

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

COAL STATISTICS FOR CANADA

Historical File Copy

FOR THE CALENDAR YEAR

1931

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NOTES ON STATISTICS OF PRODUCTION

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

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

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

Manufactures of—

- (1) **Vegetable Products**, including—Coffee and Spices; Cocoa and Chocolate; Preserved and Canned Products; Pickles, Vinegar and Cider; Flour and Cereals; Bread and other Bakery Products; Macaroni and Vermicelli; Distilled and Brewed Liquors and Wines; Rubber Products; Starch and Glucose; Sugar; Tobacco Products; Linseed Oil and Oil Cake.
- (2) **Animal Products**, including—Fish and Fish Products; Dairy Factory Products; Meat and Meat Products; Leather and Leather Products; Furs and Fur Products.
- (3) **Textiles and Textile Products**, including—Cotton Textiles (Cloth, Yarn, Thread and Waste); Woolen Textiles (Cloth, Yarn, Blankets, Felt and Waste); Silk Products; Factory-Made Clothing; Carpets, Rugs and Mats; Cordage, Rope and Twine.
- (4) **Wood and Paper**, including—Pulp and Paper Mill Products; Paper Goods; Printing, Publishing and Lithographing; Saw and Planing Mill Products; Furniture; Carriages, Wagons and Sleighs; Wooden Containers; Woodenware; Turned Wood Products; and the Output of Similar Wood-Using Industries.
- (5) **Iron and Steel and Their Products**, including—Pig Iron and Ferro-Alloys; Steel and Rolled Products; Castings and Forgings; Boilers, Tanks and Engines; Agricultural Implements; Machinery; Automobiles; Auto Parts and Accessories; Bicycles; Railway Rolling Stock; Wire and Wire Goods; Sheet Metal Products; Hardware and Tools; Bridge Building and Structural Steel Work; Miscellaneous Iron and Steel Products.
- (6) **Manufactures of Non-Ferrous Metal Products**, including—Aluminium Products; Brass and Copper Products; Lead, Tin and Zinc Products; Jewellery and Silverware; Electrical Apparatus and Supplies; Non-Ferrous Smelting and Refining; Miscellaneous Non-Ferrous Metal Products.
- (7) **Manufactures of the Non-Metallic Minerals**, including—Aerated Waters—Asbestos Products—Cement—Cement Products—Coke and Gas—Glass (blown, cut, ornamental, etc.)—Lime—Petroleum Products—Products from Domestic Clays—Products from Imported Clays—Salt—Sand-Lime Brick—Dressed Stone—Artificial Abrasives and Abrasive Products—Miscellaneous Non-Metallic Mineral Products including (a) Artificial Graphite and Electrodes (b) Gypsum Products (c) Mica Products (d) Magnesite Products (e) Miscellaneous Non-Metallic Mineral Products, n.e.s.
- (8) **Chemicals and Allied Products**, including—Coal Tar Distillation; Acids, Alkalies, and Salts—Compressed Gases; Explosives, Ammunition and Fireworks; Fertilizers; Medicinal and Pharmaceutical Preparations; Paints, Pigments and Varnishes; Soaps and Washing Compounds—Toilet Preparations; Inks; Adhesives; Polishes and Dressings; Wood Distillation; Miscellaneous Chemical Products including (a) Baking Powder, (b) Boiler Compounds, (c) Plastics; (d) Insecticides; (e) Sweeping Compounds, (f) Disinfectants; (g) Matches; (h) Dyes and Colours; (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 output of coal from Canadian mines in 1931 totalled 12,243,211 short tons, a reduction of 18 per cent from that of 1930. Decreases occurred in all provinces except Saskatchewan where an increase of 14 per cent was reported. In the Yukon Territory production was also greater.

Imports of all grades of coal into Canada during the year fell off 23 per cent from 1930 but imports of anthracite from Great Britain were lower by only 12.6 per cent and it is interesting to note that British coal supplied over 27 per cent of the Canadian anthracite requirements in 1931 as against 23 per cent in the preceding year.

The research work done by the Federal Department of Mines on the coking of Canadian coals from both eastern and western deposits has resulted in an increase in consumption of Canadian coal, for the manufacture of coke, at Winnipeg and Montreal. During 1931 a commercial test shipment of Onakawana lignite was made to Germany. The Saskatchewan coal operators have succeeded in increasing their sales by large scale stripping and open cut methods of mining which have reduced costs. The Provincial Government of British Columbia has carried on an extensive campaign with a view to increasing the use of coal in that province as keen competition has been felt from fuel oil.

The Dominion Bureau of Statistics issues statistical information on coal and coke through three channels: (1) a monthly bulletin issued on the twentieth of each month, showing tonnage output from Canadian coal mines as well as imports and exports by provinces; (2) a printed quarterly report giving revised figures for each month under review and containing data on output by districts and by provinces, imports and exports by customs ports, tonnage lost, number of employees, etc.; and (3) the present annual printed report which assembles detailed information in permanent form.

In the monthly report early publication is the primary consideration, the production figures being assembled by postcard and by telegram. The quarterly and annual statistics which must necessarily be more accurate are obtained from producers' written reports which are signed by officers of the companies furnishing the figures.

The thanks of the Bureau are tendered to the coal operators who, through the agency of their respective provincial governments, have furnished the Bureau with data from which the present report has been compiled. The tables on imports and exports of coal have been prepared from statistics supplied monthly by the Department of National Revenue. The Bureau gratefully acknowledges its indebtedness to the governments of the coal-producing provinces and to the Department of National Revenue for co-operation in this connection.

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

R. H. COATS,
Dominion Statistician.

DOMINION BUREAU OF STATISTICS,
OTTAWA, August 23, 1932.

STATISTICS ON COAL AS COMPILED IN THE DOMINION BUREAU OF STATISTICS

The following is a statement of the statistics on coal at present maintained in the Dominion Bureau of Statistics.

(1) COAL MINE STATISTICS

The Mining, Metallurgical and Chemical Branch of the Bureau obtains a monthly statement from each coal mine in Canada, showing the output and distribution of coal by grades. The distribution statistics referred to, differentiate the amounts (a) supplied to colliery employees, (b) used for power, (c) supplied to railroads, (d) supplied for ships' bunkers, (e) put on bank, and (f) shipped for commercial consumption. The destinations of all shipments from the mines are shown by provinces. Number of employees, days worked, time and tonnages lost, etc., are also shown. These statistics are collected monthly in co-operation with the Provincial Mines Departments.

The Bureau previously also obtained a weekly statement from each mine showing daily output, but this has been discontinued as the monthly records were found to be more accurately checked.

At the end of the year a detailed statement on capital, expenses, equipment, power and other statistics of a general character are obtained from each mine, as well as a summary and check of the monthly production records.

(2) IMPORTS AND EXPORTS

In addition to the usual record of imports and exports shown by months in the quarterly trade report, a special monthly record by kinds of coal and by ports of entry is secured from the Department of National Revenue. This throws light on regional supply and keeps the general data as to supply more up to date. A similar record of exports of Canadian coal by ports of exit is maintained.

(3) PUBLICATIONS OF THE BUREAU ON COAL

The Bureau issues the following reports:

- (1) A condensed report on production, imports and exports of coal and coke is issued monthly, publication being made about the twentieth of the next following month.
- (2) A more general review is published quarterly, showing statistics for each month, for the quarter, and for the year to date on the output by coal-mining districts and by provinces, imports and exports by ports and by kinds of coal, employment in coal-mining, and tonnage lost. There is also a section on coke showing production, imports, exports, distribution and consumption by months and by provincial groups.
- (3) A preliminary annual report on production, imports and exports; an annual report on production, imports, distribution, labour, capital, etc.

It may be added that the Bureau handled the statistical work of the Fuel Controller in 1917-18 and later, when more elaborate records were maintained, including, (a) a detailed record of dealers' costs and margins, (b) a record of the purchases of individual consumers who do not buy from dealers, but directly from the mine, such as gas companies, large industrial plants, railway companies, etc., (c) a weekly return from railway agents of cars of coal unloaded at each railway station throughout Canada, (d) a monthly statement from coal dock companies showing receipts, distribution of coal and stocks on hand. The latter records were discontinued on the cessation of fuel control, the dealers' general returns alone being maintained until March 31, 1924.

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DOMINION BUREAU OF STATISTICS

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

COAL STATISTICS FOR CANADA

FOR THE CALENDAR YEAR 1931

CHAPTER ONE

CANADA

Canadian mines produced 12,243,211 tons of coal valued at \$41,207,682 in 1931, a decline of 17.7 per cent in quantity and 22 per cent in value from the 1930 output of 14,881,324 tons worth \$52,849,748. The 1931 production included 8,861,360 tons of bituminous coal, 471,343 tons of sub-bituminous coal and 2,910,508 tons of lignite coal. Nova Scotia's output declined 20.7 per cent, New Brunswick's 13 per cent, Alberta's 20.7 per cent, and British Columbia's 10 per cent. Saskatchewan's output increased 14.4 per cent and the Yukon's 38.4 per cent.

Mines in operation during the year produced only 60 per cent of their possible output as compared with 70 per cent in 1930. The output loss in 1931 was computed at 8,193,947 tons; 95.2 per cent of which was due to lack of orders. An estimated additional loss of 52,210 tons was caused through nine labour disputes involving 2,129 men with a consequent loss in working time of 11,523 man-days. Nova Scotia mines in operation during the year produced 58 per cent of their possible output; New Brunswick mines, 63 per cent; Saskatchewan mines, 65 per cent; Alberta mines, 58 per cent, and British Columbia mines, 67 per cent.

Interprovincial shipments of coal provide important outlets for Canadian coal. In 1931, Nova Scotia shipped 408,843 tons of coal to New Brunswick, 76,483 tons to Prince Edward Island, 1,746,085 tons to Quebec, and 52 tons to Ontario. New Brunswick mines made a small shipment to Quebec. Saskatchewan lignite shipments included 244,408 tons to Manitoba, 1,524 tons to Ontario, 71 tons to British Columbia, and 33 tons to Alberta. Mines in Alberta supplied the Saskatchewan market with 903,801 tons, Manitoba with 443,107 tons, British Columbia with 171,835 tons, Ontario with 26,750 tons and Quebec with 100 tons. British Columbia shipped 66,725 tons to Saskatchewan 57,562 tons to Manitoba, 34,247 tons to Alberta, and 72 tons to Ontario.

Sales of Canadian coal for railroad use in 1931 totalled 3,146,967 tons, or 28.7 per cent of the total mine shipments; in 1930, railroads absorbed 30.37 per cent or 4,085,228 tons of the coal shipped from Canadian mines.

Exports of coal from Canada have declined sharply since 1927. In that year, 1,113,330 tons were exported from Canada; in 1928, a decline to 863,941 tons was recorded and in 1930 the exports were still lower at 624,512 tons. During 1931, exportations amounted to 359,853 tons or only 32.3 per cent of the 1927 total.

Coal imports into Canada decreased 23.2 per cent to 13,531,831 tons in 1931 as compared with the 1930 importations of 17,620,074 tons. Receipts of coal from the United States totalled 12,467,815 tons, consisting of 2,236,423 tons of anthracite, 10,224,982 tons of bituminous and 6,410 tons of lignite. Imports from Great Britain were recorded at 998,662 tons, made up of 876,364 tons of anthracite and 122,298 tons of bituminous. Despite the fact that the imports of Great Britain coal were 12.6 per cent below the 1930 total, British coal supplied 27.6 per cent of the Canadian anthracite requirements in 1931 as against 23.4 per cent in the preceding year. Canada's coal supply was further supplemented by 60,762 tons from Germany, and 4,592 tons from French Indo-China.

Employment was furnished to 27,860 employees by Canadian coal mines in 1931 as compared with the 1930 average of 29,172. In Eastern Canada 14,528 persons were employed and in the western mines 13,332 employees were engaged during the year. Surface employees

averaged 223 days work while underground men worked only 174 days; in 1930 the averages were—surface, 250 days and underground, 210 days. Salaried employees and wage-earners received \$28,802,428 during 1931 as compared with \$36,442,361 in the preceding year and \$42,376,378 in 1929.

The decline in employment in the coal mining industry is clearly shown in the number of man-days work done during the year, namely, 4,891,541 as against 6,076,684 in 1930 and 7,117,692 in 1929. The daily earning power per man was computed at \$5.28 in 1931; in 1930 the average was \$5.47 and in 1929 it was \$5.49.

Large quantities of coke, artificial and natural gas, fuel oil, wood and electricity were used by Canadian domestic and industrial consumers in addition to the 25.4 million tons of coal consumed in 1931. Coke made available for use in Canada during the year amounted to 2,547,916 tons as compared with 3,417,233 tons in the previous year. In 1931, the production of coke in Canada was 1,835,622 tons, of which quantity 1,171,929 tons were sold. Imports of coke amounted to 733,274 tons in 1931 and exports were recorded at 20,980 tons. The coal equivalent of coke imported during the year was 1,128,113 tons. Canadian coal used in the manufacture of coke totalled 561,547 tons, in addition to which 1,972,854 tons of imported coal were carbonized.

Corresponding with the decreased consumption of other fuels, manufactured gas sales for domestic and industrial use in 1931 declined 3.4 per cent to 17,111,432 thousand cubic feet. Consumption of natural gas was at a lower level than in 1930 and included approximately 17,000,000 thousand cubic feet for domestic purposes and 9,000,000 thousand cubic feet for industrial use. Domestic consumption of natural gas represented an estimated displacement of 680,000 tons of coal.

Domestic and industrial consumers used 428 million imperial gallons of fuel oil in 1931 as compared with 513 million imperial gallons in 1930. Fuel oil used for domestic heating in Quebec, Ontario and Manitoba, according to a survey on domestic fuel consumption made by the Dominion Fuel Board, amounted to 56,505,000 gallons in 1930. A possible coal displacement of 452,000 tons is indicated by this fuel oil consumption as compared with the 1929 total of 310,000 tons.

The Domestic Fuel Act, which expired on June 30, 1932, induced only two Canadian coke and gas producers to use Canadian coal instead of imported coal. These two operators were the Nova Scotia Light and Power Company, and the Quebec Power Company.

A statement by the Federal Department of Mines shows that large scale coking tests were carried out by the Dominion Fuel Research Laboratories and by the Montreal Coke and Manufacturing Company on washed Princess colliery coal mined by the Dominion Coal Company. These tests showed that washed Princess coal will stand indefinite storage without heating and can be used as a blend up to 35 per cent, with the American coal now being used at the Montreal plant without affecting the quality of the coke produced. During 1931 approximately 35,000 tons of this Princess coal were delivered to the Montreal coke plant for experimental purposes and since delivery it has been used regularly as a blend.

In 1930, coal from the Michel colliery in the Crow's Nest Pass district, British Columbia, was subjected to similar tests in the Mines Branch Fuel Research Laboratories and in the Winnipeg Electric Company's plant. One thousand tons of this coal were coked in the latter plant and, as a result, in 1931 forty per cent of this company's coal requirements were obtained from the Michel Colliery.

In September, 1931 a new power plant at Newcastle Wharf on Grand Lake, New Brunswick, was completed. This plant will consume approximately 20,000 tons of coal and will provide a market for all the slack and screenings produced in the district.

Development operations were continued on the Onakawana lignite deposits in the Moose River basin, Ontario, in 1931 and a commercial test shipment of 120 tons was made to Germany.

In Manitoba, a small tonnage of coal was extracted from lignite seams in the Turtle Mountains near Deloraine.

Large scale stripping and open-cut methods used in mining Saskatchewan coal and the resultant lower costs were principally responsible for the increased marketing of Saskatchewan coal in 1931. The Federal government's railway subvention also assisted materially in the shipping of this coal into the Winnipeg market.

The Alberta provincial government reports that there were few plant additions or improvements and no new mining developments of any extensive nature in the Alberta fields during the year.

Table 1.—Coal Resources of Canada and of the World*

('000' omitted)

| Province | Actual reserve | | Probable reserve | | Total metric tons |
|-----------------------------|--|--------------------|-------------------------|--------------------|-----------------------|
| | Calculation based on actual thickness and extent | | Approximate estimate | | |
| | Area Square miles | Metric tons | Area Square miles | Metric tons | |
| Canada— | | | | | |
| Nova Scotia..... | 174.31 | 2,188,151 | 346.5 | 7,530,817 | 9,718,968 |
| New Brunswick..... | | | 121.0 | 151,000 | 151,000 |
| Ontario..... | | | 10.0 | 25,000 | 25,000 |
| Manitoba..... | | | 48.0 | 160,000 | 160,000 |
| Saskatchewan..... | 306.0 | 2,412,000 | 13,100.0 | 57,400,000 | 59,812,000 |
| Alberta..... | 25,300.0 | 386,392,800 | 56,578.0 | 686,254,600 | 1,072,647,400 |
| British Columbia..... | 439.0 | 23,831,242 | 5,600.0 | 52,203,700 | 76,034,942 |
| Yukon..... | | | 2,840.0 | 4,940,000 | 4,940,000 |
| North West Territories..... | | | 300.0 | 4,800,000 | 4,800,000 |
| Arctic Islands..... | | | 6,000.0 | 6,000,000 | 6,000,000 |
| Total..... | 26,219.31 | 444,894,193 | 84,949.5 | 819,465,117 | 11,234,269,310 |
| The World— | | | | | |
| Oceania..... | | | | | 170,410,000 |
| Asia..... | | | | | 1,279,546,000 |
| Africa..... | | | | | 57,839,000 |
| America..... | | | | | 5,165,528,000 |
| Europe..... | | | | | 754,198,000 |
| Total..... | | | | | 7,397,534,000 |

*From The Coal Resources of the World published by the Twelfth International Geological Congress, 1913.
 †In this total 20,000,000 tons have been deducted for the amount of coal extracted in Alberta to 1911.

Table 2.—Output of Coal from Canadian Mines, 1785-1931

| Year | Short tons | Value | Average per ton | Year | Short tons | Value | Average per ton |
|----------------|------------|------------|--------------------|-------------------|--------------------|----------------------|--------------------|
| | | \$ | \$ | | | \$ | \$ |
| 1785-1866..... | 2,863,826 | 4,905,402 | 1.71 | 1900..... | 5,777,319 | 13,742,178 | 2.38 |
| 1867..... | 631,320 | 1,056,725 | 1.67 | 1901..... | 6,486,325 | 12,699,243 | 1.96 |
| 1868..... | 623,392 | 1,073,061 | 1.72 | 1902..... | 7,466,681 | 15,210,877 | 2.04 |
| 1869..... | 687,825 | 1,155,282 | 1.68 | 1903..... | 7,960,364 | 15,942,833 | 2.00 |
| 1870..... | 752,135 | 1,243,130 | 1.65 | 1904..... | 8,254,595 | 16,592,231 | 2.01 |
| 1871..... | | | | 1905..... | 8,667,948 | 17,520,263 | 2.02 |
| 1872..... | 3,033,152 | 5,073,331 | 1.67 | 1906..... | 9,762,601 | 19,732,019 | 2.02 |
| 1873..... | | | | 1907..... | 10,511,425 | 21,381,842 | 2.32 |
| 1874..... | 1,063,742 | 1,763,423 | 1.66 | 1908..... | 10,886,311 | 25,194,573 | 2.31 |
| 1875..... | 1,039,974 | 1,747,016 | 1.68 | 1909..... | 10,501,475 | 24,781,236 | 2.36 |
| 1876..... | 994,762 | 1,729,546 | 1.74 | 1910..... | 12,909,152 | 30,999,779 | 2.39 |
| 1877..... | 1,036,670 | 1,794,415 | 1.73 | 1911..... | 11,323,388 | 26,467,646 | 2.34 |
| 1878..... | 1,089,744 | 1,941,285 | 1.78 | 1912..... | 14,512,829 | 36,019,044 | 2.48 |
| 1879..... | 1,126,497 | 2,050,630 | 1.82 | 1913..... | 15,012,178 | 37,334,940 | 2.49 |
| 1880..... | 1,482,714 | 2,657,104 | 1.79 | 1914..... | 13,637,529 | 33,471,801 | 2.45 |
| 1881..... | 1,537,106 | 2,688,821 | 1.75 | 1915..... | 13,267,023 | 32,111,182 | 2.42 |
| 1882..... | 1,848,148 | 3,248,446 | 1.76 | 1916..... | 14,483,305 | 38,817,481 | 2.68 |
| 1883..... | 1,818,684 | 3,109,635 | 1.71 | 1917..... | 14,046,759 | 43,199,831 | 3.08 |
| 1884..... | 1,984,959 | 3,593,831 | 1.81 | 1918..... | 14,077,926 | 55,192,896 | 3.68 |
| 1885..... | 1,920,977 | 3,417,807 | 1.78 | 1919*..... | 13,919,096 | 55,622,670 | 3.99 |
| 1886..... | 2,116,653 | 3,739,840 | 1.77 | 1920*..... | 16,946,764 | 82,496,538 | 4.86 |
| 1887..... | 2,429,330 | 4,388,206 | 1.81 | 1921*..... | 15,057,493 | 72,451,656 | 4.81 |
| 1888..... | 2,602,552 | 4,674,140 | 1.80 | 1922*..... | 15,157,431 | 65,518,497 | 4.32 |
| 1889..... | 2,658,303 | 4,894,287 | 1.84 | 1923*..... | 16,990,571 | 72,058,998 | 4.24 |
| 1890..... | 3,084,682 | 5,676,247 | 1.84 | 1924*..... | 13,638,197 | 53,563,986 | 3.93 |
| 1891..... | 3,577,749 | 7,019,425 | 1.96 | 1925*..... | 13,134,968 | 49,261,951 | 3.75 |
| 1892..... | 3,287,745 | 6,363,757 | 1.94 | 1926*..... | 16,478,131 | 59,875,094 | 3.63 |
| 1893..... | 3,783,499 | 7,359,080 | 1.95 | 1927*..... | 17,426,861 | 61,867,463 | 3.55 |
| 1894..... | 3,847,070 | 7,429,468 | 1.93 | 1928*..... | 17,564,293 | 63,757,833 | 3.66 |
| 1895..... | 3,478,344 | 6,739,153 | 1.94 | 1929*..... | 17,496,557 | 63,065,170 | 3.60 |
| 1896..... | 3,745,716 | 7,226,462 | 1.93 | 1930*..... | 14,881,324 | 52,849,748 | 3.55 |
| 1897..... | 3,786,107 | 7,303,597 | 1.93 | 1931*..... | 12,243,211 | 41,207,682 | 3.37 |
| 1898..... | 4,173,108 | 8,224,288 | 1.97 | | | | |
| 1899..... | 4,925,051 | 10,283,497 | 2.09 | Total..... | 484,412,157 | 1,448,619,676 | |

*For the years 1919-1931 the tonnage shown is the total output from all mines; for previous years the tonnage shown includes only sales, colliery consumption, and coal used by the operators.

