. The industry is dominated by one large company which operates 7 different plants located at various points across the Dominion.

Plants in Canada engaged in the cutting, bevelling and working of glass in 1925 to produce such commodities as cut glass, memorial windows, leaded glass, mirrors, art glass, show cases, windshields, etc., numbered 42 distributed as follows: 7 in Quebec, 26 in Ontario, 4 in British Columbia, 3 in Manitoba and 1 each in New Brunswick and Alberta. In 1924, only 38 plants reported to the Bureau; returns were received from 5 new plants in Ontario and 1 in each of Alberta and British Columbia but 1 plant in each of the provinces of Quebec, Ontario and British Columbia did not operate during the year. Of the plants in this industry only 2 had individual outputs valued at more than a quarter million dollars; 6 other plants each produced more than 100,000 dollars' worth of glass products; 9 others

each exceeded the \$50,000 mark; 6 more each had outputs over \$25,000 in value; 13 others each had outputs valued at more than \$10,000, while only 6 were below the latter figure. Only 3 factories, employed more than 50 workers in each; 4 other establishments each had 25 or more names on their pay-rolls; 13 others each gave work to more than 10 people the year round, while 22 different plants employed fewer than 10 workers in each. Production from plants in this industry amounted in value to \$2,673,358 in 1925 as compared with a figure of \$1,977,396 in 1924.

Production from the glass industry as a whole amounted in value to \$10,117,604, a decline of more than half a million dollars from the total for 1924. Capital employed dropped to \$12,694,338 from \$13,304,814 in 1924; the number of employees was 2,778 as against 3,137 in the previous year and salaries and wages totalled \$3,291,912 as compared with \$3,666,213 in 1924. Raw materials used in 1925 cost \$4,029,035 and, as the products made during the year sold for \$10,117,604, the value added by manufacturing was \$6,088,569.

GLASS INDUSTRY

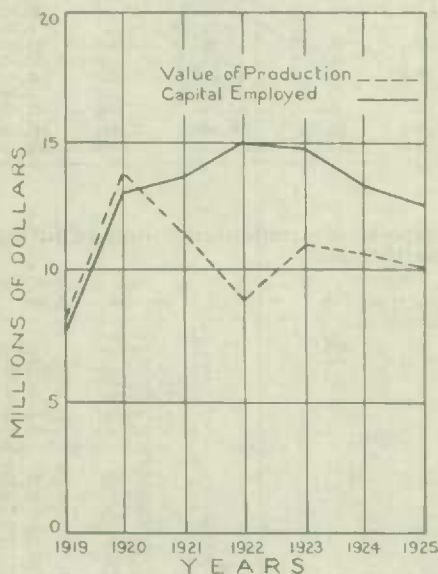




Table 93.—Summary Statistics of the Glass Industry in Canada, 1921-1925

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel*	Cost of materials	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	
1921.....	48	13,725,482	3,097	548,012	3,073,756	1,485,165	3,974,358	11,461,932	7,487,574
1922.....	45	15,053,327	2,984	569,961	2,789,893	1,064,974	3,287,091	8,842,588	5,555,497
1923.....	46	14,892,372	3,350	559,403	3,219,399	1,365,903	3,714,515	11,098,026	7,383,511
1924.....	48	13,304,814	3,137	511,660	3,154,553	1,255,190	3,667,660	10,776,816	7,109,156
1925.....	52	12,094,338	2,778	530,774	2,761,138	1,101,808	4,029,035	10,117,604	6,088,569

\* Includes cost of electricity in 1924 and 1925.

Table 94.—Principal Statistics of the Glass Industry in Canada by Provinces 1924 and 1925

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling value of products
			\$	\$			\$	\$
Quebec.....	11	1,197	1,328,746	3,817,455	10	1,360	1,466,105	4,189,038
Ontario.....	28	1,753	2,093,548	5,895,499	32	1,278	1,659,890	5,352,344
Manitoba.....	3	25	20,754	88,781	3	25	32,532	97,316
British Columbia.....	4	13	11,881	25,966	4	11	10,013	16,843
<b>Canada*</b> .....	<b>48</b>	<b>3,137</b>	<b>3,666,213</b>	<b>10,776,816</b>	<b>52</b>	<b>2,778</b>	<b>3,291,912</b>	<b>10,117,604</b>

\* Totals for 1924 also include data for 1 plant in New Brunswick and 1 in Alberta; totals for 1925 include data for 1 plant in New Brunswick and 2 in Alberta.

**Capital Employed.**—Although there were 52 plants reporting in 1925 as compared with 48 in the previous year, capital employed in the glass industry as a whole in 1925 was less by about a half million dollars and amounted to \$12,094,338. This decline was almost entirely accounted for by a decrease in the value of lands, buildings and plant equipment which fell to \$7,773,399 from \$8,414,045 in 1924, due to the closing of one large glass factory in Ontario. The glass industry is centered in the provinces of Ontario and Quebec which together accounted for about 92 per cent of the total capital invested in the industry; each of these provinces reported a total investment of over 5.8 million dollars.

Table 95.—Capital Employed in the Glass Industry in Canada, by Classes and by Provinces, 1924 and 1925

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Quebec.....	3,622,018	1,204,162	617,627	5,443,807	3,784,212	1,520,943	539,030	5,844,185
Ontario.....	4,181,174	1,541,107	1,107,353	6,829,634	3,378,014	1,354,646	1,111,564	5,844,224
Manitoba.....	59,365	34,070	12,606	106,041	58,700	37,403	11,451	106,554
British Columbia.....	11,137	23,152	10,257	44,546	10,000	3,218	2,300	15,518
<b>Canada*</b> .....	<b>8,414,045</b>	<b>2,991,799</b>	<b>1,808,970</b>	<b>13,204,814</b>	<b>7,773,399</b>	<b>3,633,256</b>	<b>1,887,682</b>	<b>12,694,338</b>

\* Totals for 1924 also include data for 1 plant in New Brunswick and 1 in Alberta. Totals for 1925 include data for 1 plant in New Brunswick and 2 in Alberta.

**Employment.**—Plants in Canada engaged in the manufacture and working of glass in 1925 afforded employment to 277 salaried workers and an average of 2,501 wage-earners, a total of 2,778 persons as compared with a total of 3,137 in 1924; this was a decline of 11 per cent in number. Payments for salaries and wages showed a corresponding decline, the total expenditure for this purpose amounting to \$3,291,912 in 1925 as against \$3,666,213 in 1924. Each wage-earner received an average yearly wage of \$1,105. Operating plants in this industry worked on the average 300 days during the year.

**Table 96.—Average Number of Employees, Salaries and Wages Paid, in the Glass Industry in Canada, by Provinces, 1924 and 1925**

Province	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
						\$	\$	\$
<b>1924</b>								
Quebec.....	61	12	1,031	93	1,197	133,506	1,195,240	1,328,746
Ontario.....	115	34	1,465	139	1,753	337,068	1,756,480	2,093,548
Manitoba.....	7	3	15	.....	25	12,581	17,173	29,754
British Columbia.....	5	.....	7	1	13	3,665	8,276	11,881
<b>*Canada.....</b>	<b>194</b>	<b>50</b>	<b>2,650</b>	<b>243</b>	<b>3,137</b>	<b>511,660</b>	<b>3,154,553</b>	<b>3,666,213</b>
<b>1925</b>								
Quebec.....	85	25	1,109	141	1,360	178,768	1,287,337	1,466,105
Ontario.....	114	29	1,074	61	1,278	307,333	1,352,557	1,659,890
Manitoba.....	7	1	17	.....	25	11,510	21,022	32,532
British Columbia.....	4	1	5	1	11	3,780	6,233	10,013
<b>*Canada.....</b>	<b>218</b>	<b>59</b>	<b>2,291</b>	<b>210</b>	<b>2,778</b>	<b>530,774</b>	<b>2,761,138</b>	<b>3,291,912</b>

\* Includes also data for 1 plant in Alberta and 1 in New Brunswick for 1924, and for 2 in Alberta and 1 in New Brunswick for 1925.

**Table 97.—Number of Wage-Earners Employed in the Glass Industry in Canada, by Months, 1924 and 1925**

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	2,900	198	2,998	2,241	173	2,416
February.....	2,826	225	3,051	2,202	107	2,399
March.....	2,687	238	2,925	2,188	200	2,388
April.....	2,736	251	2,987	2,191	202	2,393
May.....	2,739	305	3,044	2,227	211	2,438
June.....	2,665	259	2,924	2,439	221	2,660
July.....	2,504	239	2,743	2,179	175	2,354
August.....	2,241	192	2,433	2,185	191	2,376
September.....	2,383	231	2,614	2,639	165	2,294
October.....	2,770	256	3,026	2,422	227	2,649
November.....	2,815	250	3,065	2,618	240	2,858
December.....	2,635	231	2,866	2,655	211	2,866
<b>Average.....</b>	<b>2,850</b>	<b>243</b>	<b>2,893</b>	<b>2,291</b>	<b>210</b>	<b>2,591</b>

**Table 98.—Hours of Labour (in Month of Greatest Employment) in the Glass Industry in Canada, by Provinces, 1925**

Province	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
	New Brunswick.....		3				54	
Quebec.....	807	118	599	81	48	54	60	80
Ontario.....	421	405	389	441	45	50	60	72
Manitoba.....	11	2			44	50		
Alberta.....	148		50		45		60	
British Columbia.....	11				45			

Table 99—Fuel and Electricity Used in the Glass Industry in Canada, 1924 and 1925

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
Anthracite coal.....	Short ton	689	7,922	1,776	12,046
Bituminous coal.....	Short ton	72,297	520,540	41,513	276,213
Coke.....	Short ton	272	2,639	198	2,353
Gas-oline.....	Gallon	29,032	8,347	66,386	8,385
Fuel oil.....	Gallon	3,610,708	735,671	5,179,268	508,523
Gas.....	M cu. ft.	280,114	190,973	188,306	165,810
Wood.....	Cord	12	156	11	142
Other fuel.....					604
Electric power.....	k.w.h.	14,915,018	183,936	14,873,797	127,732
<b>Total</b> .....			<b>1,255,196</b>		<b>1,101,868</b>

Table 100.—Power Employed in the Glass Industry in Canada, 1924 and 1925

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Gas engines.....	3	427	2	300
Hydraulic turbines and water wheels.....			1	3
<b>Total primary power</b> .....	<b>3</b>	<b>427</b>	<b>3</b>	<b>303</b>
Electric motors driven by purchased power.....	391	6,243	335	4,155
<b>Total power equipment employed</b> .....	<b>394</b>	<b>6,670</b>	<b>338</b>	<b>4,458</b>
Electric motors driven by power generated by the primary power of the industry.....	48	523	133	2,512
<b>Total electric power</b> .....	<b>439</b>	<b>6,766</b>	<b>468</b>	<b>6,667</b>
Boilers installed.....	25	2,043	14	824

**Materials Used.**—Materials used in the manufacture of pressed and blown glass include silica sand, soda ash, nitrate of soda, burnt lime, litharge, white arsenic and various other materials. A large amount of sand is imported for this purpose; in 1925 the imports of sand silica for glass and corborundum manufacture, etc., amounted to 143,501 tons valued at \$353,237; the chief sources of supply are the United States and Belgium, sand from the latter country being brought in as ballast by returning vessels. No details of materials used in this industry were asked for on the schedule for 1924 and 1925 so only the total cost is shown in the accompanying table.

In the plate, cut and ornamental glass industry the materials used include glass blanks, plate glass, sheet and window glass, figured, coloured and cathedral glass, and such materials as lead, solder, zinc, copper, silver, silver nitrate and corborundum. The cost of all such materials used in 1925 was \$1,447,917 as compared with a total cost of \$957,438 in 1924.

Table 101.—Materials Used in the Glass Industry in Canada, 1924 and 1925

Material	1924	1925
	Cost at works	Cost at works
	\$	\$
<b>PLATE, CUT AND ORNAMENTAL GLASS INDUSTRY—</b>		
Carborundum, emery and other abrasives.....	2,168	7,968
Glass blanks.....	161,688	187,628
Glass, figured, coloured and cathedral.....	36,340	71,067
Glass, sheet and window.....	274,455	262,424
Glass, plate.....	368,882	814,436
Lead, solder, putty, zinc and copper.....	20,977	26,978
Silks, fringes, etc.....	7,023	6,274
Silver.....	2,877	3,163
Silver nitrate.....	5,878	10,222
Stands and frames.....	4,581	2,116
Containers, boxes, etc.....	4,453	10,389
All other materials.....	68,116	45,262
<b>Total.....</b>	<b>957,438</b>	<b>1,447,017</b>
<b>PRESSED AND BLOWN GLASS INDUSTRY—</b>		
Manufacturing materials used.....	2,150,417	2,026,735
Boxes, cases, lumber, etc.....	559,805	554,383
<b>Total.....</b>	<b>2,710,222</b>	<b>2,581,118</b>
<b>Total.....</b>	<b>3,667,660</b>	<b>4,029,035</b>

**Products.**—Glass produced in Canada in its various forms was valued at \$10,117,604 in 1925 as compared with \$10,776,816 in the previous year. The value of pressed and blown glass at \$7,373,733 was over a million dollars below the value shown for 1924; cut glass and leaded glass showed little change; the output of mirrors and bevelled plates was up 18 per cent in value to \$868,155, and show cases and windshield glass at \$648,025 was nearly double the value shown for 1924.

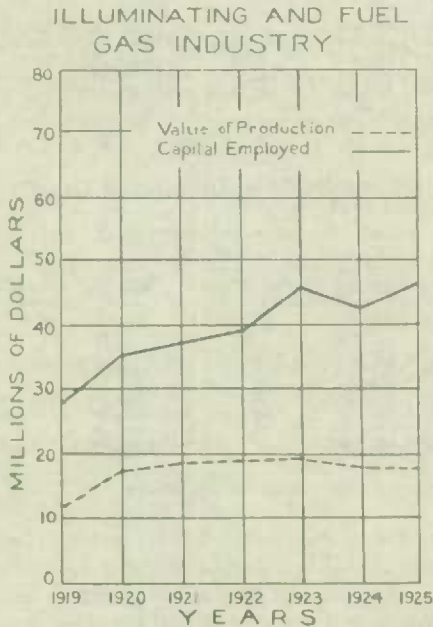
Table 102—Products of the Glass Industry in Canada, 1924 and 1925

Product	Unit of measure	1924		1925	
		Quantity	Selling value	Quantity	Selling value
			\$		\$
<b>PLATE, CUT AND ORNAMENTAL GLASS INDUSTRY—</b>					
Heat glass.....	sq. ft.	5,002	3,419	247,050	192,280
Cut glass.....			500,563		508,475
Cut plates.....	sq. ft.	29,750	32,947		
Church and memorial windows.....			85,361		96,249
Leaded glass and leaded lights.....			189,578		179,086
Mirrors and bevelled plates.....	sq. ft.		699,805	736,377	868,155
Ornamental and art glass.....			34,809		71,568
Window, showcase and windshield glass.....	sq. ft.	502,502	355,678		638,025
Amount received for custom work or repairs.....			11,074		11,280
All other products.....			83,262		99,640
<b>Total.....</b>			<b>1,977,396</b>		<b>2,673,358</b>
<b>PRESSED AND BLOWN GLASS INDUSTRY—</b>					
Building glass.....			321,561		
Pressed and blown glass.....			8,467,875		7,373,733
All other products.....			0,984		70,513
<b>Total.....</b>			<b>8,790,420</b>		<b>7,444,240</b>
<b>Total.....</b>			<b>10,776,816</b>		<b>10,117,604</b>

## CHAPTER EIGHT

### ILLUMINATING AND FUEL GAS

**General.**—Production of artificial gas in Canada in 1925 totalled 26,651,684 M cubic feet of which 13,507,487 M cubic feet was produced in the various gas plants, 12,124,442 M cubic feet in establishments engaged primarily in the production of metallurgical coke and 1,019,755 M cubic feet of still gas was recovered from petroleum refineries. Sales of artificial gas during the year totalled 13,189,100 M cubic feet; the remainder of the output was used in the reporting plants.



Statistics given in the present chapter (excepting table 113) refer only to the illuminating and fuel gas industry which embraces those plants producing coal gas, water gas, Pintsch oil gas and acetylene gas as the major products. Gas was also recovered as a by-product in the manufacture of coke and the refining of petroleum, but these industries are reviewed in separate chapters of this report. The 44 gas plants in operation in Canada in 1925 represented a capital investment of 46 million dollars, gave employment to 3,804 persons throughout the year and paid out over 5 million dollars in salaries and wages. Sales of gas in this industry totalled 12,064,863 M cubic feet worth \$14,047,306, and the value of by-products was \$3,827,173, as compared with sales worth \$14,268,315 and by-products valued at \$3,833,409 in 1924.

Of the producing plants, 12 made straight coal gas only; 10 produced carburetted water gas only; 9 others made Pintsch oil gas and 6 others made acetylene gas from calcium carbide. The plants were distributed as follows: 1 in Nova Scotia; 2 in New Brunswick; 4 in Quebec; 21 in Ontario; 8 in Manitoba; 2 in Saskatchewan; 1 in Alberta; and 5 in British Columbia.

Coal gas is prepared by the destructive distillation of bituminous coal, and water gas is made by the action of steam on incandescent coke or anthracite coal. Straight water gas, being non-luminous, is mixed or rather carburetted with gases derived from oils which are rich in hydrocarbons. This enhances both the heating values and lighting properties of the gas. Many straight coal gas plants are also equipped to make carburetted water gas, in which process the by-product coke from the coal gas process can be utilized.

In 1925, gas rates in the different towns and cities were as follows: Montreal, \$1.10 per M; Halifax, \$2 per M less 5 per cent; St. John, \$2.25 per M plus meter rental; Brandon, \$2.10 per M; Winnipeg, \$1.30 gross per M; Westminister, \$2.75 per M less 10 per cent; Nelson, B.C., \$2.25 per M less 10 per cent; Vancouver, \$1.50 less 10 cents per M; Belleville, \$1.30 per M; Guelph \$1.20 per M less 15 cents per M; London, \$1.10 net per M; Toronto, \$0.85 per M plus 50 cents service charge; Peterborough, \$2.15 per M with 25 cents discount per M; Cobourg, \$2.50 per M; Owen Sound, \$1.50 per M less 10 per cent; Port Hope, \$2.50 per M with \$6 per year service charge; Ottawa, \$1.60 per M less 10 cents per M with 18 cents per month service charge; Kitchener, \$1.40 per M with 10 cents per month meter rent; Stratford, \$2 per M plus 25 cents meter rent; Cornwall, \$2.20 per M less 20 cents per M; Waterloo,

\$2 per M; Oshawa, \$1.90 net per M; St. Thomas, \$1.70 per M less 10 cents per M for prompt payment; Kingston, \$1.70 per M plus 17 cents per month meter rent with 10 per cent discount for prompt payment; Brockville, \$1.80 per M; Barrie, \$2 per M plus 75 cents service charge; Quebec, \$2 per M less 25 per cent; and Sherbrooke, P.Q., \$1.75 per M less 15 per cent. Acetylene gas was worth about \$2 per C cubic feet, and Pintsch gas cost \$1.50 per receiver of 167 cubic feet.

**Table 103.—Summary Statistics of the Illuminating and Fuel Gas Industry in Canada, 1921-1925**

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel and electricity	Cost of materials*	Value of products sold	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	\$
1921.....	50	37,097,280	2,818	904,942	3,080,034		9,279,697	18,772,285	9,402,588
1922.....	48	39,615,765	3,107	943,434	3,031,271		8,580,208	19,089,170	10,508,962
1923.....	45	45,526,495	3,021	1,094,241	2,707,591		9,021,084	19,605,340	10,581,256
1924.....	44	42,818,276	3,648	1,221,512	3,603,839	2,706,182	6,772,576	18,101,724	11,329,148
1925.....	44	46,129,651	3,804	1,326,359	3,731,343	1,128,846	6,178,609	17,874,479	11,695,870

\* Includes materials used as fuel in 1921, 1922 and 1923.

**Table 104.—Principal Statistics of the Illuminating and Fuel Gas Industry in Canada, by Provinces, 1924 and 1925**

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Value of products sold	Number of plants	Number of employees	Salaries and wages	Value of products sold
			\$	\$			\$	\$
Quebec.....	4	1,043	1,359,054	6,512,962	4	1,124	1,425,271	6,441,871
Ontario.....	21	2,009	2,676,702	8,882,537	21	2,076	2,832,627	8,747,887
Manitoba.....	8	199	273,992	1,176,325	8	179	255,248	1,113,929
British Columbia.....	5	284	391,442	1,156,372	5	303	403,282	1,170,429
<b>Canada*</b> .....	<b>44</b>	<b>3,648</b>	<b>4,835,351</b>	<b>18,101,724</b>	<b>44</b>	<b>3,804</b>	<b>5,057,792</b>	<b>17,874,479</b>

\* Includes also data for 1 plant in Nova Scotia, 2 in New Brunswick, 2 in Saskatchewan and 1 in Alberta.

**Capital Employed.**—Capital employed in the illuminating and fuel gas industry in Canada during 1925 amounted to \$46,129,651 an increase of 3.3 million dollars over 1924 and over a half million dollars above the former record figure of \$45,526,495 in 1923. The value of fixed assets such as lands, plants and equipment was given at \$38,924,759 as against \$36,150,594 in 1924; materials on hand and in process were valued at \$2,258,957 and the value of cash, trading and operating accounts and bills receivable was placed at \$4,945,935. Plants in Ontario represented a capital investment of 26.1 million dollars or about 57 per cent of the total for Canada.

**Table 105.—Capital Employed in the Illuminating and Fuel Gas Industry in Canada, by Classes and by Provinces, 1924 and 1925**

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand and stock in process	Cash, trading and operating accounts and bills receivable	<b>Total</b>	Lands, buildings, fixtures, machinery and tools	Materials on hand and stock in process	Cash, trading and operating accounts and bills receivable	<b>Total</b>
	\$	\$	\$	\$	\$	\$	\$	\$
Quebec.....	4,839,859	716,246	1,421,986	<b>6,978,091</b>	5,015,796	669,878	1,313,951	<b>6,999,625</b>
Ontario.....	19,920,741	1,284,480	2,208,923	<b>23,501,144</b>	21,052,945	1,109,047	3,014,356	<b>26,076,348</b>
Manitoba.....	5,229,141	124,895	112,895	<b>5,466,931</b>	5,223,069	74,840	107,323	<b>5,405,232</b>
British Columbia.....	4,758,657	350,016	357,551	<b>5,466,224</b>	5,329,412	405,078	509,910	<b>6,244,400</b>
<b>Canada*</b> .....	<b>36,150,594</b>	<b>2,476,032</b>	<b>4,191,650</b>	<b>42,818,276</b>	<b>38,924,750</b>	<b>2,258,957</b>	<b>4,945,935</b>	<b>46,129,651</b>

\* Includes also data for 1 plant in Nova Scotia, 2 in New Brunswick, 2 in Saskatchewan and 1 in Alberta.

**Employment.**—The number of persons employed in the gas plants in Canada during 1925 was 3,804 of whom 869 were on salaries and 2,935 were wage-earners. Payments in salaries during the year amounted to \$1,326,359 and wages reached the sum of \$3,731,343, an average income of \$1,271 to each wage-earner employed. In 1924 the industry gave work to 792 salaried employees and 2,856 wage-earners and paid out \$1,231,512 in salaries and \$3,603,839 in wages during the year.

In January, 1925, there were 2,339 wage-earners employed by the various companies; by May the number had increased to 3,220 and in August reached a maximum of 3,602 after which there was a gradual decline to 2,467 in December making a monthly average of 2,935 for the year.

**Table 106—Average Number of Employees, Salaries and Wages Paid, in the Illuminating and Fuel Gas Industry in Canada, by Provinces, 1924 and 1925**

Province	Average number of employees				Salaries and wages			
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
					\$	\$	\$	
<b>1924</b>								
Quebec.....	49	153	841	.....	1,043	397,023	962,031	1,359,054
Ontario.....	275	185	1,548	.....	2,009	641,789	2,034,913	2,676,702
Manitoba.....	35	22	140	2	199	78,045	195,917	273,962
British Columbia.....	43	6	235	.....	284	87,561	303,881	391,442
<b>Canada*</b>	<b>423</b>	<b>369</b>	<b>2,853</b>	<b>3</b>	<b>3,648</b>	<b>1,231,512</b>	<b>3,603,839</b>	<b>4,835,351</b>
<b>1925</b>								
Quebec.....	168	77	879	.....	1,124	415,145	1,010,126	1,425,271
Ontario.....	301	182	1,591	2	2,076	681,910	2,150,717	2,832,627
Manitoba.....	37	23	119	.....	179	90,047	165,198	255,245
British Columbia.....	51	7	245	.....	303	101,680	301,602	403,282
<b>Canada*</b>	<b>577</b>	<b>292</b>	<b>2,926</b>	<b>7</b>	<b>3,804</b>	<b>1,326,359</b>	<b>3,731,343</b>	<b>5,057,702</b>

\*Includes also data for 1 plant in Nova Scotia, 2 in New Brunswick, 2 in Saskatchewan and 1 in Alberta.

**Table 107.—Number of Wage-Earners Employed in the Illuminating and Fuel Gas Industry in Canada, by Months, 1924 and 1925**

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	2,260	3	2,263	2,332	7	2,339
February.....	2,200	3	2,203	2,367	7	2,374
March.....	2,246	3	2,249	2,383	7	2,390
April.....	2,517	3	2,520	2,784	7	2,791
May.....	3,062	3	3,065	3,213	7	3,220
June.....	3,177	3	3,180	3,286	7	3,293
July.....	3,217	3	3,220	3,568	7	3,575
August.....	3,233	3	3,236	3,595	7	3,602
September.....	3,326	3	3,329	3,395	7	3,402
October.....	3,220	3	3,223	3,058	7	3,065
November.....	3,036	3	3,039	2,664	7	2,671
December.....	2,742	3	2,745	2,460	7	2,467
<b>Average.....</b>	<b>2,853</b>	<b>3</b>	<b>2,856</b>	<b>2,928</b>	<b>7</b>	<b>2,935</b>

**Table 108—Hours of Labour (in Month of Greatest Employment) in the Illuminating and Fuel Gas Industry in Canada, by Provinces, 1924 and 1925**

Province	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
Nova Scotia.....				60				74
New Brunswick.....	6	32	1	6	48	54	70	84
Quebec.....	426	19	699	17	48	54	60	84
Ontario.....	476	1,396	43	6	48	54	60	80
Manitoba.....	99	41			48	54		
Saskatchewan.....	4	1			48	54		
Alberta.....	5				48			
British Columbia.....	75	250		3	48	54		56

Table 109.—Fuel and Electricity Used in the Illuminating and Fuel Gas Industry in Canada, 1924 and 1925

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
Anthracite coal.....	Short ton	759	3,643	959	4,888
Bituminous coal.....	Short ton	37,183	261,436	30,264	188,163
Coke.....	Short ton	141,826	841,224	139,261	835,355
Gas.....	M cu. ft.	1,339,360	1,509,327	38,957	58,508
Other fuel.....			42,384		
Electric power.....	K.W.H.	2,945,329	48,168	13,907,432	41,932
<b>Total</b> .....			<b>2,706,182</b>		<b>1,128,846</b>

Table 110.—Power Equipment Employed in the Illuminating and Fuel Gas Industry Canada, 1924 and 1925

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines.....	54	808	53	729
Internal combustion engines.....	17	963	21	958
Water wheels and turbines.....			1	3
Total primary power.....	71	1,771	75	1,690
Electric motors driven by purchased power.....	136	2,153	127	1,587
<b>Total power equipment employed</b> .....	<b>207</b>	<b>3,924</b>	<b>202</b>	<b>3,277</b>
Electric motors driven by power generated by the primary power of the industry.....	12	196	14	201
<b>Total electric motors</b> .....	<b>148</b>	<b>2,349</b>	<b>141</b>	<b>1,788</b>
Boilers installed.....	166	8,875	170	10,231

**Materials Used.**—Bituminous coal having good gas-making qualities is the principal raw material used in this industry. In 1925, nearly 4.4 million dollars was paid for 723,394 tons of bituminous coal for this purpose, as compared with 681,480 tons worth \$4,723,734 used in 1924. Also, 15,323 tons of anthracite coal, 80,600 tons of coke, 168 tons of calcium carbide and 10.5 million gallons of gas oil were used in gas-making. The total cost of materials used in manufacturing during 1925 was \$6,178,609 and in 1924 the cost was \$6,772,576. Materials that were used as fuel for retorts or boilers are shown in the fuel consumption table.