Table 3.—Output of Coal in Canada, by Grades, 1918-1931

| Calendar year | Anthracite | | Bituminous | | Sub-Bituminous* | | Lignite | | Total | |
|---------------|------------|---------|------------|------------|-----------------|-----------|------------|------------|------------|------------|
| | Short tons | Value | Short tons | Value | Short tons | Value | Short tons | Value | Short tons | Value |
| | | \$ | | \$ | | \$ | | \$ | | \$ |
| 1918..... | 115,405 | | 11,636,190 | | | | 3,226,331 | | 14,977,926 | 55,192,896 |
| 1919..... | 85,579 | | 10,892,046 | | | | 2,941,471 | | 13,919,096 | 55,622,670 |
| 1920..... | 127,513 | | 13,122,924 | | | | 3,696,327 | | 16,945,764 | 42,496,538 |
| 1921..... | 96,964 | 330,699 | 11,080,477 | 58,848,444 | | | 3,280,052 | 13,272,513 | 15,057,493 | 72,451,656 |
| 1922..... | 40,417 | 122,538 | 11,630,488 | 53,348,507 | | | 3,486,526 | 12,047,452 | 15,157,431 | 65,518,497 |
| 1923..... | 107 | 322 | 12,941,877 | 58,478,670 | 466,492 | 1,399,424 | 3,582,093 | 12,180,570 | 16,990,571 | 72,058,986 |
| 1924..... | | | 9,483,732 | 40,662,894 | 599,168 | 1,761,086 | 3,564,297 | 11,170,008 | 13,638,197 | 53,593,988 |
| 1925..... | | | 8,939,607 | 36,793,501 | 570,054 | 1,731,267 | 3,624,707 | 10,737,183 | 13,134,968 | 49,261,951 |
| 1926..... | | | 12,393,079 | 48,153,572 | 489,736 | 1,458,116 | 3,595,316 | 10,263,406 | 16,478,131 | 59,875,094 |
| 1927..... | | | 13,006,996 | 49,385,818 | 596,153 | 1,784,973 | 3,923,710 | 10,696,672 | 17,425,861 | 61,867,463 |
| 1928..... | | | 12,971,744 | 50,584,108 | 740,496 | 2,076,212 | 3,852,053 | 11,097,513 | 17,564,293 | 63,757,833 |
| 1929..... | | | 12,859,822 | 49,995,261 | 668,702 | 1,908,954 | 3,968,033 | 11,160,955 | 17,496,537 | 63,065,170 |
| 1930..... | | | 10,824,839 | 41,789,061 | 633,358 | 1,705,236 | 3,453,127 | 9,355,451 | 14,881,324 | 52,849,748 |
| 1931..... | | | 8,861,360 | 33,165,730 | 471,343 | 1,211,197 | 2,910,508 | 6,830,755 | 12,243,211 | 41,207,682 |

*Not separately reported prior to 1923.

Table 4.—Output and Value of Coal in Canada by Kinds and by Provinces, 1930 and 1931

(Short tons)

| Province | 1930 | | | 1931 | | |
|------------------------------------|-----------------|------------|------------|-----------------|------------|------------|
| | Number of mines | Quantity | Value | Number of mines | Quantity | Value |
| | | | \$ | | | \$ |
| NOVA SCOTIA (Bituminous)..... | 36 | 6,252,552 | 24,528,860 | 38 | 4,955,563 | 19,016,720 |
| NEW BRUNSWICK (Bituminous)..... | 15 | 2,934,9 | 864,118 | 18 | 182,181 | 743,196 |
| MANITOBA (Lignite)..... | | | | 3 | 1,306 | 3,797 |
| SASKATCHEWAN (Lignite)..... | 57 | 579,424 | 968,863 | *58 | 662,836 | 945,259 |
| ALBERTA— | | | | | | |
| Bituminous..... | 17 | 2,278,467 | 7,971,401 | 17 | 1,846,306 | 6,249,779 |
| Sub-bituminous..... | 22 | 603,358 | 1,705,236 | 23 | 471,343 | 1,211,197 |
| Lignite..... | 254 | 2,873,703 | 8,386,589 | †268 | 2,246,366 | 5,881,699 |
| Total..... | 293 | 5,755,528 | 18,063,225 | 308 | 4,564,015 | 13,342,675 |
| BRITISH COLUMBIA (Bituminous)..... | 28 | 2,083,818 | 8,421,572 | 26 | 1,876,406 | 7,150,996 |
| YUKON (Bituminous)..... | 1 | 653 | 3,110 | 1 | 904 | 5,039 |
| CANADA— | | | | | | |
| Bituminous..... | 97 | 10,824,839 | 41,789,061 | 100 | 8,861,360 | 33,165,730 |
| Sub-bituminous..... | 22 | 603,358 | 1,705,236 | 23 | 471,343 | 1,211,197 |
| Lignite..... | 311 | 3,453,127 | 9,355,451 | 329 | 2,910,508 | 6,830,755 |
| Total..... | 430 | 14,881,324 | 52,849,748 | 452 | 12,243,211 | 41,207,682 |

* Exclusive of 15 small mines in operation towards the close of the year.

† Exclusive of 18 small mines operated by farmers under special permits.

Table 5.—Output of Coal from Canadian Mines by Months, 1927-1931
(Short tons)

| Month | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| January..... | 1,570,480 | 1,697,565 | 1,585,072 | 1,643,623 | 1,179,885 |
| February..... | 1,384,131 | 1,406,341 | 1,649,960 | 1,194,711 | 963,340 |
| March..... | 1,407,753 | 1,404,401 | 1,387,696 | 1,136,765 | 1,051,253 |
| April..... | 1,315,255 | 1,146,311 | 1,395,817 | 913,203 | 998,747 |
| May..... | 1,306,173 | 1,264,127 | 1,404,861 | 1,124,545 | 912,337 |
| June..... | 1,444,251 | 1,350,941 | 1,390,774 | 1,151,963 | 891,425 |
| July..... | 1,230,652 | 1,341,091 | 1,316,153 | 1,058,424 | 831,980 |
| August..... | 1,318,069 | 1,552,191 | 1,362,166 | 1,111,670 | 707,847 |
| September..... | 1,341,765 | 1,413,523 | 1,410,020 | 1,252,002 | 1,012,659 |
| October..... | 1,480,007 | 1,742,530 | 1,598,659 | 1,659,315 | 1,226,032 |
| November..... | 1,756,556 | 1,722,304 | 1,534,386 | 1,319,384 | 1,301,059 |
| December..... | 1,871,769 | 1,522,968 | 1,490,993 | 1,284,503 | 1,206,447 |
| Total..... | 17,426,861 | 17,564,293 | 17,496,557 | 14,881,324 | 12,213,211 |

Table 6.—Output and Value of Coal in Canada by Kinds and by months, 1931
(Short tons)

| Month | Bituminous | | Sub-Bituminous | | Lignite | | Total | |
|-------------------|------------------|-------------------|----------------|------------------|------------------|------------------|-------------------|-------------------|
| | Short tons | Value | Short tons | Value | Short tons | Value | Short tons | Value |
| | | \$ | | \$ | | \$ | | \$ |
| January..... | 791,859 | 3,106,504 | 52,860 | 144,723 | 335,160 | 816,310 | 1,179,885 | 4,067,537 |
| February..... | 720,959 | 2,821,604 | 34,493 | 86,981 | 207,888 | 472,958 | 963,340 | 3,341,513 |
| March..... | 767,210 | 2,980,128 | 27,979 | 73,568 | 256,064 | 574,458 | 998,747 | 3,141,435 |
| April..... | 755,192 | 2,854,502 | 21,705 | 42,100 | 121,850 | 247,833 | 1,051,253 | 3,625,151 |
| May..... | 787,042 | 2,872,783 | 33,312 | 71,780 | 91,983 | 178,300 | 912,337 | 3,122,863 |
| June..... | 805,511 | 2,995,728 | 18,622 | 51,382 | 67,292 | 130,687 | 891,425 | 3,177,787 |
| July..... | 715,691 | 2,580,677 | 43,876 | 101,602 | 72,313 | 148,092 | 831,880 | 2,830,371 |
| August..... | 610,877 | 2,210,581 | 43,220 | 105,822 | 113,450 | 263,402 | 767,417 | 2,579,805 |
| September..... | 669,426 | 2,469,170 | 41,281 | 121,220 | 301,952 | 788,473 | 1,012,659 | 3,379,363 |
| October..... | 765,361 | 2,803,786 | 43,270 | 119,632 | 417,401 | 1,050,423 | 1,226,032 | 4,973,811 |
| November..... | 714,751 | 2,708,051 | 57,143 | 153,278 | 529,765 | 1,266,017 | 1,301,659 | 4,127,316 |
| December..... | 757,481 | 2,761,716 | 53,582 | 139,109 | 395,384 | 893,802 | 1,206,447 | 3,791,627 |
| Total..... | 8,861,369 | 33,165,730 | 471,343 | 1,211,197 | 2,919,598 | 6,839,755 | 12,213,211 | 41,207,682 |

Table 7.—Tonnage Lost in the Coal Mines of Canada in 1930 and 1931 Showing by Provinces the Relative Percentages Produced and Lost with an Analysis of the Percentage Lost.

| Province | Per cent produced | Per cent lost | Percentage lost through | | | | | |
|-----------------------|-------------------|---------------|-------------------------|----------------|--------------|-----------------|--------------|-----|
| | | | Absenteeism | Lack of orders | Car shortage | Mine disability | Other causes | |
| NOVA SCOTIA..... | 1930 | 72 | 28 | 2-0 | 20-0 | | 5-2 | 0-8 |
| | 1931 | 58 | 42 | 1-1 | 38-3 | 0-1 | 1-0 | 1-5 |
| NEW BRUNSWICK..... | 1930 | 74 | 26 | 1-2 | 23-0 | | 0-1 | 1-7 |
| | 1931 | 63 | 37 | 1-5 | 34-6 | | 0-3 | 0-6 |
| SASKATCHEWAN..... | 1930 | 64 | 36 | | 35-6 | | | 0-4 |
| | 1931 | 65 | 35 | | 34-7 | | 0-2 | 0-1 |
| ALBERTA..... | 1930 | 66 | 34 | 0-2 | 32-2 | 0-3 | 0-3 | 1-0 |
| | 1931 | 58 | 42 | 0-3 | 41-2 | | 0-2 | 0-3 |
| BRITISH COLUMBIA..... | 1930 | 73 | 27 | 0-5 | 25-3 | 0-3 | 0-5 | 0-5 |
| | 1931 | 67 | 33 | 0-2 | 32-5 | 0-2 | | 0-1 |
| Canada..... | 1930 | 70 | 30 | 0-8 | 26-2 | 0-1 | 2-2 | 0-7 |
| | 1931 | 60 | 40 | 0-6 | 38-1 | | 0-5 | 0-8 |

Table 8.—Tonnage Lost in the Coal Mines of Canada Showing by Months the Relative Percentage Produced and Lost with an Analysis of the Percentage Lost in 1931

| Month | Per cent produced | Per cent lost | Percentage lost through | | | | |
|--------------|-------------------|---------------|-------------------------|----------------|--------------|-----------------|--------------|
| | | | Absenteeism | Lack of orders | Car shortage | Mine disability | Other causes |
| January | 58 | 42 | 0.7 | 40.9 | 0.1 | 0.1 | 0.2 |
| February | 57 | 43 | 0.6 | 40.9 | 0.1 | 0.8 | 0.6 |
| March | 59 | 41 | 0.7 | 37.8 | | 1.6 | 0.9 |
| April | 59 | 41 | 0.5 | 38.8 | | 1.1 | 0.6 |
| May | 60 | 40 | 0.5 | 37.1 | | 0.9 | 1.5 |
| June | 59 | 41 | 0.9 | 38.1 | | 0.1 | 1.9 |
| July | 57 | 43 | 0.6 | 40.8 | | 0.7 | 0.9 |
| August | 51 | 49 | 0.5 | 47.5 | | | 1.0 |
| September | 62 | 38 | 0.5 | 36.8 | | 0.2 | 0.5 |
| October | 65 | 35 | 0.7 | 33.8 | | 0.2 | 0.3 |
| November | 70 | 30 | 0.5 | 29.0 | | 0.1 | 0.4 |
| December | 61 | 39 | 0.3 | 37.9 | | 0.1 | 0.7 |
| Total | 60 | 40 | 0.6 | 38.1 | | 0.5 | 0.8 |

Table 9.—Disposition of Coal from Canadian Mines, 1930 and 1931

| | 1930 | | | 1931 | | |
|--|-------------------|-------------------|-----------------------|-------------------|-------------------|-----------------------|
| | Total coal | Total value | Average value per ton | Total coal | Total value | Average value per ton |
| | | \$ | \$ | | \$ | \$ |
| Supplied to employees for domestic consumption | 189,684 | 670,882 | 3.54 | 168,265 | 601,146 | 3.57 |
| Used for power purposes— | | | | | | |
| (a) Shops | 103,269 | 350,910 | 3.40 | 84,702 | 282,867 | 3.34 |
| (b) Colliery boilers | 704,437 | 2,043,076 | 2.90 | 614,860 | 1,667,103 | 2.71 |
| (c) Companies' railroads | 72,807 | 275,296 | 3.78 | 63,448 | 235,270 | 3.71 |
| (d) Harbour tugs and dredges | | | | 201 | 850 | 4.23 |
| Shipped. (See Table 11)— | | | | | | |
| (a) Ships' bunkers | 333,687 | | | 222,526 | | |
| (b) Railroads | 4,085,228 | 48,730,804 | 3.62 | 3,146,967 | 37,762,927 | 3.44 |
| (c) Other | 9,032,933 | | | 7,603,342 | | |
| Used in making coke at colliery | 109,955 | 390,338 | 3.55 | 110,219 | 391,283 | 3.55 |
| Used in making briquettes | 45,183 | 113,303 | 2.51 | 28,102 | 70,437 | 2.51 |
| Put on bank | 774,297 | 2,948,723 | 3.81 | 726,068 | 2,647,031 | 3.65 |
| Put on waste heap | 221,530 | | | 200,463 | | |
| Total disposition | 15,673,010 | 55,523,332 | 3.54 | 12,969,163 | 43,658,914 | 3.37 |
| Lifted from bank | 791,689 | 2,673,584 | 3.38 | 725,952 | 2,451,232 | 3.38 |
| Total output | 14,881,324 | 52,849,748 | 3.55 | 12,243,211 | 41,207,682 | 3.37 |

Table 10.—Disposition of Coal from Canadian Mines by Provinces, 1931

(Short tons)

| | Nova Scotia | New Brunswick | Manitoba | Saskatchewan | Alberta | British Columbia | Yukon | Canada |
|--|------------------|----------------|--------------|----------------|------------------|------------------|------------|-------------------|
| Supplied to employees for domestic consumption | 111,614 | 2,589 | 107 | 2,407 | 32,688 | 18,794 | 6 | 168,265 |
| Coal shipped. (See Table 11) | 4,459,911 | 173,094 | 1,106 | 605,837 | 4,233,408 | 1,499,219 | 260 | 10,972,835 |
| Used under colliery boilers, etc. | 263,730 | 5,228 | | 28,042 | 195,026 | 122,810 | 18 | 614,860 |
| Used by companies' railroads | 41,161 | 900 | | 3,286 | 6,679 | 11,422 | | 63,448 |
| Used for manufacture of coke at colliery | | | | | | 110,219 | | 110,219 |
| Used in making briquettes | | | | 13,979 | 14,123 | | | 28,102 |
| Used in shops, etc. | 84,702 | | | | | | | 84,702 |
| Used by harbour tugs and dredges | 201 | | | | | | | 201 |
| Put on bank | 609,843 | 8,649 | | 7,610 | 31,514 | 68,167 | 285 | 726,068 |
| Put on waste heap | 19,809 | 56 | 93 | 2,710 | 89,455 | 87,999 | 335 | 200,463 |
| Total disposition | 5,590,977 | 190,516 | 1,306 | 663,937 | 4,602,893 | 1,918,630 | 904 | 12,969,163 |
| Lifted from bank | 635,414 | 8,335 | | 1,101 | 38,878 | 42,224 | | 725,952 |
| Total output | 4,955,563 | 182,181 | 1,306 | 662,836 | 4,564,015 | 1,876,406 | 904 | 12,243,211 |

Table 11.—Shipments of Coal from Canadian Mines by Grades and Destinations, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | 1931 | | | |
|---|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|
| | Run-of-mine | Screened | Slack | Total | Run-of-mine | Screened | Slack | Total |
| Prince Edward Island..... | 3,398 | 82,313 | 2,193 | 87,904 | 3,339 | 69,859 | 3,285 | 76,483 |
| Nova Scotia..... | 214,339 | 572,208 | 738,516 | 1,525,063 | 241,637 | 444,489 | 441,524 | 1,127,650 |
| New Brunswick..... | 167,343 | 141,067 | 195,737 | 504,148 | 127,859 | 114,656 | 223,916 | 466,461 |
| Quebec..... | 53,634 | 964,711 | 875,749 | 1,894,094 | 67,558 | 805,092 | 873,633 | 1,746,283 |
| Ontario..... | 845 | 26,022 | 4,845 | 31,712 | 395 | 22,229 | 5,774 | 28,398 |
| Manitoba..... | 167,621 | 366,714 | 241,531 | 775,866 | 163,932 | 282,891 | 299,360 | 746,183 |
| Saskatchewan..... | 205,247 | 893,078 | 440,544 | 1,538,869 | 222,975 | 647,457 | 429,188 | 1,299,620 |
| Alberta..... | 256,352 | 463,005 | 508,441 | 1,227,798 | 202,137 | 377,294 | 443,193 | 1,022,624 |
| British Columbia..... | 40,213 | 710,160 | 249,036 | 999,409 | 28,780 | 574,299 | 234,588 | 837,667 |
| Yukon..... | | 293 | | 293 | | 260 | | 260 |
| Total domestic shipments | 1,108,993 | 4,219,571 | 3,256,592 | 8,595,156 | 1,058,612 | 3,338,526 | 2,954,791 | 7,351,929 |
| Railroads..... | 3,021,284 | 750,493 | 313,451 | 4,085,228 | 2,367,457 | 591,700 | 187,801 | 3,146,967 |
| Ships' bunkers..... | 250,311 | 82,481 | 895 | 333,687 | 166,590 | 55,432 | 504 | 222,526 |
| Total railroads and ships' bunkers | 3,271,595 | 832,974 | 314,346 | 4,418,915 | 2,534,047 | 647,141 | 188,305 | 3,369,493 |
| United States..... | 10,647 | 74,234 | 64,869 | 149,750 | 1,418 | 40,484 | 82,528 | 124,440 |
| Alaska..... | | 26,450 | | 26,456 | | 18,022 | | 18,022 |
| Newfoundland..... | 2,090 | 204,120 | 57,637 | 263,837 | 1,889 | 106,700 | | 108,589 |
| St. Pierre..... | | | | | | 372 | | 372 |
| Lost at sea..... | | 4,318 | 3,416 | 7,734 | | | | |
| Total external shipments | 12,727 | 309,128 | 125,922 | 447,777 | 3,307 | 165,578 | 82,528 | 251,413 |
| Total | 4,393,315 | 5,361,673 | 3,696,860 | 13,451,848 | 3,595,966 | 4,151,245 | 3,225,624 | 10,972,835 |