Table 111.—Materials Used in the Illuminating and Fuel Gas Industry in Canada, 1924 and 1925

Material	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
<b>Purchased materials:</b>					
Bituminous coal for gas making (not for fuel).....	Short ton	681,480	4,723,734	723,394	4,395,445
Anthracite coal for gas making (not for fuel).....	Short ton	20,004	251,899	15,323	183,050
Coke for gas making (not for fuel).....	Short ton	27,530	130,960	10,623	106,252
Oil (gas oil) for gas making (not for fuel).....	Imp. gal.	10,429,533	1,137,683	10,498,336	970,110
Calcium carbide.....	lb.	245,195	16,454	336,000	14,977
Lime.....	lb.	921,157	4,544	779,780	3,484
Water.....			8,630		12,341
Oxide or purifying materials (state kind).....	Ton		29,374	5,942	54,056
All other materials used.....			574		493
Total purchased materials.....			6,303,852		5,740,208
<b>Intermediates used as materials:</b>					
Coke.....	Short ton	73,197	460,354	69,977	438,401
Oil (gas oil) for gas making.....	Imp. gal.	85,645	8,370		
Total intermediates.....			468,724		438,401
<b>Total</b> .....			<b>6,772,576</b>		<b>6,178,609</b>



**Products.**—The output of the gas industry includes (a) primary products made for sale, such as coal gas, water gas, etc., and (b) by-products such as coke, tar, ammonium sulphate, etc., part of which are sold and part used as fuel in the gas-producing plants.

In 1925, production from this industry included 8,315,179 M cubic feet of straight coal gas; 5,023,569 M cubic feet of carburetted water gas; 98,531 M cubic feet of mixed coal and water gas; 68,745 M cubic feet of oil gas; and 1,463 M cubic feet of acetylene gas. The total gas made available for distribution during the year was 13,507,487 M cubic feet, of which 1,442,624 M cubic feet were used in the gas plants and 12,064,863 M cubic feet were sold for industrial or domestic purposes to bring a gross revenue of \$14,047,306. In addition, the by-products recovered were worth \$3,827,173 thus bringing the total value of products to \$17,874,479 in 1925 as compared with \$18,101,724 in the previous year. Coke, tar, ammonia sulphate and anhydrous ammonia were the main by-products recovered and sold during the year.

**Table 112.—Products of the Illuminating and Fuel Gas Industry in Canada, 1924 and 1925**

Product	Unit of measure	1924		1925	
		Quantity	Value of products sold	Quantity	Value of products sold
			\$		\$
<b>GAS PRODUCTION—</b>					
Straight coal gas	M cu. ft.	7,991,915		8,315,179	
Straight water gas (blue gas)	M cu. ft.	33,733			
Carburetted water gas	M cu. ft.	5,027,531		5,023,569	
Mixed coal and water gas, not separately reported above	M cu. ft.	103,218		98,531	
Oil gas by vapourizing distillate	M cu. ft.	69,621		68,745	
Acetylene gas	M cu. ft.	1,584		1,463	
<b>Total gas made</b>	<b>M cu. ft.</b>	<b>13,227,492</b>		<b>13,597,487</b>	
<b>GAS DISTRIBUTION:</b>					
Gas used in heating ovens or retorts	M cu. ft.	10,926		38,057	
Gas otherwise used in plant or otherwise accounted for but not sold	M cu. ft.	99,884		89,211	
Gas not accounted for	M cu. ft.	1,237,481		1,314,456	
Gas sold	M cu. ft.	11,879,111	14,268,315	12,064,863	14,047,306
<b>BY-PRODUCTS:</b>					
<b>Made for use—</b>					
Coke	Short ton	181,028	931,128	179,325	965,359
Tar and tar products	Imp. gal.	467,573	42,384	180,870	12,909
Other products			31,779		178
<b>Made for sale—</b>					
Coke	Short ton	270,579	2,233,106	288,888	2,075,339
<b>Tar and tar products:</b>					
(a) from coal gas	Imp. gal.	6,774,914	324,460	6,671,989	509,807
(b) from water or oil gas	Imp. gal.	930,422	42,158	927,973	57,680
Ammonia liquor	lbs. NH <sup>3</sup>	1,547,463	100,701	1,542,827	102,514
Light oils	Imp. gal.	8,465	2,115	9,307	1,861
All other by-products			125,577		101,526
<b>Total by-products</b>			<b>3,833,409</b>		<b>3,827,173</b>
<b>Total value of gas sold and by-products made</b>			<b>18,101,724</b>		<b>17,871,479</b>

**Table 113.—Total Production of Artificial Gas in Canada, 1924 and 1925**

	1924	1925
	Quantity	Quantity
	M cu. ft.	M cu. ft.
Illuminating and fuel gas industry	13,327,403	13,507,487
<b>Coke industry:</b>		
Gas used in heating ovens or retorts	5,125,920	5,008,236
Gas otherwise used in plant but not sold	2,375,792	5,991,969
Gas sold	935,602	1,121,237
<b>Total coke industry</b>	<b>8,437,314</b>	<b>12,124,442</b>
Petroleum refining industry	1,186,787	1,019,755
<b>Total</b>	<b>22,851,503</b>	<b>26,651,684</b>

**Primary Production of Natural Gas.**—(From the *Annual Report on the Mineral Production in Canada, 1925*.)—Natural gas production in Canada during 1925 totalled 16,902,897 thousand cubic feet valued at \$6,833,005. While the quantity of natural gas produced in 1925 has been exceeded in previous years the value recorded for 1925 was considerable in excess of the total for any preceding year. In 1924, the total production was 14,881,336 thousand cubic feet with a valuation of \$5,708,636. For the first time in the history of Canada, the gas fields of the province of Ontario were superseded as the leading producer, by the more recently developed fields of Alberta. The Alberta production amounted to 9,119,500 thousand cubic feet; Ontario's production was 7,143,962 thousand cubic feet. New Brunswick's output was recorded at 639,235 thousand cubic feet.

No new developments in the natural gas industry in Ontario were reported during 1925. In New Brunswick the bringing in of six productive wells in the Stony Creek field indicated considerable activity. The continued record production by the Royalite No. 4 well (wet gas producer) was the principal feature of the industry in Alberta. There was also increased drilling activity throughout the Turner Valley field.

Imports of mixed gas, natural and artificial, into Canada from the United States during 1925 totalled 63,614 thousand cubic feet valued at \$40,542.

Capital employed by the 161 operating firms in Canada during 1925 was \$48,895,802. Employment was furnished 1,059 employees whose total earnings were \$1,206,875.

There were 2,236 natural gas wells in operation in Canada during 1925; the number in New Brunswick was 32; in Ontario 2,117; in Manitoba 1; and in Alberta 86.

**Table 114.—Production of Natural Gas in Canada, 1924 and 1925**

Province	1924		1925	
	M cu. ft.	Value	M cu. ft.	Value
		\$		\$
New Brunswick.....	699,972	113,577	639,235	122,394
Ontario.....	7,150,078	3,798,381	7,143,962	3,958,006
Alberta.....	7,131,086	1,796,618	9,119,500	2,752,545
Manitoba.....	200	60	200	60
<b>Total.....</b>	<b>14,881,336</b>	<b>5,708,636</b>	<b>16,902,897</b>	<b>6,833,005</b>

CHAPTER NINE

IMPORTED-CLAY PRODUCTS

**General.**—This industry includes all plants in Canada that manufacture clay products such as porcelain insulators, fireclay goods, pottery and earthenware from special clays imported for the purpose. Most of this clay comes from the United States but considerable quantities are also obtained from the United Kingdom.

In 1925, the production of imported-clay products in Canada amounted in value to \$1,741,745. Only 12 plants were engaged in this line of work; 5 were located in Quebec, 6 were in Ontario and 1 factory in New Brunswick manufactured commodities from domestic clays as the main business but also produced small quantities of goods from specially imported clays. Porcelain insulators were made in 3 different plants, pottery in 3 establishments, refractory materials in 4 different plants, building tile in only 1 factory, sewer pipe in 1 plant, sanitary ware in 1 plant and earthenware in 1 plant.

Capital employed in this industry in 1925 was reported at \$2,762,951; employment was given to 552 persons to whom \$653,211 were paid in salaries and wages, and \$326,023 worth of raw materials were used in manufacturing. In 1924, when the same plants were in operation, capital employed amounted to \$1,677,533, employees numbered 489, and the total value of output for the industry was \$1,879,769. Except for the value of products made from imported clays, data for the New Brunswick plant have not been included in this report; the value of products made from imported clays in this plant was comparatively small and so the general data have been included in the review on the "Domestic-Clay Products Industry."

**Table 115.—Summary Statistics of the Imported-Clay Products Industry in Canada, 1924 and 1925**

Year	Number of plants	Capital employed*	Number of employees*	Salaries*	Wages*	Cost of fuel and electricity	Cost of materials*	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	\$
1924.....	12	1,677,533	489	104,277	462,860	141,491	535,793	1,879,769	1,343,976
1925.....	12	2,762,951	552	149,888	503,323	170,339	326,023	1,741,745	1,415,722

\* Figures on capital, employees, salaries and wages and materials used do not include data for 1 plant in New Brunswick.

**Capital Employed.**—Plants in Canada engaged in the manufacture of products from imported clays during 1925 represented a capital investment of \$2,762,951, of which \$1,516,143 or 55 per cent was tied up in lands, plants, machinery and tools. Ontario's factories accounted for \$1,527,816 or 55 per cent of the total capital employed in the industry; Quebec accounted for the remainder.

**Table 116.—Capital Employed in the Imported-Clay Products Industry in Canada, by Classes and by Provinces, 1924 and 1925**

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand, and stocks in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand, and stocks in process	Cash, trading and operating accounts and bills receivable	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Quebec.....	353,484	300,512	28,875	682,871	625,215	396,598	213,322	1,235,135
Ontario.....	608,443	115,023	271,196	994,662	890,928	302,507	334,381	1,527,816
<b>Canada.....</b>	<b>961,927</b>	<b>415,535</b>	<b>300,071</b>	<b>1,677,533</b>	<b>1,516,143</b>	<b>699,105</b>	<b>547,703</b>	<b>2,762,951</b>

**Employment.**—The number of employees in this industry in 1925 was 552 of whom 65 were salaried employees and 487 were wage-earners. Salaries and wages totalled \$653,211. In the previous year, 45 salaried employees and 444 wage-earners were paid \$567,143 in salaries and wages. Each wage-earner received an average yearly wage of \$912 in 1925 as compared with \$1043 in 1924.

Plants engaged in this line of production operated on an average of 302 days during the year.

**Table 117.—Average Number of Employees, Salaries and Wages Paid in the Imported-Clay Products Industry in Canada, by Provinces, 1924 and 1925**

Province	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
1924								
Quebec	17	1	131	4	153	41,120	130,855	171,975
Ontario	19	8	293	16	336	63,157	332,011	395,168
<b>Canada</b>	<b>36</b>	<b>9</b>	<b>424</b>	<b>20</b>	<b>459</b>	<b>104,277</b>	<b>462,866</b>	<b>567,143</b>
1925								
Quebec	27	2	178	3	210	65,117	198,333	263,450
Ontario	27	9	298	40	342	84,771	304,990	389,761
<b>Canada</b>	<b>54</b>	<b>11</b>	<b>444</b>	<b>43</b>	<b>552</b>	<b>149,888</b>	<b>503,323</b>	<b>653,211</b>

**Table 118.—Number of Wage-Earners Employed in the Imported-Clay Products Industry in Canada, by Months, 1924 and 1925**

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January	499	21	520	424	41	465
February	491	22	513	427	40	467
March	456	23	479	439	42	481
April	449	22	471	438	48	486
May	424	20	444	443	49	492
June	390	21	411	431	47	478
July	390	20	410	443	40	483
August	399	16	415	417	41	458
September	407	15	422	453	41	494
October	404	16	420	464	43	507
November	425	15	440	469	40	509
December	344	20	364	469	40	509
<b>Average</b>	<b>424</b>	<b>20</b>	<b>444</b>	<b>444</b>	<b>43</b>	<b>487</b>

**Table 119.—Hours of Labour (in Month of Greatest Employment) in the Imported-Clay Products Industry in Canada, by Provinces, 1925**

Province	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
Quebec	30	163	6	2	44	54	58	66
Ontario	29	139	10	2	45	50	55	84

Table 120.—Fuel and Electricity Used in the Imported-Clay Products Industry in Canada, 1924 and 1925

Kind	Unit of measure	1924		1925	
		Quantity	Selling value	Quantity	Selling value
		No.	\$	No.	\$
Anthracite coal.....	Short ton	3,167	40,296	1,871	21,637
Bituminous coal.....	Short ton	11,294	84,552	15,264	107,156
Coke.....	Short ton	201	2,156	336	3,668
Fuel oil.....	Gallon	48,191	3,353	213,885	14,813
Gas.....	M cu. ft.	699	489	957	670
Wood.....	Cord	262	1,499	241	2,165
Other fuel.....			130		98
Electric power.....	K.W.H.	847,732	9,016	1,241,190	20,130
<b>Total.....</b>			<b>141,491</b>		<b>176,339</b>

Table 121.—Power Employed in the Imported-Clay Products Industry in Canada, 1924 and 1925

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines.....	1	35		
<b>Total primary power.....</b>	<b>1</b>	<b>35</b>		
Electric motors driven by purchased power.....	60	402	27	384
<b>Total power equipment employed.....</b>	<b>61</b>	<b>437</b>	<b>27</b>	<b>384</b>
Electric motors driven by power generated by the primary power of the industry.....			108	481
<b>Total electric power.....</b>	<b>60</b>	<b>402</b>	<b>135</b>	<b>865</b>
Boilers installed.....	8	360	13	955

**Materials Used.**—Fire clays, china clays, ball clay, sagger clay, flint, feldspar and glazing materials such as sodium silicate, zinc oxide, tin oxide, white lead, etc., were the principal materials used in this industry. In 1925, the cost of manufacturing materials was \$291,682, and containers of various kinds were worth \$34,341 bringing the total cost of materials used during the year to \$326,023 as compared with a total sum of \$535,793 paid for materials in 1924.

Table 122.—Materials Used in the Imported-Clay Products Industry in Canada, 1924 and 1925

Material	Unit of measure	1924		1925	
		Cost at works	Quantity	Cost at works	Quantity
		\$		\$	
Fireclay.....	Tons	91,306	11,777	71,611	
Clay, all other.....	Tons	228,522	4,547	88,754	
Glazing materials (including white lead, oxide of tin, oxide of zinc, sodium silicate, boracic acid, etc.).....		5,980		7,885	
Flint.....	Tons		565	9,494	
Feldspar.....	Tons		831	17,813	
Containers, boxes, bags, etc.....		36,749		34,341	
All other materials.....		173,236		96,125	
<b>Total.....</b>		<b>535,793</b>		<b>326,023</b>	

**Products.**—Products made from imported clays during 1925 were valued at \$1,741,745 as compared with a corresponding figure of \$1,879,769 in 1924. Porcelain insulators were the main product of the industry but the output value of \$973,328 in 1925 was about 27 per cent below the output value in 1924. Fireclay shapes were worth \$157,911 and pottery of various kinds sold for \$55,305. Floor tile, sewer pipe, and sanitary ware were the other main products of the industry.

**Table 123.—Products of the Imported-Clay Products Industry in Canada, 1924 and 1925**

Product	1924	1925
	Selling value at works	Selling value at works
Fireclay blocks and shapes.....	\$ 146,016	\$ 157,911
Porcelain insulators.....	1,332,679	973,328
Pottery, glazed and unglazed.....	53,678	55,305
All other products (includes, floor and wall tile, sewer pipe, sanitary ware, etc.).....	347,396	555,201
<b>Total.....</b>	<b>1,879,769</b>	<b>1,741,745</b>

**Primary Production of Clay and Clay Products.**—(From the *Annual Report on the Mineral Production of Canada, 1925*.)—CLAY AND CLAY PRODUCTS.—Under Clay and Clay Products there have been included statistics relating to production in Canada from domestic clays, of (a) fireclay, (b) fireclay blocks and shapes, (c) fire brick, (d) brick made by the different processes such as the soft mud process, stiff mud process and dry press, (e) structural tile, such as hollow blocks, roofing tile, floor tile (quarries), ceramic or glazed floor and wall tile, (f) drain tile, (g) sewer pipe, including copings, flue linings, etc., and (h) pottery.

The total value of clay products produced in Canada from domestic raw materials during 1925 was \$9,529,691, an increase of 3.4 per cent over the 1924 total of \$9,215,077. Sales in the province of Ontario reached a value of \$5,195,084 as against \$5,089,299 in the preceding year.

Nova Scotia, Manitoba, Alberta and British Columbia producers all reported increased productions, but there was a slight falling-off in each of the other provinces.

The schedule designed in 1924 as the result of a conference of the Dominion Bureau of Statistics' officials and the members of the Canadian National Clay Products Association, has been found very satisfactory both to producers and to the compilers of data for the industry.

Statistics on production in Canada from imported clays are given in Table 123.

**Table 124.—Production of Clay Products in Canada from Domestic Clays, 1924 and 1925**

Product	1924		1925	
	Quantity	Total selling value	Quantity	Total selling value
Brick soft mud process—		\$		\$
{Face.....	M 10,831	185,248	27,701	521,739
{Common.....	M 50,079	746,044	51,214	753,070
Stiff mud process (wire out)—				
{Face.....	M 80,565	1,842,224	93,903	1,883,856
{Common.....	M 124,556	1,880,631	116,105	1,635,257
Dry press—				
{Face.....	M 35,203	761,572	37,201	600,504
{Common.....	M 12,794	168,043	22,053	270,135
Fancy or ornamental brick (including special shapes, embossed and enamelled brick).....	M 755	98,460	524	26,320
Sewer brick.....	M 2,690	40,775	2,485	52,382
Firebrick from domestic clay.....	M 4,327	209,256	6,197	305,332
Fireclay.....	ton 3,845	26,258	623	6,544
Fireclay blocks and shapes.....		51,273		36,567
Structural tile: hollow blocks (including fire proofing and load-bearing tile).....	ton 96,818	926,777	115,576	1,093,397
Roofing tile.....	No. 7,377	917	78,479	6,323
Floor tile (quarries).....	sq. ft. 444,601	35,698	140,927	28,338
Drain tile.....	M 15,137	409,369	14,552	401,503
Sewer pipe (including copings, flue linings, etc.).....	ton 76,355	1,594,280	73,791	1,440,269
Pottery, glazed or unglazed.....		238,342		267,255
<b>Total.....</b>		<b>9,215,077</b>		<b>9,529,691</b>

Table 125.—Production of Clay Products in Canada, from Domestic Clays, by Provinces, 1924 and 1925

Province	1924		1925	
	Sold or used	Per cent of total value	Sold or used	Per cent of total value
	\$		\$	
Prince Edward Island.....	3,340	0.04	3,020	0.03
Nova Scotia.....	355,948	3.86	422,690	4.43
New Brunswick.....	74,994	0.81	69,473	0.72
Quebec.....	2,435,695	26.44	2,426,887	25.46
Ontario.....	5,089,299	55.24	5,195,084	54.51
Manitoba.....	117,450	1.27	173,794	1.82
Saskatchewan.....	137,280	1.49	95,952	1.06
Alberta.....	540,477	5.86	618,860	6.49
British Columbia.....	460,594	4.99	523,931	5.48
<b>Canada.....</b>	<b>9,215,077</b>	<b>100.00</b>	<b>9,529,691</b>	<b>100.00</b>

Table 126.—Value of Clay Products Produced in Canada from Domestic and Imported Clays, 1924 and 1925

Item	From domestic clays		From imported clays		Total	
	1924	1925	1924	1925	1924	1925
	\$	\$	\$	\$	\$	\$
Fireclay blocks and shapes.....	51,273	36,567	146,016	157,911	197,289	191,478
Sanitary ware.....			254,752	240,501	254,752	240,501
Ceramic or glazed floor and wall tile.....		28,338	91,759	110,059	91,759	138,397
Pottery, glazed and unglazed.....	238,342	267,255	55,678	55,905	292,020	323,560
Electrical porcelain insulators.....			1,332,679	973,328	1,332,679	973,328
Other clay products (brick, tile, sewer pipe, etc.).....	8,925,462	9,107,531	885	204,641	8,926,347	9,402,172
<b>Total.....</b>	<b>9,215,077</b>	<b>9,529,691</b>	<b>1,879,769</b>	<b>1,741,745</b>	<b>11,094,846</b>	<b>11,271,436</b>

Table 127.—Imports into Canada and Exports of Clay and Clay Products, 1924 and 1925

	1924		1925	
	Quantity	Value	Quantity	Value
		\$		\$
<b>IMPORTS—</b>				
Bath brick.....		1,799		695
Building brick.....	M	5,425	5,480	125,565
Building blocks.....		63,559		81,873
<b>Clays—</b>				
China.....	cwt.	390,613	250,113	363,890
Fire.....	cwt.	886,091	180,696	824,774
Pipe.....		847		1,668
Other clays.....		56,590		61,498
Drain tile, unglazed.....		3,014		8,022
Drain and sewer pipe.....		68,449		66,960
Earthenware and chinaware.....		4,124,607		4,558,194
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, etc.....		23,413		27,113
Brick, fire, n.o.p., for use exclusively in the construction or repair of a furnace, kiln or other equipment of a manufacturing establishment.....		812,039		861,696
Fire brick, n.o.p.....		284,388		194,069
Fire brick, chrome.....				35,277
Magnesite brick.....		91,553		93,840
Silica brick.....		154,251		185,356
Paving brick.....	M	2,559	1,563	39,901
Other clay manufactures.....		842,577		771,001
<b>Total.....</b>		<b>7,158,371</b>		<b>7,478,084</b>
<b>EXPORTS—</b>				
Building brick.....	M	2,988	1,758	22,027
<b>Clay—</b>				
Unmanufactured.....	cwt.	1,346	7,325	8,496
Manufactures.....				85,383
Earthenware.....		72,839		18,879
*Porcelain insulators.....		322,206		88,033
<b>Total.....</b>		<b>543,572</b>		<b>220,818</b>

\* Prior to April, 1924, porcelain insulators included with earthenware.

STRUCTURAL TILE.—Records of the production of structural tile in Canada include such items as hollow blocks (fire-proofing and load-bearing tile), roofing tile, and floor tile; sales of these products amounted in value to \$1,128,058 in 1925 as compared with \$963,302 in 1924. Hollow blocks were manufactured in every province except New Brunswick and Prince Edward Island. Roofing and floor tile were made in Ontario during 1925. In the preceding year a small quantity of floor tile was produced in British Columbia.

Table 128.—Production of Structural Tile in Canada, by Provinces, 1924 and 1925

Province	Hollow blocks (including fire proofing and load-bearing tile)		Roofing tile		Floor tile (quarries)	
	Tons	Value	No.	Value	Sq. ft.	Value
		\$		\$		\$
1924						
Nova Scotia.....	4,695	54,410				
Quebec.....	29,366	277,940				
Ontario.....	48,134	428,894	7,377	917	441,301	35,211
Manitoba.....	969	11,726				
Saskatchewan.....	1,795	35,892				
Alberta.....	5,511	51,518				
British Columbia.....	6,348	66,397			3,900	397
<b>Canada.....</b>	<b>96,818</b>	<b>926,777</b>	<b>7,377</b>	<b>917</b>	<b>444,601</b>	<b>35,608</b>
1925						
Nova Scotia.....	6,706	67,863				
Quebec.....	31,842	302,272				
Ontario.....	62,926	577,477	78,479	6,323	140,927	28,338
Manitoba.....	610	9,329				
Saskatchewan.....	2,700	27,052				
Alberta.....	5,166	49,831				
British Columbia.....	5,626	59,573				
<b>Canada.....</b>	<b>115,576</b>	<b>1,093,397</b>	<b>78,479</b>	<b>6,323</b>	<b>140,927</b>	<b>28,338</b>

DRAIN TILE AND SEWER PIPE.—The Canadian production of sewer pipe during 1925 totalled 73,791 tons valued at \$1,440,269 as compared with 76,355 tons worth \$1,594,280 produced in 1924. Sales of drain tile, during the period under review were recorded at 14,552 thousand valued at \$401,503 as against a total of 15,137 thousand at \$409,369 sold in 1924. Ontario accounted for 92.8 per cent of the total production of drain tile and 66 per cent of the sewer pipe produced.

Table 129.—Production of Drain Tile and Sewer Pipe, in Canada, by Provinces, 1924 and 1925

Province	1924				1925			
	Drain tile		Sewer pipe		Drain tile		Sewer pipe	
	M	\$	Tons	\$	M	\$	Tons	\$
Prince Edward Island.....	76	1,750			22	500		
Nova Scotia.....	71	2,515	12,910	214,783	44	1,520	11,483	195,787
Quebec.....	65	2,550	12,939	310,525	50	1,906	4,251	104,701
Ontario.....	14,096	373,079	42,440	848,398	13,496	360,710	49,334	893,442
Manitoba.....	167	5,845			278	14,080		
Saskatchewan.....	200	8,000			20	1,000		
Alberta.....	38	1,831	6,345	168,016	84	3,373	6,985	191,257
British Columbia.....	424	12,899	1,712	52,558	558	18,414	1,738	55,082
<b>Canada.....</b>	<b>15,137</b>	<b>409,369</b>	<b>76,355</b>	<b>1,594,280</b>	<b>14,552</b>	<b>401,503</b>	<b>73,791</b>	<b>1,440,269</b>



REFRACTORIES—*Fireclay*.—Sales of fire clay or refractory clay sold as such, in Canada, during 1925 amounted to 623 tons valued at \$6,544. Shipments of this commodity were made from deposits in the provinces of British Columbia, Saskatchewan, New Brunswick and Nova Scotia.

*Firebrick*.—Firebrick produced from domestic clays totalled 6,197 thousand valued at \$305,332, as against 4,327 thousand valued at \$209,256 in the previous year. British Columbia was the principal producer accounting for 57 per cent of the total sales of this commodity in the whole of Canada.

Imports of firebrick into Canada during 1925 consisting of magnesite brick, silica brick, chrome brick, firebrick of a kind not made in Canada, and firebrick n.o.p., were appraised at \$1,397,342.

Large deposits of magnesite from which a good grade of basic high temperature brick may be made, occur in the province of Quebec.

**Table 130.—Production of Refractories, in Canada, from Domestic Clays, by Provinces, 1924 and 1925**

Province	Fire clay		Fire brick		Fire clay blocks and shapes
	Sold or used		Sold or used		
	Quantity	Value	Quantity	Value	
	Tons	\$	M	\$	\$
<b>1924</b>					
Nova Scotia.....	1,967	5,258	176	8,269	930
New Brunswick.....	50	2,005	23	640	.....
Ontario.....	.....	.....	718	38,809	.....
Saskatchewan.....	315	2,436	436	19,936	3,818
Alberta.....	.....	.....	.....	.....	12,077
British Columbia.....	1,313	16,559	2,374	141,902	33,548
<b>Canada.....</b>	<b>3,645</b>	<b>26,258</b>	<b>4,327</b>	<b>209,256</b>	<b>51,273</b>
<b>1925</b>					
Nova Scotia.....	48	489	1,221	71,336	290
New Brunswick.....	49	1,956	30	768	.....
Ontario.....	.....	.....	904	46,459	.....
Saskatchewan.....	319	2,895	447	21,672	7,113
Alberta.....	.....	.....	58	2,524	.....
British Columbia.....	207	1,204	3,537	162,573	29,174
<b>Canada.....</b>	<b>623</b>	<b>6,544</b>	<b>6,197</b>	<b>305,332</b>	<b>36,567</b>

CHAPTER TEN

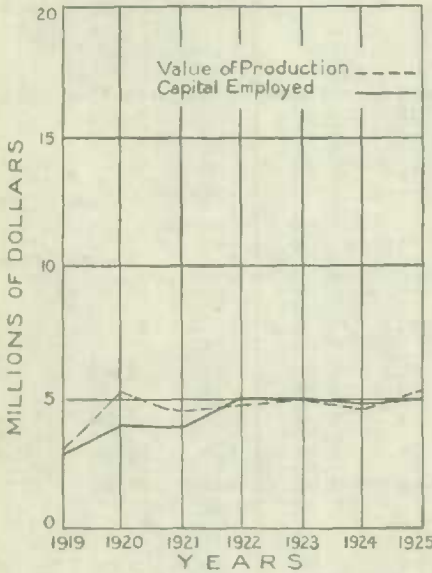
MONUMENTAL AND ORNAMENTAL STONE

**General.**—The monumental and ornamental stone industry as reviewed hereunder includes only those plants in Canada engaged primarily in cutting and finishing stone for building or monumental purposes; the primary production or quarrying of stone is not included in this industry. Many concerns engaged in the quarrying of stone also cut and

finish it for the market; the operations of these establishments have been covered in the primary stone industry as it is impossible to get separate data for the finishing operations. An extract from the *Report on the Mineral Production of Canada*, which deals with the primary stone industry, has been added as a supplement to the present chapter so a perspective of the industry as a whole may be obtained by the reader. The main statistics shown below refer only to cutting and finishing plants.

The monumental and ornamental stone industry is well distributed across the Dominion. In 1925, reports were received from 214 plants located as follows: 1 in Prince Edward Island, 11 in Nova Scotia, 9 in New Brunswick, 41 in Quebec, 118 in Ontario, 13 in Manitoba, 7 in Saskatchewan, 5 in Alberta and 9 in British Columbia. These plants represented an investment of \$5,015,729 and employed 1,262 people throughout the year to whom \$1,811,512 was paid in salaries and wages. The cost of all stone used was \$1,964,817 and the selling value of products was \$5,355,997, giving thus \$3,391,180 as the value added by the cutting and finishing processes.

MONUMENTAL & ORNAMENTAL STONE INDUSTRY



Many of the plants in this industry are small concerns employing only 2 or 3 men, but there were also a number of plants operating on a large scale with productions in excess of \$100,000. Statistics for 1925 show that 147 plants employed less than 5 persons in each; 34 establishments gave work to between 5 and 10 persons in each; 25 plants employed between 10 and 25 persons while only 8 plants employed more than 25 people in each. Only 9 plants each reported a production valued at more than 100,000 dollars; 14 others each exceeded \$50,000; 24 more each reported a production value above \$25,000; 57 others exceeded the \$10,000 mark; 106 more each were above \$1,000 and only 4 were below the latter figure.

Table 131.—Summary Statistics of the Monumental and Ornamental Stone Industry in Canada, 1921-1925

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel*	Cost of materials	Selling value of products	Value added by manufacturing
1921.....	173	\$ 3,971,172	1,207	\$ 389,100	1,283,647	\$ 15,857	\$ 1,478,097	\$ 4,540,028	\$ 3,061,931
1922.....	208	5,027,935	1,273	459,896	1,349,548	19,532	1,844,548	4,968,487	3,123,939
1923.....	210	5,073,618	1,278	464,823	1,378,140	20,170	1,683,126	5,025,003	3,341,877
1924.....	210	4,944,269	1,344	409,084	1,478,378	95,791	1,441,753	4,730,572	3,288,819
1925.....	214	5,015,729	1,262	422,239	1,389,273	96,929	1,964,817	5,355,997	3,391,180

\*Includes electricity for 1924 and 1925.

**Table 132.—Principal Statistics of the Monumental and Ornamental Stone Industry in Canada, by Provinces, 1924 and 1925**

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling value of products
			\$	\$			\$	\$
Nova Scotia and Prince Edward Island.....	14	37	31,046	126,243	12	32	28,232	126,632
New Brunswick.....	9	67	67,531	137,494	9	56	55,567	122,503
Quebec.....	42	347	485,895	1,137,660	41	233	285,579	687,440
Ontario.....	113	667	978,560	2,639,443	118	698	1,097,055	3,485,505
Manitoba.....	12	101	135,863	277,669	13	133	179,922	523,258
Saskatchewan.....	7	43	59,885	128,844	7	34	44,357	108,999
Alberta.....	6	32	49,805	136,110	5	30	54,305	152,768
British Columbia.....	7	50	78,877	147,109	9	46	66,405	148,892
<b>Canada.....</b>	<b>210</b>	<b>1,344</b>	<b>1,887,462</b>	<b>4,730,572</b>	<b>214</b>	<b>1,267</b>	<b>1,811,512</b>	<b>5,355,997</b>

**Capital Employed.**—Capital employed in this industry in 1925 amounted to \$5,015,729, only slightly above the corresponding figure for 1924. Lands, buildings, machinery and tools were valued at \$2,346,427 or 47 per cent of the total investment. Ontario led with \$3,019,598 or 60 per cent of the total, while Quebec accounted for \$696,072 or 14 per cent of the total capital employed in the industry.

**Table 133.—Capital Employed in the Monumental and Ornamental Stone Industry in Canada, by Classes and by Provinces, 1924 and 1925**

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total
\$	\$	\$	\$	\$	\$	\$	\$	
Nova Scotia and Prince Edward Island.....	27,540	37,664	11,515	<b>76,719</b>	25,540	46,160	11,275	<b>82,975</b>
New Brunswick.....	60,876	48,943	22,259	<b>132,078</b>	53,673	42,030	22,734	<b>118,437</b>
Quebec.....	468,977	201,133	410,405	<b>1,080,515</b>	349,400	189,831	156,841	<b>696,072</b>
Ontario.....	1,311,907	639,545	722,638	<b>2,674,090</b>	1,491,438	700,345	827,815	<b>3,019,598</b>
Manitoba.....	188,037	109,946	154,301	<b>449,284</b>	233,225	143,973	184,332	<b>561,530</b>
Saskatchewan.....	56,984	65,845	94,116	<b>216,945</b>	83,387	61,339	68,388	<b>213,114</b>
Alberta.....	48,633	101,166	76,013	<b>225,812</b>	50,449	100,433	75,892	<b>226,774</b>
British Columbia.....	51,353	14,175	23,298	<b>88,826</b>	59,315	20,615	17,299	<b>97,229</b>
<b>Canada.....</b>	<b>2,214,397</b>	<b>1,215,417</b>	<b>1,514,545</b>	<b>4,944,269</b>	<b>2,346,427</b>	<b>1,304,726</b>	<b>1,304,576</b>	<b>5,015,729</b>

**Employment.**—In 1925, this industry afforded employment to 214 salaried employees and 1,048 wage-earners, a total of 1,262 persons to whom \$1,811,512 was paid in salaries and wages. There is a slight seasonal trend to the industry as indicated by the monthly employment records. Employment drops off during the winter months when there is less activity in the building trade. In January, there were 801 wage-earners on the rolls and this number gradually increased until a maximum of 1,159 was reached in August. By the end of the year the number had declined to 985, making an average for the year of 1,048 wage-earners as against 1,135 in 1924.

**Table 134.—Average Number of Employees, Salaries and Wages Paid in the Monumental and Ornamental Stone Industry in Canada, by Provinces, 1924 and 1925**

Province	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
						\$	\$	\$
<b>1924</b>								
Nova Scotia and Prince Edward Island.....	1		36		37	1,200	29,846	31,046
New Brunswick.....	7	1	58	1	67	10,730	56,801	67,531
Quebec.....	31	2	314		347	81,143	404,752	485,895
Ontario.....	95	12	558	2	667	207,333	771,227	978,560
Manitoba.....	21	4	76		101	52,871	82,992	135,863
Saskatchewan.....	14	3	26		43	25,208	34,677	59,885
Alberta.....	8	3	21		32	16,277	33,528	49,805
British Columbia.....	7		43		50	14,322	64,555	78,877
<b>Canada.....</b>	<b>184</b>	<b>25</b>	<b>1,132</b>	<b>3</b>	<b>1,344</b>	<b>409,084</b>	<b>1,478,378</b>	<b>1,887,462</b>
<b>1925</b>								
Nova Scotia and Prince Edward Island.....	5		27		32	4,100	24,132	28,232
New Brunswick.....	5	1	50		56	9,060	46,507	55,567
Quebec.....	24	2	207		233	60,128	225,451	285,579
Ontario.....	110	13	573	2	698	243,361	853,694	1,097,055
Manitoba.....	23	4	106		133	57,345	122,577	179,922
Saskatchewan.....	9	2	23		34	17,980	26,377	44,357
Alberta.....	6	3	21		30	14,225	40,170	54,395
British Columbia.....	7		39		46	16,040	50,365	66,405
<b>Canada.....</b>	<b>189</b>	<b>25</b>	<b>1,046</b>	<b>2</b>	<b>1,262</b>	<b>422,239</b>	<b>1,389,273</b>	<b>1,811,512</b>

**Table 135.—Number of Wage-Earners Employed in the Monumental and Ornamental Stone Industry in Canada, by Months, 1924 and 1925**

Month	1924			1925		
	Male	Female	Total	Male	Female	Total
January.....	816	3	819	800	1	801
February.....	851	3	854	770	1	780
March.....	942	3	945	822	1	823
April.....	1,004	3	1,007	880	1	881
May.....	1,086	3	1,089	985	1	986
June.....	1,167	3	1,170	1,056	2	1,058
July.....	1,235	3	1,238	1,139	2	1,141
August.....	1,249	3	1,252	1,157	2	1,159
September.....	1,231	3	1,234	1,143	2	1,145
October.....	1,193	3	1,196	1,111	2	1,113
November.....	1,076	3	1,079	1,052	2	1,054
December.....	975	3	978	983	2	985
<b>Average.....</b>	<b>1,132</b>	<b>3</b>	<b>1,135</b>	<b>1,046</b>	<b>2</b>	<b>1,048</b>

**Table 136.—Hours of Labour (in Month of Greatest Employment) in the Monumental and Ornamental Stone Industry in Canada, by Provinces, 1925**

Province	Number of wage-earners working				Average number of hours worked per man per week when working			
	8 hours or less per day	9 hours	10 hours	Over 10 hours	8 hours or less per day	9 hours	10 hours	Over 10 hours
	Nova Scotia and Prince Edward Island.....	17	10	1		48	54	60
New Brunswick.....	56		2		48		80	
Quebec.....	174	52	32		48	54	60	
Ontario.....	483	129	128	48	45	54	60	68
Manitoba.....	66	14	37	15	45	54	60	72
Saskatchewan.....	15	10	9		45	54	55	
Alberta.....	31				44			
British Columbia.....	70				44			

**Table 137.—Fuel and Electricity Used in the Monumental and Ornamental Stone Industry in Canada, 1924 and 1925**

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
		\$		\$	
Anthracite coal.....	Ton	291	4,108	263	3,049
Bituminous coal.....	Ton	795	6,077	1,416	12,379
Lignite coal.....	Ton	36	299	29	315
Coke.....	Ton	119	1,406	102	1,356
Gasoline.....	Imp. gal.	14,824	4,150	15,903	4,045
Fuel oil.....	Imp. gal.	4,309	1,135	3,256	871
Wood.....	Cords	372	2,725	669	3,655
Gas.....	M cu. ft.	638	895	2,172	2,123
Other fuel.....			181		174
Electric power.....	K.W.H.	4,202,106	74,746	2,997,122	67,462
<b>Total</b> .....			<b>95,791</b>		<b>96,929</b>

**Table 138.—Power Equipment Employed in the Monumental and Ornamental Stone Industry in Canada, 1924 and 1925**

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines.....	1	46	2	44
Gas engines.....	4	68	3	60
Oil and gasoline engines.....	20	96	13	91
Hydraulic turbines or water wheels.....			1	3
<b>Total primary power</b> .....	<b>25</b>	<b>210</b>	<b>19</b>	<b>198</b>
Electric motors driven by purchased power.....	354	4,998	400	5,209
<b>Total power equipment employed</b> .....	<b>379</b>	<b>5,208</b>	<b>419</b>	<b>5,407</b>
Electric motors driven by power generated by the primary power of the industry.....	7	122		
<b>Total electric power</b> .....	<b>361</b>	<b>5,120</b>	<b>400</b>	<b>5,209</b>
Boilers installed.....	5	130	6	202

**Materials Used.**—The total cost of materials used amounted to \$1,964,817 as against \$1,441,753 in 1924. This included the cost of imported stone as well as domestic marble and granite, limestone and other materials.

**Table 139.—Materials Used in the Monumental and Ornamental Stone Industry in Canada, 1924 and 1925**

Material	1924	1925	
	Cost at works	Cost at works	
		\$	\$
Cost of all stone used.....	1,441,753	1,964,817	
<b>Total</b> .....	<b>1,441,753</b>	<b>1,964,817</b>	

**Products.**—The products of this industry find their market either as monuments or stone for building purposes. More limestone was used for building purposes than in 1924 but the use of granite and marble for the same purpose fell off slightly. The total production in 1925 was valued at \$5,355,997 as compared with \$4,730,572 in the previous year.

Table 140.—Products of the Monumental and Ornamental Stone Industry in Canada, 1924 and 1925

Product	1924	1925
	Total selling value at works	Total selling value at works
Granite cut and polished—(a) Monuments.....	1,223,417	1,387,658
(b) For building purposes.....	465,539	73,376
Marble cut and polished—(a) Monuments.....	298,482	292,621
(b) For building purposes.....	633,356	573,602
Marble chips and dust.....	46,530	13,849
Limestone—(a) Monuments and bases.....	42,577	154,488
(b) For building purposes.....	1,041,485	1,909,212
Finished monuments, lettered only.....	822,661	861,322
Other products.....	150,525	89,869
<b>Total.....</b>	<b>4,730,572</b>	<b>5,355,997</b>

**Primary Production of Stone.**—(From the *Annual Report on the Mineral Production of Canada, 1925*.)—Production of stone in Canada during 1925 totalled 5,706,119 tons valued at \$7,464,777. In 1924, the shipments amounted to 4,768,014 tons worth \$6,407,757. With the exception of the record production of 1920, the 1925 value exceeds that of all other years. Ontario was the leading producer, accounting for 53 per cent of the total quantity; Quebec followed with 39.3 per cent. The other provinces in order of tonnage produced were: British Columbia, Nova Scotia, Manitoba, and New Brunswick.

The kinds of stone quarried included granite (trap-rock, syenite, and other igneous rock), limestone, sandstone and marble.

The quantities of limestone quarried and used in the manufacture of lime by the operator have not been included under this industry; only the quantity and value of lime are recorded in order to avoid duplication of entries.

Table 141.—Production of Stone in Canada, by Provinces, Showing Purposes for Which Used, 1925

Product	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
<b>Building—</b>								
Rough.....Ton	535		28,389	16,166	9,221		2,026	56,337
Dressed.....Ton	3,827		233,523	163,755	39,702		10,775	451,582
Rough.....\$		461	28,441	1,327	2,300		197	32,726
Dressed.....\$		10,334	704,252	33,112	86,261		13,840	856,729
<b>Monumental and ornamental—</b>								
Rough.....Ton	29	613	10,171	657			135	11,605
Dressed.....Ton	1,000	10,026	102,251	6,068			15,433	134,778
Rough.....\$	429	508	1,503	63			1,260	3,763
Dressed.....\$	28,021	45,166	59,584	3,400			53,000	189,287
Flagstone.....Ton			200	666				866
Rough.....\$			250	5,325				5,375
Curbstone.....Ton			24,989	4,347			100	29,436
Rough.....\$			75,132	28,042			1,500	104,674
Paving blocks.....Ton		136	16,385	9,191				25,712
Rough.....\$		3,153	137,974	72,849				213,976
Limestone, for flux.....Ton	84,239		6,500	223,410			49,543	363,692
Rough.....\$	70,742		6,390	197,479			37,138	311,749
Limestone for sugar factories, chemical works, etc.....Ton		14,000	107,655	53,057			7,299	182,011
Rough.....\$		25,800	79,469	39,306			15,259	159,834
Rubble and riprap.....Ton	12,690		319,778	81,820	4,435		31,019	455,524
Rough.....\$	24,618		573,455	69,963	7,362		36,801	706,417
Crushed.....Ton	4,203	9,673	1,698,905	2,632,008	36,814	3,979	158,805	4,544,447
Rough.....\$	6,478	21,264	1,883,175	2,197,938	55,171	6,868	159,232	4,336,127
<b>Total.....Ton</b>	<b>102,125</b>	<b>25,311</b>	<b>2,242,916</b>	<b>3,022,712</b>	<b>52,770</b>	<b>3,979</b>	<b>256,226</b>	<b>5,706,119</b>
<b>  \$</b>	<b>134,686</b>	<b>124,743</b>	<b>3,855,455</b>	<b>2,817,333</b>	<b>188,496</b>	<b>6,868</b>	<b>337,196</b>	<b>7,464,777</b>

Table 142.—Production in Canada, by Kinds and by Provinces, and Imports and Exports of Stone, 1924 and 1925

	1924		1925	
	Tons	Value	Tons	Value
		\$		\$
<b>PRODUCTION, BY KINDS—</b>				
Granite.....	419,971	1,013,345	971,718	2,014,535
Limestone.....	4,249,061	4,831,684	4,643,853	5,049,563
Marble.....	4,379	322,455	3,046	254,922
Sandstone.....	94,603	240,273	87,502	195,757
<b>Total.....</b>	<b>4,768,014</b>	<b>6,407,757</b>	<b>5,706,119</b>	<b>7,464,777</b>
<b>PRODUCTION, BY PROVINCES—</b>				
Nova Scotia.....	67,535	111,824	102,125	134,686
New Brunswick.....	19,229	114,111	25,391	124,743
Quebec.....	1,592,089	2,925,520	2,242,916	3,855,455
Ontario.....	2,840,173	2,789,398	3,022,712	2,817,333
Manitoba.....	54,065	93,870	52,770	188,496
Alberta.....	16,698	19,317	3,979	6,868
British Columbia.....	178,225	353,741	256,226	337,196
<b>Canada.....</b>	<b>4,768,014</b>	<b>6,407,757</b>	<b>5,706,119</b>	<b>7,464,777</b>
<b>IMPORTS—</b>				
Building stone, other than marble or granite, sawn on more than two sides, but not sawn on more than four sides.....	240	3,619	285	4,143
Building stone, other than marble or granite, planed, turned, cut or further manufactured than sawn on four sides.....	276	10,886	231	7,917
Flagstone, granite, rough sandstone, and all building stone, not hammered, sawn or chiselled.....		170,555		134,170
Flagstone, and building stone, other than marble or granite, sawn on not more than two sides.....		82,039		97,875
Granite, sawn only.....		2,226		2,255
Granite, manufactures of, n.o.p.....		138,011		158,614
Marble, rough, not hammered or chiselled.....		60,544		67,507
Marble, sawn or sand rubbed, not polished.....		192,181		174,029
Marble, manufactures of, n.o.p.....		38,655		40,293
Paving blocks.....		3,168		
Refuse stone.....	281,324	174,738	160,997	100,544
Manufactures of stone, n.o.p.....		39,103		37,645
<b>Total.....</b>		<b>913,325</b>		<b>824,992</b>
<b>EXPORTS—</b>				
Crushed.....	59,984	100,873	42,518	81,764
Ornamental, rough*.....	3,390	45,195	3,430	36,552
Building, rough†.....	2,059	18,080	4,166	14,389
Dressed.....		5,365		5,687
<b>Total.....</b>		<b>170,113</b>		<b>138,392</b>

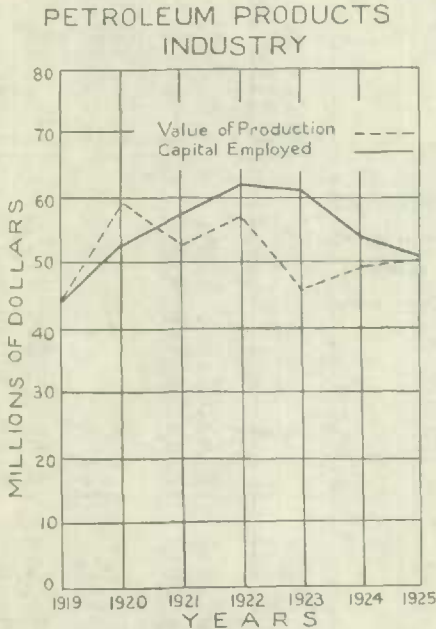
\* Granite, marble, etc., unwrought.

† Freestone, limestone, etc., unwrought.

## CHAPTER ELEVEN

### PETROLEUM PRODUCTS

**General.**—The petroleum products industry in Canada includes all plants engaged in (a) the refining of crude oil for the production of gasoline, kerosene, lubricating oils, waxes and petroleum coke; (b) the compounding of lubricating oils and greases, core oil, cutting compounds, etc. Output of petroleum products in Canada during 1925 amounted in value to \$50,762,127. This was the highest value shown for the industry since 1922 and compares with output values of \$49,411,067 in 1924 and \$46,280,554 in 1923.



Oil refineries in operation during 1925 numbered 13 located as follows: 1 in Nova Scotia, 2 in Quebec, 3 in Ontario, 1 in Manitoba, 1 in Saskatchewan, 3 in Alberta, and 2 in British Columbia. The industry is dominated by one company which operates 6 large refineries at advantageous points across the Dominion. For the most part these refineries import the crude oil for refining, but 2 small plants in Alberta refined only oil from Canadian fields and the refineries located in western Ontario used considerable quantities of Canadian petroleum as well as oil imported from United States; the output of naphtha from the Royalite well in Alberta was delivered to the refineries at Regina, Sask., Calgary, Alberta, and Loco, British Columbia, where it was prepared for market. In the present report the crude naphtha is shown as crude oil used for refining. The 13 refining plants represented a capital investment of 49.5 million dollars, gave employment to 3,655 persons and produced commodities having a total selling value of \$49,802,615. As compared with 1924, production was higher by over a million dollars in spite of the fact that 3 of the smaller plants in Alberta did not operate

during the year. The total capacity of the refineries in Canada is about 60,000,000 gallons of crude oil per month; during 1925 the consumption of crude oil averaged about 37,000,000 gallons per month so all plants operated at nearly two-thirds capacity during the year.

Eight other plants reporting to the Bureau made lubricating oils, greases and similar products; 1 of these was located in Quebec, 5 were in Ontario, 1 in Alberta and 1 in New Brunswick. The same number of plants were in operation in 1924; one plant in Quebec went out of business during the year, but one plant in New Brunswick reported to the Bureau for the first time. Active plants in 1925 employed a capital of \$1,118,649, gave work to 83 persons the year round and made \$959,512 worth of commodities for sale.

In comparing the general data for the refining groups, it should be noted that all data for the Royalite Oil Co., Ltd., was included in 1924, whereas in 1925 the general data has been omitted; the naphtha from this well which was sent to the various refineries has been shown with the materials entering the refineries and the sales have been included in the value of products.



Table 143.—Summary Statistics of the Petroleum Products Industry in Canada, 1921-1925

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel and electricity	Cost of materials	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	\$
<b>Petroleum refining:</b>									
1921	11	55,630,864	3,911	724,045	5,279,514	4,429,308	35,850,653	51,565,403	15,714,750
1922	13	61,255,400	3,498	753,834	4,637,451	4,227,615	38,129,880	56,495,821	18,365,941
1923	14	60,288,861	4,185	816,751	4,714,818	4,054,846	36,435,300	45,571,500	9,136,200
1924	17	53,095,784	3,603	806,974	4,757,004	3,580,032	36,069,292	48,077,347	12,008,055
1925	13	49,461,900	3,655	913,688	4,708,210	3,433,017	37,814,303	49,802,015	11,988,312
<b>Lubricating oils and greases:</b>									
1921	5	1,933,724	103	112,825	66,130	10,343	778,923	1,367,012	588,080
1922	6	800,629	57	70,101	22,207	4,172	283,311	639,742	256,431
1923	6	738,843	62	93,628	23,123	6,236	381,300	709,028	327,638
1924	8	700,010	66	94,307	31,420	6,500	423,419	733,720	310,301
1925	8	1,118,649	83	101,252	51,896	14,113	446,721	950,512	512,791
<b>Total:</b>									
1921		16,57,564,588	4,014	836,870	5,345,644	4,439,651	36,629,576	52,932,415	16,362,839
1922		19,62,054,029	3,555	832,933	4,659,748	4,231,787	38,413,191	57,635,563	18,632,372
1923		20,61,027,704	4,257	910,379	4,737,941	4,061,082	34,816,696	46,280,531	9,163,838
1924		25,53,795,794	3,669	961,281	4,788,424	3,586,532	37,092,711	49,411,067	12,318,356
1925		21,50,580,519	3,728	1,014,940	4,706,146	3,417,130	38,261,024	50,762,127	12,561,163

Table 144.—Principal Statistics of the Petroleum Products Industry in Canada, by Provinces, 1924 and 1925

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling value of products
			\$	\$			\$	\$
<b>Petroleum refining:</b>								
Ontario	3	1,603	2,453,082	18,181,162	3	1,779	2,702,034	19,945,508
Alberta	7	414	668,233	5,934,678	3	225	370,737	5,454,068
Canada <sup>1</sup>	17	3,603	5,623,978	48,677,347	13	3,655	5,621,808	49,802,615
<b>Lubricating oils and greases:</b>								
Ontario	5	47	94,065	536,354	4	45	95,696	480,346
Canada <sup>2</sup>	8	66	125,727	733,720	8	83	153,148	950,512
<b>Total:</b>								
Quebec	4	587	865,129	7,044,619	4	676	979,713	8,667,838
Ontario	8	1,656	2,547,147	18,717,516	7	1,824	2,797,730	20,425,854
Canada	25	3,669	5,749,705	49,411,067	21	3,728	5,725,646	50,762,127

<sup>1</sup> Includes also data for 2 plants in Quebec, 2 in British Columbia, and 1 in each of the provinces of Nova Scotia, Manitoba and Saskatchewan.

<sup>2</sup> Includes also data for 2 plants in Quebec and 1 in each of the provinces of New Brunswick and Alberta.