Table 12.—Exports of Canadian Coal, 1873-1931

(Compiled in the External Trade Branch)

| Calendar Year | Short tons | Value | Calendar year | Short tons | Value | Calendar year | Short tons | Value |
|---------------|------------|-------|---------------|------------|-------|--------------------|-------------------|------------|
| | | \$ | | | \$ | | | \$ |
| 1873..... | 420,683 | | 1893..... | 960,312 | | 1913..... | 1,562,020 | 3,951,351 |
| 1874..... | 310,998 | | 1894..... | 1,103,694 | | 1914..... | 1,423,126 | 3,780,175 |
| 1875..... | 250,348 | | 1895..... | 1,011,235 | | 1915..... | 1,706,543 | 5,406,058 |
| 1876..... | 248,638 | | 1896..... | 1,106,601 | | 1916..... | 2,135,359 | 7,099,387 |
| 1877..... | 301,317 | | 1897..... | 986,130 | | 1917..... | 1,733,156 | 7,387,192 |
| 1878..... | 327,959 | | 1898..... | 1,150,029 | | 1918..... | 1,817,195 | 9,405,423 |
| 1879..... | 306,648 | | 1899..... | 1,293,109 | | 1919..... | 2,070,050 | 12,438,885 |
| 1880..... | 432,188 | | 1900..... | 1,787,777 | | 1920..... | 2,558,174 | 18,014,899 |
| 1881..... | 395,382 | | 1901..... | 1,573,661 | | 1921..... | 1,987,251 | 13,896,370 |
| 1882..... | 412,682 | | 1902..... | 2,090,268 | | 1922..... | 1,818,582 | 11,159,060 |
| 1883..... | 486,811 | | 1903..... | 1,951,629 | | | | |
| 1884..... | 474,405 | | 1904..... | 1,557,412 | | 1923..... | 1,654,406 | 10,661,399 |
| 1885..... | 427,937 | | 1905..... | 1,635,287 | | 1924..... | 773,246 | 4,836,848 |
| 1886..... | 520,703 | | 1906..... | 1,835,041 | | 1925..... | 785,910 | 4,329,173 |
| 1887..... | 580,965 | | 1907..... | 1,894,074 | | 1926..... | 1,028,290 | 5,739,436 |
| 1888..... | 588,627 | | 1908..... | 1,729,833 | | 1927..... | 1,113,330 | 5,890,259 |
| 1889..... | 665,315 | | 1909..... | 1,588,099 | | 1928..... | 863,941 | 4,469,090 |
| 1890..... | 724,486 | | 1910..... | 2,377,049 | | 1929..... | 842,972 | 4,375,328 |
| 1891..... | 971,259 | | 1911..... | 1,509,639 | | 1930..... | 624,512 | 3,345,998 |
| 1892..... | 823,733 | | 1912..... | 2,127,133 | | 1931..... | 359,853 | 1,909,922 |
| | | | | | | Total | 67,851,932 | |

Table 13.—Exports of Canadian Coal from Eastern and Western Canada, 1927-1931

(Short tons)

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|---------------------|------------------|----------------|----------------|----------------|----------------|
| Eastern Canada..... | 585,822 | 379,671 | 372,061 | 375,148 | 207,023 |
| Western Canada..... | 527,508 | 493,270 | 470,911 | 249,364 | 152,830 |
| Total | 1,113,330 | 863,941 | 842,972 | 624,512 | 359,853 |

Table 14.—Exports of Canadian Coal by Destinations, 1929-1931

(Compiled in the *External Trade Branch*)

| Destination | 1929 | | 1930 | | 1931 | |
|-------------------------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| | Short tons | Value | Short tons | Value | Short tons | Value |
| | | \$ | | \$ | | \$ |
| BRITISH EMPIRE | | | | | | |
| United Kingdom..... | 26,605 | 195,958 | 18,453 | 132,602 | 10,488 | 70,508 |
| Irish Free State..... | 683 | 4,343 | 1,745 | 10,531 | 186 | 1,163 |
| British South Africa..... | 12,089 | 74,057 | 6,466 | 38,796 | 2,951 | 17,796 |
| Bermuda..... | 950 | 7,000 | | | | |
| British Guiana..... | | | | | 1,056 | 7,920 |
| British Honduras..... | | | 125 | 738 | | |
| British West Indies— | | | | | | |
| Jamaica..... | | | | | | |
| Other B.W.I..... | | | 396 | 3,286 | | |
| Gibraltar..... | 1,335 | 8,010 | 5,123 | 30,737 | 992 | 5,949 |
| Malta..... | | | | | 1,246 | 6,230 |
| Newfoundland..... | 269,168 | 1,426,701 | 286,630 | 1,472,401 | 112,663 | 616,101 |
| Sierra Leone..... | | | 3,226 | 18,956 | 1,211 | 7,266 |
| Australia..... | 19,225 | 159,409 | 26,305 | 209,504 | 12,437 | 104,884 |
| New Zealand..... | 6,752 | 41,834 | 2,837 | 17,017 | 3,477 | 19,533 |
| Total British Empire..... | 336,807 | 1,917,912 | 351,306 | 1,934,568 | 146,907 | 857,260 |
| FOREIGN COUNTRIES | | | | | | |
| Argentina..... | 1,066 | 6,396 | 5,193 | 31,158 | 7,871 | 47,229 |
| Belgium..... | 3,463 | 20,406 | 4,816 | 32,621 | 477 | 2,862 |
| Brazil..... | | | 1,530 | 9,180 | 3,947 | 27,095 |
| China..... | 4,994 | 41,448 | 565 | 4,600 | | |
| Cuba..... | 380 | 3,135 | 352 | 2,112 | 400 | 3,511 |
| Denmark..... | 758 | 4,848 | | | | |
| France..... | 5,108 | 35,171 | 2,832 | 17,815 | 3,240 | 18,287 |
| French Possessions— | | | | | | |
| French Africa..... | | | 1,209 | 7,254 | | |
| St. Pierre and Miquelon..... | 2,248 | 13,746 | 2,652 | 16,021 | 4,560 | 27,097 |
| Syria..... | 290 | 1,740 | | | | |
| Germany..... | 2,140 | 12,741 | 1,640 | 11,656 | | |
| Greece..... | 1,085 | 8,097 | 4,157 | 25,885 | 2,472 | 14,432 |
| Italy..... | 3,327 | 32,991 | 4,799 | 29,031 | 1,589 | 9,592 |
| Japan..... | | | 3,455 | 19,250 | 1,862 | 11,741 |
| Netherlands..... | 5,247 | 35,516 | 1,945 | 11,829 | 1,592 | 8,702 |
| Norway..... | 421 | 2,521 | 2,449 | 9,799 | 1,729 | 7,347 |
| Peru..... | | | 801 | 5,807 | 3,309 | 22,233 |
| Poland and Danzig..... | 371 | 2,489 | | | | |
| San Domingo..... | | | 38 | 190 | | |
| Spain..... | 916 | 5,493 | 705 | 5,816 | | |
| Sweden..... | 552 | 3,162 | 470 | 2,820 | | |
| Turkey..... | 641 | 4,352 | | | | |
| United States..... | 451,516 | 2,080,807 | 210,326 | 1,003,080 | 163,351 | 743,533 |
| Alaska..... | 21,642 | 152,663 | 23,272 | 165,413 | 15,582 | 103,388 |
| Total foreign countries..... | 506,165 | 2,457,416 | 273,206 | 1,411,430 | 212,946 | 1,052,602 |
| Total..... | 842,972 | 4,375,328 | 624,512 | 3,345,998 | 359,853 | 1,909,862 |

Table 16.—Imports of Coal into Eastern and Western Canada, 1930 and 1931

(Short tons)

| Destination | Anthracite | | | Bituminous | Lignite | Total all grades |
|-------------------------|------------------|----------------|------------------|-------------------|---------------|-------------------|
| | Egg, nut, etc. | Dust | Total anthracite | | | |
| EASTERN CANADA— | | | | | | |
| 1930— | | | | | | |
| United States..... | 2,595,284 | 306,738 | 2,902,022 | 11,698,687 | | 14,600,709 |
| Great Britain..... | 954,675 | 41,452 | 996,127 | 146,199 | | 1,142,326 |
| Russia..... | 291,407 | | 291,407 | | | 291,407 |
| Newfoundland..... | | | | 33 | | 33 |
| Germany..... | 11,480 | | 11,480 | | | 11,480 |
| Total..... | 3,852,840 | 348,190 | 4,201,036 | 11,844,919 | | 16,045,955 |
| 1931— | | | | | | |
| United States..... | 1,860,140 | 254,253 | 2,214,393 | 9,517,097 | | 11,731,490 |
| Great Britain..... | 871,668 | 4,096 | 876,364 | 122,298 | | 998,662 |
| French East Indies..... | 4,592 | | 4,592 | | | 4,592 |
| Germany..... | 60,762 | | 60,762 | | | 60,762 |
| Total..... | 2,897,162 | 258,949 | 3,156,111 | 9,639,395 | | 12,795,506 |
| WESTERN CANADA* | | | | | | |
| 1930— | | | | | | |
| United States..... | 50,372 | 3,560 | 53,932 | 1,500,389 | 18,676 | 1,572,997 |
| French East Indies..... | 1,122 | | 1,122 | | | 1,122 |
| Total..... | 51,494 | 3,560 | 55,054 | 1,500,389 | 18,676 | 1,574,119 |
| 1931— | | | | | | |
| United States..... | 15,815 | 6,215 | 22,030 | 707,885 | 6,410 | 736,325 |
| Total..... | 15,815 | 6,215 | 22,030 | 707,885 | 6,410 | 736,325 |
| Canada— | | | | | | |
| 1930— | | | | | | |
| United States..... | 2,645,656 | 310,298 | 2,955,954 | 13,199,076 | 18,676 | 16,173,706 |
| Great Britain..... | 954,675 | 41,452 | 996,127 | 146,199 | | 1,142,326 |
| Russia..... | 291,407 | | 291,407 | | | 291,407 |
| Newfoundland..... | | | | 33 | | 33 |
| Germany..... | 11,480 | | 11,480 | | | 11,480 |
| French East Indies..... | 1,122 | | 1,122 | | | 1,122 |
| Total..... | 3,904,340 | 351,750 | 4,256,090 | 13,345,308 | 18,676 | 17,629,074 |
| 1931— | | | | | | |
| United States..... | 1,975,955 | 260,468 | 2,236,423 | 10,221,982 | 6,410 | 12,467,815 |
| Great Britain..... | 871,668 | 4,696 | 876,364 | 122,298 | | 998,662 |
| Germany..... | 60,762 | | 60,762 | | | 60,762 |
| French East Indies..... | 4,592 | | 4,592 | | | 4,592 |
| Total..... | 2,912,977 | 265,164 | 3,178,141 | 10,347,290 | 6,410 | 13,531,831 |

* Includes Head of Lakes, Manitoba and points west.

Table 17.—Imports of Anthracite and Bituminous Coal into Canada from Great Britain, by Grades and by Provinces, 1930 and 1931

(Short tons)

| Destination | 1930 | | | 1931 | | |
|---------------------------|-------------------|---------------|-----------------------------|-------------------|--------------|------------------------------|
| | Anthracite | | Bituminous all grades | Anthracite | | Bituminous, all grades |
| | Egg, nut, etc. | Dust | | Egg, nut, etc. | Dust | |
| Prince Edward Island..... | | 1,496 | 1,676 | 7,413 | | 1,833 |
| Nova Scotia..... | 20,859 | | 10,557 | 34,843 | | 38,352 |
| New Brunswick..... | 60,844 | | 35 | 45,598 | | 6,102 |
| Quebec..... | 863,972 | 39,956 | 124,931 | 781,605 | 4,696 | 75,560 |
| Ontario..... | | | | 2,208 | | 301 |
| Canada..... | 954,675 | 41,452 | 146,199 | 871,668 | 4,696 | 122,298 |

Table 18.—Imports of Anthracite, Bituminous and Lignite Coal into Canada from the United States by Grades and by Provinces, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | 1931 | | | |
|---------------------------|-------------------|----------------|------------------------------|---------------|-------------------|----------------|------------------------------|--------------|
| | Anthracite | | Bituminous, all grades | Lignite | Anthracite | | Bituminous, all grades | Lignite |
| | Egg, nut, etc. | Dust | | | Egg, nut, etc. | Dust | | |
| Prince Edward Island..... | 5,274 | 2,759 | 4,498 | | 1,271 | | 3,246 | |
| Nova Scotia..... | 30,086 | | 18,018 | | 15,209 | 95 | 5,085 | |
| New Brunswick..... | 20,827 | 1,498 | 72,299 | | 38,644 | 776 | 31,068 | |
| Quebec..... | 599,520 | 155,377 | 1,111,811 | | 434,863 | 110,100 | 858,015 | |
| Ontario..... | 1,978,818 | 147,104 | 11,955,589 | | 1,483,533 | 148,184 | 9,315,172 | |
| Manitoba..... | 4,764 | 3,559 | 24,898 | | 2,415 | 1,280 | 7,041 | |
| Saskatchewan..... | 307 | | 1,816 | 736 | | | 1,535 | 23 |
| Alberta..... | | | 1,351 | | | | 912 | |
| British Columbia..... | | 1 | 8,879 | 17,940 | | 33 | 2,298 | 6,387 |
| Yukon..... | | | 7 | | | | 10 | |
| Canada..... | 2,645,656 | 316,298 | 13,199,076 | 18,676 | 1,975,955 | 260,468 | 10,221,982 | 6,410 |

Table 19.—Imports of Anthracite and Bituminous Coal into Canada from Other Countries, by Provinces, 1930 and 1931

(Short tons)

| Destination | Source | 1930 | | | 1931 | | |
|-----------------------|----------------------------|-------------------|------|-----------------------------------|-------------------|---------------|-----------------------------------|
| | | Anthracite | | Bitu- minous, all grades | Anthracite | | Bitu- minous, all grades |
| | | Egg, nut, etc. | Dust | | Egg, nut, etc. | Dust | |
| Nova Scotia..... | Russia..... | 14,340 | | | | | |
| | French East Indies..... | | | | 4,592 | | |
| New Brunswick..... | Russia..... | 24,880 | | | | | |
| Quebec..... | Germany..... | 11,480 | | | 60,762 | | |
| | Russia..... | 252,187 | | | | | |
| | Newfoundland..... | | | | | 33 | |
| British Columbia..... | French East Indies..... | 1,122 | | | | | |
| Canada..... | | 301,009 | | | 33 | 65,354 | |

Table 20.—Imports of Anthracite, Bituminous and Lignite Coal into Canada by Months, 1930 and 1931

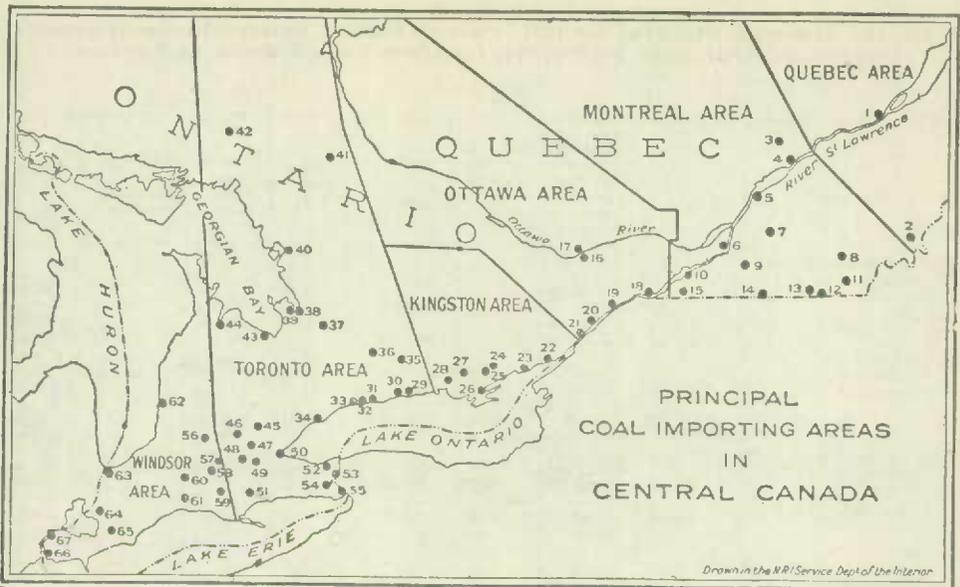
(Short tons)

| Month | 1930 | | | | 1931 | | | |
|--------------------|-------------------|----------------|-----------------|-------------------|-------------------|----------------|-----------------|-------------------|
| | United States | Great Britain | Other countries | Total | United States | Great Britain | Other countries | Total |
| ANTHRACITE— | | | | | | | | |
| January | 331,283 | 16,046 | | 347,329 | 239,420 | 5,699 | | 245,119 |
| February | 327,674 | 29,097 | 7,136 | 363,907 | 243,893 | 3,852 | | 247,745 |
| March | 211,890 | 55,080 | | 266,970 | 163,442 | 12,797 | | 176,239 |
| April | 112,483 | 6,392 | 6,290 | 125,165 | 106,362 | 9,142 | | 115,504 |
| May | 191,048 | 113,989 | 7,527 | 312,564 | 209,894 | 142,911 | | 352,805 |
| June | 204,025 | 138,372 | 63,668 | 406,065 | 188,067 | 145,359 | 14,731 | 348,157 |
| July | 176,368 | 107,214 | 27,388 | 311,070 | 194,379 | 135,868 | 4,414 | 334,661 |
| August | 193,183 | 121,561 | 52,999 | 367,753 | 129,912 | 88,530 | 12,406 | 230,854 |
| September | 341,207 | 118,780 | 51,578 | 511,565 | 164,648 | 100,514 | 15,962 | 281,124 |
| October | 321,293 | 129,733 | 45,509 | 496,535 | 214,001 | 134,852 | 13,249 | 362,102 |
| November | 297,092 | 113,515 | 34,948 | 445,555 | 213,750 | 85,614 | 4,592 | 303,956 |
| December | 248,398 | 46,348 | 7,056 | 301,802 | 168,655 | 11,220 | | 179,875 |
| Total | 2,955,954 | 896,127 | 304,009 | 4,256,090 | 2,236,423 | 876,364 | 65,354 | 3,178,141 |
| BITUMINOUS— | | | | | | | | |
| January | 850,111 | 800 | | 850,911 | 546,241 | 22 | | 546,263 |
| February | 673,315 | 3,498 | 10 | 676,823 | 570,975 | 11,026 | | 582,001 |
| March | 797,599 | 5 | | 797,604 | 635,130 | 2,765 | | 637,895 |
| April | 532,204 | 2,800 | | 535,004 | 421,786 | 25 | | 421,811 |
| May | 1,035,101 | 25,525 | | 1,060,626 | 829,586 | 8,525 | | 838,111 |
| June | 1,463,150 | 17,988 | | 1,481,138 | 844,604 | 5,657 | | 850,261 |
| July | 1,442,033 | 27,291 | 20 | 1,469,344 | 899,395 | 11,156 | | 910,551 |
| August | 1,416,964 | 15,620 | 3 | 1,432,587 | 1,252,405 | 14,932 | | 1,267,337 |
| September | 1,510,255 | 24,018 | | 1,534,273 | 1,210,754 | 15,010 | | 1,225,764 |
| October | 1,454,240 | 22,132 | | 1,476,372 | 1,090,565 | 22,564 | | 1,113,129 |
| November | 1,118,065 | 3,654 | | 1,121,719 | 1,005,040 | 14,526 | | 1,019,566 |
| December | 915,450 | 2,808 | | 918,258 | 828,501 | 10,090 | | 844,591 |
| Total | 13,199,976 | 146,199 | 33 | 13,346,208 | 10,224,982 | 122,298 | | 10,347,280 |
| LIGNITE— | | | | | | | | |
| January | 2,593 | | | 2,593 | 1,444 | | | 1,444 |
| February | 2,311 | | | 2,311 | 863 | | | 863 |
| March | 806 | | | 806 | 1,295 | | | 1,295 |
| April | 383 | | | 383 | 215 | | | 215 |
| May | 383 | | | 383 | 101 | | | 101 |
| June | 294 | | | 294 | 61 | | | 61 |
| July | 989 | | | 989 | 183 | | | 183 |
| August | 258 | | | 258 | 163 | | | 163 |
| September | 1,028 | | | 1,028 | 362 | | | 362 |
| October | 3,115 | | | 3,115 | 442 | | | 442 |
| November | 3,613 | | | 3,613 | 560 | | | 560 |
| December | 2,903 | | | 2,903 | 721 | | | 721 |
| Total | 18,676 | | | 18,676 | 6,410 | | | 6,410 |

Table 21.—Average Imports of Coal into Central Canada by Principal Areas for the Five Years, 1927-1931

(Short tons)

| Destination | Anthracite | | | Total bituminous | Total all grades |
|--------------|------------------|----------------|------------------|-------------------|-------------------|
| | Egg, nut, etc. | Dust | Total | | |
| Quebec | 114,914 | 5,112 | 120,026 | 111,671 | 231,697 |
| Montreal | 1,264,339 | 159,103 | 1,423,442 | 1,105,422 | 2,528,914 |
| Ottawa | 192,922 | 35,470 | 228,398 | 1,003,823 | 1,232,221 |
| Kingston | 90,627 | 3,003 | 93,630 | 218,010 | 311,640 |
| Toronto | 1,374,008 | 101,659 | 1,475,667 | 5,275,196 | 6,750,863 |
| Windsor | 248,962 | 5,258 | 254,220 | 2,834,747 | 3,088,967 |
| Total | 3,285,772 | 309,611 | 3,595,383 | 10,548,919 | 14,144,302 |



Key to the Ports of Entry Shown on the Map

| | | | |
|-----------------------|-----------------------|--------------------------|--------------------------|
| QUEBEC AREA— | OTTAWA AREA— | TORONTO AREA—COB. | TORONTO AREA—CON. |
| 1 Quebec City | 16 Ottawa | 32 Oshawa | 51 Simcoe |
| 2 Megantic | 17 Hull | 33 Whitby | 52 St. Catharines |
| | 18 Cornwall | 34 Toronto | 53 Niagara Falls |
| MONTREAL AREA— | 19 Morrisburg | 35 Peterboro | 54 Welland |
| 3 Shawinigan Falls | 20 Prescott | 36 Lindsay | 55 Bridgeburg |
| 4 Three Rivers | 21 Brockville | 37 Orillia | |
| 5 Sorel | KINGSTON AREA— | 38 Port McNicoll | WINDSOR AREA— |
| 6 Montreal | 22 Gananoque | 39 Midland | 56 Stratford |
| 7 St. Hyacinthe | 23 Kingston | 40 Parry Sound | 57 Woodstock |
| 8 Sherbrooke | 24 Napanee | 41 North Bay | 58 Ingersoll |
| 9 St. John's | 25 Deseronto | 42 Sudbury | 59 Tillsonburg |
| 10 Valleyfield | 26 Picton | 43 Collingwood | 60 London |
| 11 Coatross | 27 Belleville | 44 Owen Sound | 61 St. Thomas |
| 12 Beebe Junction | 28 Trenton | 45 Guelph | 62 Goderich |
| 13 Mansonville | TORONTO AREA— | 46 Kitchener | 63 Sarnia |
| 14 St. Armand | 29 Coloung | 47 Galt | 64 Wallaceburg |
| 15 Athelstan | 30 Port Hope | 48 Paris | 65 Chatham |
| | 31 Bowmanville | 49 Brantford | 66 Amherstburg |
| | | 50 Hamilton | 67 Windsor |

Table 22.—Average Imports of Coal into Canada by Kinds and by Provinces for the Five Years, 1927-1931
(Short tons)

| Destination | Anthracite | | | Total bituminous | Lignite | Total all grades |
|---------------------------------|------------------|----------------|------------------|-------------------|---------------|-------------------|
| | Egg, nut, etc. | Dust | Total | | | |
| Prince Edward Island..... | 6,218 | 1,018 | 7,236 | 5,854 | | 13,090 |
| Nova Scotia..... | 62,271 | 11 | 62,290 | 37,353 | | 99,642 |
| New Brunswick..... | 95,433 | 1,550 | 96,983 | 66,369 | | 163,346 |
| Quebec..... | 1,403,370 | 170,106 | 1,573,476 | 1,331,933 | | 2,905,409 |
| Central Ontario..... | 1,903,596 | 145,468 | 2,049,064 | 10,550,067 | | 12,599,131 |
| Head of Lakes..... | 49,199 | 1,409 | 50,608 | 1,413,281 | | 1,463,889 |
| Total Ontario..... | 1,952,795 | 146,877 | 2,099,672 | 11,963,348 | | 14,063,020 |
| Manitoba..... | 6,991 | 2,452 | 9,443 | 62,120 | 379 | 71,942 |
| Manitoba and Head of Lakes..... | 56,190 | 3,861 | 60,051 | 1,475,401 | 379 | 1,535,631 |
| Saskatchewan..... | 359 | | 359 | 2,101 | 172 | 2,632 |
| Alberta..... | | | | 1,255 | | 1,255 |
| British Columbia..... | 1,550 | 11 | 1,561 | 14,184 | 11,009 | 27,354 |
| Yukon..... | | | | 26 | | 26 |
| Canada..... | 3,528,987 | 322,033 | 3,851,020 | 13,484,537 | 12,160 | 17,347,717 |

Table 23.—Summary Statistics for 1927—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

| Province | Canadian coal | | | | Imported from U.S.A. | Imported from Great Britain | Imported from other countries | Coal available for consumption |
|-----------------------------|---------------|-------------------------------|----------------------------|-----------|----------------------|-----------------------------|-------------------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | | | |
| PRINCE EDWARD ISLAND— | | | | | | | | |
| Anthracite..... | | | | | 3,814 | 3,210 | | 7,024 |
| Bituminous..... | | 85,268 | | | 5,050 | | | 90,318 |
| Total..... | | 85,268 | | | 8,864 | 3,210 | | 97,342 |
| NOVA SCOTIA— | | | | | | | | |
| Anthracite..... | | | | | 29,522 | 29,864 | | 59,386 |
| Bituminous..... | 7,071,876 | | 2,856,984 | 529,967 | 37,155 | | | 3,722,080 |
| Total..... | 7,071,876 | | 2,856,984 | 529,967 | 66,677 | 29,864 | | 3,781,466 |
| NEW BRUNSWICK— | | | | | | | | |
| Anthracite..... | | | | | 70,468 | 31,192 | | 101,660 |
| Bituminous..... | 203,950 | 469,774 | 9,083 | 155,354 | 85,559 | 17 | | 704,863 |
| Total..... | 203,950 | 469,774 | 9,083 | 55,354 | 166,027 | 31,209 | | 806,523 |
| QUEBEC— | | | | | | | | |
| Anthracite..... | | | | | 952,837 | 709,709 | (a) 9,973 | 1,672,519 |
| Bituminous..... | | 2,307,185 | | 91 | 1,872,092 | 140,267 | | 4,020,053 |
| Lignite..... | | | | | | | | |
| Total..... | | 2,307,185 | | 91 | 2,525,529 | 849,976 | 9,973 | 5,692,572 |
| CENTRAL ONTARIO— | | | | | | | | |
| Anthracite..... | | | | | 2,113,072 | 10,494 | | 2,123,566 |
| Bituminous..... | | 35 | | | 11,663,342 | | | 11,663,377 |
| Sub-bituminous..... | | *1,813 | | | | | | 1,813 |
| Lignite..... | | *22,777 | | 410 | | | | 22,367 |
| Total..... | | 24,625 | | 410 | 13,776,614 | 10,494 | | 13,811,323 |
| MANITOBA AND HEAD OF LAKES— | | | | | | | | |
| Anthracite..... | | | | | 95,168 | | | 95,168 |
| Bituminous..... | | 89,922 | | 907 | 1,638,245 | | | 1,727,260 |
| Sub-bituminous..... | | 75,978 | | | | | | 75,978 |
| Lignite..... | | 682,405 | | 4,580 | | | | 677,825 |
| Total..... | | 848,305 | | 5,487 | 1,733,413 | | | 2,576,231 |
| SASKATCHEWAN— | | | | | | | | |
| Anthracite..... | | | | | 484 | | | 484 |
| Bituminous..... | | 133,510 | | 48 | 2,141 | | | 135,603 |
| Sub-bituminous..... | | 72,504 | | | | | | 72,504 |
| Lignite..... | 470,216 | 1,274,110 | 228,916 | 6,247 | | | | 1,509,163 |
| Total..... | 470,216 | 1,480,124 | 228,916 | 6,295 | 2,625 | | | 1,717,754 |
| ALBERTA— | | | | | | | | |
| Bituminous..... | 2,984,513 | 40,854 | 218,700 | 409 | 1,324 | | | 2,807,582 |
| Sub-bituminous..... | 596,155 | | 183,577 | | | | | 412,578 |
| Lignite..... | 3,353,494 | 73 | 1,852,203 | 176 | | | | 1,501,188 |
| Total..... | 6,934,162 | 40,927 | 2,254,480 | 585 | 1,324 | | | 4,721,348 |
| BRITISH COLUMBIA— | | | | | | | | |
| Anthracite..... | | | | | 46 | 3,766 | | 3,812 |
| Bituminous..... | 2,746,243 | 51,347 | 93,128 | 498,782 | 22,292 | 25 | (b) 323 | 2,228,320 |
| Sub-bituminous..... | | 33,282 | | | | | | 33,282 |
| Lignite..... | | 101,754 | | 16,358 | 10,829 | | | 96,225 |
| Total..... | 2,746,243 | 186,383 | 93,128 | 515,140 | 33,167 | 3,791 | 323 | 2,361,639 |
| YUKON— | | | | | | | | |
| Bituminous..... | 414 | | | 1 | | 8 | | 421 |
| Total..... | 414 | | | 1 | | 8 | | 421 |
| CANADA— | | | | | | | | |
| Anthracite..... | | | | | 3,265,411 | 788,235 | (a) 9,973 | 4,063,619 |
| Bituminous..... | 13,006,990 | 3,177,895 | 3,177,895 | 1,085,559 | 15,038,008 | 140,309 | (b) 323 | 27,100,077 |
| Sub-bituminous..... | 596,155 | 183,577 | 183,577 | | | | | 596,155 |
| Lignite..... | 3,823,710 | 2,081,119 | 2,081,119 | 27,771 | 10,829 | | | 3,806,768 |
| Total..... | 17,426,861 | 5,442,591 | 5,442,591 | 1,113,330 | 18,314,248 | 928,544 | 10,296 | 35,566,619 |

(a) Includes 5,155 tons from the Netherlands and 4,818 tons from Germany. (b) Imported from Japan.

*Includes all coal shipped to any point in Ontario from western mines.

† Includes 11 tons of Saskatchewan lignite shipped through Saint John, N.B.

Table 24.—Summary Statistics for 1928—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

| Province | Canadian coal | | | | Imported from U.S.A. | Imported from Great Britain | Imported from other countries | Coal available for consumption |
|------------------------------------|-------------------|-------------------------------|----------------------------|----------------|----------------------|-----------------------------|-------------------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | | | |
| PRINCE EDWARD ISLAND— | | | | | | | | |
| Anthracite..... | | | | | 3,765 | | | 3,765 |
| Bituminous..... | | 78,062 | | 76 | 4,076 | | | 82,062 |
| Total..... | | 78,062 | | 76 | 7,841 | | | 85,827 |
| NOVA SCOTIA— | | | | | | | | |
| Anthracite..... | | | | | 29,815 | 29,314 | | 59,129 |
| Bituminous..... | 6,743,504 | | 2,864,254 | 344,379 | 27,473 | 4,381 | | 3,566,725 |
| Total..... | 6,743,504 | | 2,864,254 | 344,379 | 57,288 | 33,695 | | 3,625,854 |
| NEW BRUNSWICK— | | | | | | | | |
| Anthracite..... | | | | | 39,615 | 34,061 | | 73,676 |
| Bituminous..... | 207,738 | 400,684 | 101 | 25,740 | 49,484 | 1,083 | | 633,148 |
| Total..... | 207,738 | 400,684 | 101 | 25,740 | 89,099 | 35,144 | | 706,824 |
| QUEBEC— | | | | | | | | |
| Anthracite..... | | | | | 902,155 | 441,465 | (a) 7,635 | 1,351,255 |
| Bituminous..... | | 2,382,240 | | 440 | 1,303,607 | 137,549 | (b) 2 | 3,822,964 |
| Total..... | | 2,382,240 | | 440 | 2,205,762 | 579,014 | 7,637 | 5,174,219 |
| CENTRAL ONTARIO— | | | | | | | | |
| Anthracite..... | | | | | 2,159,657 | 19,407 | | 2,179,064 |
| Bituminous..... | | 33 | | 4 | 10,643,002 | | | 10,643,031 |
| Sub-bituminous..... | | *13,061 | | | | | | 13,061 |
| Lignite..... | | *32,187 | | 32 | | | | 32,155 |
| Total..... | | 45,281 | | 36 | 12,802,659 | 19,407 | | 12,867,311 |
| MANITOBA AND HEAD OF LAKES— | | | | | | | | |
| Anthracite..... | | | | | 67,624 | | | 67,624 |
| Bituminous..... | | 47,340 | | 479 | 1,772,948 | | | 1,819,809 |
| Sub-bituminous..... | | 96,250 | | | | | | 96,250 |
| Lignite..... | | 684,820 | | 3,609 | | | | 681,211 |
| Total..... | | 828,410 | | 4,088 | 1,840,572 | | | 2,664,894 |
| SASKATCHEWAN— | | | | | | | | |
| Anthracite..... | | | | | 579 | | | 579 |
| Bituminous..... | | 139,454 | | 52 | 2,536 | | | 141,938 |
| Sub-bituminous..... | | 85,915 | | | | | | 85,915 |
| Lignite..... | 471,713 | 1,341,217 | 223,551 | 7,754 | 60 | | | 1,581,685 |
| Total..... | 471,713 | 1,560,586 | 223,551 | 7,806 | 3,175 | | | 1,810,117 |
| ALBERTA— | | | | | | | | |
| Anthracite..... | | | | | | | | |
| Bituminous..... | 3,215,494 | 56,097 | 220,840 | 241 | 1,360 | | | 3,051,870 |
| Sub-bituminous..... | 740,496 | | 234,003 | | | | | 506,493 |
| Lignite..... | 3,380,340 | | 1,970,020 | 602 | | | | 1,409,712 |
| Total..... | 7,336,330 | 56,097 | 2,424,869 | 843 | 1,360 | | | 4,968,075 |
| BRITISH COLUMBIA— | | | | | | | | |
| Anthracite..... | | | | | 21 | 2,220 | | 2,241 |
| Bituminous..... | 2,804,594 | 93,348 | 112,069 | 458,093 | 17,510 | 1,132 | | 2,346,422 |
| Sub-bituminous..... | | 38,777 | | | | | | 38,777 |
| Lignite..... | | 135,353 | | 22,440 | 10,720 | | | 123,633 |
| Total..... | 2,804,594 | 267,478 | 112,069 | 480,533 | 28,251 | 3,352 | | 2,511,073 |
| YUKON— | | | | | | | | |
| Bituminous..... | 414 | | | | 40 | | | 454 |
| Total..... | 414 | | | | 40 | | | 454 |
| CANADA— | | | | | | | | |
| Anthracite..... | | | | | 3,203,231 | 526,467 | 7,635 | 3,737,333 |
| Bituminous..... | 12,971,744 | 3,197,264 | 3,197,264 | 829,604 | 13,822,036 | 144,145 | 2 | 26,198,423 |
| Sub-bituminous..... | 740,496 | 234,003 | 234,003 | | | | | 740,496 |
| Lignite..... | 3,852,053 | 2,193,577 | 2,193,577 | 34,437 | 10,780 | | | 3,828,396 |
| Total..... | 17,564,293 | 5,624,844 | 5,624,844 | 863,941 | 17,636,047 | 670,612 | 7,637 | 34,414,648 |

(a) Includes 6,204 tons from Russia, 1,102 tons from the Netherlands, 328 tons from British South Africa and 1 ton from Belgium.

(b) Imported from Newfoundland.

*Includes all coal shipped to any point in Ontario from western mines.

Table 25.—Summary Statistics for 1929—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

| Province | Canadian coal | | | | Imported from U.S.A. | Imported from Great Britain | Imported from other countries | Coal available for consumption |
|------------------------------------|---------------|-------------------------------|----------------------------|----------|----------------------|-----------------------------|-------------------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | | | |
| PRINCE EDWARD ISLAND— | | | | | | | | |
| Anthracite..... | | | | | 4,957 | 2,223 | | 7,180 |
| Bituminous..... | | 82,585 | | | 8,982 | | | 91,567 |
| Total..... | | 82,585 | | | 13,939 | 2,223 | | 98,747 |
| NOVA SCOTIA— | | | | | | | | |
| Anthracite..... | | | | | 26,695 | 31,612 (a) | 5,601 | 63,908 |
| Bituminous..... | 7,056,133 | | 2,889,053 | 351,176 | 14,153 | 21,991 | | 3,852,048 |
| Total..... | 7,056,133 | | 2,889,053 | 351,176 | 40,848 | 53,003 | 5,601 | 3,915,956 |
| NEW BRUNSWICK— | | | | | | | | |
| Anthracite..... | | | | | 45,108 | 52,709 (a) | 12,697 | 110,514 |
| Bituminous..... | 218,706 | 427,236 | 295 | 20,609 | 75,767 | 341 | | 701,146 |
| Total..... | 218,706 | 427,236 | 295 | 20,609 | 120,875 | 53,050 | 12,697 | 811,660 |
| QUEBEC— | | | | | | | | |
| Anthracite..... | | | | | 831,296 | 598,784 (a) | 99,006 | 1,529,086 |
| Bituminous..... | | 2,372,541 | | 130 | 1,242,189 | 92,941 (b) | 76 | 3,707,008 |
| Total..... | | 2,372,541 | | 130 | 2,073,476 | 691,725 | 99,082 | 5,236,094 |
| CENTRAL ONTARIO— | | | | | | | | |
| Anthracite..... | | | | | 2,202,236 | 44,130 | | 2,246,366 |
| Bituminous..... | | | | 110 | 11,332,168 | | | 11,332,058 |
| Sub-bituminous..... | | *10,195 | | | | | | 10,195 |
| Lignite..... | | *46,074 | | 36 | | | | 46,038 |
| Total..... | | 56,269 | | 146 | 13,534,404 | 44,130 | | 13,634,657 |
| MANITOBA AND HEAD OF LAKES— | | | | | | | | |
| Anthracite..... | | | | | 61,901 | | | 61,901 |
| Bituminous..... | | 46,804 | | 397 | 1,774,346 | | | 1,820,753 |
| Sub-bituminous..... | | 91,867 | | | | | | 91,867 |
| Lignite..... | | 686,268 | | 2,937 | 1,890 | | | 685,227 |
| Total..... | | 824,939 | | 3,334 | 1,838,143 | | | 2,659,748 |
| SASKATCHEWAN— | | | | | | | | |
| Anthracite..... | | | | | 365 | | | 365 |
| Bituminous..... | | 150,612 | | 76 | 2,477 | | | 153,013 |
| Sub-bituminous..... | | 74,590 | | | | | | 74,560 |
| Lignite..... | 580,189 | 1,300,783 | 231,858 | 8,151 | 41 | | | 1,641,004 |
| Total..... | 580,189 | 1,525,955 | 231,858 | 8,227 | 2,883 | | | 1,868,942 |
| ALBERTA— | | | | | | | | |
| Bituminous..... | 3,094,147 | 47,926 | 178,833 | 45 | 1,327 | | | 2,964,522 |
| Sub-bituminous..... | 668,702 | | 230,303 | | | | | 438,399 |
| Lignite..... | 3,387,844 | | 1,936,974 | 1,015 | | | | 1,449,855 |
| Total..... | 7,150,693 | 47,926 | 2,346,110 | 1,060 | 1,327 | | | 4,852,776 |
| BRITISH COLUMBIA— | | | | | | | | |
| Anthracite..... | | | | | 485 | | (c) 112 | 597 |
| Bituminous..... | 2,490,378 | 52,402 | 111,925 | 438,296 | 18,364 | 95 | | 2,011,028 |
| Sub-bituminous..... | | 53,681 | | | | | | 53,681 |
| Lignite..... | | 135,707 | | 20,004 | 12,171 | | | 127,874 |
| Total..... | 2,490,378 | 241,790 | 111,925 | 458,290 | 31,020 | 95 | 112 | 2,193,180 |
| YUKON— | | | | | | | | |
| Bituminous..... | 458 | | | | 67 | | | 525 |
| Total..... | 458 | | | | 67 | | | 525 |
| CANADA— | | | | | | | | |
| Anthracite..... | | | | | 3,173,043 | 729,458 | 117,416 | 4,019,917 |
| Bituminous..... | 12,859,822 | 3,180,106 | 3,180,106 | 810,829 | 14,469,831 | 115,368 | 76 | 26,634,268 |
| Sub-bituminous..... | 668,702 | 230,303 | 230,303 | | | | | 668,702 |
| Lignite..... | 3,968,033 | 2,168,832 | 2,168,832 | 32,143 | 14,108 | | | 3,949,998 |
| Total..... | 17,496,557 | 5,579,241 | 5,579,241 | 842,972 | 17,656,982 | 844,826 | 117,492 | 35,272,885 |

(a) Imported from Russia. (b) Imported from Newfoundland. (c) Imported from Japan.
*Includes all coal shipped to any point in Ontario from western mines.