**Capital Employed.**—The total capital employed in petroleum refining in 1925 amounted to \$49,461,900. This value was about 3.5 million dollars below the corresponding figure for 1924, but the decline can be more than accounted for by the fact that 3 refineries in Alberta did not operate for any length of time during the year and to the fact that data for the Royalite Company in Alberta has not been included in 1925. Lands, buildings and plant equipment were valued at \$30,306,107 as compared with a value of \$34,289,450 reported for 1924. In the lubricating oils and greases industry the capital employed amounted to \$1,118,649 as compared with \$700,010 in 1924; the investment in plants and equipment in this industry was only \$536,727 in 1925 and \$323,818 in the previous year.

Table 145.—Capital Employed in the Petroleum Products Industry in Canada, by Classes and by Provinces, 1924 and 1925

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand and stocks in process	Cash, trading and operating accounts and bills receivable	Total
\$	\$	\$	\$	\$	\$	\$	\$	
<b>Petroleum refinery:</b>								
Ontario.....	8,956,348	5,179,470	386,086	14,521,904	9,132,257	7,007,905	232,800	16,372,962
Alberta.....	7,941,136	1,731,461	227,406	9,900,003	3,691,697	1,708,279	24,344	5,424,320
Canada <sup>1</sup> .....	34,289,460	18,126,099	680,235	53,095,794	30,306,107	18,840,118	315,675	49,461,900
<b>Lubricating oils and greases:</b>								
Ontario.....	231,575	109,440	181,341	522,356	292,242	114,100	190,447	596,789
Canada <sup>2</sup> .....	323,818	138,668	237,524	700,010	536,727	165,684	416,238	1,118,649
<b>Total:</b>								
Quebec.....	5,605,054	3,015,262	92,634	8,712,950	5,919,351	3,666,028	62,178	9,677,552
Ontario.....	9,187,923	5,288,910	567,127	15,044,360	9,424,199	7,122,005	233,247	16,969,751
Canada.....	34,613,268	18,261,767	917,759	53,795,791	30,842,834	19,065,802	731,913.50	58,549,549

<sup>1</sup> Includes also data for 2 plants in Quebec, 2 in British Columbia, and 1 in each of the provinces of Nova Scotia, Manitoba and Saskatchewan.

<sup>2</sup> Includes also data for 2 plants in Quebec and 1 in each of the provinces of New Brunswick and Alberta.

**Employment.**—Oil refineries in Canada in 1925 employed 425 salaried employees and 3,230 wage-earners as compared with 412 salaried employees and 3,191 wage-earners in 1924. Salaries amounted to \$913,688 and wages totalled \$4,708,210, a total of \$5,621,898 as compared with \$5,623,978 in 1924. There is evidence of a slight seasonal trend to the industry, employment being greater in the summer months. In January, there were 3,119 wage-earners employed and a steady increase was recorded until in August 3,519 names were on the rolls of the various refineries; then the number of workers gradually declined until in December only 3,055 persons were employed.

In the compounding and blending of oils only 83 people were employed, of whom 39 were on salaries and 44 on wages. Payments in wages and salaries totalled \$153,148. In the previous year, 1924, only 66 people were employed and payments in salaries and wages totalled \$125,727.

The larger refineries operated continuously during the year but some of the smaller establishments worked only part of the time; the average number of working days for oil refineries was 304, and for the lubricating oils and greases industry the average number was 280.

Table 146.—Average Number of Employees, Salaries and Wages Paid in the Petroleum Products Industry in Canada, by Provinces, 1924 and 1925

Province	Average number of employees				Salaries and wages			
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Male	Female				
<b>1924</b>						\$	\$	\$
<b>Petroleum refining:</b>								
Ontario.....	134	30	1,421	18	1,603	334,875	2,118,207	2,453,082
Alberta.....	41	6	366	1	414	92,673	575,560	668,243
Canada <sup>1</sup> .....	352	60	3,168	23	3,663	866,974	4,732,004	5,623,978
<b>Lubricating oils and greases:</b>								
Ontario.....	26	3	18		47	74,505	19,560	94,065
Canada <sup>2</sup> .....	32	4	27	3	66	94,307	31,420	125,727
<b>1925</b>								
<b>Petroleum refining:</b>								
Ontario.....	140	34	1,589	10	1,779	354,581	2,347,453	2,702,034
Alberta.....	32	4	187	2	225	86,833	283,924	370,757
Canada <sup>1</sup> .....	364	61	3,210	20	3,655	913,688	4,708,210	5,621,898
<b>Lubricating oils and greases:</b>								
Ontario.....	23	2	19	1	45	72,464	23,232	95,696
Canada <sup>2</sup> .....	32	7	40	4	83	101,252	51,896	153,148

<sup>1</sup> Includes also data for 2 plants in Quebec, 2 in British Columbia, and 1 in each of the provinces of Nova Scotia, Manitoba and Saskatchewan.

<sup>2</sup> Includes also data for 2 plants in Quebec and 1 in each of the provinces of New Brunswick and Alberta.

Table 147.—Number of Wage-Earners Employed in the Petroleum Products Industry in Canada, by Months, 1924 and 1925

Month	1924				1925			
	Petroleum refining		Lubricating oils and greases	Total	Petroleum refining		Lubricating oils and greases	Total
	Male	Female			Male	Female		
January	3,073	20	23	3,116	3,103	16	40	3,159
February	2,930	19	27	2,976	3,001	20	39	3,060
March	2,953	23	25	3,001	3,133	19	40	3,192
April	3,136	22	28	3,186	3,172	19	42	3,233
May	3,265	22	20	3,316	3,238	18	46	3,302
June	3,234	23	27	3,284	3,315	17	43	3,375
July	3,257	18	27	3,302	3,403	18	45	3,466
August	3,348	19	28	3,395	3,497	22	46	3,565
September	3,300	20	28	3,348	3,328	22	43	3,393
October	3,194	27	26	3,247	3,193	23	46	3,262
November	3,091	26	25	3,142	3,081	23	46	3,150
December	2,973	26	24	3,023	3,031	24	43	3,098
Average	3,168	23	30	3,221	3,210	20	44	3,274

**Fuel.**—Fuel used in this industry cost \$3,447,130 in 1925 and \$3,586,532 in the previous year. A large amount of heat is required for distillation purposes and the location of the plant determines the type of fuel used. In 1925, more money was spent for fuel oil than for coal; over 33 million gallons of fuel oil worth \$1,873,426 and 179,873 tons of bituminous coal and 19,543 tons of anthracite at a total cost of \$861,715 were used during 1925. Considerable gas and coke were also used.

Table 148.—Fuel and Electricity Used in the Petroleum Products Industry in Canada, 1924 and 1925

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
			\$		\$
Anthracite coal	Short ton	18,692	100,225	19,543	102,660
Bituminous coal	Short ton	189,571	877,851	179,873	759,055
Coke	Short ton	18,790	90,802	5,192	30,771
Fuel oil	Gallon	42,181,592	1,901,128	30,227,328	1,873,426
Gasoline	Gallon	642,825	30,002	4,723	769
Gas	M cu. ft.	1,372,675	326,562	1,020,044	360,917
Wood	Cord	35	92	6	60
Other fuel			86,677		136,054
Electric power	K. W. H.	15,506,873	173,133	15,605,121	183,418
<b>Total</b>			<b>3,586,532</b>		<b>3,447,130</b>

Table 149.—Power Equipment Employed in the Petroleum Products Industry in Canada, 1924 and 1925

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines	273	9,072	274	9,170
Gas engines	15	970	2	8
Oil and gasoline engines	9	1,040	7	1,028
<b>Total primary power</b>	<b>297</b>	<b>11,082</b>	<b>283</b>	<b>10,206</b>
Electric motors driven by purchased power	225	5,859	295	7,294
<b>Total power equipment employed</b>	<b>522</b>	<b>16,941</b>	<b>578</b>	<b>17,500</b>
Electric motors driven by power generated by the primary power of the industry	105	2,542	68	1,634
<b>Total electric motors</b>	<b>330</b>	<b>8,401</b>	<b>363</b>	<b>8,928</b>
Boilers installed	98	18,001	94	20,235

**Materials Used.**—In 1925, the total amount of money spent for materials used in oil refineries was \$37,814,303 as compared with \$36,669,292 in 1924. Most of the oil refined in Canada is imported; in 1925, a total of 433 million gallons of crude imported oil was used in the various refineries and of this total 317,831,156 gallons came from United States, 43,806,061 gallons from Mexico and 71,141,285 gallons from Peru. Only 12,337,192 gallons of Canadian oil, which also includes naphtha from the Royalite well in Alberta, entered the refineries in 1925. The establishments located in British Columbia, Nova Scotia and Quebec obtained oil from United States, Mexico and Peru; the plants in Ontario brought in oil from the fields in the United States and also used considerable of the domestic production of petroleum; 2 plants in the prairie provinces used Canadian oil only and 3 imported oil from United States. Of a total of almost 38 million dollars paid out for materials, over 92 per cent or \$34,855,185 was paid for crude oil. Caustic soda, sulphuric acid, litharge and compounding materials of all kinds were among the other materials used. Containers of all kinds reached a total cost of \$1,516,384.

In the manufacture of lubricating oils and greases purchased, materials cost \$446,721 as against a figure of \$423,419 in 1924. Mineral and animal oils, gasoline and kerosene were the principal items on the list.

**Table 150.—Materials Used in the Petroleum Products Industry in Canada, 1924 and 1925**

Material	Unit of measure	1924		1925	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
<b>Petroleum refining:</b>					
Crude oil (Canadian).....	Imp. gal.	5,172,903	403,699	12,337,192	1,511,181
Crude oil (imported).....	Imp. gal.	461,971,731	33,018,299	432,778,502	33,344,004
Sulphuric acid, 60° Bé.....	Pound	57,693,733	605,383	12,843,604	447,528
Sulphur (not used in acid manufacture).....	Pound	90,955	2,625	131,265	3,988
Caustic soda.....	Pound	3,706,825	146,812	4,220,371	154,150
Litharge.....	Pound	315,723	30,197	549,450	59,825
Fullers' earth.....	Pound	954,623	13,495	1,281,190	14,433
Soda ash.....	Pound	152,958	10,953	287,648	5,619
Compounding material.....			736,514		510,735
All other materials.....			224,779		246,456
Shipping containers (boxes, barrels, cums, etc.).....			1,477,073		1,516,384
<b>Total.....</b>			<b>36,669,292</b>		<b>37,814,303</b>
<b>Lubricating oils and greases:</b>					
Animal oils.....	Imp. gal.	26,183	25,779	32,438	30,656
Mineral oils.....	Imp. gal.	1,048,826	232,295	948,110	209,803
Lubricating oil.....		36,900	12,600	30,000	10,500
Other oils.....	Imp. gal.		8,002		54,459
Tallow.....	Pound	208,831	50,242	150,852	50,990
Soap grease.....	Pound	32,876	3,942	56,496	8,192
Gasoline and kerosene.....	Imp. gal.	225,415	43,975	210,600	41,078
Red lead.....	Pound	69,600	7,678	64,800	7,700
Containers, boxes, etc.....			16,229		19,055
All other materials.....			22,077		14,282
<b>Total.....</b>			<b>423,419</b>		<b>446,721</b>
<b>Total.....</b>			<b>37,092,711</b>		<b>38,261,024</b>

**Products.**—Refinery production in Canada in 1925 reached a value of \$49,802,615 an increase of more than a million dollars over 1924, and the output of lubricating oils, greases, etc., was valued at \$959,512 as compared with \$733,720 in the previous year. The total production for the industry was valued at \$50,762,127 as against \$49,411,067 in 1924, and of this amount 2.4 million dollars represented the value of intermediate products used chiefly as a fuel in the different refineries.

Production of gasoline was about 5 million gallons above the output for 1924; kerosene at 45 million gallons showed a decline of 36 per cent from the previous year. Other products made in 1925 included 172 million gallons of fuel and gas oils, 15 million gallons of lubricating oils, 9 million pounds of greases, 20 million pounds of asphalt and 16 million pounds of wax and candles.

Table 151.—Products of the Petroleum Products Industry in Canada, 1924 and 1925

Product	Unit of measure	1924		1925	
		Quantity	Selling value at plant	Quantity	Selling value at plant
<b>PETROLEUM REFINING:</b>					
(a) Made for sale—					
Gasoline.....	Imp. gal.	160,022,541	25,796,047	164,649,475	27,585,651
Petroleum spirits.....	Imp. gal.	748,529	132,047	1,147,656	190,596
Kerosene.....	Imp. gal.	61,276,285	7,483,057	44,902,566	5,962,898
Fuel and gas oils.....	Imp. gal.	134,941,640	7,169,187	135,954,156	7,771,405
Lubricating oils.....	Imp. gal.	14,329,530	2,582,800	14,787,788	2,694,736
Grease.....	Pound	10,001,621	184,571	9,073,821	183,995
Tar.....	Imp. gal.	16,690	1,947	108,504	7,790
Asphalt.....	Imp. gal.	20,170,503	1,816,772	19,940,729	1,845,402
Petroleum coke.....	Short ton.	30,566	221,668	28,855	218,105
Wax and candles.....	Pound	9,112,041	551,422	15,736,670	731,308
Other products.....			318,773		179,573
<b>Total.....</b>			<b>46,258,331</b>		<b>47,383,459</b>
(b) Intermediates made for use (chiefly as fuel)—					
Gasoline.....	Imp. gal.	23,198	3,172	20,597	3,386
Kerosene.....	Imp. gal.	32,182	2,985	33,893	4,015
Fuel and gas oils.....	Imp. gal.	42,181,592	1,307,559	30,433,086	1,880,850
Lubricating oils.....	Imp. gal.	12,384	2,917	14,198	2,406
Petroleum coke.....	Short ton	7,536	48,735	5,163	30,586
Acid coke.....	Short ton	11,223	42,118	9,170	33,014
Acid oil.....	Imp. gal.	1,568,094	71,672	1,395,470	64,030
Still gas.....	M cu. ft.	1,186,787	302,946	1,019,755	360,646
Other products.....			36,912		40,223
<b>Total.....</b>			<b>2,419,016</b>		<b>2,410,150</b>
<b>Total, made for sale and for use.....</b>			<b>48,677,347</b>		<b>49,802,615</b>
<b>LUBRICATING OILS AND GREASES:</b>					
Lubricating oil.....	Imp. gal.	1,137,545	475,399	987,866	434,492
Core oil.....	Imp. gal.	40,915	22,250	14,997	12,056
Soaps.....	Pound	559,446	64,933		76,725
Greases.....	Pound	423,000	76,020		63,914
Other products.....			64,570		372,325
Receipts from custom work and repairs.....			30,548		
<b>Total.....</b>			<b>733,720</b>		<b>959,512</b>
<b>Total.....</b>			<b>49,411,067</b>		<b>50,762,127</b>

**Primary Production of Crude Petroleum.**—(From the annual *Report on the Mineral Production of Canada, 1925.*)—Production of crude petroleum in Canada in 1925 amounted to 332,001 barrels valued at \$1,250,705 as compared with 160,773 barrels valued at \$467,400 in 1924, an increase of approximately 100 per cent.

Encouraging results met the efforts of producers in the Alberta fields during 1925. In the Turner Valley field the Royalite Well No. 4, a wet-gas producer, averaged 500 barrels of crude naphtha per day. A pipe line was constructed during the year to convey this product to the Imperial Oil Refinery at Calgary.

The Royalite Company is drilling two other wells in the Turner Valley field, viz.: Royalite Nos. 5 and 6. Properties formerly controlled by the Southern Alberta Oils, Limited, have been taken over by the Imperial Oil Company through its subsidiary, the Dalhousie Oils, Ltd. The McLeod Oil Company, Indian-Alberta Oil Co., Canada Southern Oil and Refining Co., and British Petroleums, Ltd., were also producers during the year under review. Activities in the Wainwright field were centred chiefly around the operations of British Petroleums, Ltd. Drilling is still being carried on by a number of companies in the Coutts-Sweetgrass field. The Fort Norman drilling operations have been discontinued for the present. There is a possibility of a small refinery being erected at Fort Norman to supply the oil requirements of the Hudson Bay Company in the North. The capacity of the productive well in this district is estimated at 100 barrels per day.

Col. R. B. Harkness, commissioner of gas for Ontario, reports that exploring for oil was carried on in the province during 1925 to a considerable extent. Wells were drilled in the following localities: near Mitchell in Logan township, Perth county; four miles east of Brantford, near Sixty Nine Corners, Tuscarora Township, Brant county; Thamesville, Zone township; Vaughan township, northwest of Toronto; and at Bond Lake, 20 miles north of Toronto.

Table 152.—Imports into Canada and Exports of Petroleum and its Products, 1924 and 1925

	1924		1925		
	Quantity	Value	Quantity	Value	
		\$		\$	
<b>IMPORTS—</b>					
Crude petroleum in the natural state, .7900 specific gravity or heavier at 60 degrees temperature, when imported by oil refiners to be refined in their own factories.....	Gals.	465,958,509	20,260,488	436,258,650	23,414,827
Crude petroleum, gas oils other than naphtha, benzine and gasoline lighter than .8235 but not less than .775 specific gravity at 60 degrees.....	Gals.	139,745	10,875	4,181,914	227,378
Petroleum (not including crude petroleum imported to be refined or illuminating or lubricating oils) .8235 specific gravity or heavier at 60 degrees temperature.....	Gals.	94,104,526	4,122,333	103,667,295	4,690,001
Petroleum, imported by miners or mining companies or concerns, for use in the concentration of ores or metals in their own concentrating establishments.....	Gals.	139,473	35,880	129,665	26,251
Petroleum, crude not 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.....	Gals.	55,758	3,953	49,149	2,910
<b>KEROSENE AND ILLUMINATING OILS</b>					
Coal oil and kerosene, distilled, purified or refined, n.o.p.....	Gals.	5,410,973	444,646	4,860,876	391,538
Illuminating oils, composed wholly or in part of the products of petroleum, coal, shale or lignite, costing more than 30 cents per gallon.....	Gals.	10,655	4,215	2,451	1,776
Coal oil and kerosene, distilled, known as "engine distillates", .735 specific gravity and heavier, but not heavier than .770 specific gravity at 60 degrees temperature.....	Gals.	20,420	2,942	395,785	63,587
<b>LUBRICATING OILS</b>					
Lubricating oils, composed wholly or in part of petroleum, and costing less than 25 cents per gallon.....	Gals.	3,975,337	728,250	3,813,543	712,850
Lubricating oils, n.o.p.....	Gals.	4,521,086	714,403	4,632,195	1,770,739
<b>OTHER OILS</b>					
Gasoline under .725 specific gravity at 60 degrees temperature.....	Gals.	56,389,078	7,138,561	58,993,020	8,388,057
Gasoline .725 specific gravity but not heavier than .770 specific gravity at 60 degrees temperature.....	Gals.	17,094,248	2,166,847	24,897,661	3,204,479
Gasoline, n.o.p.....	Gals.	284,115	38,745	37,070	7,093
All other oils, n.o.p.....	Gals.	260,901	119,088	201,633	109,348
<b>OTHER PRODUCTS OF PETROLEUM</b>					
Grease, axle.....	Lb.	2,853,720	165,694	3,776,077	230,151
Paraffine wax.....	Lb.	837,317	65,792	1,601,505	124,234
Paraffine wax candles.....	Lb.	202,565	30,884	208,887	46,257
Vaseline and all similar preparations of petroleum for toilet, medicinal or other purposes.....			195,157		214,464
Petroleum products of, n.o.p.....	Gals.	1,298,590	242,906	1,348,176	213,577
<b>Total</b> .....			<b>37,498,639</b>		<b>43,842,427</b>
<b>EXPORTS—</b>					
Oil, coal and kerosene, crude.....	Gals.	18,263,236	529,497	7,375,163	246,512
Oil, coal and kerosene, refined.....	Gals.	1,525,427	165,520	1,598,686	155,783
Oil, gasoline and naphtha.....	Gals.	1,403,716	256,966	1,568,855	332,330
Oil, mineral, n.o.p.....	Gals.	627,071	161,259	1,473,779	287,463
Wax, mineral.....	Cwt.	33,171	147,810	14,541	82,999
<b>Total</b> .....			<b>1,261,652</b>		<b>1,266,067</b>

Table 153.—Production, Imports, Exports and Apparent Consumption of Certain Petroleum Products in Canada, 1920-1925

		Production	Imports	Exports	Re-Exports	Apparent consumption
<b>FUEL AND GAS OILS—</b>						
1920.....	Imp. gals.	96,462,792	122,929,391	2,684,427		216,707,650
	\$	10,341,946	7,810,006	293,325		17,867,627
1921.....	Imp. gals.	129,716,045	61,398,671	5,384,751		185,729,965
	\$	6,611,261	3,805,714	375,820		10,011,155
1922.....	Imp. gals.	106,975,976	72,805,012	7,036,627		172,744,361
	\$	6,142,927	3,091,290	288,828		8,945,389
1923.....	Imp. gals.	139,689,570	108,982,780	2,384,899		246,280,451
	\$	7,973,766	4,245,101	138,381		12,080,486
1924.....	Imp. gals.	177,123,232	94,244,271	18,263,236		253,104,267
	\$	9,076,746	4,133,208	529,497		12,680,457
1925.....	Imp. gals.	172,387,242	107,849,209	7,375,163		272,861,288
	\$	9,652,255	4,918,279	346,512		14,224,022
<b>GASOLINE—</b>						
1920.....	Imp. gals.	86,193,664	8,515,545	160,433	214,634	94,334,133
	\$	28,272,903	2,404,488	59,432	83,778	30,534,180
1921.....	Imp. gals.	119,887,613	40,264,707	762,080	10,492	159,379,748
	\$	31,026,136	7,161,458	212,639	3,917	38,421,039
1922.....	Imp. gals.	143,959,893	42,112,248	1,976,244	27,620	184,068,277
	\$	34,428,189	8,700,924	510,037	6,706	42,672,370
1923.....	Imp. gals.	124,156,380	49,950,660	1,217,298		172,889,742
	\$	22,153,254	7,160,632	263,326		29,050,560
1924.....	Imp. gals.	160,945,739	73,757,441	1,403,716	75,223	232,324,241
	\$	25,799,219	9,344,153	256,966	20,715	34,865,691
1925.....	Imp. gals.	164,679,072	83,927,751	1,568,855	42,594	246,986,374
	\$	27,589,037	11,599,029	333,330	11,788	38,843,548
<b>LUBRICATING OILS—</b>						
1920.....	Imp. gals.	25,099,798	4,464,294			20,564,092
	\$	6,327,134	2,443,089			8,770,223
1921.....	Imp. gals.	24,246,320	5,040,456			20,286,776
	\$	5,221,487	1,034,561			7,156,048
1922.....	Imp. gals.	18,051,000	7,110,054			25,161,054
	\$	3,551,478	2,132,695			5,684,173
1923.....	Imp. gals.	17,121,896	8,196,682			25,318,579
	\$	3,237,526	2,310,950			5,548,476
1924.....	Imp. gals.	15,479,465	8,494,423			23,975,888
	\$	3,061,116	2,442,653			5,503,769
1925.....	Imp. gals.	15,789,852	8,445,738			24,235,590
	\$	3,131,634	2,483,589			5,615,223
<b>KEROSENE—</b>						
1920.....	Imp. gals.	54,155,655	14,971,509	1,243,335		67,883,829
	\$	10,887,972	2,350,621	205,909		13,041,594
1921.....	Imp. gals.	59,082,790	10,544,281	1,466,422		68,160,641
	\$	7,537,479	790,468	209,282		8,118,656
1922.....	Imp. gals.	76,521,560	3,073,234	1,471,947		78,722,847
	\$	9,628,804	314,514	130,834		9,806,484
1923.....	Imp. gals.	67,396,074	4,127,146	1,450,051		70,073,769
	\$	8,774,371	323,396	139,924		8,957,843
1924.....	Imp. gals.	61,308,467	5,431,393	1,525,427		65,211,433
	\$	7,486,042	447,588	165,520		7,768,110
1925.....	Imp. gals.	45,026,459	5,256,661	1,508,686		48,774,434
	\$	5,966,913	455,125	155,783		6,266,255

Table 154.—Production of Crude Petroleum in Canada, 1924 and 1925

Province	1924				1925			
	Barrels	Value less bounty	Bounty paid	Total value	Barrels	Value less bounty	Bounty paid	Total value
		\$	\$	\$		\$	\$	\$
New Brunswick.....	5,561	18,520	2,793	21,313	5,376	16,805	1,951	18,756
Ontario—								
Petrolia and Enniskillen.....	60,916	140,427	24,327	173,754	52,481	133,301	7,923	141,224
Oil Springs.....	41,320	104,250	16,816	121,066	39,137	102,148	5,627	107,775
Moore Township.....	4,483	10,997	2,069	13,066	8,195	20,815	576	21,391
Sarnia Township.....	2,068	5,073	1,033	6,106	1,905	4,839	379	5,218
Plympton Township.....	525	1,288	234	1,522	1,424	3,617	184	3,801
Bothwell.....	26,700	65,655	10,728	76,383	26,243	66,657	3,680	70,337
Tilbury East.....								
West Dover.....	3,898	9,585	1,740	11,325	1,820	4,766	399	5,165
Raleigh Township.....	834	2,047	299	2,346	887	2,253	156	2,409
Dutton.....					146	381	38	419
Onondaga.....	456	1,109	213	1,322	81	210	9	219
Moza Township.....	8,802	21,074	3,605	24,679	8,399	21,328	1,181	22,509
Euphemia.....					39	106		106
Elgin Township.....								
Romney Township.....	2,955	7,074		7,074	1,235	3,076		3,076
Dunwich.....	1,351	3,309		3,309	855	2,172		2,172
Thamesville.....					289	734		734
Total for Ontario.....	154,368	380,888	61,064	441,952	143,134	366,403	20,152	386,555
Alberta.....	844	4,135		4,135	183,491	845,394		845,394
Total for Canada.....	160,773	403,543	63,857	467,400	332,001	1,228,602	22,103	1,250,705

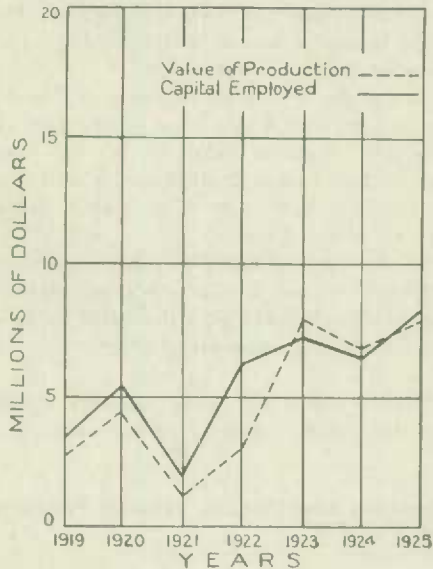


## CHAPTER TWELVE

### MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS

**General.**—Under this heading are included the industries making (a) artificial abrasives and abrasive products; (b) graphite products such as carbon electrodes; (c) gypsum products including wall board, plaster castings and models, etc.; (d) products of the mica-trimming shops; (e) miscellaneous products such as foundry supplies, facings, etc. In 1925 this group included 35 plants, gave employment to 1,316 persons and had a combined production valued at \$7,978,183. The abrasive industry is by far the most important of this

#### MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY



group with a production worth \$5,909,318; gypsum products were worth \$1,001,509; graphite products, mica products and miscellaneous non-metallic mineral products followed in order of importance. Short reviews of each industry have been included before the general tables relating to the group as a whole.