Table 26.—Summary Statistics for 1930—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

| Province | Canadian coal | | | | Imported from U.S.A. | Imported from Great Britain | Im-ported from Russia | Im-ported from other countries | Coal available for consumption |
|------------------------------------|-------------------|-------------------------------|----------------------------|----------------|----------------------|-----------------------------|-----------------------|--------------------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Ex-ported | | | | | |
| PRINCE EDWARD ISLAND— | | | | | | | | | |
| Anthracite..... | | | | | 8,033 | 1,496 | | | 9,529 |
| Bituminous..... | | 87,904 | | | 4,408 | 1,676 | | | 93,988 |
| Total..... | | 87,904 | | | 12,441 | 3,172 | | | 103,517 |
| NOVA SCOTIA— | | | | | | | | | |
| Anthracite..... | | | | | 30,086 | 29,859 | 14,340 | | 74,285 |
| Bituminous..... | 6,252,552 | | 2,424,578 | 350,154 | 18,018 | 19,557 | | | 3,515,395 |
| Total..... | 6,252,552 | | 2,424,578 | 350,154 | 48,104 | 49,416 | 14,340 | | 3,589,680 |
| NEW BRUNSWICK— | | | | | | | | | |
| Anthracite..... | | | | | 28,325 | 60,844 | 24,880 | | 114,049 |
| Bituminous..... | 209,349 | 443,111 | 499 | 24,724 | 72,299 | 35 | | | 699,571 |
| Total..... | 209,349 | 443,111 | 499 | 24,724 | 100,624 | 60,879 | 24,880 | | 813,620 |
| QUEBEC— | | | | | | | | | |
| Anthracite..... | | | | | 754,897 | 903,928 | 252,187 | (a)11,480 | 1,922,492 |
| Bituminous..... | 1,894,062 | | | 200 | 1,111,811 | 124,931 | | (b) 33 | 3,130,637 |
| Sub-bituminous..... | | 32 | | | | | | | 32 |
| Total..... | 1,894,062 | | | 200 | 1,866,708 | 1,028,859 | 252,187 | 11,513 | 5,053,161 |
| CENTRAL ONTARIO— | | | | | | | | | |
| Anthracite..... | | | | | 2,080,681 | | | | 2,080,681 |
| Bituminous..... | | 140 | | 38 | 10,492,151 | | | | 10,492,253 |
| Sub-bituminous..... | | 5,729 | | | | | | | 5,729 |
| Lignite..... | | 25,843 | | 32 | | | | | 25,811 |
| Total..... | | 31,712 | | 70 | 12,572,832 | | | | 12,604,474 |
| MANITOBA AND HEAD OF LAKES— | | | | | | | | | |
| Anthracite..... | | | | | 53,564 | | | | 53,564 |
| Bituminous..... | | 87,548 | | 433 | 1,488,336 | | | | 1,575,451 |
| Sub-bituminous..... | | 74,031 | | | | | | | 74,031 |
| Lignite..... | | 614,287 | | 1,969 | | | | | 612,318 |
| Total..... | | 775,866 | | 2,402 | 1,541,900 | | | | 2,315,364 |
| SASKATCHEWAN — | | | | | | | | | |
| Anthracite..... | | | | | 367 | | | | 367 |
| Bituminous..... | | 127,788 | | 16 | 1,816 | | | | 129,588 |
| Sub-bituminous..... | | 61,733 | | | | | | | 61,733 |
| Lignite..... | 579,424 | 1,101,598 | 226,475 | 6,059 | | 736 | | | 1,449,224 |
| Total..... | 579,424 | 1,291,119 | 226,475 | 6,075 | 2,919 | | | | 1,640,912 |
| ALBERTA— | | | | | | | | | |
| Bituminous..... | 2,278,467 | 34,444 | 179,702 | 99 | 1,351 | | | | 2,134,461 |
| Sub-bituminous..... | | 603,358 | 193,321 | | | | | | 410,037 |
| Lignite..... | 2,873,703 | 1,535 | 1,650,336 | 1,222 | | | | | 1,223,680 |
| Total..... | 5,755,528 | 35,979 | 2,023,359 | 1,321 | 1,351 | | | | 3,768,178 |
| BRITISH COLUMBIA— | | | | | | | | | |
| Anthracite..... | | | | | 1 | | (c)1,122 | | 1,123 |
| Bituminous..... | 2,083,818 | 41,567 | 111,815 | 218,826 | 8,879 | | | | 1,803,653 |
| Sub-bituminous..... | | 51,796 | | | | | | | 51,796 |
| Lignite..... | | 133,548 | | 20,740 | 17,940 | | | | 130,748 |
| Total..... | 2,083,818 | 226,941 | 111,815 | 239,566 | 26,820 | | 1,122 | | 1,987,320 |
| YUKON— | | | | | | | | | |
| Bituminous..... | 653 | | | | 7 | | | | 660 |
| Total..... | 653 | | | | 7 | | | | 660 |
| CANADA— | | | | | | | | | |
| Anthracite..... | | | | | 2,955,954 | 996,127 | 291,407 | 12,602 | 4,256,090 |
| Bituminous..... | 10,824,839 | 2,716,594 | 2,716,594 | 594,490 | 13,199,070 | 146,199 | | 33 | 23,575,657 |
| Sub-bituminous..... | 603,358 | 193,321 | 193,321 | | | | | | 603,358 |
| Lignite..... | 3,453,127 | 1,876,811 | 1,876,811 | 30,022 | 18,876 | | | | 3,441,781 |
| Total..... | 14,881,324 | 4,786,726 | 4,786,726 | 624,512 | 16,173,706 | 1,142,326 | 291,407 | 12,635 | 31,876,886 |

(a) Imported from Germany. (b) Imported from Newfoundland. (c) Imported from French East Indies.

*Includes all coal shipped to any point in Ontario from western mines.

Table 27.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

| Province | Canadian coal | | | | Imported from U.S.A. | Imported from Great Britain | Imported from Germany | Imported from French East Indies | Coal available for consumption |
|------------------------------------|-------------------|-------------------------------|----------------------------|----------------|----------------------|-----------------------------|-----------------------|----------------------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | | | | |
| PRINCE EDWARD ISLAND— | | | | | | | | | |
| Anthracite..... | | | | | 1,271 | 7,413 | | | 8,684 |
| Bituminous..... | | 76,483 | | | 3,246 | 1,833 | | | 81,562 |
| Total..... | | 76,483 | | | 4,517 | 9,246 | | | 90,246 |
| NOVA SCOTIA— | | | | | | | | | |
| Anthracite..... | | | | | 15,304 | 34,844 | | 4,592 | 54,740 |
| Bituminous..... | 4,955,563 | | 2,231,463 | 151,912 | 5,685 | 38,352 | | | 2,616,225 |
| Total..... | 4,955,563 | | 2,231,463 | 151,912 | 20,989 | 73,196 | | 4,592 | 2,670,965 |
| NEW BRUNSWICK— | | | | | | | | | |
| Anthracite..... | | | | | 39,420 | 45,598 | | | 85,018 |
| Bituminous..... | 182,181 | 408,843 | 98 | 54,980 | 31,068 | 6,162 | | | 573,170 |
| Total..... | 182,181 | 408,843 | 98 | 54,980 | 70,488 | 51,760 | | | 658,188 |
| QUEBEC— | | | | | | | | | |
| Anthracite..... | | | | | 544,963 | 786,301 | 60,762 | | 1,392,025 |
| Bituminous..... | | 1,746,183 | | 57 | 858,015 | 75,560 | | | 2,679,701 |
| Sub-bituminous..... | | 67 | | | | | | | 67 |
| Lignite..... | | 33 | | | | | | | 33 |
| Total..... | | 1,746,283 | | 57 | 1,402,978 | 861,861 | 60,762 | | 4,071,827 |
| CENTRAL ONTARIO— | | | | | | | | | |
| Anthracite..... | | | | | 1,613,435 | 2,208 | | | 1,615,643 |
| Bituminous..... | | *455 | | 30 | 8,619,083 | 391 | | | 8,619,899 |
| Sub-bituminous..... | | *5,792 | | | | | | | 5,792 |
| Lignite..... | | *23,151 | | 38 | | | | | 22,113 |
| Total..... | | 28,398 | | 68 | 10,232,518 | 2,599 | | | 10,263,447 |
| MANITOBA AND HEAD OF LAKES— | | | | | | | | | |
| Anthracite..... | | | | | | 21,997 | | | 21,997 |
| Bituminous..... | | 176,804 | | 92 | | 703,130 | | | 879,842 |
| Sub-bituminous..... | | 48,250 | | | | | | | 48,250 |
| Lignite..... | 1,306 | 520,023 | | 1,196 | | | | | 520,133 |
| Total..... | 1,306 | 745,077 | | 1,288 | | 725,127 | | | 1,470,222 |
| SASKATCHEWAN— | | | | | | | | | |
| Anthracite..... | | | | | | | | | |
| Bituminous..... | | 120,467 | | 9 | | 1,535 | | | 121,993 |
| Sub-bituminous..... | | 27,215 | | | | | | | 27,215 |
| Lignite..... | 662,836 | 822,844 | 246,036 | 2,233 | | 23 | | | 1,237,434 |
| Total..... | 662,836 | 970,526 | 246,036 | 2,242 | | 1,558 | | | 1,386,642 |
| ALBERTA— | | | | | | | | | |
| Bituminous..... | 1,846,306 | 34,247 | 214,904 | 230 | | 912 | | | 1,666,331 |
| Sub-bituminous..... | 471,343 | | 119,027 | | | | | | 352,316 |
| Lignite..... | 2,246,366 | 33 | 1,211,662 | 961 | | | | | 1,033,776 |
| Total..... | 4,564,015 | 34,280 | 1,545,593 | 1,191 | | 912 | | | 3,052,423 |
| BRITISH COLUMBIA— | | | | | | | | | |
| Anthracite..... | | | | | | 33 | | | 33 |
| Bituminous..... | 1,876,406 | 41,589 | 158,606 | 128,986 | | 2,298 | | | 1,632,701 |
| Sub-bituminous..... | | 37,703 | | | | | | | 37,703 |
| Lignite..... | | 92,614 | | 19,123 | | 6,387 | | | 79,878 |
| Total..... | 1,876,406 | 171,906 | 158,606 | 148,109 | | 8,718 | | | 1,750,315 |
| YUKON— | | | | | | | | | |
| Bituminous..... | 904 | | | | | 10 | | | 914 |
| Total..... | 904 | | | | | 10 | | | 914 |
| CANADA— | | | | | | | | | |
| Anthracite..... | | | | | 2,236,423 | 876,364 | 60,762 | 4,592 | 3,178,141 |
| Bituminous..... | 8,861,360 | 2,605,071 | 2,605,071 | 336,302 | 10,224,982 | 122,298 | | | 18,872,338 |
| Sub-bituminous..... | 471,343 | 119,027 | 119,027 | | | | | | 471,343 |
| Lignite..... | 2,910,508 | 1,457,698 | 1,457,698 | 23,551 | 6,410 | | | | 2,893,367 |
| Total..... | 12,243,211 | 4,181,796 | 4,181,796 | 359,853 | 12,467,815 | 998,662 | 60,762 | 4,592 | 25,415,189 |

*Includes all coal shipped to any point in Ontario from western mines.

Table 28.—Coal Made Available for Consumption in Canada, 1930 and 1931

(Short tons)

| Month | 1930 | | | | 1931 | | | |
|--------------|-------------------|-------------------|----------------|-----------------------------|-------------------|-------------------|----------------|-----------------------------|
| | Output | Imports | Exports | Coal made available for use | Output | Imports | Exports | Coal made available for use |
| January | 1,643,623 | 1,200,833 | 71,356 | 2,773,100 | 1,170,885 | 792,826 | 37,017 | 1,935,694 |
| February | 1,194,711 | 1,043,041 | 45,801 | 2,191,051 | 963,340 | 830,609 | 21,641 | 1,772,308 |
| March | 1,136,765 | 1,065,380 | 35,830 | 2,166,315 | 1,051,253 | 815,429 | 32,251 | 1,834,431 |
| April | 913,203 | 600,462 | 14,731 | 1,558,934 | 898,747 | 537,530 | 12,431 | 1,423,846 |
| May | 1,124,545 | 1,373,573 | 38,900 | 2,459,218 | 912,337 | 1,191,017 | 27,887 | 2,075,467 |
| June | 1,151,963 | 1,887,497 | 68,362 | 2,971,098 | 891,425 | 1,198,479 | 38,066 | 2,051,838 |
| July | 1,058,424 | 1,781,283 | 23,554 | 2,816,153 | 831,880 | 1,245,395 | 35,603 | 2,041,672 |
| August | 1,111,676 | 1,800,598 | 88,341 | 2,823,933 | 767,547 | 1,498,354 | 27,436 | 2,238,465 |
| September | 1,252,902 | 2,046,866 | 67,384 | 3,232,384 | 1,012,659 | 1,507,250 | 25,410 | 2,494,499 |
| October | 1,659,315 | 1,966,022 | 47,259 | 3,578,078 | 1,226,032 | 1,475,673 | 37,782 | 2,663,923 |
| November | 1,349,694 | 1,571,487 | 62,266 | 2,858,915 | 1,301,659 | 1,414,082 | 21,922 | 2,693,810 |
| December | 1,284,503 | 1,223,032 | 60,728 | 2,446,807 | 1,206,447 | 1,025,187 | 42,407 | 2,189,227 |
| Total | 14,881,324 | 17,620,074 | 624,512 | 31,876,886 | 12,243,211 | 13,531,831 | 353,853 | 25,415,189 |

Table 29.—Annual Consumption of Coal in Canada, 1902-1931

| Calendar year | Canadian† | | Imported coal "entered for consumption" | | | | Total | Per capita |
|---------------|------------|------|---|--------------------|------------|------|------------|------------|
| | | | From U.S.A. | From Great Britain | Total* | | | |
| | Short tons | % | Short tons | Short tons | Short tons | % | Short tons | |
| 1902 | 5,376,413 | 53.1 | 4,656,286 | 101,726 | 4,734,559 | 46.9 | 10,110,972 | 1.848 |
| 1903 | 6,005,735 | 47.3 | 6,520,931 | 184,593 | 6,678,450 | 52.7 | 12,684,185 | 2.212 |
| 1904 | 6,697,183 | 47.9 | 7,238,869 | 85,687 | 7,207,482 | 52.1 | 13,994,665 | 2.412 |
| 1905 | 7,032,661 | 49.4 | 7,293,738 | 68,500 | 7,215,446 | 50.6 | 14,249,107 | 2.341 |
| 1906 | 7,927,560 | 50.5 | 7,787,338 | 67,014 | 7,738,325 | 49.5 | 15,665,885 | 2.481 |
| 1907 | 8,617,352 | 45.0 | 10,588,697 | 54,325 | 10,549,503 | 55.0 | 19,168,855 | 2.947 |
| 1908 | 9,156,478 | 47.3 | 10,203,335 | 97,514 | 10,195,424 | 52.7 | 19,351,902 | 2.820 |
| 1909 | 8,913,376 | 47.9 | 9,805,253 | 67,671 | 9,711,826 | 52.1 | 18,625,202 | 2.682 |
| 1910 | 10,532,103 | 50.2 | 10,545,451 | 51,541 | 10,437,123 | 49.8 | 20,970,226 | 2.960 |
| 1911 | 9,822,749 | 49.5 | 14,510,129 | 48,963 | 14,424,949 | 50.5 | 24,247,698 | 3.365 |
| 1912 | 12,385,690 | 46.0 | 14,557,124 | 38,668 | 14,549,104 | 54.0 | 26,931,800 | 3.657 |
| 1913 | 13,450,158 | 42.6 | 18,145,769 | 37,825 | 18,132,387 | 57.4 | 31,582,545 | 4.196 |
| 1914 | 12,214,403 | 45.5 | 14,687,853 | 33,101 | 14,637,920 | 54.5 | 26,852,323 | 3.490 |
| 1915 | 11,500,480 | 48.1 | 12,450,796 | 15,098 | 12,406,212 | 51.0 | 23,906,692 | 3.041 |
| 1916 | 12,348,036 | 41.3 | 17,576,202 | 4,401 | 17,517,820 | 58.7 | 29,865,856 | 3.717 |
| 1917 | 12,313,603 | 37.2 | 20,848,009 | 9,451 | 20,819,132 | 62.8 | 33,123,735 | 4.049 |
| 1918 | 13,160,731 | 37.8 | 21,674,826 | 3,761 | 21,611,101 | 62.2 | 34,771,832 | 4.175 |
| 1919 | 11,611,168 | 40.3 | 17,292,913 | 344 | 17,236,269 | 59.7 | 28,847,437 | 3.402 |
| 1920 | 14,025,566 | 42.9 | 18,752,981 | ..... | 18,668,741 | 57.1 | 32,691,307 | 3.788 |
| 1921 | 12,715,734 | 41.1 | 18,300,081 | 1,591 | 18,258,387 | 58.9 | 30,974,121 | 3.524 |
| 1922 | 13,044,352 | 50.2 | 12,255,555 | 765,980 | 12,962,189 | 49.8 | 26,096,541 | 2.916 |
| 1923 | 15,079,962 | 41.8 | 20,417,239 | 572,570 | 20,967,971 | 58.2 | 36,038,933 | 4.000 |
| 1924 | 12,529,358 | 42.8 | 16,406,344 | 317,112 | 16,714,143 | 57.2 | 29,243,501 | 3.199 |
| 1925 | 12,125,290 | 42.6 | 15,744,957 | 604,117 | 16,331,071 | 57.4 | 28,457,261 | 3.662 |
| 1926 | 15,086,296 | 47.7 | 16,204,405 | 287,299 | 16,565,556 | 52.3 | 31,651,851 | 3.349 |
| 1927 | 15,944,983 | 46.7 | 17,266,434 | 907,220 | 18,177,303 | 53.3 | 34,122,226 | 3.541 |
| 1928 | 16,487,807 | 50.0 | 15,830,688 | 682,755 | 16,515,582 | 50.0 | 33,003,389 | 3.356 |
| 1929 | 16,387,461 | 48.0 | 16,789,452 | 843,502 | 17,724,132 | 52.0 | 34,111,593 | 3.402 |
| 1930 | 14,052,671 | 43.3 | 16,071,933 | 1,144,861 | 18,412,039 | 56.7 | 32,464,710 | 3.181 |
| 1931 | 11,682,779 | 47.7 | 11,793,798 | 987,442 | 12,828,327 | 52.3 | 24,511,106 | 2.362 |

†The sum of Canadian coal mines sales, colliery consumption, coal supplied to employees, and coal used in making coke, etc., less the tonnage of coal exported.

*Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.

Table 30.—Coke made Available for Consumption in Canada, with the Coal Equivalent of the Imported Coke, 1902-1931

| Year | Output | Imports | *Exports | Coke made available for consumption | Coal equivalent of imported coke | |
|------|-----------|-----------|----------|-------------------------------------|----------------------------------|-----------------|
| | Tons | Tons | Tons | Tons | Tons | Tons per capita |
| 1902 | 502,043 | 200,140 | 62,568 | 705,615 | 409,440 | -075 |
| 1903 | 561,318 | 258,703 | 32,008 | 787,413 | 398,004 | -069 |
| 1904 | 554,083 | 239,310 | 102,463 | 690,930 | 368,169 | -063 |
| 1905 | 700,488 | 470,486 | 116,071 | 1,054,903 | 723,824 | -119 |
| 1906 | 782,055 | 501,942 | 37,003 | 1,246,994 | 772,218 | -122 |
| 1907 | 842,003 | 624,649 | 70,617 | 1,396,085 | 960,997 | -147 |
| 1908 | 858,257 | 426,971 | 58,768 | 1,226,520 | 656,878 | -096 |
| 1909 | 862,011 | 661,425 | 74,007 | 1,449,369 | 1,017,576 | -146 |
| 1910 | 902,715 | 737,088 | 57,971 | 1,581,832 | 1,133,980 | -160 |
| 1911 | 935,051 | 751,389 | 9,852 | 1,677,188 | 1,155,982 | -160 |
| 1912 | 1,411,220 | 628,174 | 57,744 | 1,981,659 | 966,420 | -132 |
| 1913 | 1,530,499 | 723,906 | 68,235 | 2,196,170 | 1,113,790 | -147 |
| 1914 | 1,023,860 | 553,046 | 67,838 | 1,509,068 | 850,839 | -110 |
| 1915 | 1,170,473 | 637,857 | 35,890 | 1,773,461 | 981,317 | -126 |
| 1916 | 1,469,741 | 757,116 | 48,539 | 2,178,318 | 1,164,793 | -144 |
| 1917 | 1,245,862 | 970,106 | 23,565 | 2,193,373 | 1,492,169 | -182 |
| 1918 | 1,250,744 | 1,165,590 | 29,612 | 2,386,722 | 1,703,213 | -215 |
| 1919 | 1,075,032 | 383,374 | 14,700 | 2,043,697 | 589,805 | -089 |
| 1920 | 1,709,203 | 586,406 | 39,536 | 2,255,073 | 902,162 | -104 |
| 1921 | 1,463,999 | 228,030 | 20,907 | 1,671,122 | 350,815 | -039 |
| 1922 | 1,232,646 | 336,270 | 19,531 | 1,549,085 | 517,338 | -058 |
| 1923 | 1,068,208 | 733,604 | 34,407 | 2,367,495 | 1,128,620 | -125 |
| 1924 | 1,436,942 | 521,725 | 23,144 | 1,935,496 | 802,633 | -087 |
| 1925 | 1,546,739 | 852,427 | 28,578 | 2,373,588 | 1,311,405 | -141 |
| 1926 | 2,027,058 | 988,034 | 41,609 | 2,973,393 | 1,520,051 | -161 |
| 1927 | 2,026,438 | 772,235 | 74,199 | 2,724,564 | 1,188,053 | -123 |
| 1928 | 2,314,127 | 1,070,029 | 25,658 | 3,349,098 | 1,680,812 | -168 |
| 1929 | 2,677,581 | 1,226,853 | 25,208 | 3,879,226 | 1,887,464 | -183 |
| 1930 | 2,385,994 | 1,061,040 | 29,801 | 3,417,233 | 1,632,368 | -164 |
| 1931 | 1,835,622 | 733,274 | 20,980 | 2,547,916 | 1,128,113 | -109 |

* Previous to 1925 export of petroleum coke was included.

Table 31.—Annual Consumption of Coal by Railroad Locomotives in Canada, 1911-1931

(Compiled in the Transportation Branch)

| Year | Anthracite | | Bituminous | | Total | |
|---------------------|------------|--------|------------|------------|------------|------------|
| | Short tons | Value | Short tons | Value | Short tons | Value |
| | | \$ | | \$ | | \$ |
| Year ended June 30— | | | | | | |
| 1911 | 6,444 | | 6,769,903 | | 6,776,347 | |
| 1912 | 5,374 | | 7,732,938 | | 7,738,312 | |
| 1913 | 4,662 | | 9,040,963 | | 9,045,625 | |
| 1914 | 5,271 | | 8,268,186 | | 8,273,457 | |
| 1915 | 3,691 | | 6,673,845 | | 6,677,536 | |
| 1916 | 4,899 | | 8,672,459 | | 8,677,354 | |
| 1917 | 4,900 | | 9,783,524 | | 9,788,424 | |
| 1918 | 3,283 | | 9,836,623 | | 9,839,906 | |
| 1919 | 4,430 | | 9,136,593 | | 9,141,023 | |
| Calendar year— | | | | | | |
| 1920 | 4,270 | | 10,372,687 | | 10,376,957 | |
| 1921 | 9,681 | | 8,784,607 | | 8,794,288 | |
| 1922 | 8,721 | 70,523 | 9,032,366 | 57,636,011 | 9,041,087 | 57,706,534 |
| 1923 | 15,184 | 97,243 | 9,925,792 | 58,480,294 | 9,940,976 | 58,566,537 |
| 1924 | 12,400 | 69,496 | 9,003,116 | 49,592,428 | 9,015,516 | 49,661,924 |
| 1925 | 12,809 | 61,066 | 8,809,969 | 44,951,092 | 8,822,778 | 45,015,758 |
| 1926 | 13,639 | 61,420 | 9,294,051 | 44,111,138 | 9,307,687 | 44,172,558 |
| 1927 | 12,570 | 58,857 | 9,487,390 | 44,728,524 | 9,499,960 | 44,787,381 |
| 1928 | 19,798 | 94,106 | 10,313,198 | 47,173,887 | 10,322,996 | 47,238,013 |
| 1929 | 11,409 | 70,091 | 9,628,711 | 43,130,696 | 9,640,120 | 43,200,790 |
| 1930 | 7,062 | 33,249 | 8,251,167 | 36,292,562 | 8,258,229 | 36,321,811 |
| 1931 | 3,336 | 14,763 | 6,858,772 | 29,691,134 | 6,862,108 | 29,705,897 |

Table 32.—Average Price per Short Ton of Canadian Coal at the Mines by Grades for each District and Province, 1930 and 1931

| District | Run-of-Mine | | | | Screened | | | | Slack | | | |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1930 | | 1931 | | 1930 | | 1931 | | 1930 | | 1931 | |
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ |
| NOVA SCOTIA— | | | | | | | | | | | | |
| Cape Breton..... | 3-92 | 3-73 | 3-63 | 3-34 | 5-20 | 4-27 | 4-19 | 3-92 | 2-21 | 1-27 | 2-15 | 1-82 |
| Cumberland..... | 4-19 | 3-75 | 4-55 | 3-98 | 4-99 | 4-20 | 5-02 | 4-48 | 2-21 | 1-49 | 2-58 | 1-75 |
| Inverness..... | 5-13 | 3-00 | 3-48 | 3-73 | 7-05 | 3-00 | 6-75 | 2-68 | 2-29 | 1-00 | 2-50 | 1-00 |
| Pictou..... | 5-11 | 4-68 | 5-26 | 4-64 | 6-44 | 5-27 | 6-07 | 5-21 | 3-47 | 3-16 | 3-37 | 3-03 |
| Average..... | 4-37 | 3-90 | 4-38 | 3-78 | 5-58 | 4-33 | 4-91 | 4-22 | 2-50 | 1-72 | 2-50 | 2-00 |
| NEW BRUNSWICK..... | 3-78 | 3-38 | 3-81 | 3-48 | 4-91 | 4-28 | 5-05 | 4-36 | 2-52 | 2-31 | 2-74 | 2-34 |
| SASKATCHEWAN..... | 2-20 | 1-83 | 1-84 | 1-49 | 2-30 | 1-80 | 1-96 | 1-46 | 1-28 | 0-96 | 1-03 | 0-82 |
| ALBERTA— | | | | | | | | | | | | |
| Bituminous— | | | | | | | | | | | | |
| Cascade..... | 5-00 | 4-15 | 5-00 | 4-00 | 7-05 | 3-40 | 7-05 | 6-00 | 3-50 | 3-50 | 3-40 | 2-50 |
| Crowsnest..... | 3-66 | 3-22 | 3-91 | 3-32 | 4-63 | 4-14 | 5-00 | 4-08 | 2-63 | 2-02 | 2-78 | 2-14 |
| Mountain Park..... | 3-92 | 3-42 | 3-56 | 3-12 | ..... | ..... | 3-57 | 3-23 | ..... | ..... | 2-75 | 2-55 |
| Nordegg..... | 3-50 | 3-50 | 3-50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1-00 | 1-00 |
| Average bituminous..... | 3-87 | 3-35 | 3-86 | 3-32 | 5-00 | 4-06 | 5-01 | 4-10 | 2-72 | 2-17 | 2-67 | 2-11 |
| Sub-bituminous— | | | | | | | | | | | | |
| Coolspar..... | 3-62 | 2-88 | 2-90 | 2-82 | 4-35 | 3-16 | 4-37 | 2-54 | 1-32 | 1-00 | 1-12 | 0-72 |
| Pekisko..... | 3-88 | 3-88 | 3-58 | 3-57 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Pincher..... | 3-00 | 3-00 | ..... | ..... | 4-25 | 3-75 | 4-50 | 3-00 | 1-12 | 0-75 | 0-50 | 0-50 |
| Prairie Creek..... | 3-50 | 3-50 | 3-37 | 3-12 | 4-82 | 3-32 | 4-37 | 3-25 | 1-15 | 1-15 | 1-15 | 1-15 |
| Saunders..... | 4-32 | 4-28 | 4-37 | 3-80 | 6-02 | 4-00 | 5-97 | 3-85 | 1-37 | 1-17 | 1-57 | 1-05 |
| Average sub-bituminous..... | 3-73 | 3-38 | 3-49 | 3-30 | 4-64 | 3-39 | 4-68 | 2-95 | 1-28 | 1-00 | 1-15 | 0-81 |
| Lignite— | | | | | | | | | | | | |
| Ardley..... | 2-75 | 2-62 | 2-33 | 2-00 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Big Valley..... | 2-85 | 2-55 | 2-58 | 2-08 | 3-58 | 2-83 | 3-00 | 3-00 | ..... | ..... | ..... | ..... |
| Brooks..... | ..... | ..... | ..... | ..... | 4-00 | 3-00 | 3-00 | 3-15 | ..... | ..... | ..... | ..... |
| Camrose..... | 2-67 | 1-92 | 2-42 | 1-87 | 3-47 | 2-27 | 3-27 | 2-32 | 0-50 | 0-47 | 0-73 | 0-47 |
| Carbon..... | 2-83 | 2-64 | 2-62 | 2-43 | 3-56 | 2-56 | 3-31 | 2-20 | 0-50 | 0-47 | 0-52 | 0-52 |
| Castor..... | 2-14 | 1-92 | 2-01 | 1-87 | 2-39 | 2-39 | 2-19 | 2-05 | ..... | ..... | 1-17 | 0-87 |
| Champion..... | 4-00 | 4-00 | 4-16 | 4-00 | 4-00 | 4-00 | 3-62 | 3-12 | 2-00 | 2-00 | 1-25 | 1-25 |
| Drumheller..... | 3-19 | 2-89 | 3-01 | 2-73 | 4-06 | 2-74 | 3-93 | 2-62 | 0-68 | 0-44 | 0-65 | 0-47 |
| Edmonton..... | 2-38 | 2-11 | 2-35 | 2-03 | 3-31 | 2-43 | 3-24 | 2-24 | 0-74 | 0-55 | 0-68 | 0-48 |
| Gleichen..... | ..... | ..... | 3-00 | 2-62 | 5-50 | 2-50 | 5-00 | 2-00 | ..... | ..... | 0-50 | 0-50 |
| Halcourt..... | 3-00 | 3-00 | ..... | ..... | 5-00 | 5-00 | 4-00 | 4-00 | 1-00 | 1-00 | 1-00 | 1-00 |
| Lethbridge..... | 4-08 | 4-08 | 3-62 | 3-42 | 4-89 | 3-33 | 4-62 | 2-89 | 0-92 | 0-65 | 1-06 | 0-88 |
| Magrath..... | ..... | ..... | 3-00 | 3-00 | 5-00 | 3-50 | 4-00 | 4-00 | ..... | ..... | 1-00 | 1-00 |
| Milk River..... | 4-00 | 4-00 | 4-00 | 4-00 | 5-00 | 5-00 | 5-00 | 5-00 | ..... | ..... | ..... | ..... |
| Pakowki..... | 2-75 | 2-75 | 2-75 | 2-25 | 3-50 | 3-50 | ..... | ..... | ..... | ..... | ..... | ..... |
| Pembina..... | 2-02 | 1-49 | 2-02 | 1-62 | 3-50 | 1-82 | 3-62 | 1-70 | 1-20 | 0-65 | 1-00 | 0-65 |
| Redcliff..... | 2-37 | 2-00 | 2-25 | 2-00 | 3-38 | 2-75 | 3-12 | 2-87 | 0-50 | 0-50 | 0-50 | 0-50 |
| Rochester..... | ..... | ..... | 2-25 | 2-25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Sextsmith..... | ..... | ..... | 2-50 | 2-50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Sheerness..... | 2-52 | 2-40 | 2-41 | 1-91 | 2-82 | 2-12 | 2-51 | 2-06 | ..... | ..... | 0-37 | 0-25 |
| Slave Lake..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Stoveville..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Taber..... | 2-38 | 2-37 | 2-11 | 2-03 | 3-22 | 3-18 | 3-05 | 2-12 | 0-60 | 0-60 | ..... | ..... |
| Tofield..... | 1-88 | 1-60 | 1-87 | 1-40 | 2-88 | 1-62 | 2-62 | 1-80 | 1-00 | 1-00 | 1-00 | 1-00 |
| Wetaskiwin..... | 2-50 | 2-50 | 2-00 | 2-00 | 2-50 | 2-00 | 2-50 | 2-50 | ..... | ..... | ..... | ..... |
| Whitcourt..... | ..... | ..... | 2-00 | 2-00 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Average lignite..... | 2-62 | 2-40 | 2-64 | 2-37 | 3-72 | 2-77 | 3-49 | 2-52 | 0-74 | 0-54 | 0-73 | 0-57 |
| Average for Alberta..... | 2-93 | 2-65 | 2-88 | 2-58 | 3-92 | 2-94 | 3-72 | 2-69 | 1-09 | 0-83 | 1-02 | 0-79 |
| BRITISH COLUMBIA— | | | | | | | | | | | | |
| Crow's Nest Pass..... | 4-25 | 3-11 | 4-00 | 3-03 | 5-77 | 4-75 | 5-50 | 4-50 | 3-62 | 2-30 | 3-50 | 2-22 |
| Inland..... | 4-17 | 3-94 | 4-42 | 4-07 | 4-93 | 4-19 | 5-19 | 4-04 | 1-79 | 1-51 | 2-03 | 1-35 |
| Island..... | 4-20 | 4-20 | 4-38 | 4-38 | 5-56 | 5-00 | 5-54 | 5-29 | 2-03 | 2-03 | 2-84 | 2-52 |
| Average..... | 4-19 | 3-82 | 4-27 | 3-77 | 5-36 | 4-69 | 5-37 | 4-59 | 2-17 | 1-81 | 2-48 | 1-76 |
| YUKON..... | ..... | ..... | ..... | ..... | 10-00 | 10-00 | 10-00 | 10-00 | ..... | ..... | ..... | ..... |
| Canada..... | 3-16 | 2-81 | 3-06 | 2-71 | 4-16 | 3-23 | 3-94 | 3-01 | 1-44 | 1-12 | 1-43 | 1-11 |

Table 33.—Yearly Average Retail Prices of Coal in Canada by Principal Municipalities, 1929-1931

(Compiled in the *Internal Trade Branch*)

| Province and municipality | Anthracite | | | Bituminous | | |
|------------------------------|------------|-------|-------|------------|-------|-------|
| | 1929 | 1930 | 1931 | 1929 | 1930 | 1931 |
| | \$ | \$ | \$ | \$ | \$ | \$ |
| PRINCE EDWARD ISLAND— | | | | | | |
| Charlottetown..... | | | | 10-12 | 10-12 | 9-94 |
| NOVA SCOTIA— | | | | | | |
| Amherst..... | | | | 9-25 | 9-25 | 9-01 |
| Hulifax..... | | | | 10-88 | 10-87 | 10-87 |
| Truro..... | | | | 10-25 | 10-25 | 10-25 |
| NEW BRUNSWICK— | | | | | | |
| Bathurst..... | | | | 10-00 | 10-00 | 10-00 |
| Fredericton..... | | | | 11-06 | 11-50 | 11-50 |
| Moncton..... | | | | 10-68 | 11-00 | 11-00 |
| St. John..... | | | | 12-46 | 12-37 | 12-30 |
| QUEBEC— | | | | | | |
| Hull..... | 15-50 | 15-50 | 15-89 | | | |
| Montreal..... | 15-79 | 15-90 | 15-62 | | | |
| Quebec..... | 15-61 | 15-26 | 15-29 | | | |
| St. Hyacinthe..... | 14-92 | 14-62 | 14-48 | | | |
| St. John..... | 14-29 | 14-21 | 14-38 | | | |
| Sherbrooke..... | 15-85 | 16-08 | 15-84 | | | |
| Sorel..... | 14-47 | 14-38 | 14-31 | | | |
| Three Rivers..... | 14-81 | 14-75 | 14-75 | | | |
| ONTARIO— | | | | | | |
| Belleville..... | 15-33 | 15-22 | 15-50 | | | |
| Brantford..... | 15-42 | 15-00 | 15-08 | | | |
| Brockville..... | 15-23 | 15-04 | 15-00 | | | |
| Chatham..... | 15-25 | 15-50 | 15-40 | | | |
| Fort William..... | 17-00 | 16-75 | 16-97 | | | |
| Galt..... | 15-25 | 15-06 | 15-06 | | | |
| Guelph..... | 14-96 | 15-04 | 15-03 | | | |
| Hamilton..... | 15-08 | 14-92 | 15-10 | | | |
| Kingston..... | 14-83 | 14-75 | 15-00 | | | |
| Kitchener..... | 15-09 | 15-92 | 15-03 | | | |
| London..... | 15-78 | 15-54 | 15-54 | | | |
| Niagara Falls..... | 13-70 | 13-85 | 13-48 | | | |
| Orillia..... | 16-00 | 15-75 | 15-92 | | | |
| Ottawa..... | 15-50 | 15-50 | 15-71 | | | |
| Owen Sound..... | 15-17 | 15-04 | 15-21 | | | |
| Peterborough..... | 15-29 | 15-23 | 15-12 | | | |
| Port Arthur..... | 17-25 | 17-25 | 17-25 | | | |
| St. Catharines..... | 14-88 | 14-58 | 15-62 | | | |
| St. Thomas..... | 15-63 | 15-42 | 15-35 | | | |
| Sault Ste. Marie..... | 15-75 | 15-75 | 15-87 | | | |
| Stratford..... | 15-42 | 15-33 | 15-46 | | | |
| Toronto..... | 15-09 | 15-17 | 15-04 | | | |
| Windsor..... | 15-69 | 15-50 | 15-71 | | | |
| Woodstock..... | 15-04 | 15-06 | 14-12 | | | |
| MANITOBA— | | | | | | |
| Brandon..... | | | | 11-50 | 11-50 | 11-36 |
| Winnipeg..... | | | | 12-00 | 12-00 | 11-67 |
| SASKATCHEWAN— | | | | | | |
| Moose Jaw..... | | | | 10-00 | 10-00 | 9-49 |
| Prince Albert..... | | | | 10-00 | 10-00 | 9-98 |
| Regina..... | | | | 10-59 | 10-50 | 10-21 |
| Saskatoon..... | | | | 9-75 | 9-75 | 9-60 |
| ALBERTA— | | | | | | |
| Calgary..... | | | | 8-50 | 8-50 | 8-50 |
| Edmonton..... | | | | 9-25 | 9-25 | 9-25 |
| | | | | 5-75 | 5-75 | 5-54 |
| BRITISH COLUMBIA— | | | | | | |
| Nelson..... | | | | 11-50 | 11-50 | 11-50 |
| New Westminster..... | | | | 11-79 | 11-71 | 11-09 |
| Prince Rupert..... | | | | 11-58 | 12-00 | 12-06 |
| Trail..... | | | | 11-00 | 11-00 | 11-00 |
| Vancouver..... | | | | 11-90 | 11-62 | 11-00 |
| Victoria..... | | | | 11-34 | 11-46 | 11-12 |