(a) **ARTIFICIAL ABRASIVES AND ABRASIVE PRODUCTS.**—Production of artificial abrasives such as crude carborundum, firesand and fused alumina was valued at \$5,186,802 during 1925, and the output of abrasive products, ferrosilicon and other products were sold for \$722,516, making a total production value for the industry of \$5,909,318 as compared with a corresponding figure of \$5,628,653 in 1924. Capital employed in the industry amounted to \$6,160,392, of which 3.7 million dollars represented the value of lands, buildings and plant equipment. Employment was given the year round to 81 salaried employees and 517 wage-earners and payments in salaries and wages during the year amounted to \$853,458. The total cost of materials was \$2,006,618 and, as the products sold for \$5,909,318, the value added by manufacturing processes amounted to \$3,902,700.

In 1925, there were 13 plants in Canada making artificial abrasives or abrasive products. Artificial abrasives were made in 5 different plants of which 4 were in Ontario and 1 in Quebec, while 8 plants in Ontario manufactured grinding wheels, sandpaper and similar products. In the previous year, 1924, only 12 plants were included in the industry; the additional report received in 1925 covered the operations of the sandpaper department of a large concern engaged in the manufacture of glue, sandpaper and other products.

(b) **GRAPHITE PRODUCTS.**—Graphite electrodes were made in Canada at Niagara Falls, Ontario, and at Welland, Ontario. As there were only 2 plants in operation in this industry, no separate data can be given in this review.

(c) **GYPSUM PRODUCTS.**—The gypsum products industry in Canada includes those firms engaged in the manufacture of gypsum wallboard, wall coating and plaster of Paris models and statues. Complete figures on this industry have been somewhat difficult to obtain as some companies who quarry the gypsum also calcine their product and operate plants for the production of wall plaster, wallboard, and similar gypsum products; where these latter plants are distinct from the quarrying plants, separate data have been obtained, but in one or two cases no separation could be made. The directory on page 127 shows the firms included under this review.

In 1925, there were 6 plants in Ontario and 2 plants in Quebec included in this industry. Capital invested amounted to \$640,486, employees numbered 213, and salaries and wages totalled \$271,429. The cost of materials was given at \$348,046, and the value of products amounted to \$1,001,509. Wall coating, gypsum board and gypsum blocks were made in 3 different plants in this industry and the output was valued at \$864,483; in addition hard-wall plaster, tile, wallboard, etc., to the value of \$1,429,019 were made in plants from which no separation of other data was obtained. Staff plaster castings and ornamental plaster works were made in 3 small plants while the 2 other plants included in this review made small quantities of stucco materials and cement tile.

(d) MICA TRIMMING.—The mica industry is centred in the provinces of Ontario and Quebec. The industry as reviewed herein includes only those concerns that buy the rough-cobbed or knife-trimmed mica and are engaged only in trimming or splitting of same for the market. Many of the mica mining companies operate their own trimming shops, but no separation of data has been obtained from these operators and their output is included with the primary production of mica as shown in the annual *Report on the Mineral Production of Canada*. An extract from this latter review has been appended to this chapter so statistics for the whole industry may be readily available to the reader. The directory of firms on page 128 shows the firms included in the present review.

In 1925, there were 10 plants in Quebec and 1 in Ontario, a total of 11 plants in Canada engaged only in the trimming or splitting of mica, as compared with a total of 16 plants in the previous year. Five plants in Quebec did not operate during 1925. Of the reporting plants 7 were engaged only in the splitting of knife-trimmed mica, 2 other plants produced trimmed mica and mica splittings, 1 other plant reported a production of mica plate, tubes and splittings, and 1 plant produced ground mica and trimmed mica.

Capital employed in the 11 active plants in 1925 amounted to \$521,570; salaries amounting to \$29,116 were paid to 26 employees, and \$114,800 were paid in wages to an average of 20 male and 376 female wage-earners; materials used cost \$156,818, and the value of products was given at \$352,147, making thus a value of \$195,329 being added by the trimming and splitting processes.

(e) MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS.—In 1925, there was only 1 firm in Canada included under this classification. Foundry supplies such as facings sand, etc., were among the main products of this firm.

**Table 155.—Summary Statistics of the Miscellaneous Non-Metallic Mineral Products Industry in Canada, 1921-1925**

Year	Number of plants	Capital employed	Number of employees	Salaries	Wages	Cost of fuel*	Cost of materials	Selling value of products	Value added by manufacturing
		\$		\$	\$	\$	\$	\$	
1921.....	23	2,253,322	902	123,365	287,679	46,795	558,517	1,256,938	703,421
1922.....	26	6,354,115	1,371	175,973	546,167	73,960	1,318,652	3,015,530	1,696,887
1923.....	38	7,262,403	2,917	250,218	1,242,628	90,596	2,879,015	8,147,331	5,268,316
1924.....	36	6,659,059	1,767	262,573	1,066,403	564,220	2,427,145	6,991,904	4,564,759
1925.....	35	8,322,096	1,316	297,567	1,074,328	592,327	2,686,856	7,978,183	5,291,227

\* Includes electricity in 1924 and 1925.

**Table 156.—Principal Statistics of the Miscellaneous Non-Metallic Mineral Products Industry in Canada, 1924 and 1925**

Province	1924				1925			
	Number of plants	Number of employees	Salaries and wages	Selling value of products	Number of plants	Number of employees	Salaries and wages	Selling values of products
			\$	\$			\$	\$
Quebec.....	17	960	333,177	1,306,433	13	553	334,547	1,237,149
Ontario.....	19	807	995,799	5,685,471	22	763	1,037,348	6,741,034
<b>Canada.....</b>	<b>36</b>	<b>1,767</b>	<b>1,328,976</b>	<b>6,991,904</b>	<b>35</b>	<b>1,316</b>	<b>1,371,895</b>	<b>7,978,183</b>

**Table 157—Capital Employed in the Miscellaneous Non-Metallic Mineral Products Industry in Canada, by Classes and by Provinces, 1924 and 1925**

Province	1924				1925			
	Capital employed as represented by				Capital employed as represented by			
	Lands, buildings, fixtures, machinery and tools	Materials on hand, and stocks in process	Cash, trading and operating accounts and bills receivable	Total	Lands, buildings, fixtures, machinery and tools	Materials on hand, and stocks in process	Cash, trading and operating accounts and bills receivable	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Quebec.....	1,246,191	478,658	216,084	1,941,533	1,308,598	503,340	605,325	2,417,263
Ontario.....	2,854,303	1,102,188	701,035	4,717,526	3,185,718	1,165,780	1,553,335	5,904,833
<b>Canada.....</b>	<b>4,100,494</b>	<b>1,640,846</b>	<b>917,719</b>	<b>6,659,059</b>	<b>4,494,316</b>	<b>1,669,120</b>	<b>2,158,660</b>	<b>8,322,096</b>

**Table 158.—Number of Employees, Salaries and Wages Paid in the Miscellaneous Non-Metallic Mineral Products Industry in Canada, 1924 and 1925**

	1924			1925			
	Male	Female	Total	Male	Female	Total	
(a) NUMBER OF EMPLOYEES:							
Salaries employees.....	110	43	153	122	35	157	
Wage-earners, by months:							
January.....	789	975	1,764	730	360	1,090	
February.....	764	1,156	1,920	746	366	1,112	
March.....	768	674	1,442	759	370	1,129	
April.....	782	596	1,378	778	384	1,162	
May.....	795	485	1,280	768	422	1,190	
June.....	756	503	1,259	760	400	1,160	
July.....	747	447	1,194	787	496	1,283	
August.....	727	456	1,183	740	455	1,195	
September.....	712	419	1,131	747	391	1,138	
October.....	690	446	1,135	751	413	1,164	
November.....	677	418	1,095	760	421	1,181	
December.....	670	354	1,024	766	331	1,097	
Average.....	748	866	1,614	765	394	1,159	
<b>Total employees.....</b>	<b>858</b>	<b>999</b>	<b>1,767</b>	<b>887</b>	<b>429</b>	<b>1,316</b>	
(b) SALARIES AND WAGES:							
Salaries..... \$			262,573			297,567	
Wages..... \$			1,066,463			1,074,328	
<b>Total..... \$</b>			<b>1,329,036</b>			<b>1,371,895</b>	
(c) HOURS OF LABOUR:				8 hours or less per day	9 hours	10 hours	Over 10 hours
(In month of greatest employment).							
Number of wage-earners working.....				500	406	356	50
Average hours worked per man per week.....				48	51	58	73

**Table 159.—Fuel and Electricity Used in the Miscellaneous Non-Metallic Mineral Products Industry in Canada, 1924 and 1925**

Kind	Unit of measure	1924		1925	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
Anthracite coal.....	Short ton	295	4,122	333	4,400
Bituminous coal.....	Short ton	6,587	44,231	9,548	62,682
Coke.....	Short ton	3	31	25	248
Gasoline.....	Gallon			90	18
Fuel oil.....	Gallon	4,197	365	8,523	342
Gas.....	M cu. ft.	1,896	1,527	1,348	604
Wood.....	Cord	158	578	122	415
Electric power.....	K.W.H.	186,112,355	513,366	196,058,070	523,509
Other.....					100
<b>Total.....</b>			<b>564,220</b>		<b>592,327</b>

**Table 160.—Power Employed in the Miscellaneous Non-Metallic Mineral Products Industry in Canada, 1924 and 1925**

Description	1924		1925	
	Number of units	Total h.p. according to manufacturers' rating	Number of units	Total h.p. according to manufacturers' rating
Steam engines and turbines.....	1	50	2	150
Total primary power.....	1	50	2	150
Electric motors driven by purchased power.....	220	159,166	277	158,936
<b>Total power equipment employed.....</b>	<b>221</b>	<b>159,216</b>	<b>279</b>	<b>159,086</b>
Electric motors driven by power generated by the primary power of the industry.....	63	401	80	442
<b>Total electric power.....</b>	<b>283</b>	<b>159,567</b>	<b>357</b>	<b>159,378</b>
Boilers installed.....	10	820	10	965

**Table 161.—Materials Used in the Miscellaneous Non-Metallic Mineral Products Industries in Canada, 1924 and 1925**

Material	Unit of measure	1924		1925	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
<b>ARTIFICIAL ABRASIVES AND ABRASIVE PRODUCTS—</b>					
Bauxite, silica sand, coke, iron borings, mill scale, and electrodes.....			1,495,786		1,658,526
Artificial abrasive grains, such as alundum, aloxite and silicon carbide.....			63,446		112,120
Natural abrasive grains, such as corundum, silica sand, flint and garnet.....			28,976		39,512
Clays.....			6,503		361
Containers, boxes, etc.....			17,523		17,089
All other materials including unfinished wheels and specialties, lead for bushings, etc.....			252,741		178,410
<b>Total.....</b>			<b>1,864,975</b>		<b>2,006,618</b>
<b>GYPSUM PRODUCTS:</b>					
Materials used including glue, gypsum, clay, whiting, colours, plaster of Paris.....			315,556		348,046
<b>MICA TRIMMING:</b>					
Knife trimmed mica.....	Lb.	458,833	104,611	404,715	94,428
No. 5 and 6 Madagascar block mica.....	Lb.	16,237	3,888	27,583	5,813
Thumb trimmed mica.....	Lb.	79,879	22,606	104,832	22,048
India splittings.....	Lb.	9,077	1,997	7,931	1,745
India and amber cut and uncut mica.....	Lb.	3,357	7,207	2,723	4,084
Manufactured plate from U.S.A.....	Lb.	7,400	8,892	7,327	8,792
Mica.....	Lb.	62,960	15,195		
Rough mica.....	Lb.	36,182	3,647		
Thumb trimmed amber mica.....	Lb.	40,243	8,774	61,293	16,549
Containers, boxes, etc.....			577		695
All other materials.....			4,069		2,664
<b>Total.....</b>			<b>181,463</b>		<b>156,818</b>
<b>OTHER MISCELLANEOUS INDUSTRIES:</b>					
Materials used in the manufacture of artificial graphite, carbon electrodes, foundry facings and supplies, etc.....			65,151		175,374
<b>Total.....</b>			<b>2,427,145</b>		<b>2,696,856</b>

Table 162.—Products of the Miscellaneous Non-Metallic Mineral Products Industries in Canada, 1924 and 1925

Product	Unit of measure	1924		1925	
		Quantity	Selling value	Quantity	Selling value
<b>ARTIFICIAL ABRASIVES AND ABRASIVE PRODUCTS</b>					
Crude carborundum, fire sand, and aluminous abrasives such as aloxite, alundum, fused alumina, etc.			\$ 4,990,441		\$ 5,186,802
Grinding wheels, abrasive wheels, razor hones and alundum tiles			432,161		431,550
All other products including ferrosilicon, abrasive paper, abrasive cloth, etc.			206,051		290,966
<b>TOTAL</b>			<b>5,628,653</b>		<b>5,909,318</b>
<b>PLASTER CASTINGS AND MODELS:</b>					
Products made including wall-coating, gypsum board, wall-board, plaster castings, statues, etc.			791,363		1,001,509
<b>MICA TRIMMING:</b>					
Mica, knife trimmed and thumb-trimmed	Lb.	95,420	22,689	1,406,234	74,321
Mica splittings	Lb.	388,548	298,318	308,654	230,227
Mica plate, flexible, amber and commutator	Lb.	13,270	24,083	21,102	35,280
Mica n.e.s.			47,584		9,193
All other products			6,326		3,126
Amount received for custom work or repairs			20,897		
<b>TOTAL</b>			<b>419,877</b>		<b>352,147</b>
<b>OTHER MISCELLANEOUS INDUSTRIES:</b>					
Products made including artificial graphite, carbon electrodes, foundry facings and supplies			152,011		715,209
<b>Total</b>			<b>6,991,904</b>		<b>7,978,183</b>

**Imports and Exports of Abrasives.**—Imports into Canada of grindstones, burrstones, emery and other abrasive materials amounted in value to \$2,306,122 in 1925. Exports during the same year were valued at \$3,073,356; the greater part of this sum represented sales of artificial abrasive carborundum. Grindstones and stone for the manufacture of grindstones exported were valued at \$62,223; natural abrasives, \$464; and artificial abrasives, made up into wheels, stones, etc., totalled \$32,030 in value.

Table 163.—Imports into Canada and Exports of Abrasives, 1924 and 1925

		1924		1925	
		Quantity	Value	Quantity	Value
<b>IMPORTS—</b>					
Grindstones			\$ 593,670		\$ 661,352
Burrstones in blocks, etc.	No.	145	791	5	584
Emery in bulk, crushed or ground			53,208		223,598
Emery and carborundum wheels and manufactures			76,971		258,207
Pumice and pumice stone, ground			28,127		27,581
Iron sand or globules for polishing and sawing			17,985		11,702
Sandpaper, emery paper, etc.			279,586		305,042
Artificial abrasives			125,303		123,051
Diamond dust or bort and black diamonds for borers			309,736		694,406
<b>Total</b>			<b>1,575,376</b>		<b>2,306,122</b>
<b>EXPORTS—</b>					
Grindstones, manufactured			49,630		61,429
Stone for the manufacture of grindstones	Tons	120	1,080	93	794
<b>Abrasives—</b>					
Natural, n.o.p.	Cwt.	5,756	10,321	464	464
Artificial, crude, including carborundum	Cwt.	791,863	2,501,310	955,184	2,978,639
Artificial, made up into wheels, stones, etc.			13,264		32,030
<b>Total</b>			<b>2,665,655</b>		<b>3,073,356</b>

**Primary Production of Natural Abrasives.**—(From the annual *Report on the Mineral Production of Canada, 1925*.) **CORUNDUM.**—Corundum is found in an area embracing several townships in Renfrew and Hastings counties in the province of Ontario. The industry made its appearance there in 1900 and production reached a maximum in 1906. In 1921, grain corundum amounting to 403 tons valued at \$55,965 was exported to the United States. Since that date no shipments of corundum have been reported.

**GARNETS.**—A deposit of garnets in Ashby township, Ontario, was operated during 1923 and 1,250 tons of garnet concentrates and crude garnets were shipped to Niagara Falls, New York, for use as an abrasive material. In 1924, a shipment of 360 tons of garnets was made but there was no production of this commodity in 1925.

**GRINDING PEBBLES.**—Production of grinding pebbles in Canada during 1925 totalled 105 tons valued at \$945. These pebbles were gathered along the shore of Lake Superior near Jackfish, Ontario.

**GRINDSTONES, PULPSTONES AND SCYTHESTONE.**—Shipments of grindstones, pulpstones and scythestones from Canadian deposits amounted to 2,562 tons, valued at \$124,165, consisting of 439 tons from Nova Scotia; 1,642 tons from New Brunswick and 481 tons from British Columbia.

**Table 164.—Production of Grindstones, Pulpstones and Scythestones, in Canada, 1924 and 1925**

Province	1924		1925	
	Tons	Value	Tons	Value
		\$		\$
Nova Scotia .....	338	12,525	439	16,723
New Brunswick .....	2,113	99,299	1,642	79,661
British Columbia .....	240	19,000	481	27,781
<b>Total</b> .....	<b>2,691</b>	<b>130,824</b>	<b>2,562</b>	<b>124,165</b>

**TRIPOLITE.**—There was no production of tripolite in Canada during 1925. In the previous year 33 tons valued at \$838 were shipped from a deposit at Silica Lake, Colchester county, Nova Scotia.

**VOLCANIC ASH.**—A deposit of volcanic ash near Waldeck, Saskatchewan, was operated in 1925 and 160 tons worth \$1,380 were shipped. In 1924, the Canadian production was only 245 tons valued at \$1,103. This material is used as a base in the manufacture of cleansers.

**Primary Production of Graphite.**—(From the Annual *Report on the Mineral Production of Canada, 1925*.)—

The year under review marked a considerable advance in the production of graphite in Canada. The 1925 shipments totalling in all 2,569 tons, have been exceeded only by the production during the war years. In 1924 the sales amounted to 1,334 tons at \$76,117. The Black Donald Graphite Company; the Canadian Graphite Corporation; North American Graphite Company; Quebec Graphite Corporation; and the Timmins Graphite Company all reported shipments during 1925. The Graphite Refining Company reopened the old Globe mine, near Port Elmsley, Ontario.

Prices in the United States market are summed up in the *Engineering and Mining Journal* as follows:—

"With practically no graphite to be sold at sacrifice prices, as in former years, the prices for all grades of graphite increased during 1925. New York prices for Ceylon material averaged about as follows: No. 1 lump, 9½ to 0½c.; No. 2 lump, 8 to 8½c.; No. 1 chip, 7½ to 8c.; No. 2 chip, 7 to 7½c.; No. 1 dust, 5 to 6c.; No. 2 dust, 4 to 5c. per pound.  
"Flake graphite from Madagascar, after paying a duty of 1½c. per lb., sold in New York at 6 to 8c. per lb. The Canadian and domestic flake graphites seem to have commanded approximately the same prices."

Table 165.—Production, Imports and Exports of Graphite, 1924 and 1925

	1924		1925	
	Tons	Value	Tons	Value
		\$		\$
PRODUCTION.....	1,334	70,117	2,560	158,763
IMPORTS—				
Crucibles, plumbago.....		42,740		40,730
Plumbago not ground or otherwise manufactured.....		2,651		772
Plumbago ground and manufactures of, n.o.p.....		50,924		91,767
EXPORTS—				
Graphite or plumbago, crude or refined.....	1,148	59,902	2,483	135,897

**Primary Production of Gypsum.**—(From the annual *Report on the Mineral Production of Canada, 1925.*)—Increased production of gypsum in Nova Scotia was mainly responsible for the establishment of a new high record for this industry in 1925. The total output for Canada in 1925 was 740,323 tons with a valuation of \$2,389,891 as compared with 646,016 tons at \$2,208,108 in 1924. Production included lump, crushed, fine ground and calcined gypsum, the last-named item comprising sales and also the calcined gypsum used in the calcining plants for the production of wall plaster board, alabastine, and other gypsum products. The average values received by the operators were as follows: lump, \$1.51; crushed, \$1.83; fine ground, \$5.98; and calcined, \$8.62 per ton. The total gypsum mined during 1925 was 705,852 tons, of which quantity 162,820 tons or 23 per cent was calcined.

For statistical purposes, as noted above, the production of gypsum is considered to be the sum of the quantities disposed of in the different marketable forms, care being taken to avoid duplication; the values used are those at point of shipments.

Imports of gypsum into Canada were recorded at 8,921 with a valuation of \$136,308 as compared with a total of 7,323 tons at \$128,100 imported in 1924.

Exports of Canadian crude gypsum principally to the United States totalled 533,646 tons. Ground gypsum and prepared wall plaster exported during the year amounted to 5,643 tons; United States, Newfoundland, Australia and New Zealand were the principal importers of these materials.

Table 166.—Production of Gypsum in Canada, 1924 and 1925

	1924		1925	
	Tons	Value	Tons	Value
		\$		\$
Crude gypsum mined.....	703,733		705,852	
Crude gypsum calcined.....	144,734		162,820	
PRODUCTION— BY GRADES—				
Lump.....	130,618	253,191	131,612	198,806
Crushed.....	381,262	693,785	447,766	820,141
Fine ground.....	5,478	31,882	5,993	35,843
Calcined.....	119,658	1,229,250	154,952	1,335,101
<b>Total</b> .....	<b>646,016</b>	<b>2,208,108</b>	<b>740,323</b>	<b>2,389,891</b>
PRODUCTION BY PROVINCES—				
Nova Scotia.....	441,752	915,845	551,230	1,070,408
New Brunswick.....	86,738	476,804	71,745	408,017
Ontario.....	88,121	467,097	82,020	491,833
Manitoba.....	29,375	348,312	35,088	417,868
British Columbia.....	30	150	240	865
<b>Total</b> .....	<b>646,016</b>	<b>2,208,108</b>	<b>740,323</b>	<b>2,389,891</b>

Table 167.—Imports into Canada and Exports of Gypsum, 1924 and 1925

	1924		1925	
	Tons	Value	Tons	Value
<b>IMPORTS—</b>		\$		\$
Gypsum, crude (sulphate of lime).....	3,252	63,156	4,433	66,064
Plaster of Paris or gypsum ground not calcined.....	102	2,174	119	3,858
Plaster of Paris, calcined and prepared wall plaster.....	3,969	62,770	4,369	66,386
<b>Total</b> .....	<b>7,323</b>	<b>128,100</b>	<b>8,921</b>	<b>136,308</b>
<b>EXPORTS—</b>				
Gypsum or plaster, crude.....	472,236	747,829	533,646	861,468
Plaster of Paris ground, and prepared wall plaster.....	5,226	83,927	5,643	87,242
<b>Total</b> .....	<b>477,462</b>	<b>831,756</b>	<b>539,289</b>	<b>948,710</b>

**Primary Production of Mica.**—(From the annual *Report on the Mineral Production of Canada, 1925*.)—The total production of mica in Canada during 1925 amounted to 4,020 tons valued at \$261,463, as against 4,091 tons valued at \$357,272 in 1924.

Shipments of rough-cobbed grades were over 20 per cent lower in 1925 than in the previous year. Thumb-trimmed production was also less by approximately 300,000 pounds while splittings were higher by about 25,000 pounds. Scrap material, which includes mica that is too small and irregular for splitting, and the refuse from the trimming shops, is ground and bolted into various sizes, grading from 20-mesh to 200-mesh. Grades ranging from 20 to 80-mesh are used in the manufacture of prepared roofings, the 40-mesh grade, if free from grit, is used as a lubricant in some axle greases, and the 200-mesh grade is used as a filler in rubber manufacture.

The deposits of phlogopite mica in the Lièvre-Gatineau district, Quebec, and in Frontenac county, Ontario, continued to be the source of practically the entire Canadian production. It will be noted that the stated value of the exports of Canadian mica exceeded by a considerable amount the value placed on shipments reported by operators. An explanation of this lies in the fact that the exportation consisted principally of mica splittings shipped from large trimming shops situated in Ontario and Quebec.

Under the United States "New Tariff Act" the duties on the different grades of mica are as follows: Mica, unmanufactured, valued at not above 15 cents per pound—4 cents per pound; mica unmanufactured valued at above 15 cents per pound—25 per centum ad valorem; mica, cut or trimmed and mica splittings—30 per centum ad valorem; mica plates, and built-up mica, and all manufactures of mica, of which mica is the component material of chief value—40 per centum ad valorem; ground mica—20 per centum ad valorem.