Table 34.—Average value of Coal f.o.b. Mines, together with Labour, Fuel and Electricity Costs per ton Raised by Provinces and by Districts in 1930 and 1931

| | 1930 | | | 1931 | | |
|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| | Average value per ton of coal raised | Average labour costs per ton raised | Fuel and electricity costs per ton | Average value per ton of coal raised | Average labour costs per ton raised | Fuel and electricity costs per ton |
| | \$ | \$ | \$ | \$ | \$ | \$ |
| NOVA SCOTIA—(Bituminous) | | | | | | |
| Cape Breton | 3-703 | 2-803 | ·321 | 3-604 | 2-856 | ·332 |
| Cumberland | 4-310 | 2-876 | ·500 | 4-241 | 2-835 | ·559 |
| Inverness | 4-397 | 3-611 | ·458 | 4-184 | 3-020 | ·518 |
| Pictou | 4-815 | 3-400 | ·321 | 4-544 | 3-255 | ·320 |
| Total Nova Scotia | 3-923 | 2-900 | ·348 | 3-837 | 2-910 | ·369 |
| NEW BRUNSWICK—(Bituminous) | 4-128 | 2-725 | ·121 | 4-079 | 2-770 | ·137 |
| MANITOBA—(Lignite) | | | | 2-907 | 2-297 | |
| SASKATCHEWAN—(Lignite) | 1-672 | ·942 | ·074 | 1-426 | ·769 | ·081 |
| ALBERTA— | | | | | | |
| Bituminous— | | | | | | |
| Cascade | 4-108 | 2-381 | ·317 | 4-003 | 2-355 | ·361 |
| Crowsnest | 3-457 | 2-130 | ·241 | 3-295 | 1-970 | ·247 |
| Mountain Park | 3-386 | 1-857 | ·125 | 3-339 | 1-836 | ·147 |
| Nordegg | 3-491 | 2-053 | ·152 | 3-438 | 2-040 | ·138 |
| Total Bituminous | 3-499 | 2-059 | ·203 | 3-385 | 2-001 | ·217 |
| Sub-bituminous— | | | | | | |
| Coalspur | 2-631 | 1-773 | ·083 | 2-380 | 1-625 | ·112 |
| Pekisko | 2-361 | 1-344 | ·007 | 2-583 | 1-036 | |
| Pincher | 3-321 | 1-818 | ·029 | 3-141 | 2-041 | ·049 |
| Prairie Creek* | 3-108 | 4-618 | ·367 | 3-145 | 3-174 | ·094 |
| Saunders | 4-291 | 3-172 | ·219 | 4-128 | 3-521 | ·309 |
| Total Sub-bituminous | 2-826 | 1-996 | ·104 | 2-570 | 1-883 | ·125 |
| Lignite— | | | | | | |
| Ardley | 2-600 | 1-092 | | 2-447 | 1-225 | ·034 |
| Big Valley | 2-606 | ·874 | ·050 | 2-099 | 1-221 | ·108 |
| Brooks | 3-990 | 2-603 | | 3-640 | 2-487 | ·044 |
| Camrose | 2-369 | 1-595 | ·034 | 2-115 | 1-386 | ·032 |
| Carbon | 2-474 | 1-659 | ·065 | 2-353 | 1-466 | ·045 |
| Castor | 2-250 | 1-060 | ·033 | 2-146 | 1-035 | ·024 |
| Champion | 3-927 | 1-579 | ·001 | 3-778 | 1-818 | ·023 |
| Drumheller | 3-030 | 1-872 | ·082 | 2-800 | 1-866 | ·087 |
| Edmonton | 2-130 | 1-474 | ·035 | 2-000 | 1-478 | ·043 |
| Gleichen | 4-557 | 1-880 | ·327 | 3-772 | 1-407 | ·155 |
| Halcourt | 4-358 | 3-389 | | 3-888 | 1-473 | |
| Lethbridge | 3-811 | 2-673 | ·105 | 3-302 | 2-545 | ·142 |
| Magrath | 3-937 | 1-977 | ·025 | 3-559 | ·906 | |
| Milk River | 4-092 | 3-653 | ·004 | 3-750 | 1-694 | |
| Pukowki | 2-842 | 1-663 | | 2-608 | 1-710 | |
| Pembina | 2-035 | 1-603 | ·077 | 1-921 | 1-522 | ·004 |
| Redcliff | 2-253 | 1-529 | ·048 | 2-116 | 1-287 | ·051 |
| Rochester | 1-485 | 3-000 | | 2-249 | 2-000 | |
| Sexsmith | | | | 2-500 | 2-353 | |
| Sheerness | 2-229 | ·940 | ·091 | 1-968 | 1-052 | ·076 |
| Taber | 2-622 | 1-393 | ·004 | 2-337 | 1-374 | ·004 |
| Tofield | 1-780 | ·985 | ·063 | 1-745 | 1-041 | ·070 |
| Wetaskiwin | 2-561 | 2-500 | | 2-588 | ·857 | |
| Whitcourt | | | | 2-120 | 2-000 | |
| Total Lignite | 2-918 | 1-940 | ·076 | 2-618 | 1-805 | ·083 |
| Total Alberta | 3-138 | 1-993 | ·129 | 2-923 | 1-892 | ·142 |
| BRITISH COLUMBIA—(Bituminous) | | | | | | |
| Crow's Nest Pass | 3-373 | 2-386 | ·320 | 3-146 | 2-146 | ·287 |
| Inland | 3-089 | 3-273 | ·258 | 3-913 | 2-809 | ·257 |
| Island | 4-497 | 2-866 | ·272 | 4-290 | 2-732 | ·264 |
| Total British Columbia | 4-041 | 2-742 | ·287 | 3-811 | 2-521 | ·272 |
| YUKON—(Bituminous) | 4-763 | 3-401 | ·444 | 5-574 | 1-088 | ·060 |
| Canada | 3-551 | 2-448 | ·241 | 3-366 | 2-353 | ·250 |

*High labour costs in 1930 due to development work.

Table 35.—Employees, Salaries and Wages in the Coal Mines in Canada, by Provinces, 1931

| Province | Average number of employees | | | | Salaries and wages | | | |
|-----------------------|-----------------------------|------------|--------------|---------------|--------------------|------------------|-------------------|-------------------|
| | Salaried employees | | Wage-earners | | Total | Salaries | Wages | Total |
| | Male | Female | Surface | Under-ground | | | | |
| | | | | | \$ | \$ | \$ | |
| Nova Scotia..... | 447 | 61 | 2,278 | 11,110 | 13,896 | 1,004,541 | 13,414,542 | 14,419,083 |
| New Brunswick..... | 20 | 4 | 148 | 460 | 632 | 52,890 | 451,686 | 504,576 |
| Manitoba..... | | | 12 | 26 | 38 | | 3,000 | 3,000 |
| Saskatchewan..... | 45 | 8 | 166 | 372 | 591 | 105,200 | 404,432 | 509,632 |
| Alberta..... | 528 | 41 | 2,089 | 5,935 | 8,593 | 1,258,645 | 7,376,358 | 8,635,003 |
| British Columbia..... | 202 | 15 | 1,094 | 2,796 | 4,107 | 539,270 | 4,190,880 | 4,730,150 |
| Yukon..... | | | 1 | 2 | 3 | | 984 | 984 |
| Canada..... | 1,342 | 129 | 5,788 | 20,701 | 27,860 | 2,966,546 | 25,841,882 | 28,802,428 |

Table 36.—Employment and Earnings in the Coal Mines of Canada, 1927-1931

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| Average number of wage-earners— | | | | | |
| Surface..... | 6,446 | 6,522 | 6,323 | 6,106 | 5,788 |
| Underground..... | 21,911 | 22,232 | 21,904 | 21,596 | 20,701 |
| Total..... | 28,357 | 28,754 | 28,227 | 27,704 | 26,489 |
| Days' work done— | | | | | |
| Surface..... | 1,790,624 | 1,808,183 | 1,736,276 | 1,529,602 | 1,292,264 |
| Underground..... | 5,322,664 | 5,358,827 | 5,381,416 | 4,547,082 | 3,599,277 |
| Total..... | 7,113,288 | 7,167,010 | 7,117,692 | 6,076,684 | 4,891,541 |
| Average number of days worked per man per year— | | | | | |
| Surface..... | 275 | 277 | 275 | 250 | 223 |
| Underground..... | 243 | 241 | 240 | 210 | 174 |
| By all wage-earners..... | 251 | 249 | 252 | 219 | 185 |
| Total wages paid..... | \$ 35,807,290 | \$ 39,932,353 | \$ 39,082,429 | \$ 33,257,178 | \$ 25,841,882 |
| Average wage earned per man per day..... | \$ 5.03 | \$ 5.57 | \$ 5.49 | \$ 5.47 | \$ 5.29 |

Table 37.—Wage-earners Employed in the Coal Mines of Canada by Months and by Provinces, 1927-1931

| Month and year | Nova Scotia | New Brunswick | Manitoba | Saskatchewan | Alberta | British Columbia | Yukon | Canada |
|--------------------|-------------|---------------|----------|--------------|---------|------------------|-------|--------|
| January.....1927 | 13,473 | 551 | | 706 | 10,790 | 5,184 | | 30,704 |
|1928 | 13,498 | 587 | | 726 | 11,512 | 5,330 | | 31,653 |
|1929 | 12,906 | 674 | | 711 | 11,174 | 4,995 | | 30,460 |
|1930 | 13,328 | 617 | | 723 | 11,060 | 5,141 | | 30,869 |
|1931 | 13,555 | 659 | | 672 | 10,880 | 4,292 | | 30,658 |
| February.....1927 | 13,480 | 571 | | 654 | 10,175 | 5,198 | | 30,078 |
|1928 | 13,444 | 573 | | 603 | 10,245 | 5,231 | | 30,096 |
|1929 | 12,065 | 698 | | 691 | 11,098 | 4,953 | | 30,105 |
|1930 | 13,202 | 625 | | 631 | 9,784 | 5,056 | | 29,298 |
|1931 | 13,149 | 672 | | 613 | 9,235 | 4,150 | | 27,819 |
| March.....1927 | 13,351 | 603 | | 524 | 8,604 | 5,116 | | 28,198 |
|1928 | 13,501 | 565 | | 521 | 9,174 | 5,147 | | 28,908 |
|1929 | 12,400 | 666 | | 592 | 9,212 | 5,105 | | 27,975 |
|1930 | 13,183 | 601 | | 521 | 8,616 | 4,197 | | 27,118 |
|1931 | 13,276 | 622 | | 545 | 8,164 | 4,064 | | 26,671 |
| April.....1927 | 13,227 | 552 | | 352 | 7,080 | 5,044 | | 26,255 |
|1928 | 13,504 | 529 | | 333 | 7,669 | 4,800 | | 26,835 |
|1929 | 12,578 | 500 | | 413 | 7,610 | 4,946 | | 26,107 |
|1930 | 13,325 | 502 | | 364 | 6,617 | 4,178 | | 25,076 |
|1931 | 13,462 | 597 | | 381 | 6,758 | 3,977 | | 25,175 |
| May.....1927 | 12,922 | 541 | | 316 | 6,782 | 4,873 | | 25,424 |
|1928 | 13,617 | 523 | | 307 | 6,837 | 4,879 | | 26,163 |
|1929 | 12,700 | 533 | | 373 | 7,230 | 4,365 | | 25,231 |
|1930 | 13,366 | 555 | | 338 | 6,299 | 4,149 | | 24,707 |
|1931 | 13,449 | 550 | | 321 | 6,241 | 3,949 | | 24,510 |
| June.....1927 | 13,285 | 528 | | 300 | 6,025 | 4,844 | | 25,882 |
|1928 | 13,528 | 532 | | 298 | 7,200 | 4,983 | 4 | 26,545 |
|1929 | 12,824 | 533 | | 308 | 7,707 | 4,285 | 3 | 25,720 |
|1930 | 13,318 | 553 | | 312 | 6,496 | 4,153 | 3 | 24,835 |
|1931 | 13,607 | 536 | | 295 | 5,551 | 3,595 | 3 | 23,587 |
| July.....1927 | 13,227 | 543 | | 297 | 7,477 | 4,757 | 3 | 26,304 |
|1928 | 13,433 | 527 | | 304 | 7,698 | 4,958 | 4 | 26,124 |
|1929 | 12,629 | 530 | | 375 | 8,053 | 4,370 | 3 | 25,960 |
|1930 | 13,225 | 566 | | 329 | 6,800 | 4,114 | 3 | 25,087 |
|1931 | 13,518 | 565 | | 317 | 5,673 | 3,629 | 3 | 23,705 |
| August.....1927 | 13,184 | 552 | | 327 | 8,409 | 4,811 | 2 | 27,285 |
|1928 | 13,271 | 516 | | 318 | 8,633 | 4,892 | 4 | 27,634 |
|1929 | 12,559 | 544 | | 391 | 8,689 | 4,445 | 3 | 26,631 |
|1930 | 13,205 | 553 | | 392 | 7,702 | 4,296 | 3 | 26,651 |
|1931 | 13,258 | 599 | | 345 | 6,321 | 3,575 | 4 | 24,072 |
| September.....1927 | 13,273 | 541 | | 432 | 8,017 | 4,964 | 2 | 28,129 |
|1928 | 12,950 | 549 | | 457 | 9,376 | 5,042 | 4 | 28,378 |
|1929 | 12,850 | 515 | | 614 | 9,902 | 4,871 | 3 | 28,755 |
|1930 | 13,431 | 563 | | 545 | 9,323 | 4,033 | 3 | 27,898 |
|1931 | 13,205 | 589 | | 420 | 8,445 | 3,717 | | 26,376 |
| October.....1927 | 13,469 | 582 | | 662 | 9,576 | 5,114 | | 29,403 |
|1928 | 12,913 | 843 | | 738 | 10,412 | 5,269 | | 30,175 |
|1929 | 12,936 | 538 | | 732 | 10,989 | 5,041 | | 30,236 |
|1930 | 13,561 | 589 | | 777 | 10,946 | 4,324 | | 30,197 |
|1931 | 13,421 | 594 | 38 | 772 | 9,158 | 3,819 | | 27,797 |
| November.....1927 | 13,424 | 551 | | 780 | 10,808 | 5,268 | | 30,840 |
|1928 | 13,162 | 612 | | 773 | 11,181 | 5,047 | | 30,775 |
|1929 | 12,989 | 558 | | 737 | 11,239 | 5,047 | | 30,570 |
|1930 | 13,630 | 575 | | 740 | 11,339 | 4,366 | | 30,659 |
|1931 | 13,445 | 636 | 39 | 908 | 9,965 | 3,909 | | 28,902 |
| December.....1927 | 13,490 | 590 | | 740 | 11,647 | 5,293 | | 31,766 |
|1928 | 13,172 | 661 | | 719 | 11,417 | 4,943 | | 30,912 |
|1929 | 13,082 | 583 | | 734 | 11,507 | 5,067 | | 30,973 |
|1930 | 13,742 | 626 | | 703 | 11,203 | 4,367 | | 30,661 |
|1931 | 13,306 | 711 | 41 | 864 | 9,803 | 4,007 | | 28,822 |
| Average.....1927 | 13,317 | 558 | | 509 | 8,932 | 5,038 | 3 | 28,357 |
|1928 | 13,333 | 585 | | 509 | 9,280 | 5,043 | 4 | 28,254 |
|1929 | 12,760 | 578 | | 561 | 9,514 | 4,791 | 3 | 27,627 |
|1930 | 13,376 | 584 | | 529 | 8,849 | 4,363 | 3 | 27,704 |
|1931 | 13,388 | 608 | 38 | 538 | 8,024 | 3,890 | 3 | 26,489 |

Table 38.—Wage-earners Employed, Days' Work Done by Months in the Coal Mines of Canada, 1931, with Comparative Totals for 1930

| Month | Number of wage-earners | | | Days' work done | | |
|----------------------------|------------------------|--------------|--------|------------------|------------------|------------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| January..... | 6,391 | 23,667 | 30,058 | 119,841 | 353,470 | 473,311 |
| February..... | 6,019 | 21,800 | 27,819 | 107,724 | 292,309 | 400,093 |
| March..... | 5,789 | 20,882 | 26,671 | 105,999 | 305,847 | 411,846 |
| April..... | 5,477 | 19,698 | 25,175 | 98,330 | 280,338 | 378,668 |
| May..... | 5,493 | 19,017 | 24,510 | 98,455 | 270,254 | 368,709 |
| June..... | 5,208 | 18,379 | 23,587 | 103,777 | 280,899 | 384,676 |
| July..... | 5,387 | 18,318 | 23,705 | 97,771 | 253,059 | 350,830 |
| August..... | 5,400 | 18,672 | 24,072 | 93,405 | 235,842 | 329,247 |
| September..... | 5,718 | 20,658 | 26,376 | 105,249 | 298,938 | 404,187 |
| October..... | 5,977 | 21,820 | 27,797 | 120,114 | 347,311 | 467,425 |
| November..... | 6,301 | 22,601 | 28,902 | 120,789 | 345,435 | 466,224 |
| December..... | 6,179 | 22,643 | 28,822 | 120,810 | 335,515 | 456,325 |
| Total for 1931..... | | | | 1,292,264 | 3,599,277 | 4,891,541 |
| Total for 1930..... | | | | 1,529,692 | 4,547,082 | 6,076,684 |

Table 39.—Wage-earners Employed in the Coal Mines of Canada, by Classes and by Provinces, 1931, with Comparative Totals for 1930

| Classification | Province | | | | | | | Canada | | |
|-----------------------------------|---------------|---------------|-----------|--------------|--------------|------------------|----------|--------------|---------------|---------------|
| | Nova Scotia | New Brunswick | Manitoba | Saskatchewan | Alberta | British Columbia | Yukon | Surface | Under-ground | Total |
| Administration..... | 75 | 15 | | 13 | 89 | 18 | | 187 | 23 | 210 |
| Foremen and clerks..... | 144 | 16 | 4 | 21 | 214 | 99 | | 485 | 13 | 498 |
| Screenmen and loaders..... | 709 | 37 | | 46 | 688 | 137 | 1 | 1,618 | | 1,618 |
| Stripping shovel..... | | | | 6 | | | | 6 | | 6 |
| Officials..... | 550 | 5 | 3 | 14 | 341 | 136 | | 10 | 1,039 | 1,049 |
| Hand cutters and helpers..... | 1,156 | 386 | 23 | 206 | 1,867 | 1,275 | 2 | | 4,915 | 4,915 |
| Machine cutters..... | 1,317 | 4 | | 16 | 363 | 75 | | | 1,775 | 1,775 |
| Machine loaders and helpers..... | 1,998 | 13 | | 49 | 1,683 | 121 | | | 3,864 | 3,864 |
| Horse haulage employees..... | 632 | 2 | 5 | 41 | 510 | 275 | | 43 | 1,422 | 1,465 |
| Mechanical haulage employees..... | 1,686 | 9 | | 16 | 340 | 289 | | 83 | 2,257 | 2,340 |
| Ventilation employees..... | 268 | | | | 79 | 31 | | 2 | 376 | 378 |
| Roadmakers..... | 290 | 7 | | 18 | 150 | 60 | | 8 | 517 | 525 |
| Timbermen..... | 1,074 | 19 | | 5 | 244 | 175 | | 19 | 1,498 | 1,517 |
| Pumpmen..... | 114 | 3 | | 7 | 41 | 22 | | 6 | 181 | 187 |
| Loading shovel..... | | | | 4 | | | | 4 | | 4 |
| Chute loaders..... | | | | | 135 | | | | 135 | 135 |
| Engineer..... | 189 | 13 | 3 | 10 | 155 | 69 | | 427 | 12 | 439 |
| Firemen..... | 137 | 3 | | 12 | 103 | 45 | | 300 | | 300 |
| Machinists..... | 205 | 2 | | 4 | 70 | 56 | | 325 | 12 | 337 |
| Carpenters and masons..... | 119 | 1 | | 6 | 48 | 59 | | 232 | 1 | 233 |
| Other mechanics..... | 313 | 1 | | 5 | 90 | 104 | | 280 | 233 | 513 |
| Japanese..... | | | | | | 59 | | 1 | 58 | 59 |
| Chinese..... | | | | | | 222 | | 136 | 86 | 222 |
| Indians..... | | | | | | | | | | |
| All other employees..... | 2,412 | 72 | | 39 | 814 | 563 | | 1,616 | 2,284 | 3,900 |
| Total for 1931..... | 13,388 | 668 | 38 | 538 | 8,024 | 3,890 | 3 | 5,788 | 29,701 | 26,489 |
| Total for 1930..... | 13,376 | 584 | | 529 | 8,849 | 4,363 | 3 | 6,106 | 21,598 | 27,704 |