Table 168.—Production of Mica in Canada, by Grades, 1924 and 1925

Grade	1924			1925		
	Quantity	Value f.o.b. shipping point	Price per pound	Quantity	Value f.o.b. shipping point	Price per pound
	Lb.	\$	\$	Lb.	\$	\$
Rough cobbed.....	535,295	33,337	0.06	413,500	23,471	0.05
Thumb trimmed.....	662,709	142,405	0.21	357,943	73,443	0.20
Splittings.....	164,734	137,248	0.83	188,265	139,454	0.69
Scrap.....	6,819,636	44,282	0.006	7,080,331	35,095	0.005
<b>Total</b> .....	<b>8,182,374</b>	<b>357,272</b>	<b>0.04</b>	<b>8,040,039</b>	<b>261,463</b>	<b>0.03</b>

Table 169.—Exports of Mica from Canada, 1924 and 1925

	1924		1925	
	Tons	Value	Tons	Value
		\$		\$
Rough cobbed and thumb trimmed.....	88	52,527	28	21,366
Mica splittings.....	285	424,503	230	324,967
Mica, scrap and waste.....	4,519	63,610	4,991	63,931
Mica, plate and manufacturers of (micanite).....		3,326		1,046
<b>Total</b> .....		<b>543,966</b>		<b>411,310</b>



**DIRECTORY OF FIRMS IN THE INDUSTRIES CLASSIFIED UNDER THE  
MANUFACTURES OF NON-METALLIC MINERAL PRODUCTS**

**Aerated Waters**

Name of Firm	Head Office Address	Location of Plant
<b>PRINCE EDWARD ISLAND—</b>		
Morris, J. & T.	75 Water St., Charlottetown	Charlottetown.
Simmons, G. H.	Spring Pk. Rd., Charlottetown	Charlottetown.
<b>NOVA SCOTIA—</b>		
Aeraria Beverage Co.	Margaretville	Margaretville.
Antigonish Aerated Waters	Main St., Antigonish	Antigonish.
Bridgewater Bottling Works	Box 366, Bridgewater	Bridgewater.
Chambers, James	Main St., Tronton	Trenton.
Crystal Spring Mfg. Co.	284 Agricola St., Halifax	Halifax.
Davono, Alfred N.	184 Argyle St., Halifax	Halifax.
Donovan, W. H.	41-45 Granville St., Halifax	Halifax.
Fraser, James E.	Springhill	Springhill.
Home Bottling Co., Ltd.	Drawer 814, Commercial St., North Sydney	North Sydney.
Kempton, T. S.	Milton	Milton.
McAllister Mineral Water Works	322 Esplanade, Sydney	Sydney.
McKinley & Sons	McKay's Corners, C.B.	McKay's Corners, C.B.
Meteghan Fruit Supply Co.	Meteghan Station	Meteghan Station.
New Glasgow Mineral Springs	New Glasgow	New Glasgow.
North Sydney Bottling Works, Ltd.	Regent St., North Sydney	North Sydney.
Pink, Joseph	Main St., Yarmouth	Yarmouth.
Sterling Beverage Co.	Collins St., Yarmouth	Yarmouth.
Whelan & Ferguson, Ltd.	675-677 Barrington St., Halifax	Halifax.
Yarmouth Fruit Co.	Brown St., Yarmouth	Yarmouth.
<b>NEW BRUNSWICK—</b>		
Bathurst Ginger Ale Works, Ltd.	Bathurst	Bathurst.
Blue Ribbon Beverage Co.	80-82 Elm St., St. John	St. John.
Boscia & Burgalia	Box 281, Bathurst	Bathurst.
Campbellton Ginger-Ale Works	Campbellton	Campbellton.
Capitol Bottling Co.	313 Queen St., Fredericton	Fredericton.
Cassidy, Charles	Chatham	Chatham.
Crown Beverages, Ltd.	562 Main St., St. John	St. John.
Dolan, Ada H.	St. John	St. John.
Driscoll, John J.	124 Prince Edward St., St. John	St. John.
Havelock Mineral Spring Co., Ltd.	240 Botsford St., Moncton	Moncton.
International Drug Co., The	King St., St. Stephen	St. Stephen.
Moncton Bottling Works	123 Main St., Moncton	Moncton.
Holzoki, R. E.	85 King St., Woodstock	Woodstock.
Smith, Frank C.	St. Leonard Station	St. Leonard Station.
Sussex Beverage Co.	Court St., Sussex	Sussex.
Sussex Mineral Springs Co., Ltd.	Pleasant Ave., Sussex	Sussex.
Terris, J. J.	51 City Rd., St. John	St. John.
Vital, H. Albert	Church St., Edmundston	Edmundston.
<b>QUEBEC—</b>		
Allan's Ltd.	86 Dorchester St. west, Montreal	Montreal.
Archambault & Frère	Bout de l'Isle, Montreal	Bout de l'Isle, Montreal.
Beaulieu, L. & Co.	295 Carrière St., Montreal	Montreal.
Beaumont & Frère	7 Rue St. Etienne, Montmagny	Montmagny.
Bégin, Alex.	17 First Ave., Coteau St. Louis, Three Rivers	Three Rivers.
Bélanger, Arthur	Papineauville	Papineauville.
Bélisle, O.	Asbestos	Asbestos.
Blackburn, Henry	80 Papineau St., Hull	Hull.
Brisette, J. L.	17 rue St. Antoine, Ste. Agathe des Monts	Ste. Agathe des Monts.
Brochu, Edouard	Garthby Station	Garthby Station.
Brodeur, Arthur	10 rue du Havre, Montreal	Montreal.
Brunelle & Motivier	87 St. Jean Baptiste St., Victoriaville	Victoriaville.
Caisse, C. O.	133 rue du Roi, Sorel	Sorel.
Caledonia Springs Co., Ltd.	2716 St. Urban, Montreal	Montreal.
Cheorio Bottling Works	4518 Papineau St., Montreal	Montreal.
Chevalier & Lurose	60 Mercier St., Shawinigan Falls	Shawinigan Falls.
Christin, J. & Cie, Ltd.	21 Ste. Julie St., Montreal	Montreal.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	35 Vallée St., Montreal.
Coca-Cola Co., The	90 Broadview Ave., Toronto, Ont.	15 des Prairies St., Quebec
Côté, Roch	Pierreville	Pierreville.
Cousineau, Avila	Rue du Marché, Vaudreuil Station	Vaudreuil Station.
Crystal Soda Water Co.	1259 St. Dominique St. E., Montreal	Montreal.
Crystal Spring Bottling Works, The	Waterloo	Waterloo.
De La Boissière	Box 325, Roberval	Roberval.
Desjardins, Léon	Ste. Thérèse de Blainville	Ste. Thérèse de Blainville.
Désormeaux & Frères	6 Richard St., Joliette, Box 100	Joliette.
Désormeaux, S.	262 Devillemeire St., St. Jérôme	St. Jérôme.
Dominion Soda Water Co., Ltd.	502 Cadieux St., Montreal	Montreal.
Dorville, Harvey	Murray Bay	Murray Bay.

## Aerated Waters—Continued

Name of Firm	Head Office Address	Location of Plant
<b>QUEBEC—Concluded</b>		
Dufresno & Frère	120 Bonaventure St., Three Rivers	Three Rivers.
Ferland, J. H.	23 rue St. Laurent, Valleyfield	Valleyfield.
Fluet, F. A.	65 Des Prairies, Quebec	Quebec.
Forand, Hormisdas	Eastern Ave., Waterloo	Waterloo.
Fortier, Elzear, Ltée	123 St. Dominique, Quebec	Quebec.
Fortier, J. E.	10 rue Niverville, Three Rivers	Three Rivers.
Frisco Soda Water Co.	1514 Clarke St., Montreal	Montreal.
Gagnon, L. J.	Beauce Junction	Beauce Junction.
Girouard, Ltd.	77 Quessel St., Montreal	Montreal.
Goulet, Calixte	2035 Goulet ave., Montreal	Montreal.
Grenier, Arthur	St. George, Beauce	St. George, Beauce.
Gurd, Chas. & Co., Ltd.	1016 Bleury St., Montreal	Montreal.
Haines Ltd.	229 Panet St., Montreal	Montreal.
Huuel & Fils	La Sarre	La Sarre.
Houde, J. J. H.	Nicolet	Nicolet.
Ideal Soda Water Co., Ltd.	135 Lafrance St., Montreal	Montreal.
Jamelle, J. E. & Co.	Richmond	Richmond.
Kel-Old Co. Reg'd.	496 Châteaubriand Ave., Montreal	Montreal.
Lachapelle, Pierre	St. Barthélemi	St. Barthélemi.
La Cie d'Eau Minérale	148 Concorde St., St. Hyacinthe	St. Hyacinthe.
Lafontaine, Donat	St. Laurent, Louiseville	Louiseville.
Lafrancoise, Victor	St. Clot	St. Clot.
Lafrance, Noël	3 St. Germain St., St. Hyacinthe	St. Hyacinthe.
Lancjault & Frère	Box 264, Sorel	Sorel.
Langlois, Alex.	Verchères	Verchères.
Lamel, Théophile	Ellice St., Valleyfield	Valleyfield.
Leclerc & Houde	Jonquière	Jonquière.
Leclerc, Joseph	St. Evariste Station	St. Evariste Station.
Levasseur, Victor	76-1 rue Shawinigan Falls	Shawinigan Falls.
Lévesque, Jos.	Cabana	Cabana.
MacKinimie, J. P. & Son	Foundry St., Lachute	Lachute.
Maple Leaf Mineral Waters Reg.	165 rue De la Couronne, Quebec	Quebec.
Massicotte, J. B.	St. Tite	St. Tite.
Ménard, Edouard	Box 194, St. Jean	St. Jean.
Milloy, P. A.	121 and 123 St. André, Montreal	Montreal.
Marrissette, Adélarid	25 rue Baby, Joliette	Joliette.
National Bottling Works	330 Clarke St., Montreal	Montreal.
Orange Crush Bottling Co., Ltd.	110 Claremont ave., Toronto, Ont	6540 Park ave., Montreal.
Parent, Léonard	3 ave. Guevremont, Sorel	Sorel.
Paquet, Wilfrid	397 St. Catherine, Grand Mère	Grand Mère.
Pellerin, Albert	Rue de l'église, St. Barnabé-Nord	St. Barnabé-Nord.
Pelletier, Z.	St. Jérôme, Box 182	St. Jérôme.
Péloquin, J. H. & Cie	Coaticook	Coaticook.
Poulin, P.	St. Camille	St. Camille.
Pye, M.	Windsor Mills	Windsor Mills.
Regal Bottling Works	La Prairie	La Prairie.
Reina Mineral Water Co., Ltd.	101 Duvernay St., Montreal	Montreal.
Robillard & Cie, Ltée	9 Robillard Ave., Montreal	Montreal.
Roy, Cyprien	St. Germain de Kamouraska	St. Germain de Kamouraska.
Sherbrooke Bottling Works	Sherbrooke	Sherbrooke.
Silver Spring Bottling Works	65 Dépôt St., Sherbrooke	Sherbrooke.
Simon's Ginger Ale & Soda Water Works Reg'd.	11 Rivard St., Montreal	Montreal.
Soda Water Works Reg'd.	11 Rivard St., Montreal	Montreal.
St. Pierre, Ernest	Rue Yumaska, Farnham	Farnham.
Stewart Bottling Co., Ltd.	297 Williano St., Montreal	Montreal.
Thibierge and Langlois	Armagh	Armagh.
Thibault, J. A.	24-26 rue Fraser, Rivière-du-Loup	Rivière-du-Loup.
Timmons, M. & Son	92 Côte d'Abraham, Quebec	Quebec.
Tourangeau & Champagne	Buckingham	Buckingham.
Trottier & Cie	St. Casimir	St. Casimir.
Turnell, A. Irene	272 Wellington St., Sherbrooke	Sherbrooke.
Union Soda Water Co.	424 Cadieux St. W., Montreal	Montreal.
Veillet D. & Co.	Ste. Geneviève de Batiscan	Ste. Geneviève de Batiscan.
Whistle Co. of Eastern Canada	750 St. Paul St. W., Montreal	Montreal.
White, The Robt. Co., Ltd.	638 Craig St. E., Montreal	Montreal.
<b>ONTARIO—</b>		
Aquazone Co., Ltd.	4 Yorkville Ave., Toronto 5	Toronto 5.
Boon & Nowell	Rear 509 Concord Ave., Toronto	Toronto.
Bottum, W. H. & Son	354 Pinnacle St., Belleville	Belleville.
Brighton Bottling Works	Main St., Brighton	Brighton.
Brown, John D.	5 Bay St., Gravenhurst	Gravenhurst.
Burke Mineral Water Co.	19 Colborne St., Brantford	Brantford.
Burkholder, D. C.	Sharpe St., New Liskeard	New Liskeard.
British Bottling Co.	201 Bessorer St., Ottawa	Ottawa.
Caledonia Springs Co.	2716 St. Urhain St., Montreal, Quebec	Caledonia Springs.
Canadian Beverages Ltd.	31 Terauley St., Toronto	Toronto.
Canadian Soda Water Mfg. Co.	233 St. Catherine St. N., Hamilton	Hamilton.
Carrigan, Charles	58 Riddell St., Woodstock	Woodstock.
Chambers, F. S.	Killary St., Humberstone	Humberstone.
Clurian, Jas.	South Porcupine	South Porcupine.
Cobalt Aerated Water Co.	45 Presley St., Cobalt	Cobalt.

## Aerated Waters—Continued

Name of Firm	Head Office Address	Location of Plant
ONTARIO—Continued		
Coca-Cola Co.	90 Broadview Ave., Toronto	118 Secord St., Port Arthur
Coca-Cola Co.	90 Broadview Ave., Toronto	65-67 Bellwoods Ave., Toronto
Coca-Cola Co.	90 Broadview Ave., Toronto	327-329 Church St., Belleville
Coca-Cola Co.	90 Broadview Ave., Toronto	338 Queen St., Ottawa
Coca-Cola Co.	90 Broadview Ave., Toronto	55 Vine St., Hamilton
Coca-Cola Co.	90 Broadview Ave., Toronto	430 McDougal St., Windsor
Coca-Cola Co.	90 Broadview Ave., Toronto	66 Rideau St., Kingston
Coca-Cola Co.	90 Broadview Ave., Toronto	649 Colborne St., London
Coca-Cola Co.	90 Broadview Ave., Toronto	190 George St., Peterborough
Coca-Cola Bottling Works	42 Blvd., Oshawa	Oshawa
Cochrane Bottling Works	P. O. Box 239, Cochrane	Cochrane
Collingwood Ginger-Ale Works	Box 1046 Robinson St., Collingwood	Collingwood
Colonial Bottling Works	23 Kent St., Simcoe	Simcoe
Conim, F.	65 McGill St., Smith Falls	Smiths Falls
Cooke, Thos. & Son	Box 251, Port Perry	Port Perry
Cornwall Bottling Works	Amelia St., Cornwall	Cornwall
Cronmeller, John H.	76 Fraser St., Port Colborne	Port Colborne
Crown Bottling Works	Port Hope	Port Hope
Cunningham, D. K.	Elgin St., Arnprior	Arnprior
Day, Ferrier	Bourget	Bourget
Day, Henry E.	32 McAmmy St., Belleville	Belleville
Dominion Soda Water Co.	105 Manning Ave., Toronto	Toronto
Dominion Soda Water Co.	58 Rodman St., St. Catharines	St. Catharines
Dominion Soda Water Mfg. Co.	308 St. John St. W., Hamilton	Hamilton
Dunfield, Samuel	Bridge St., Carleton Place	Carleton Place
Empire Bottling Works	Espanola	Espanola
Essex Soda Water Works	Essex	Essex
Finnish Bottling Works	326 Bloor St., Sault Ste. Marie	Sault Ste. Marie
Ford City Bottling Works	223 Drouillard Road, Ford	Ford
Fort William Bottling Works	131 N. Archibald St., Fort William	Fort William
Gauvreau, A.	Mattawa	Mattawa
Goderich Mineral Water Co.	West St., Goderich	Goderich
Grady, Patrick J.	583 Water St., Peterboro.	Peterboro.
Gray, W. J.	Collingwood	Collingwood
Haileybury Bottling Works	Box 100, Haileybury	Haileybury
Hanlon & Hicks	905 Tecumseh Road, Windsor	Windsor
Harris, Geo. & Puparini	10 Park St., Welland	Welland
Heller & Witts	223 Drouillard Rd., Ford	Ford
Hinds, F. P. & Son	26 Front St. S., Orillia	Orillia
Hinds, Matthew C.	308 King St., Midland	Midland
Hires, Charles E. Co., Ltd.	47 Davies Ave., Toronto	Toronto
Hoag, Smith A.	774 Ferry St., Niagara Falls	Niagara Falls
Hoon's Bottling Works	43 Park St., Chatham	Chatham
Horae, S. V.	148 Ontario St., Kingston	Kingston
Horsman, Chas. L.	Palleser St., Campbellford	Campbellford
Ideal Bottling Works	266 Mitchell St., Port Colborne	Port Colborne
Imperial Beverages Co.	16 McDonald St., Barrie	Barrie
Ingersoll Bottling Works	King St. E., Ingersoll	Ingersoll
Imperial Bottling Works	185 King St. W., Dundas	Dundas
International Bottling Works	157 Machar Ave., Port Arthur	Port Arthur
International Bottling Works, The	North Cobalt	North Cobalt
Jersey Crude Co.	5-9 Van Horne St., Toronto	Toronto
Kenora Bottling Works	Box 385, Kenora	Kenora
King & Dalton	103 Duchess St., Toronto	Toronto
Kingston Bottling Works	266 Princess St., Toronto	Toronto
Kitchener Carbonating Co.	1003 King St. E., Kitchener	Kitchener
Knox Soda Water Co.	384 Queen St., Peterboro.	Peterboro.
Lafamme Bottling Works, Ltd.	Box 239, Cochrane	Cochrane
La-Kola Co.	22 Magulay St., Hamilton	Hamilton
Lankin, A. C. & Co.	773 Wright St., Toronto	Toronto
Lindsay Soda Water Works	67 King St., Lindsay	Lindsay
Mack Mineral Springs Co.	111 Welland Ave., St. Catharines	St. Catharines
Martin Bottling Works	48 Ontario St., Oshawa	Oshawa
McDonald & Son	North Bay	North Bay
McLaughlin, J. J., Ltd.	145-155 Sherbourne St., Toronto	Toronto
Midland Bottling Works	308 King St., Midland	Midland
Mirault, Eugene	317 Rideau St., Ottawa	Ottawa
Montgomery Mineral Water Co.	257 Colborne St., Brantford	Brantford
Murray Bottling Works	139 Market Sq., Windsor	Windsor
New Ontario Bottling Works, Ltd.	176 Minto St., Sudbury	Sudbury
Niagara Falls Bottling Works	1043 Centre St., Niagara Falls	Niagara Falls
Nipigon Bottling Works	Box 35, Nipigon	Nipigon
Northern Springs	Ridgeway	Ridgeway
Oakville Aerated Beverage Co.	Kerr & Colbourne Sts., Oakville	Oakville
O'Dair Beverages	Cornwall	Cornwall
Ontario Soda Water Mfg. Co.	10 Park St., Welland	Welland
Ontario Soda Water Mfg. Co.	229 Manning Ave., Toronto	Toronto
Orange Crush Bottlers, Ltd.	100 Churemont St., Toronto	982 Princess St., London

## Aerated Waters—Continued

Name of Firm	Head Office Address	Location of Plant
<b>ONTARIO—Concluded</b>		
Orange Crush Bottlers, Ltd.	100 Claremont St., Toronto	Toronto.
Orange Crush Bottlers, Ltd.	100 Claremont St., Toronto	217 Cannon St. E., Hamilton.
Orange Dandy Co., Ltd.	183 Elm St., Toronto	Toronto.
Orangeville Bottling Works	Church St., Orangeville	Orangeville.
Parisian Refreshment Co.	15 Sandwich St., Sandwich	Sandwich.
Penetaag Bottling Co.	22 Robert St., Penetanguishene	Penetanguishene.
Perth Bottling Works	Perth	Perth.
Pure Springs Co.	102 Baldwin St., Ottawa	Ottawa.
Reil, Henry W.	Parry Sound	Parry Sound.
Renfrew Bottling Works	Renfrew	Renfrew.
Riverdale Bottling Works	34 Eaton Ave., Toronto	Toronto.
Robertson, Alex.	Homewood Ave., Mount Forest	Mount Forest.
Rosenberg, H.	31 Vine St., St. Catharines	St. Catharines.
Royal Bottling Works, The	130 First St., Fort Frances	Fort Frances.
Royal City Mineral Water Works	239 Dundas Road, Guelph	Guelph.
St. Thomas Soda Water Works	219 Talbot St., St. Thomas	St. Thomas.
Sanitaris Limited	Corner John and William Sts., Arnprior	Arnprior.
Sarnia Soda Water Works Ltd.	118 Victoria St. Sarnia	Sarnia.
Seal Bottling Works	820 Mercer St., Windsor	Windsor.
Sharpe & Kirkpatrick	118 Victoria St., Sarnia	Sarnia.
Silver Foam Bottling Works	Box 1480, Sudbury	Sudbury.
Sioux Lookout Bottling Works	Sioux Lookout	Sioux Lookout.
Sleeman, Geo.	186 Edinboro Road, Guelph	Guelph.
Smile Syrup Co. of Ontario, Ltd.	29-31 Ternuley St., Toronto	Toronto.
Spring Water Bottling Works	1730 Ferry St., Niagara Falls	Niagara Falls.
Star Beverage Co., The	11 Federal St., Toronto	Toronto.
Star Bottling Works	256 Regent St., Sudbury	Sudbury.
Stinson, E. H. & Co.	St. Paul St., Alexandria	Alexandria.
St. Kitts Bottling Works	29 Vine St., St. Catharines	St. Catharines.
St. Kitts Bottling Works	34 Eaton Ave., Toronto	Toronto.
Stratford Soda Water Works	235 William St., Stratford	Stratford.
Stratton & Monenar	Wallaceburg	Wallaceburg.
Sutherland Limited	12 and 14 Jarvis St., Hamilton	Hamilton.
Tally-Ho Pure Water Co.	610 Cooper St., Ottawa	Ottawa.
Taylor, Wm. & Son, Ltd.	957 Fourth Ave. E., Owen Sound	Owen Sound.
Thomas Bros. of Galt, Ltd.	45 Dickson St., Galt	Galt.
Thompson, George	294 Princess St., Kingston	Kingston.
Thompson & Wilson	Box 391, Glen Williams	Glen Williams.
1000 Islands Mineral Water Co.	58 Brock St., Brockville	Brockville.
Timmins Bottling Works	Timmins	Timmins.
Tune's Co., Ltd.	649 Colbourne St., London	London.
Twin City Bottling Works	819 Minnesota St., Ft. William	Ft. William.
Union Soda Water Co., Ltd.	30 St. Patrick St., Toronto	Toronto.
United Bottling Co.	230 Augusta Ave., Toronto	Toronto.
Vitality Aerated Water Co.	Potawawa	Potawawa.
Walker & Co.	Church St., Orangeville	Orangeville.
Wallaceburg Bottling Works	Box 376, Wallaceburg	Wallaceburg.
Walsh, G. R.	Box 296, Barrie	Barrie.
Wentworth Mineral Water Co., Ltd., The	Rear 542 Main St. E., Hamilton	Hamilton.
Whistle Bottling Works	Sarnia	Sarnia.
Whistle Co. of Eastern Canada, Ltd.	132 Pears Ave., Toronto	Toronto.
Wilson Charles, Limited	517-519 Sherbourne St., Toronto	Toronto.
Wise, C. W.	66 Avon St., Welland	Welland.
Wright & Biggar	819 Arthur St., Windsor	Windsor.
<b>MANITABA—</b>		
Bell Bottling Co.	1087 Selkirk Ave., Winnipeg	Winnipeg.
Bennett, H. E.	The Pas	The Pas.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	Bannatyne & Dugmar, Winnipeg.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	20-12th St., Brandon.
Crown Bottling Works	Dauphin	Dauphin.
Douglas & King, Ltd.	47 Higgins Ave., Winnipeg	Winnipeg.
Orange Crush Bottling Co.	100 Claremont St., Toronto, Ont.	191 Fort St., Winnipeg.
Orange Crush Co.	100 Claremont St., Toronto, Ont.	120-124 Ninth St., Bran- don.
Portage Soda Water Works	60 Tupper St., Portage la Prairie	Portage la Prairie.
Whistle Bottling Co. of Winnipeg	251 Jarvis Ave., Winnipeg	Winnipeg.
<b>SASKATCHEWAN—</b>		
Chippewa Water Co.	Fifth St., Estevan	Estevan.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	265 Third Ave. N., Saskatoon.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	1736 Cornwall St., Regina.
Currie & Hassett	415 Ave. "B", Saskatoon	Saskatoon.
Gold Seal Limited	Cor. Ave. C and 19 St., Saskatoon	Saskatoon.
Jeffer Products, Ltd.	11th Ave. & Montreal St., Regina	Regina.
Jitney Pop, The	78-80 Betts Ave., Yorkton	Yorkton.
Orange Crush Co.	100 Claremont St., Toronto, Ont.	311 ave. "B" S., Saaka- toon.

## Aerated Waters—Concluded

Name of Firm	Head Office Address	Location of Plant
<b>SASKATCHEWAN—Concluded</b>		
Pachal Bottling Works	Agricultural Ave., Yorkton	Yorkton.
Prince Albert Mineral Water Co., Ltd.	1125—3rd Ave. W., Prince Albert	Prince Albert.
Regina Bottlers, Ltd.	1205—11th Ave., Regina	Regina
Staubard Mineral Water Works	1371 George St., North Battleford	North Battleford.
Swift Current Bottling Works	401 Railway St. E., Swift Current	Swift Current.
Thompson Bottling Co.	561 Home St. W., Moose Jaw	Moose Jaw.
Watt, G. & J.	2023 Ottawa St., Regina	Regina
Weyburn Bottling Works	Box 514, Weyburn	Weyburn.
<b>ALBERTA—</b>		
Alberta Aerated Water	124 Lansdowne St., Wetaskiwin	Wetaskiwin.
Blue Label Bottling Co.	508—3rd Ave. W., Calgary	Calgary.
Dominion Bottling Works	10172—9th St., Edmonton	Edmonton.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	126—4th Ave. W., Calgary.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	10345—102nd St., Edmonton.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	314—8th St. S., Lethbridge.
McLaughlin, J. J. Ltd.	Sherbourne St., Toronto, Ont.	9641—102a Ave., Edmonton.
Orange Crush Bottling Co., Ltd.	100 Claremont St., Toronto, Ont.	Fourth Ave. South, Calgary.
Orange Crush Bottling Co., Ltd.	100 Claremont St., Toronto, Ont.	10015—102nd Ave., Edmonton.
Polar Aerated Water Works	1301—11th Ave. E., Calgary	Calgary.
Prairie Rose Mfg. Co.	9539—106 Ave., Edmonton	Edmonton.
Purity Bottling Works	518—5th St. S., Lethbridge	Lethbridge.
Shumrock Bottling Works	Rear Assiniboia Hotel, Medicine Hat	Medicine Hat.
United Mfg. Co.	514—11th Ave. W., Calgary	Calgary.
<b>BRITISH COLUMBIA—</b>		
Peaver Bottling Works	Box 577, Prince Rupert	Prince Rupert.
Bowness Export Co., Ltd.	Van Horn, Cranbrook	Cranbrook.
Coca-Cola Co.	90 Broadview Ave., Toronto, Ont.	898 Richard St., Vancouver.
Cross & Co., Ltd.	38 Fourth Ave., E. Vancouver	Vancouver.
Crystal Spring Water Supply	1244 Richardson St., Victoria	Victoria.
Fairall's Limited	420-422 William St., Victoria	Victoria.
Gold Star Bottling Works	Courtenay	Courtenay.
Harper, James	Columbia Ave., Rossland	Rossland.
Honley, Joseph	717 Princess St., New Westminster	New Westminster.
Kelowna Bottling Works	Box 69 Kelowna	Kelowna.
McCalloch, A. Co.	201 Coldstream St., Vernon	Vernon.
Nanaimo Bottling Works	Mill St., Nanaimo	Nanaimo.
Orange Crush Bottling Co., Ltd.	100 Claremont St., Toronto, Ont.	136 Water St., Vancouver.
Orange Crush Bottling Co. Ltd.	100 Claremont St., Toronto, Ont.	Nelson.
Runnig, William E.	199 Wallace St., Nanaimo	Nanaimo.
Salmon Arm Aerated Water Co.	Box 40, Salmon Arm	Salmon Arm.
Van Bros., Ltd.	1955 Commercial Drive, Vancouver	Vancouver.

## Asbestos and Allied Products

<b>NOVA SCOTIA—</b>		
Guilford and Sons	649 Barrington St., Halifax	Halifax.
<b>QUEBEC—</b>		
Asbestos Co.	East Broughton Station	East Broughton Station.
Asbestos Manufacturing Co., Ltd., The	17 St. James St., Quebec	Lachine.
Atlas Asbestos Co., Ltd.	142 St. Peter St., Montreal	Montreal.
Canadian Johns-Manville Co., Ltd.	Toronto, Ont.	Asbestos.
<b>ONTARIO—</b>		
Canadian Raybestos Co., Ltd.	Peterborough	Peterborough.
Garlock Packing Co.	Palmyra, New York, U.S.A.	Hamilton.
Heal, T. Sanitary Floor Co. of Toronto	147 Close Ave., Toronto	268 <sup>1</sup> MacDonnell Ave., Toronto.
Sterne, G. F. & Sons	124 Bruce St., Brantford	Brantford.
Turner, C. B.	894 Bathurst St., Toronto	Toronto.
Hachmoeester Lind Chemical Co.	McKees Rocks, Penn.	Sarnia.
<b>BRITISH COLUMBIA—</b>		
Baillie, Hugh	144 Alexander St., Vancouver	Vancouver.

## Cement Products

Name of Firm	Head Office Address	Location of Plant
<b>NOVA SCOTIA—</b>		
La Have Concrete Co., Ltd.	West La Have	West La Have.
Middleton Cement Product Co., Ltd.	Middleton	Middleton.
<b>NEW BRUNSWICK—</b>		
Concrete Builders Ltd.	Box 641, Fredericton	Fredericton.
Hanson, E. B.	Main St., St. Stephen	St. Stephen.
Hartland Cement Block Co.	Hartland	Hartland.
Moncton Cement Product Works	Robinson St., Moncton	Moncton.
Scott Concrete Works	York St., Fredericton	Fredericton.
<b>QUEBEC—</b>		
Archambault, L.	St. Ours	St. Ours
Bilodeau, Ign.	144 Ave. Renaud, Quebec	Québec
Bromner, Alex., Ltd.	100 Bligny St., Montreal	Outremont.
Custogay, Aldéric	Des Frables, Montreal	Montreal.
Cloutier, Adélard	Ste Rose de Laval	Ste Rose de Laval.
Concrete Construction Ltd.	58 Boulevard Décarie, Montreal	Montreal.
Desrosiers, A.	4949 Papineau Ave., Montreal	Montreal.
Droz, A.	12 St. Laurent St., Longueuil	Longueuil.
Duchesne, L.	500 Hamilton St., Ville Emard, Montreal	Montreal.
Dugas, Isale	163 Baby St., Montreal	Montreal.
Dupont, O. & Milard, E.	902 Des Carrières, Montreal	Montreal.
Dutrisac, Alfred	133 Sir George Etienne, Cartier, Montreal	Montreal.
Faillé, G. A.	5507 rue Jeanne d'Arc, Rosemont, Montreal	Montreal.
Fournier, Frères Ltée	37 Victoria, Lachine	Lachine.
Genest, Emile	St. Basile	St. Basile.
Guillaumt Frères & Cie Inc.	Ste. Elizabeth	Ste. Elizabeth.
Giguère & Plamont	828 Beaubien, St., Montreal	Montreal.
Groulx, I.	1273 Crawford St., Verdun	Verdun.
Hodoghian, J.	233 Melrose St., Montreal	Montreal.
Jacques, Pierre	Rue St. Jacques, Grand' Mère.	Grand' Mère.
Lafleur, C. E.	St. Jérôme	St. Jérôme.
La Cie du Produit Ciment	St. Jérôme	St. Jérôme.
Larivière, Alex.	37 St. Rami, St., St. Henri, Montreal	Montreal.
La Société de Construction	10 Cathcart St., Montreal	Montreal.
L'Heureux, J. A.	Ste. Geneviève de Batiscan	Ste. Geneviève de Batiscan.
McArthur Concrete Pile and Foundation Co.	Chicoutimi	Chicoutimi.
Melançon, J. T. H.	Grand' Mère	Grand' Mère.
Monette, G.	3300 rue Notre-Dame E., Montreal	Montreal.
O'Connor, Bros.	Huntington	Huntington.
Pharand, J. A.	2 York, St., Montreal	Montreal.
Pitt, Horace	17 St. Charles St., Montreal	Montreal.
Pizzagalli, Terrazzo Co.	61 Baby St., Montreal	Montreal.
Rainville, George	96 St. Joseph, Farnham	Farnham.
Raymond Cement Products Ltd.	120 St. James St., Montreal	Montreal.
St. Louis, Nap.	Ste. Ursule	Ste. Ursule.
Taillefer, Ylho.	St. Polycarpe	St. Polycarpe.
Trahan & Cie	5244—4th Ave., Rosemont, Montreal	Montreal.
<b>ONTARIO—</b>		
Alvinston Cement Tile Co.	Alvinston	Alvinston.
Angotti, Frank	819 St. Clarend Ave., Toronto	Toronto.
Artificial Stone	55 Albert St. Thorold	Thorold.
Andrews, S. J.	Queen St., Clinton	Clinton.
Aniliste, W. J.	309 Cromwell St., London	London.
Art Granite Co.	Box 311, Essex	Essex.
Ashmun T. J.	520 Grosvenor St., London	London.
Babeock, I. W.	Tupperville	Tupperville.
Banks, John	755 Queens Ave., London	London.
Barber, F.	38 Kane Ave., Toronto	Toronto.
Bartonville Rock Stone Ltd.	Bartonville	Bartonville.
Bawden, Frederick W.	Langhail St., Exeter	Exeter.
Bell & Mottah.	1757 Stanley St. Niagara Falls	Niagara Falls.
Bierwagen, Bros.	88 Edward St., Kitchener	Kitchener.
Boham, C. J.	37 Bowie Ave., Fairbank	Fairbank.
Bond, R.	Streetsville	Streetsville.
Border Builders Supply Co., Ltd.	1436 Howard Ave., Windsor	Windsor.
Bosman, I. H.	Bluevale	Bluevale.
Bowers, E. G.	Cottam	Cottam.
Bowman's Builders Supplies.	East Main St., Welland	Welland.
Boyd Bros.	Osgoode	Osgoode.
Bray, Messrs. & Co.	605 Moy Ave., Windsor	Windsor.
Brigden, Henry	Port Elgin	Port Elgin.
Brown, A. F.	216 Oak St., Sudbury	Sudbury.
Brown, D. L.	197 Cedar St., Sudbury	Sudbury.
Burger, F. F.	Chippewa	Chippewyn.
Burger, Harold	Box 47, Tillsonburg	Tillsonburg.
Burkholder, Geo.	Whitevale	Whitevale.
Burwell, C. A.	Tillsonburg	Tillsonburg.
Caldar, James	Fergus	Fergus.
Canadian Concrete Products Co., Ltd.	122 South Michigan Ave., Chicago, Ill., U.S.A.	Chatham.
Campbell, D. S.	St. Marys	St. Marys.
Campbell & May	183 Emery St., London	London.
Canada Re-inforced Concrete Pipe Works	15 Sterling Ave., Kitchener	Kitchener.

## Cement Products—Continued

Name of Firm	Head Office Address	Location of Plant
ONTARIO—Continued		
Canadian Concrete Products Co., Ltd.	122 Sq. Michigan Ave., Chicago, Ill.	Belloville.
Cust Stone Blocks Co.	Bridgeburg	Bridgeburg.
Chatham Cement, Tile and Block Co., Ltd.	Richmond St., Chatham	Chatham.
Chick Contracting Co., Ltd.	951 McDougall St., Windsor	Windsor.
Christie Concrete Products	28 Queen St., Toronto	Lindsay.
Clark, Geo. E.	Metcalf Ave., Dresden	Dresden.
Clarkson Cement Tile & Block	Clarkson	Clarkson.
Clemens & Miller	Welland	Welland.
Corinthian Stone Co.	20 Durham St., Guelph	Guelph.
Corlott, A. S.	Talbot St. W., Leamington	Leamington.
Cross Builders Supply Co., Ltd.	924 Windsor Ave., Windsor	Windsor.
Crystal Stone Works	580 Ontario St., Stratford	Stratford.
Devitt, W. J.	Brooklin	Brooklin.
Dewar, James S.	Paisley	Paisley.
Dillon, John	Sealey's Bay	Sealey's Bay.
Doidge, J. A.	261 Ottawa St., Hamilton	Hamilton.
Dominion Concrete Co.	Kemptville	Kemptville.
Dumond, J. J.	Brentwood	Brentwood.
Edwards, Arthur J.	Dundas	Dundas.
Eldridge, Geo.	326 Durand St., Sarnia	Sarnia.
Elhiott, J. A.	R. R. 1, Dunsford	Dunsford.
Evenden Bros. & Baker	14 Kingdon St., Westmount	Westmount.
Excelsior Concrete Products Co.	Barrie	Barrie.
Fairbank Block & Supply Co.	619 Vaughan Road, Toronto	Toronto.
Fletcher, J. H. & Sons	R. R. 1, Ridgeville	Ridgeville.
Flowers, Win	Box 175, Caledonia	Caledonia.
Frost, Reuben	Seaforth	Seaforth.
Fulton, John	Pakenham	Pakenham.
Garnett, Thos. & Sons	Barrett St., Port Hope	Port Hope.
Gondreau, W.	35 Pierre Ave., Windsor	Windsor.
Gillis, Alfred	Hespeler Rd., Galt	Galt.
Giroux, J. H.	Queen St., Tilbury	Tilbury.
Grace, Thomas	291 S. Christina St., Sarnia	Sarnia.
Granite Concrete Block Co., Ltd.	832 Wooton Rd., Toronto	Toronto.
Hall, John, Warren	677 Water St., Peterborough	Peterborough.
Hare, John	Markham	Markham.
Hayley, Harry	171 Waller St., Ottawa	Ottawa.
Henson & Co.	405 Gorge Rd., Victoria	Victoria.
Hewitt, A. B. & Son	Princeton	Princeton.
Holbeck, B. A.	Kingsville	Kingsville.
Howard, W. H.	Aldershot	Aldershot.
Howe, H. & Nott, J. H.	Niagara Falls South	Ridgeway.
Hoyles, Arthur	St. George St., Dresden	Dresden.
Hubbell, Charles	Thamesville	Thamesville.
Hunley Wood Co.	354 Giles St., Windsor	Windsor.
Hyatt Brothers	200 Egerton St., London	London.
Hunt, J. W. & Sons	Mount Forest	Mount Forest.
Hyndman, John	Gorrie	Gorrie.
Independent Concrete Pipe Co., Ltd.	198 Riddell St., Woodstock	Woodstock.
Ingrville, Stephen	Metcalf St., Stratroy	Stratroy.
Jacques Cement Block Factory, The	570 Goyeau St., Windsor	Windsor.
Jago Concrete Products Co.	New Toronto	New Toronto.
Jones-Lochhart Ltd.	St. Catharines	St. Catharines.
Kilbourne, H. & Son	1454 Wharnccliffe Road, London	London.
King, Charles J.	Campbellville	Campbellville.
Kingsborough, Jas. C.	51 Mollourne St. W., Lindsay	Lindsay.
Kingston Cement Products	69 Patrick St., Kingston	Kingston.
Kinzel Bros	Box 322, Preston	Preston.
Lawrence Bros	Stoney Creek	Stoney Creek.
Leblayre, Jos	710 Pierre Ave., Windsor	Windsor.
Lesperance, Peter J.	184 Albert Road, Ford City	Ford City.
Lisgman, W. H.	Box 100, Cayuga	Cayuga.
Lindley, E.	11 Hillary Ave., Toronto	Toronto.
Lyns Fuel & Supply Co., Ltd.	Sault Ste. Marie	Sault Ste. Marie.
McAllister, Robt.	R. R. 2, Goderich	Goderich.
McClelland, R. J.	Ontario & William Sts., Kingston	Kingston.
McLaughlin, Wm	Paris	Paris.
McQueen, Alex.	Moorefield	Moorefield.
Martyn, H. J.	41 Prince Edward Ave., Niagara Falls	Niagara Falls.
Mathews, S.	Islington	Islington.
Miller, Albert.	50 Harvey St., Chatham	Chatham.
Miller, Thomas	343 Peter St., Sandwich	Sandwich.
Mitchell, Ralph R.	1659 Lombard Ave., Niagara Falls	Niagara Falls.
Moore, T. L.	Box 275, Beamsville	Beamsville.
Mould, Arthur	44 Boullie St., London	London.
Nicholson, J. B., Ltd.	901 Excelsior Life Bldg., Toronto	Toronto.
Onkes, Sam	Box 306, Burlington	Burlington.
Oil Springs Tile and Cement Co.	Oil Springs	Oil Springs.
Olivar, Wm.	Grand Bend	Grand Bend.
Ontario Cement Products Co.	67n Gloucester St., Toronto	Toronto.
Osterhout, Peter	Room 203 Exchange Building, Windsor	Windsor.
Pago, George Leslie	R. R. 3, Lucknow	Lucknow.
Page Concrete Block Marble & Granite	Grand Bend	Grand Bend.
Dalry, Jacob	Mildmay	Mildmay.
Peerless Artificial Stone Ltd.	510 Rhodes Ave., Toronto	Toronto.

## Cement Products—Concluded

Name of Firm	Head Office Address	Location of Plant
<b>ONTARIO—Concluded</b>		
Pettypiece, Limited	Amherstburg	Amherstburg.
Pfaff, W. E.	Queen St., Hensall	Hensall.
Plante, E. F.	901 Cataragui St., Windsor	Windsor.
Pong, Geo.	Albert Ave., Ridgetown	Ridgetown.
Ratcliffe, K. B., Ltd.	Kenilworth Ave. and G.T.R., Hamilton	Hamilton.
Rieblings Sons & Faulkner	540 Jane St., Toronto 9	Toronto 9.
Ridgeville, Concrete Works	Ridgeville	Ridgeville.
Robidoux, Henry	Box 323 Amherstburg	Amherstburg.
Robinson, Edward	Mitchell	Mitchell.
Ross, Charles & Son	Dunnville	Dunnville.
Russello, Howard	Box 8, Leamington	Leamington.
Sarnia Cement Products, Ltd.	Point Edward	Point Edward.
St. Onge, Horruidas	157 Hall Ave., Windsor	Windsor.
Sebringville Cement Brick Tile & Block Co.	Sebringville	Sebringville.
Schmidt, John	West Monkton	West Monkton.
Schmidt, J. T.	R. R. 1, Waterloo	Waterloo.
Shoemaker, Allen	R. R. 4, Kitchener	Kitchener.
Showel Bros.	R. R. 6, Owen Sound	Owen Sound.
Smith, Allan G. C.	Box 197, Acton	Acton.
Smithson, F.	Erie St. N., Leamington	Leamington.
Somerville, W. G. & Son	Division St., Welland	Welland.
Stanley, J.	Stanley's Corners	Stanley's Corners.
Swatman, G. W.	1004 Lillian St., Windsor	Windsor.
Sydenham Block and Tile Co.	Box 438, Wallaceburg	Wallaceburg.
Tumbling, A. L.	Dunnville	Dunnville.
Taylor, Fred	Port Erie	Port Erie.
Telford, Peter	Holland Centre	Holland Centre.
Theaker, William	Burtonville	Burtonville.
Thomas, Chas.	Kingsville	Kingsville.
Tigort, John	Port Albert	Goderich.
Tooke, Thos.	Barrie	Barrie.
Turney, G. F.	503 Masson St., Oshawa	4th St., Cornwall.
Ward, John	149 Simcoe St. E., Hamilton	Hamilton.
Watterworth, Chas. W.	Beamsville	Beamsville.
Wather, E. E.	127 Nelson St., Kingston	Kingston.
Wells, Jas.	449 Philip St., London	London.
Wessels, D. S., Co.	1625 Euclid Ave., Detroit, Michigan	Walkerville.
White, Honer & Co.	Spring St., Picton	Picton.
White, Sydney	R. R. 4, St. Catharines	Honer.
Williams, Geo. C.	Wheatley	Wheatley.
Wilson Cement Brick Co., Ltd.	1502 Eglinton Ave., Toronto 9	Mount Dennis.
Winchester Cement Block and Tile Mfg. Co.	Winchester	Winchester.
Woolnough, Verne	R. R. No. 3, Niagara Falls	Niagara Falls
Yurk Mills Builders Supplies Co., Ltd.	York Mills	York Mills.
Young, John & Son.	Ridgeway	Ridgeway.
<b>SASKATCHEWAN—</b>		
Saskatchewan Concrete Culvert & Pipe Co.	Banner Block, Regina	Regina.
Saskatoon Cement Block Works	127 Ave. C. N. Saskatoon	Saskatoon.
<b>ALBERTA—</b>		
ALBERTA Concrete Works	9612-109a Ave., Edmonton	Edmonton.
Bennett, L. A.	Box 716, Drumheller	Drumheller.
<b>BRITISH COLUMBIA—</b>		
Bennett, W. H.	2814 Rock Bay Ave., Victoria	Victoria.
Gray, Elmer H.	Prince George	Prince George.
Hall, William	Pleasant Valley Road, Vernon	Vernon.
Haugh, Win. & Son	Kelowna	Kelowna.
Henson, & Co.	405 Gorge Road, Victoria	Victoria.
Spokane Concrete Pipe Co.	Grand Forks	Grand Forks.
Star Cement Laundry Tray Co.	323 Alexander St., Vancouver	Vancouver.

## Sand-Lime Brick

<b>ONTARIO—</b>		
Canada Sand-Lime Pressed Brick Co.	28 Symes Rd., Toronto W.	Toronto.
Don Valley Brick Works, Ltd.	Dominion Bank Bldg., Toronto	Toronto.
Harbour Brick Co., Ltd.	Lumsden Bldg., Toronto	Bathurst St. Dock, Toronto.
Hinde Bros.	134 Northlands Ave., West Toronto	Toronto.
Leaside Brick & Sand Co.	Leaside	Leaside.
Shepherd, J. G. & Co.	Wellington	Wellington.
Toronto Brick Co., Ltd.	60 Victoria St., Toronto	Scarboro.
Toronto Brick Co., Ltd.	60 Victoria St., Toronto	Swansea.
Willcox Lake Brick Co., Ltd.	Richmond Hill	Richmond Hill.
York Sandstone Brick Co., Ltd.	447 Victoria Park Ave., Toronto 13	Toronto 13.
<b>MANITOBA—</b>		
Winnipeg Brick Co., Ltd.	Osborne St., Winnipeg	Winnipeg.
Wood & Sons, Ltd.	904 Ross Ave., Winnipeg	Winnipeg.
<b>SASKATCHEWAN—</b>		
Saskatoon Brick and Supply Co., Ltd., The	18th St., Saskatoon	Saskatoon.



## Coke and By-Products

Name of Firm	Head Office Address	Location of Plant
<b>NOVA SCOTIA—</b>		
Dominion Iron and Steel Co.....	Sydney.....	Sydney.
<b>ONTARIO—</b>		
Algoma Steel Corporation, Ltd.....	Sault Ste. Marie.....	Sault Ste. Marie.
Hamilton By-Product Coke Ovens Ltd.....	15 Main St., Hamilton.....	Hamilton.
Steel Company of Canada, Ltd.....	Hamilton.....	Hamilton.
<b>BRITISH COLUMBIA—</b>		
Crow's Nest Pass Coal Co., Ltd.....	Fernie.....	Fernie.
Granby Consolidated Mining, Smelting and Power Co.....	Anyox.....	Anyox.

## Glass Products (including the bevelling, bending and cutting of plate and window glass, and the manufacture of mirrors, art glass and cut glass)

<b>NEW BRUNSWICK—</b>		
Murray & Gregory, Ltd.....	Douglas Ave., St. John.....	St. John.
<b>QUEBEC—</b>		
La Cie Ceramo-Vitral Inc.....	1488c Blvd. St. Laurent, Montreal.....	Montreal.
Consolidated Plate Glass Co.....	241 Spadina Ave., Toronto, Ont.....	30 St. Sulpice, Montreal.
Grimson, Geo.....	636 Craig St. W., Montreal.....	Montreal.
Hobbs Mfg. Co., Ltd.....	London, Ontario.....	Montreal.
Montreal Art Glass Works.....	2614 St. Lawrence Blvd., Montreal.....	Montreal.
O'Shea, J.P. & Co.....	15 Perrault Lane, Montreal.....	Montreal.
Phillips, Geo. & Co., Ltd.....	585 St. Thimothée St., Montreal.....	Montreal.
<b>ONTARIO—</b>		
Advance Glass Co.....	175 King St., Toronto.....	140 Euclid Ave., Toronto.
Bullas, J., Glass Co.....	Kitchener.....	Kitchener.
Canadian Flood Lighting Co.....	124 Adelaide St., Toronto.....	Toronto.
Canadian Tumbler Co.....	83-85 King St. E., Toronto.....	Toronto.
Central Ornamental Glass Co.....	83 McCaul St., Toronto.....	Toronto.
Clappertons, Ltd.....	Deseronto.....	Deseronto.
Colonial Art Glass Co.....	586 Bank St., Ottawa.....	Ottawa.
Consolidated Plate Glass Co. of Canada, Ltd.....	241 Spadina Ave., Toronto.....	Toronto.
Dominion Stained Glass Co.....	380 Adelaide St., Toronto.....	Toronto.
Dundas Plate Glass Co., Ltd.....	Dundas.....	Dundas.
Excelsior Plate Glass Co., Ltd.....	189 Queen St. E., Toronto.....	Toronto.
Glass and Mirrors, Ltd.....	175 King St., Stratford.....	Stratford.
Hill, Arthur E. & Co.....	28 Keystone, Toronto.....	Toronto.
Hobbs Manufacturing Co., Ltd.....	London.....	301 Ridout St., London.
Hobbs Manufacturing Co., Ltd.....	London.....	121 Liberty St., Toronto.
Horwood Glass Mfg. Co., Ltd.....	402 Bank St., Ottawa.....	Ottawa.
London Art Glass & Mirror Works, Ltd.....	226 Talbot St., London.....	London.
Luxfer Prism Co., Ltd.....	162 Parliament St., Toronto.....	Toronto.
Lyon, N. T. Glass Co., Ltd.....	141 Church St., Toronto.....	Toronto.
McCausland, Robt., Ltd.....	141-143 Spadina Ave., Toronto.....	Toronto.
Ontario Plate Glass.....	146 King St. W., Hamilton.....	Hamilton.
Phillips, W. E., & Co.....	Oshawa.....	Oshawa.
Pringle & London.....	116 Jarvis St., Toronto.....	Toronto.
Sovereign Cut Glass Co.....	143 Adelaide St. E., Toronto.....	Toronto.
Tait Plate Glass Co.....	Victoria and Edward Sts., Kitchener.....	Kitchener.
Toronto Plate Glass Imp'g. Co., Ltd.....	91 Don Roadway, Toronto.....	Toronto.
Wallaceburg Cut Glass Works.....	Wallaceburg.....	Wallaceburg.
Worral, H. & Son.....	Waterford.....	Waterford.
<b>MANITOBA—</b>		
Canadian Cut Glass, Ltd.....	183 James St., Winnipeg.....	Winnipeg.
Consolidated Plate Glass Co.....	241 Spadina Ave., Toronto.....	375 Bulmoral St., Winnipeg.
Hobbs Mfg. Co., Ltd., The.....	London, Ont.....	360 Princess St., Winnipeg.
<b>ALBERTA—</b>		
Capital Glass Works.....	9812 Jasper Ave., Edmonton.....	Edmonton.
<b>BRITISH COLUMBIA—</b>		
Bogardus Wickens, Ltd.....	1000 Homer St., Vancouver.....	Vancouver.
Fraser J. Glass Works.....	2120 Granville, Vancouver.....	Vancouver.
Kingsway Glass Co.....	385 Kingsway, Vancouver.....	Vancouver.
Royal Art Glass Co.....	1471 Broadway, Vancouver.....	Vancouver.
Western Glass Co., Ltd.....	158 Cordova St. W., Vancouver.....	Vancouver.

## Glass (Pressed and Blown)

Name of Firm	Head Office Address	Location of Plant
<b>QUEBEC—</b>		
Consumers Glass Co., Ltd.....	2nd Ave., Ville St. Pierre, Montreal.....	Ville St. Pierre, Montreal.
Dominion Glass Co., Ltd.....	285 Beaver Hall Hill, Montreal.....	Pointe St. Charles, Montreal.
Dominion Glass Co., Ltd.....	285 Beaver Hall Hill, Montreal.....	Delorimier Ave., Montreal.
<b>ONTARIO—</b>		
Beaver Flint Glass Co. of Toronto, Ltd.....	547 Parliament St., Toronto.....	Toronto.
Dominion Glass Co., Ltd.....	285 Beaver Hall Hill, Montreal, Que.....	Chapelle St., Hamilton.
Dominion Glass Co., Ltd.....	285 Beaver Hall Hill, Montreal, Que.....	Toronto.
Dominion Glass Co., Ltd.....	285 Beaver Hall Hill, Montreal, Que.....	Wallaceburg.
Dominion Glass Co., Ltd.....	285 Beaver Hall Hill, Montreal, Que.....	388 Carlaw Ave., Toronto.
Pilkington Bros., Ltd.....	St. Catharines.....	Thorold.
Richards Glass Co., Ltd.....	102 Atlantic Ave., Toronto.....	Toronto.
<b>ALBERTA—</b>		
Dominion Glass Co., Ltd.....	285 Beaver Hall Hill, Montreal, Que.....	Redcliffe.

## Illuminating and Fuel Gas

<b>NOVA SCOTIA—</b>		
Nova Scotia Tramways & Power Co., Ltd., The.....	Tramway B'ldg., Box 770, Halifax.....	Halifax.
<b>NEW BRUNSWICK—</b>		
New Brunswick Power Co.....	St. John.....	St. John.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	MeAdam Jct.
<b>QUEBEC—</b>		
Corporation of Sherbrooke.....	Sherbrooke.....	Sherbrooke.
Montreal Light, Heat & Power Consolidated.....	Power Bldg., Montreal.....	Montreal.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	67 Lusignan St., Montreal.
Quebec Railway Light Heat and Power Co., Ltd.....	Quebec Railway Bldg., Quebec.....	Quebec.
<b>ONTARIO—</b>		
Barrie Gas Co., Ltd.....	16 Owen St., Barrie.....	Barrie.
Board of Light and Heat Commission.....	Guelph.....	Guelph.
Brockville Public Utilities Commission.....	Brockville.....	Brockville.
City Gas Co.....	215 Dundas St., London.....	London.
City of St. Thomas Gas Dept.....	St. Thomas.....	St. Thomas.
Consumers Gas Co. of Toronto.....	19 Toronto St., Toronto.....	Toronto.
Corporation of the City of Belleville.....	Belleville.....	Belleville.
Hydro-Electric Power Commission of Ontario.....	191 University Ave., Toronto, 2.....	Cobourg.
Hydro-Electric Power Commission of Ontario.....	190 University Ave., Toronto, 2.....	Oshawa.
Hydro-Electric Power Commission of Ontario.....	190 University Ave., Toronto, 2.....	Peterborough.
Ottawa Gas Co.....	35 Sparks St., Ottawa.....	Ottawa.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	Fort William.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	North Bay.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	John St., Toronto.
Port Hope Gas Co.....	John St., Port Hope.....	Port Hope.
Public Utility Commission.....	19 Queen St., Kingston.....	Kingston.
Public Utilities Commission of Kitchener.....	180 King St. W., Kitchener.....	Kitchener.
Public Utilities Commission of Owen Sound.....	1146—1st Ave., E., Owen Sound.....	Owen Sound.
Public Utility Commission.....	51 Downie St., Stratford.....	Stratford.
Stormont Electric and Power Co.....	Cornwall.....	Cornwall.
Waterloo Water and Light Commission Gas Dept.....	Waterloo.....	Waterloo.
<b>MANITOBA—</b>		
Canada Carbide Co.....	611 Power Bldg., Montreal, Que.....	Morris.
Canada Gas and Electric Corporation.....	27-29—10th St., Brandon.....	Brandon.
Canada Carbide Co.....	611 Power Bldg., Montreal, Que.....	Deloraine.
Canada Carbide Co.....	611 Power Bldg., Montreal, Que.....	Hamiota.
Canada Carbide Co.....	611 Power Bldg., Montreal, Que.....	Manitow.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	Sutherland Ave., Winnipeg.
Souris Consumers Gas Co., Ltd.....	Souris.....	Souris.
Winnipeg Electric Railway Co.....	Electric Railway Chambers, Winnipeg.....	Winnipeg.

## Illuminating and Fuel Gas—Concluded

Name of Firm	Head Office Address	Location of Plant
<b>SASKATCHEWAN—</b>		
Canada Carbide Co.....	611 Power Bldg., Montreal, Que.....	Moosomin.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	Moose Jaw.
<b>ALBERTA—</b>		
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	10354—108th St., Ed- monton.
<b>BRITISH COLUMBIA—</b>		
City of Nelson.....	Front St., Box 1028, Nelson.....	Nelson.
New Westminster Gas Co., Ltd.....	12th St. and 3rd Ave., New Westminster.....	New Westminster.
Pintsch Compressing Co.....	New Haven, Conn., U.S.A.....	Vancouver.
Vancouver Gas Co., Ltd.....	425 Corral St., Vancouver.....	Vancouver.
Victoria Gas Co.....	1016 Langley St., Victoria.....	Victoria.

## Imported-Clay Products

<b>NEW BRUNSWICK—</b>		
Foley Pottery Ltd., The.....	Marsh Bridge, St. John.....	St. John.
<b>QUEBEC—</b>		
Canada Firebrick Co.....	399 St. Ambroise St., Montreal.....	Montreal.
Canadian Potteries Ltd.....	2 Longueuil, St. Johns.....	St. Johns.
Canada Stoneware Works.....	3berville.....	Therville.
Dominion Sanitary Pottery Co.....	189 St. James St., St. Johns.....	St. Johns.
Standard Clay Products, Ltd.....	P. O. Box 819, St. Johns.....	St. Johns.
<b>ONTARIO—</b>		
Bailey, G. & Co.....	321 Albany St., Toronto.....	Toronto.
Campbells Sons, R. Hamilton Pottery.....	100 Lock St., S. Hamilton.....	Hamilton.
Canadian General Electric Co.....	212 King St. W., Toronto.....	Peterborough.
Canadian Porcelain Co., Ltd.....	Box 170, Paradise Road, Hamilton.....	Hamilton.
Dominion Insulator Co., Ltd.....	Niagara Falls.....	Niagara Falls.....
Frontenac Floor & Wall Tile Co., Ltd.....	Box 178, Kingston.....	Kingston.

## Monumental and Ornamental Stone

<b>PRINCE EDWARD ISLAND—</b>		
Chandler & Bell.....	100 Kent St., Charlottetown.....	Charlottetown.
<b>NOVA SCOTIA—</b>		
Colonial Granite Co., Ltd.....	New Glasgow.....	New Glasgow.
Dauphinee, A. T.....	Shelburne.....	Shelburne.
Goudey, Robt. H.....	Horton St., Yarmouth.....	Yarmouth.
Hoyt, C. M.....	Middleton.....	Middleton.
Kelly, George J.....	Bridgewater.....	Bridgewater.
McKay, H. D.....	Main St., River John.....	River John.
Myatt, Albert H.....	Oxford.....	Oxford.
Purvis, James.....	Windsor.....	Windsor.
Rottler, Albert A.....	Kentville.....	Kentville.
Steele, John D.....	Commercial St. N., Sydney.....	North Sydney.
Tingley Granite and Marble Works.....	3 Lansdowne Ave., Amherst.....	Amherst.
Truro Granite and Marble Works.....	Truro.....	Truro.
<b>NEW BRUNSWICK—</b>		
Kinsella, P. & Son.....	Kanes Corner E., St. John.....	St. John.
Lawlor & Williams.....	Chatham.....	Chatham.
Meating Enps Co., Ltd.....	St. George.....	St. George.
Milne Coutts & Co., Ltd.....	St. George.....	St. George.
Nelson Bros.....	Lower Cape.....	Lower Cape.
Oldham Marble & Granite Works.....	Fredericton.....	Fredericton.
Pelletier, Alfred B.....	St. Basile.....	St. Basile.
Price, Alfred, Estate (St. Stephens Granite Works).....	Queen St., St. Stephen.....	St. Stephen.
Sherrard, Thos. F. and Son.....	135 Victoria St., Moncton.....	Moncton.
<b>QUEBEC—</b>		
Anglin-Norcross, Ltd.....	55 Victoria St., Montreal.....	Montreal.
Aberdeen Granite and Marble Works.....	1116 Bleury St., Montreal.....	Montreal.
Beebe Monument Co.....	Beebe.....	Beebe.
Brandford, John.....	10 Drummont St., Granby.....	Granby.
Bruilt, Z.....	1 Champlain St., Valleyfield.....	Valleyfield.
Brodies, Ltd.....	1070 Rue Bleury, Montreal.....	Montreal.
Brunet, A.....	Ornstown.....	Ornstown.
Brunet, J., Ltd.....	675 Chemin-de-la-Côte des-Neiges, Montreal.....	Montreal.
Chausse, Edouard.....	66 Cascades St., St. Hyacinthe.....	St. Hyacinthe.
Coté, Victor.....	187-1st Ave., Limoulu, Quebec.....	Quebec.
Courtemanche Bros.....	Waterloo.....	Waterloo.

## Monumental and Ornamental Stone—Continued

Name of Firm	Head Office Address	Location of Plant
<b>QUEBEC—Concluded</b>		
Daleggio, François.....	726 Chemin Côte-des-Neiges, Montreal.....	Montreal.
Deaudelin & Baron.....	92 St. Antoine St., St. Hyacinthe.....	St. Hyacinthe.
Delwaide & Goffin.....	Chicoutimi.....	Chicoutimi.
Ducharme, Z.....	41 Notre-Dame, Victoriaville.....	Victoriaville.
Dussault, Theo. & Cie.....	Mount Laurier, Quebec.....	Quebec.
Gignac, Azarias.....	St. Alban.....	St. Alban.
Gingras, Roch.....	Ste. Foy.....	Ste. Foy.
Gosselin et Fils.....	Beauceville Est.....	Beauceville Est.
Guerretto, Joseph.....	St. Philippe De Néri.....	St. Philippe.
Hambly, Richard.....	Contrecoq.....	Contrecoq.
Hazelton, Wm.....	Beebe.....	Beebe.
Hill, Clayton J.....	Richmond.....	Richmond.
Iberville Granite Works.....	97 Stevenson St., Iberville.....	Iberville.
Jacques, Olivier.....	18 rue Shaw, Lévis.....	Lévis.
Jean, Xavier.....	St. Fabien.....	St. Fabien.
Laforce & Prères.....	308½ St. Joseph St., Québec.....	Québec.
Lefebvre, J. A.....	78-3rd St., Limoilou, Québec.....	Québec.
Lemay, Alcide.....	Deschailions.....	Deschailions.
McKenney, V. B.....	Bedford.....	Bedford.
Perron, Godfroy.....	Contrecoq.....	Contrecoq.
Perusse, Alcide.....	St. Marc des Carrières.....	St. Marc des Carrières.
Poulin, P. A.....	724 Champlain St., St. John.....	St. John.
Roberge, P.....	69 Blvd., Langelier, Québec.....	Québec.
Robertson, Fred.....	Beebe Junction.....	Beebe Junction.
Rolland, J. A.....	1285 Rue St. Valier, Québec.....	Québec.
Savard, J. Bte.....	Ste. Anne de la Pêrade.....	Ste. Anne de la Pêrade.
Shawville Marble & Granite Co.....	Box 132 Shawville.....	Shawville.
Smith Bros., of Montreal, Ltd.....	2116 Bleury St., Montreal.....	Montreal.
Smith Marble and Construction Co., Ltd.....	145 Van Horne Ave., Montreal.....	Montreal.
Stanstead Granite Quarries Co., Ltd.....	Beebe.....	Beebe.
Sutton Marble & Granite Co.....	Sutton.....	Sutton.
Thompson, T. C.....	270 Wellington St., S. Sherbrooke.....	Sherbrooke.
<b>ONTARIO—</b>		
Adams, Geo.....	561-563 Dundas St., Woodstock.....	Woodstock.
Allan, Wm.....	Brampton.....	Brampton.
Alpaugh, J.....	St. Andrews St., Fergus.....	Fergus.
Ambrose, J. L. & Son.....	Guelph.....	Guelph.
Arnprior Marble and Granite Works.....	Arnprior.....	Arnprior.
Austin, P. O.....	44 Colbourne St., Simcoe.....	Simcoe.
Bayne, Daniel.....	Kemptville.....	Kemptville.
Beal, J. R. & Son.....	Pembroke.....	Pembroke.
Border Builders Supply Co., Ltd.....	1436 Howard Ave., Windsor.....	Windsor.
Bounsal, E. R.....	Division St., Bowmanville.....	Bowmanville.
Boyer, H. & Son.....	Box 28, Bracebridge.....	Bracebridge.
Bracebridge Marble & Granite Works.....	Box 28, Bracebridge.....	Bracebridge.
Brantford Monument Works.....	Brantford.....	Brantford.
Braun, Casper.....	295 King St., W. Kitchener.....	Kitchener.
Brown & Nettleship.....	R. R. 4, St. Catharines.....	St. Catharines.
Brown, Robert.....	376 Sparks St., Ottawa.....	Ottawa.
Cater & Worth.....	135 Main St., E. Galt.....	Galt.
Central Canada Stone Co., Ltd.....	278 Booth Ave., Toronto.....	Point Edward.
Central Marble & Granite Works.....	1284 Dundas St., W. Toronto.....	Toronto.
Chapman, Wm. E.....	Box 24, Seaforth.....	Seaforth.
Coker, John.....	35 Market Square, Chatham.....	Chatham.
Colby, C. H.....	Chatham.....	Chatham.
Collingwood Granite & Marble Works.....	Collingwood.....	Collingwood.
Corbett, A. J.....	Main St., Mt. Forest.....	Mt. Forest.
Corley, A. C.....	Main St., Brighton.....	Brighton.
Coughlin, John.....	216 Junier St., Peterborough.....	Peterborough.
Coughlin, Michael.....	303 Erskine Ave., Toronto.....	Toronto.
Creber Bros.....	204 Kingston Road, Toronto.....	Toronto.
Creber Son & Company.....	1333 St. Clair Ave., W. Toronto.....	Toronto.
Cunningham & Pryde.....	Exeter.....	Exeter.
Davison, Geo. J.....	Paisley.....	Paisley.
de Carle, Chas. W. and Victor.....	R. R. 3, Brockville.....	Brockville.
Delanty, Patrick E.....	Cobourg.....	Cobourg.
Dillon, Joseph.....	Gananoque.....	Gananoque.
Doan & Partner.....	20 Elgin St., St. Thomas.....	St. Thomas.
Doyle, Jno F.....	209-8th St., East Owen Sound.....	Owen Sound.
Durward, John.....	Box 312, Kincardine.....	Kincardine.
Duvall, George R.....	Main St., Alexandria.....	Alexandria.
Excelsior Marble and Granite Works.....	37 Pitt St., E. Windsor.....	Windsor.
Fallon Bros.....	380-393 Princess St., Kingston.....	Kingston.
Froats, Geo. H. & Co.....	Renfrew.....	Renfrew.
George, John J.....	Pt. Elgin.....	Pt. Elgin.
Gibson, J. G. Marble and Granite Co., Ltd.....	94 Winchester St., Toronto.....	Toronto.
Gibson, John F.....	Winchester.....	Winchester.
Gould, A. J.....	Box 274, Uxbridge.....	Uxbridge.
Halladay, B. S.....	Chesley.....	Chesley.
Hamilton & Sons.....	228 Woolwich St., Guelph.....	Guelph.
Hayes Bros. Co.....	Sudbury.....	Sudbury.
Herbert, T. H.....	60 Wentworth St., Hamilton.....	Hamilton.
Hibberd, Arthur.....	195 Melita Ave., Toronto.....	Toronto.

## Monumental and Ornamental Stone—Continued

Name of Firm	Head Office Address	Location of Plant
<b>ONTARIO—Concluded</b>		
Hoidge Marble Co., Ltd.	34 Price St., Toronto	Toronto.
Hurst & Rogers	1181-1189 Queen St., W. Toronto	Toronto.
Isaac, Jas. & Son	30 Dupont St., Toronto	Toronto.
Jackson, J. H.	South Shaftsbury Ave. and C. P. R. tracks, Toronto	Toronto.
Johnston, T. & Son	Paisley	Paisley.
Jones & Stevens	277 Hideau St., Ottawa	Ottawa.
Jones, Thomas C.	Listowel	Listowel.
Jones, W. A.	Main St., W. Pictou	Pictou.
Kilvington Bros.	1357 St. Clair Ave. W., Toronto	Toronto.
Lake Superior Granite & Marble Works	111 Wellington St. W. Sault Ste. Marie	Sault Ste. Marie.
Leamington Granite & Marble Works	Eric St. N. Leamington	Leamington.
Leeder, W. J.	Gananoque	Gananoque.
Lindsay Monumental Works	11 Cambridge St., N. Lindsay	Lindsay.
Lipper, F. & Sons	Durham St., Walkerton	Walkerton.
Lloyd, T.	Main St., Prescott	Prescott.
London Marble and Granite Co.	483 Richmond St., London	London.
Luesby, George W.	Cor. Main & Queen St., Newmarket	Newmarket.
Murtel & Cummings	Vankleek Hill	Vankleek Hill.
Mutheson, John F.	Whitby	Whitby.
McCallum Granite Co., Ltd.	397 Princess St., Kingston	Kingston.
McElroy, H. J.	154 Woolwich St., Guelph	Guelph.
McIntosh Granite Co., Ltd., of Toronto	1623 Yonge St., Toronto	Toronto.
McKay, Alexander	2 Browns Ave., Toronto	Toronto.
McMillan Granite Co., Ltd.	105 Ontario St., Sarnia	Sarnia.
Middleton Marble and Granite Co., Ltd.	122 Main St., E., Hamilton	Hamilton.
Minna, Charles	Box 35 B., Wardsville	Wardsville.
Moore Bros.	404 Front St., Belleville	Belleville.
Moss, Jno. O.	Box 412, Newmarket	Newmarket.
Napanee Marble and Granite Works	Napanee	Napanee.
Nicholson, T. G.	1117 Yonge St., Toronto	Toronto.
Nobbs, A. & E.	Cor. William and C. P. R., London	London.
North Bay Marble Works	Klock Ave., North Bay	North Bay.
Oakley, Geo. & Son, Ltd.	278 Booth Ave., Toronto	Toronto.
Ontario Marble Co., Ltd.	Maria St., Peterborough	Peterborough.
Ontario Marble & Granite Works	187 Kent St. W., Lindsay	Lindsay.
Ottawa Cut Stone Co.	7 & 9 Isabella St., Ottawa	Ottawa.
Perrott, Joseph	Alliston	Alliston.
Pollard, James	715 Queen St., Sault Ste. Marie	Sault Ste. Marie.
Porterfield & Colquhoun	Mitchell	Mitchell.
Rhodes, Thomas & Sons	Cayuga	Cayuga.
Richardson, Robt. Harvey	Hanover	Hanover.
Ritchie, Jas.	51 Catharine St., Ottawa	Ottawa.
Ritchie Cut Stone Co., Ltd.	191 Grant Ave., Hamilton	Hamilton.
Rueli, T. J. & Son	Wellington St., St. Marys	St. Marys.
Rutledge, S. H.	Orangeville	Orangeville.
Rutter, Wm.	Ontario St., Port Hope	Port Hope.
Sanderson, R. J. Marble Co.	33 Peter St., Orillia	Orillia.
Sarnia Granite and Marble Works	156 Victoria St., Sarnia	Sarnia.
Scott, John F.	176 E. Main St., Galt	Galt.
Scott Bros.	38 McGee St., Toronto	Toronto.
Sherwood, J. H.	551 Bellune St., Peterborough	Peterborough.
Simcoe Marble Works	20 Owen St., Barrie	Barrie.
Skelton, E. J. & Son	Walkerton	Walkerton.
Smith Monument Co.	1764 Yonge St. W., Toronto	Toronto.
Smith, R. B.	Merrickville	Merrickville.
Smyth, Frank W.	344 Wellington St., London	London.
Snider, L. R.	Humberstone	Humberstone.
Steud, Arthur	148 Central Ave., Hamilton	Hamilton.
Steiner, J.	409 Dundas St., Toronto	Toronto.
Thinke, H. W.	Westport	Westport.
Thatcher & Co.	39 Market Square, Chatham	Chatham.
Thomson, Monument Co., Ltd.	862 Dupont St., Toronto	Toronto.
Twin City Marble and Granite Co.	386 Brock St., E., Fort William	Fort William.
Vokes, John	884 Dupont St., Toronto	Toronto.
Wardell Monumental Works	2896 Dundas St. W., Toronto	Toronto.
Webb, George	448 Summerhill Ave., Toronto	Toronto.
Wildenmittie, Benjamin	5 Bond St., St. Catharines	St. Catharines.
Wideman, L. C. & Son	Stouffville	Stouffville.
Williamson, W. A. & Son	Gananoque	Gananoque.
Williamscoot, B. S.	868-3rd Ave. E., Owen Sound	Owen Sound.
Standard Stone Co., Ltd.	1440 Howard Ave., Windsor	Windsor.
Stubbs, C. E.	Morrisburg	Forran's Point.
Trenton Marble & Granite Works	Front & Ford Sts., Trenton	Trenton.
<b>MANITOBA—</b>		
Allen & Grant	401 Bertrand St., St. Boniface	St. Boniface.
Brook, J. H. & Sons	266 Main St., Winnipeg	Winnipeg.
Campbell, R. M.	90 Hespeler St., Winnipeg	Winnipeg.
Gillis, Aug. & Son	Spruce and Richard Sts., Winnipeg	Winnipeg.
Guinn & Simpson Co., Ltd.	Box 511, Portage la Prairie	Portage la Prairie.
Hooper Marble and Granite Co., Ltd.	547 Portage Ave., Winnipeg	Winnipeg.
Johnston, James J.	525 Cordlyon Ave., Winnipeg	Winnipeg.
Memorial Marble & Tile Co., Ltd.	71 Main St., Winnipeg	Winnipeg.

## Monumental and Ornamental Stone—Concluded

Name of Firm	Head Office Address	Location of Plant
<b>MANITOBA—Concluded</b>		
Pierson, C. H.	201 Sixth St., Brandon	Brandon.
Pirotton, N.	385 rue Du Bac, St. Boniface	St. Boniface.
Somerville & Co.	1417 Rosser Ave., Brandon	Brandon.
Western Stone Co.	St. Boniface	St. Boniface.
Wheeldon & Sons	1055 Main St., Winnipeg	Winnipeg.
<b>SASKATCHEWAN—</b>		
Moose Jaw Marble and Granite Works, Ltd.	706 Athabasca St. E., Moose Jaw	Moose Jaw.
Regina Marble and Tile Ltd.	826 Dewdney Ave., Regina	Regina.
Sask. Marble & Construction Co., Ltd.	117 Eighth St. E., Prince Albert	Prince Albert.
Saskatoon Granite & Marble Co., Ltd.	113 Ave. A. North, Saskatoon	Saskatoon.
Western Granite Marble & Stone Co., Ltd.	714-716—2nd Ave. N., Saskatoon	Saskatoon.
Yorkton Monumental Works	20 Agricultural Ave., Yorkton	Yorkton.
Young, Alex. Ltd.	Cor. Fourth Ave. and Seart St., Regina	Regina.
<b>ALBERTA—</b>		
Alberta Granite, Marble & Stone Co., Ltd.	10702—101st St., Edmonton	Edmonton.
Capital Stone Works, Ltd.	10330—108th St., Edmonton	Edmonton.
Hart, Albert J.	1831—2nd St. East, Calgary	Calgary.
Lethbridge Monumental Works	325—8th St. S., Lethbridge	Lethbridge.
North West Granite & Marble Co.	8537—109th St., Edmonton	Edmonton.
Somerville Co., Ltd.	2313—2nd St. E., Calgary	Calgary.
<b>BRITISH COLUMBIA—</b>		
Art Monument Co., Ltd.	602—15th Ave. E., Vancouver	Vancouver.
Continental Marble Co., Ltd.	1404 Dominion Bldg., Vancouver	Vancouver.
Independent Monument Co.	995—20th Ave. E., Vancouver	Vancouver.
Keast & Allan	880 Beach Ave., Vancouver	Vancouver.
Mellins, C. E. J.	Nanaimo	Nanaimo.
Mortimer, John & Son	720 Courtenay St., Victoria	Victoria.
Newall, Jno. B.	Cor. Fraser and 36th Ave., Vancouver	Vancouver.
Stewart Monumental Works, Ltd.	1401 May St., Victoria	Victoria.
Vernon Granite & Marble Co.	Box 285, Vernon	Vernon.

## Petroleum Products

## (a) Lubricating Oils

<b>NEW BRUNSWICK—</b>		
Canadian Independent Oil Ltd.	East St. John	East St. John.
<b>QUEBEC—</b>		
Economic Products, Ltd.	1040 Durocher St., Montreal	Montreal.
Three in One Oil Co.	130 William St., New York, U.S.A.	2nd Ave. and C.P.R. Tracks, Ville St. Pierre, Montreal.
<b>ONTARIO—</b>		
Cataraugus Refining Co., Ltd.	1 Sherbourne St., Toronto	Toronto.
Dominion Oil Co., Ltd.	263 Wallace Ave., Toronto	Owen Sound.
Galena-Signal Oil Co.	134 Royce Ave., Toronto	Toronto.
Ontario Lubricating Co., Ltd.	120 Chatham St., Hamilton	Hamilton.
Peterson Core Oil & Mfg. Co. of Canada, Ltd.	718 S. Kolmar Ave., Chicago, Ill., U.S.A.	Harmony Ave., Hamil- ton.
<b>ALBERTA—</b>		
Canadian Lubricants, Ltd.	10589—95th St., Edmonton	Edmonton

## (b) Petroleum Refining

<b>NOVA SCOTIA—</b>		
Imperial Oil Refineries, Ltd.	445 S. Christina St., Sarnia, Ont.	Dartmouth.
<b>QUEBEC—</b>		
Frontenac Oil Refineries Ltd.	721 Canada Cement Bldg., Montreal	Montreal.
Imperial Oil Refineries, Ltd.	445 S. Christina St., Sarnia, Ont.	5250 Notre Dams St. E., Montreal.
<b>ONTARIO—</b>		
British American Oil Co., Ltd.	1306 Royal Bank Bldg., Toronto	Toronto.
Canadian Oil Refineries, Ltd.	707 Excelsior Life Bldg., Toronto	Petrolia.
Imperial Oil Refineries, Ltd.	445 S. Christina St., Sarnia	Sarnia.
McCull Bros.	Foot of Cherry St., Toronto	Toronto.

## Petroleum Products—Concluded

## (b) Petroleum Refining—Concluded

Name of Firm	Head Office Address	Location of Plant
<b>MANITOBA—</b>		
North Star Oil & Refining Co.....	705-710 Notre Dame Investment Bldg., Winnipeg	St. Boniface.
<b>SASKATCHEWAN—</b>		
Imperial Oil Refineries, Ltd.....	445 S. Christina St., Sarnia, Ont.....	Regina.
<b>ALBERTA—</b>		
Alberta Refining Co., Ltd.....	Coultas	Coultas.
Alberta Refineries Ltd.....	Edmonton	Edmonton.
Arctic Refineries Ltd.....	Lethbridge	Lethbridge.
Canada Southern Oil & Refining Co., Ltd.	Alberta Corners, Black Diamond	Black Diamond.
Dalhousie Oil	407 Grain Exchange, Calgary	Okotoks.
Imperial Oil Refineries, Ltd.....	445 S. Christina St., Sarnia, Ont.....	Calgary.
Jennings Refining Co., The.....	207-8th Ave. West, Calgary	Calgary.
Royalite Oil Co., Ltd.....	239-6th Ave., W. Calgary	Black Diamond.
<b>BRITISH COLUMBIA—</b>		
Imperial Oil Refineries, Ltd.....	445 S. Christina St., Sarnia, Ont.....	Toco.
Union Oil Co. of Canada, Ltd.....	617 W. 7th St., Los Angeles, Cal., U.S.A.....	Port Moody.

## Miscellaneous Non-Metallic Mineral Products

## (a) Artificial Abrasives

<b>QUEBEC—</b>		
Canadian Carborundum Co., Ltd.....	P. O. Box 536, Niagara Falls, N.Y.....	Shawinigan Falls.
<b>ONTARIO—</b>		
Abrasive Co. of Canada, Ltd.....	Burlington St. and Harvey Lane, Hamilton	Hamilton.
Canadian Carborundum Co., Ltd.....	P. O. Box 536, Niagara Falls, N.Y.....	Niagara Falls, Ont.
Delaney & Petit.....	133 Jefferson Ave., Toronto	Toronto.
Exolon Co.....	Blasdel, New York	Thorold.
Norton Company.....	New Bond St., Worcester, Mass., U.S.A.....	Chippewa.

## (b) Abrasive Products

<b>ONTARIO—</b>		
Abrasives Ltd.....	Canal Road, Brantford	Brantford.
Brantford Grinding Wheel Co. of Canada, Ltd.....	188 Pearl St., Brantford	Brantford.
Canadian Hart Wheels, Ltd.....	800 Burlington St. E., Hamilton	Hamilton.
Dominion Abrasive Wheel Co., Ltd.....	49 Main St., Mimico	Mimico.
Lion Grinding Wheel Co	Brockville	Brockville.
Norton Company of Canada, Ltd.....	3 Bench Road, Hamilton	Hamilton.
Ontario Abrasive Wheels Ltd.....	Water St., Prescott	Prescott.
Prescott Emery Wheel Co	Prescott	Prescott.
Pilot Manufacturing Co., Ltd.....	126 Samuelson St., Galt	Galt.

## (c) Artificial Graphite and Electrodes

<b>ONTARIO—</b>		
Acheson Graphite Co.....	Niagara Falls, N.Y., U.S.A.....	Cor. Buttrey Ave. and Swinyard St., Niagara Falls.
Electro-Metallurgical Co. of Canada.....	46 King St. W., Toronto	Welland.

## (d) Gypsum Products

<b>QUEBEC—</b>		
Alluisi, Arthur.....	2115 rue St-Laurent, Montreal	Montreal.
Petrucchi, T. Carl.....	316-320 Notre Dame E., Montreal	Montreal.
<b>ONTARIO—</b>		
Alabastine Co., Ltd.....	Paris	Paris
Crystalite Stone Products, Ltd.....	Hillyard St., Hamilton	Hamilton.
Elsary Gypsum Co., Ltd.....	Box 1295, Scottsville, N.Y., U.S.A.....	Caledonia.
Hynes, H. J., Ltd.....	854 Dupont St., Toronto	Toronto.
Nu-Art Kera Tile Co., Ltd.....	7 Hunter St. E., Peterborough	Peterborough.
Ontario Gypsum Co.....	Paris	Paris.

## Miscellaneous Non-Metallic Mineral Products—Concluded

## (e) Mica Trimming

Name of Firm	Head Office Address	Location of Plant
QUEBEC—		
Loughborough Mining Co., Ltd.	Sorel	Yamaska.
Loughborough Mining Co., Ltd.	Sorel	St. Casimir.
Loughborough Mining Co., Ltd.	Sorel	Pont Rouge.
Loughborough Mining Co., Ltd.	Sorel	Pierroville.
Loughborough Mining Co., Ltd.	Sorel	Sorel.
Loughborough Mining Co., Ltd.	Sorel	St. Aimé.
Loughborough Mining Co., Ltd.	Sorel	St. Raymond.
Mica Co. of Canada, Ltd.	2 Lois St., Hull.	Hull.
Mica Insulator Co.	Victoriaville	Manseau.
Mica Insulator Co.	Victoriaville	Lyster.
Mica Insulator Co.	Victoriaville	Plessisville.
Mica Insulator Co.	Victoriaville	St. Agapit.
Mica Insulator Co.	Victoriaville	Deschailions.
Mica Insulator Co.	Victoriaville	Victoriaville.
Mica Insulator Co.	Victoriaville	Daveluyville.
Mineral Products Co.	8 Wellington St. E., Toronto, Ont.	Hull.
ONTARIO—		
Filion, S. O.	95-97 Duke St., Ottawa	Ottawa.
Laurentide Mica Co., Ltd.	Box 911, Pittsburgh, Pa., U.S.A.	Rockland.

## (f) Miscellaneous Non-Metallic Mineral Products, n.e.s.

ONTARIO—		
Hamilton Facing Mill Co., Ltd.	Hamilton	Hamilton.

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