Table 40.—Average Output of Coal per Man-Day in Canada, by Provinces and by Districts, 1930 and 1931

| | 1930 | | | 1931 | | |
|----------------------------------|--------------------|-------------------|----------------------------|--------------------|-------------------|----------------------------|
| | Number of man days | Output | Average output per man day | Number of man days | Output | Average output per man day |
| | | Tons | Tons | | Tons | Tons |
| NOVA SCOTIA— | | | | | | |
| Cape Breton..... | 1,950,303 | 4,594,446 | 2-355 | 1,495,573 | 3,449,472 | 2-306 |
| Cumberland..... | 471,248 | 802,266 | 1-702 | 369,541 | 694,097 | 1-878 |
| Inverness..... | 128,569 | 155,088 | 1-206 | 129,824 | 140,505 | 1-082 |
| Pictou..... | 498,172 | 700,752 | 1-406 | 448,243 | 671,489 | 1-498 |
| Total..... | 3,048,292 | 6,252,552 | 2-051 | 2,443,181 | 4,955,563 | 2-028 |
| NEW BRUNSWICK..... | 134,720 | 209,349 | 1-553 | 119,380 | 182,181 | 1-526 |
| MANITOBA..... | | | | 867 | 1,306 | 1-506 |
| SASKATCHEWAN..... | 108,302 | 579,424 | 5-350 | 105,710 | 602,836 | 6-270 |
| ALBERTA— | | | | | | |
| Bituminous— | | | | | | |
| Cascade..... | 67,663 | 212,953 | 3-147 | 54,893 | 166,297 | 3-029 |
| Crowsnest..... | 366,263 | 1,133,891 | 3-095 | 297,743 | 951,948 | 3-197 |
| Mountain Park..... | 189,947 | 726,777 | 3-826 | 151,416 | 560,840 | 3-704 |
| Nordegg..... | 63,677 | 204,846 | 3-216 | 54,558 | 167,215 | 3-065 |
| Total Bituminous..... | 687,550 | 2,278,467 | 3-313 | 558,610 | 1,840,300 | 3-305 |
| Sub-Bituminous— | | | | | | |
| Coalspur..... | 124,139 | 515,306 | 4-151 | 88,840 | 398,021 | 4-480 |
| Pekisko..... | 2,313 | 4,240 | 1-833 | 755 | 873 | 1-166 |
| Pincher..... | 1,364 | 2,320 | 1-700 | 1,703 | 2,414 | 1-417 |
| Prairie Creek..... | 8,986 | 15,425 | 1-716 | 16,902 | 35,523 | 2-102 |
| Saunders..... | 24,251 | 66,067 | 2-724 | 10,697 | 34,512 | 3-226 |
| Total Sub-Bituminous..... | 161,053 | 603,358 | 3-746 | 118,897 | 471,343 | 3-964 |
| Lignite— | | | | | | |
| Ardley..... | 1,624 | 2,994 | 1-843 | 4,865 | 10,609 | 2-181 |
| Big Valley..... | 1,822 | 4,473 | 2-454 | 1,348 | 3,340 | 2-478 |
| Brooks..... | 3,358 | 7,984 | 2-377 | 2,221 | 4,908 | 2-210 |
| Camrose..... | 9,647 | 35,445 | 3-674 | 11,513 | 41,235 | 3-582 |
| Carbon..... | 29,208 | 91,018 | 3-116 | 26,327 | 85,831 | 3-290 |
| Castor..... | 9,679 | 24,662 | 2-547 | 10,029 | 24,319 | 2-425 |
| Champion..... | 5,077 | 12,511 | 2-464 | 6,523 | 12,113 | 1-857 |
| Drumheller..... | 399,274 | 1,432,873 | 3-588 | 290,119 | 1,070,710 | 3-691 |
| Edmonton..... | 133,885 | 417,262 | 3-116 | 115,740 | 370,657 | 3-202 |
| Gleichen..... | 1,666 | 3,057 | 1-834 | 1,789 | 3,166 | 1-770 |
| Halcourt..... | 272 | 418 | 1-536 | 1,286 | 1,702 | 1-323 |
| Lethbridge..... | 252,976 | 545,265 | 2-155 | 157,230 | 358,749 | 2-282 |
| Magrath..... | 632 | 971 | 1-536 | 1,595 | 1,750 | 1-097 |
| Milk River..... | 758 | 1,362 | 1-796 | 2,073 | 3,854 | 1-859 |
| Pakowki..... | 839 | 2,101 | 2-504 | 955 | 1,602 | 1-677 |
| Pembina..... | 30,617 | 119,873 | 3-918 | 23,867 | 92,859 | 3-891 |
| Redcliff..... | 8,176 | 25,181 | 3-079 | 7,416 | 25,120 | 3-387 |
| Rochester..... | 140 | 140 | 1-000 | 128 | 225 | 1-758 |
| Sexsmith..... | | | | 30 | 34 | 1-133 |
| Sheerness..... | 6,843 | 21,683 | 3-168 | 7,373 | 19,684 | 2-670 |
| Taber..... | 5,136 | 12,293 | 2-393 | 5,678 | 11,856 | 2-088 |
| Tofield..... | 23,242 | 111,932 | 4-815 | 18,627 | 101,843 | 5-467 |
| Wetaskiwin..... | 100 | 105 | 1-050 | 184 | 175 | 0-951 |
| Whitecourt..... | | | | 43 | 25 | 0-581 |
| Total Lignite..... | 924,971 | 2,873,703 | 3-106 | 696,959 | 2,246,366 | 3-223 |
| Total Alberta..... | 1,773,574 | 5,755,528 | 3-245 | 1,374,466 | 4,564,915 | 3-321 |
| BRITISH COLUMBIA— | | | | | | |
| Crow's Nest Pass..... | 248,839 | 738,370 | 2-967 | 208,151 | 707,277 | 3-398 |
| Inland..... | 141,106 | 237,978 | 1-686 | 129,185 | 238,354 | 1-845 |
| Island..... | 621,545 | 1,107,470 | 1-781 | 510,437 | 930,775 | 1-823 |
| Total..... | 1,011,490 | 2,083,818 | 2-060 | 847,773 | 1,876,406 | 2-213 |
| YUKON..... | 306 | 653 | 2-133 | 164 | 904 | 5-512 |
| Canada..... | 6,076,684 | 14,881,324 | 2-448 | 4,891,541 | 12,243,211 | 2-563 |

Table 41.—Fatal and Non-Fatal Accidents in the Coal Mining Industry in Canada, by Provinces, 1931, with Comparative Totals for 1930

| | Nova Scotia | | New Brunswick | | Saskatchewan | | Alberta | | British Columbia | | Canada | |
|-------------------------------|-------------|--------------|---------------|------------|--------------|------------|-----------|------------|------------------|------------|-----------|--------------|
| | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal |
| UNDERGROUND | | | | | | | | | | | | |
| Falls of roof or face..... | 14 | 358 | 2 | 48 | 1 | 20 | 9 | 38 | 2 | 177 | 28 | 641 |
| Mine cars and locomotives... | 6 | 288 | | 30 | | 34 | 3 | 41 | 3 | 109 | 12 | 502 |
| Gas and dust explosions..... | 6 | 4 | | 7 | | 3 | 2 | 5 | | 1 | 8 | 10 |
| Explosives..... | | 1 | | | | | | 8 | | | | 19 |
| Electricity..... | | | | | | | | 10 | | | | 15 |
| Timbering..... | | | | | | 5 | | | | | | |
| Mining and loading..... | | | | | | 34 | | 9 | | | | 43 |
| Coal cutting machines..... | | | | | | | | 7 | | | | 7 |
| Miscellaneous..... | 2 | 397 | 1 | 58 | | 19 | 1 | 10 | | 254 | 4 | 738 |
| Total underground..... | 28 | 1,048 | 3 | 143 | 1 | 115 | 15 | 128 | 5 | 541 | 52 | 1,975 |
| SURFACE | | | | | | | | | | | | |
| Haulage and cars..... | 3 | 41 | | 11 | | 10 | 1 | 8 | | 23 | 4 | 93 |
| Machinery..... | | 18 | | 5 | | 6 | | | | 17 | | 46 |
| Miscellaneous..... | | 107 | | 10 | | 34 | | 12 | | 90 | | 253 |
| Total surface..... | 3 | 166 | | 26 | | 50 | 1 | 20 | | 130 | 4 | 392 |
| Total for 1931..... | 31 | 1,214 | 3 | 169 | 1 | 165 | 16 | 148 | 5 | 671 | 56 | 2,367 |
| Total for 1930..... | 23 | 2,143 | 2 | 194 | 2 | 101 | 11 | 166 | 54 | 687 | 92 | 3,291 |

Table 42.—Fuel and Electricity Used in the Coal Mining Industry in Canada by Kinds and by Provinces, 1931

| Province | Coal | | | Gasoline and kerosene | Electricity purchased | Total value | Electricity generated for own use |
|--------------------------|--------------|----------------|-----------|-----------------------|-----------------------|-------------|-----------------------------------|
| | Bituminous | Sub-bituminous | Lignite | | | | |
| | Tons | Tons | Tons | Imp. Gal. | K.W.H. | | K.W.H. |
| NOVA SCOTIA— | | | | | | | |
| Quantity..... | 389,800 | | | | 39,702,783 | | 50,110,160 |
| Value..... | \$ 1,329,574 | | | | 490,680 | 1,826,254 | |
| NEW BRUNSWICK— | | | | | | | |
| Quantity..... | 6,128 | | | | 726 | | 600,480 |
| Value..... | \$ 25,003 | | | | 19 | 25,022 | |
| SASKATCHEWAN— | | | | | | | |
| Quantity..... | | | 31,328 | 25,360 | 1,168,677 | | 660.00 |
| Value..... | | | \$ 31,028 | 5,058 | 17,421 | 53,507 | |
| ALBERTA— | | | | | | | |
| Quantity..... | 82,676 | 34,607 | 84,422 | 13,549 | 17,370,260 | | 8,894,592 |
| Value..... | \$ 255,971 | 58,129 | 78,713 | 3,925 | 249,174 | 645,912 | |
| BRITISH COLUMBIA— | | | | | | | |
| Quantity..... | 134,232 | | | 275 | 10,451,714 | | 17,836,801 |
| Value..... | \$ 407,618 | | | 90 | 102,030 | 509,738 | |
| YUKON— | | | | | | | |
| Quantity..... | 18 | | | | | | |
| Value..... | \$ 54 | | | | | 54 | |
| Canada— | | | | | | | |
| Quantity..... | 612,854 | 34,607 | 115,750 | 39,184 | 68,694,160 | | 78,102,033 |
| Value..... | \$ 2,018,220 | 58,129 | 109,741 | 9,073 | 865,324 | 3,069,487 | |

Table 43.—Power Employed in the Coal Mining Industry in Canada, by Provinces, 1931, with Comparative Totals for 1930

| Province | Steam engines and turbines | Internal combustion engines | Hydraulic turbines or water wheels | Total primary power | Electric motors run by purchased power | Total power employed | Electric motors run by primary power in same plant | Total electric motors | Boilers |
|-------------------------------------|----------------------------|-----------------------------|------------------------------------|------------------------|--|--------------------------|--|--------------------------|-----------------------|
| Nova Scotia..... No. H.P. | 83 55,726 | 3 28 | | 86 55,752 | 213 8,420 | 299 64,172 | 390 43,206 | 603 51,626 | 121 35,039 |
| New Brunswick.... No. H.P. | 19 1,087 | | | 19 1,087 | 3 9 | 22 1,096 | 24 373 | 27 582 | 17 1,051 |
| Saskatchewan..... No. H.P. | 35 2,365 | 6 81 | | 41 2,446 | 69 3,271 | 110 5,717 | 43 835 | 112 4,106 | 17 2,300 |
| Alberta..... No. H.P. | 177 29,390 | 58 930 | | 235 30,326 | 720 23,927 | 955 54,253 | 318 9,490 | 1,038 33,417 | 161 20,623 |
| British Columbia.. No. H.P. | 103 22,094 | 2 50 | 2 12,000 | 107 34,144 | 77 2,401 | 184 36,515 | 193 14,960 | 270 17,361 | 88 14,722 |
| Yukon..... No. H.P. | | | | | | | | | 1 25 |
| Total for 1931..... No. H.P. | 417 110,662 | 69 1,093 | 2 12,000 | 488 123,755 | 1,082 38,028 | 1,570 161,783 | 968 68,864 | 2,050 106,892 | 495 73,769 |
| Total for 1930..... No. H.P. | 425 110,873 | 55 452 | 2 12,000 | 482 123,325 | 903 28,842 | 1,385 152,167 | 1,001 70,383 | 1,904 89,435 | 442 75,768 |

Table 44.—Capital Employed in the Coal Mines of Canada by Provinces as at December 15, 1930 and 1931

| Province | 1930 | | | | 1931 | | | |
|--------------------|---|-------------------------------------|---|--------------------|---|-------------------------------------|---|--------------------|
| | Capital employed as represented by | | | | Capital employed as represented by | | | |
| | Cost of lands, buildings, machinery and tools | Cost of supplies and stocks on hand | Cash, trading and operating accounts and bills receivable | Total | Cost of lands, buildings, machinery and tools | Cost of supplies and stocks on hand | Cash, trading and operating accounts and bills receivable | Total |
| | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ |
| Nova Scotia..... | 46,449,130 | 3,727,540 | 5,006,656 | 56,083,335 | 47,499,401 | 2,495,702 | 5,772,916 | 55,768,019 |
| New Brunswick.... | 1,390,495 | 24,000 | 227,008 | 1,642,403 | 1,635,844 | 19,934 | 245,197 | 1,901,975 |
| Saskatchewan..... | 4,113,072 | 120,979 | 123,199 | 4,357,250 | 4,318,100 | 115,508 | 208,142 | 4,641,750 |
| Alberta..... | 45,452,048 | 1,070,629 | 7,444,514 | 53,967,182 | 41,137,728 | 1,360,120 | 6,421,881 | 48,919,729 |
| British Columbia.. | 21,420,210 | 581,531 | 2,060,884 | 24,062,625 | 21,549,427 | 663,836 | 2,065,070 | 24,278,333 |
| Yukon..... | 203,000 | | | 203,000 | 203,000 | | | 203,000 |
| Canada..... | 119,028,564 | 5,525,570 | 15,762,261 | 140,316,395 | 116,343,560 | 4,655,100 | 14,714,206 | 135,712,866 |

CHAPTER TWO
PRINCE EDWARD ISLAND

Prince Edward Island's coal supply is drawn from Nova Scotia, Great Britain and the United States. In 1931, coal made available for consumption within the province amounted to 90,246 tons, made up of 76,483 tons from Nova Scotia, 9,246 tons from Great Britain and 4,517 tons from the United States. During the previous year, 103,517 tons were available for consumption; Nova Scotia supplied 84.8 per cent of this tonnage, New Brunswick 0.1 per cent, the United States, 12.0 per cent, and Great Britain, 3.1 per cent. An interesting feature of the year was the change in the source of imported coal, in 1931 receipts from Great Britain increased 191.5 per cent over the preceding year while importations from the United States recorded a 63.7 per cent decline.

Table 45.—Imports into Prince Edward Island of Anthracite and Bituminous Coal by Ports of Entry, 1930 and 1931

(Short tons)

| Port | Source | 1930 | | | | | 1931 | | | | |
|--------------------------|----------|----------------|-------|-------|-----------------------|------------|----------------|------|-------|-----------------------|------------|
| | | Anthracite | | | Bituminous all grades | Total coal | Anthracite | | | Bituminous all grades | Total coal |
| | | Egg, nut, etc. | Dust | Total | | | Egg, nut, etc. | Dust | Total | | |
| Charlottetown..... | U.S..... | 5,274 | | 5,274 | 4,408 | 9,682 | 1,271 | | 1,271 | 3,246 | 4,517 |
| | G.B..... | | | | 1,676 | 1,676 | 4,565 | | 4,565 | | 4,565 |
| Summerside..... | U.S..... | | 2,759 | 2,759 | | 2,759 | | | | | |
| | G.B..... | | 1,496 | 1,496 | | 1,496 | 2,848 | | 2,848 | 1,833 | 4,681 |
| Total | U.S..... | 5,274 | 2,759 | 8,033 | 4,408 | 12,441 | 1,271 | | 1,271 | 3,246 | 4,517 |
| | G.B..... | | 1,496 | 1,496 | 1,676 | 3,172 | 7,413 | | 7,413 | 1,833 | 9,246 |
| Grand total | | 5,274 | 4,255 | 9,529 | 6,084 | 15,613 | 8,684 | | 8,684 | 5,079 | 13,763 |

Table 46.—Summary Statistics for 1931—Interprovincial Shipments, Imports and Coal made Available for Consumption in Prince Edward Island by Months and by Kinds

(Short tons)

| Month | Canadian coal received from other provinces | Imported from U.S.A. | Imported from Great Britain | Coal available for consumption |
|-------------------|---|----------------------|-----------------------------|--------------------------------|
| January— | | | | |
| Anthracite..... | | | | |
| Bituminous..... | 5,084 | | | 5,084 |
| Total..... | 5,084 | | | 5,084 |
| February— | | | | |
| Anthracite..... | | | | |
| Bituminous..... | 3,774 | | | 3,774 |
| Total..... | 3,774 | | | 3,774 |
| March— | | | | |
| Anthracite..... | | | | |
| Bituminous..... | 4,163 | | | 4,163 |
| Total..... | 4,163 | | | 4,163 |
| April— | | | | |
| Anthracite..... | | | | |
| Bituminous..... | 2,686 | 50 | | 2,736 |
| Total..... | 2,686 | 50 | | 2,736 |
| May— | | | | |
| Anthracite..... | | | 2,439 | 2,439 |
| Bituminous..... | 4,830 | 29 | | 4,859 |
| Total..... | 4,830 | 29 | 2,439 | 7,298 |
| June— | | | | |
| Anthracite..... | | 603 | | 603 |
| Bituminous..... | 5,011 | | | 5,011 |
| Total..... | 5,011 | 603 | | 5,614 |
| July— | | | | |
| Anthracite..... | | | | |
| Bituminous..... | 4,445 | | | 4,445 |
| Total..... | 4,445 | | | 4,445 |
| August— | | | | |
| Anthracite..... | | | 1,124 | 1,124 |
| Bituminous..... | 6,435 | 3,068 | 1,833 | 11,336 |
| Total..... | 6,435 | 3,068 | 2,957 | 12,460 |
| September— | | | | |
| Anthracite..... | | 668 | 2,848 | 3,516 |
| Bituminous..... | 12,056 | | | 12,056 |
| Total..... | 12,056 | 668 | 2,848 | 15,572 |
| October— | | | | |
| Anthracite..... | | | 1,002 | 1,002 |
| Bituminous..... | 11,929 | 32 | | 11,961 |
| Total..... | 11,929 | 32 | 1,002 | 12,963 |
| November— | | | | |
| Anthracite..... | | | | |
| Bituminous..... | 8,882 | 34 | | 8,916 |
| Total..... | 8,882 | 34 | | 8,916 |
| December— | | | | |
| Anthracite..... | | | | |
| Bituminous..... | 7,188 | 33 | | 7,221 |
| Total..... | 7,188 | 33 | | 7,221 |
| Total— | | | | |
| Anthracite..... | | 1,271 | 7,412 | 8,683 |
| Bituminous..... | 76,483 | 3,246 | 1,833 | 81,562 |
| Total..... | 76,483 | 4,517 | 9,246 | 90,246 |

CHAPTER THREE

NOVA SCOTIA

Nova Scotia's coal output in 1931 declined to the lowest point on record since 1925. Production during the year amounted to 4,955,563 tons as compared with the 1930 output of 6,252,552 tons. Declines were general in the four coal-producing districts. Cape Breton mines recorded a 24.9 per cent falling-off in production, Cumberland mines, 13.5 per cent, Inverness mines, 9.4 per cent, and Pictou mines, 4.2 per cent.

Shipments from the mines during the year totalled 4,459,911 tons, or 21 per cent below the tonnage shipped in 1930. Quebec continued to provide the largest market for Nova Scotia coal; shipments to this province in 1931 amounted to 1,746,085 tons or 39.2 per cent of the total quantity shipped by the coal mines. Coal shipped for consumption within the province totalled 1,127,650 tons or 25.3 per cent of the mine shipments. Railroads purchased 780,108 tons or 17.5 per cent of the coal shipped. The New Brunswick market absorbed 408,843 tons, Newfoundland, 108,589 tons, Prince Edward Island, 76,483 tons, the United States, 41,972 tons, and St. Pierre, 372 tons. Shipments for bunker purposes amounted to 169,757 tons. Ontario received 52 tons of Nova Scotia coal direct from the mines; an additional 174,879 tons were shipped from stock at Montreal to Ontario points.

Coal mines active in Nova Scotia during the year produced only 58 per cent of their possible output as compared with 72 per cent in 1930. Lack of orders was the principal cause of the curtailment of mining operations, accounting for 38.3 per cent of the 42 per cent output loss. Output losses due to causes other than strikes were estimated at 3,519,538 tons. The average production per man-day in 1931 was 2.028 tons and the time lost through strikes 2,020 man-days, so that the apparent tonnage lost through this cause was 4,097 tons. Therefore, Nova Scotia coal mines suffered an output loss of 3,523,635 tons due to various causes during 1931.

Coal available for consumption in Nova Scotia amounted to 2,670,965 tons or 25.6 per cent below the total for the preceding year. The 1931 supply was drawn from the following sources: Nova Scotia mines, 96.3 per cent; Great Britain, 2.7 per cent; the United States, 0.8 per cent, and French Indo-China, 0.2 per cent.

Employment during the year was furnished 13,896 salaried employees and wage-earners whose earnings totalled \$14,419,083. An average of 182 days work was obtained by each wage-earner as against 227 days work in 1930. The number of man-days' work done declined 19.9 per cent in 1931 to 2,443,181.

Table 47.—Output of Coal from Nova Scotia Mines, 1785-1931

(Short tons)

| Calendar year | Output | Value | Calendar year | Output | Value | Calendar year | Output | Value |
|----------------|-----------|-----------|---------------|-----------|------------|-------------------|--------------------|--------------------|
| | | \$ | | | \$ | | | \$ |
| 1785-1866..... | 2,649,416 | 4,139,714 | 1888..... | 1,942,231 | 3,034,735 | 1910..... | 6,431,142 | 12,919,705 |
| 1867..... | 506,332 | 931,769 | 1889..... | 1,918,827 | 2,998,167 | 1911..... | 7,094,420 | 14,071,379 |
| 1868..... | 574,106 | 897,041 | 1890..... | 2,181,033 | 3,407,864 | 1912..... | 7,783,888 | 17,374,750 |
| 1869..... | 647,727 | 1,012,074 | 1891..... | 2,267,939 | 3,543,624 | 1913..... | 7,980,073 | 17,812,663 |
| 1870..... | 719,211 | 1,123,767 | 1892..... | 2,159,389 | 3,374,046 | 1914..... | 7,370,924 | 16,452,955 |
| 1871..... | 754,827 | 1,179,417 | 1893..... | 2,444,824 | 3,820,194 | 1915..... | 6,912,140 | 16,659,308 |
| 1872..... | 1,003,806 | 1,568,446 | 1894..... | 2,527,082 | 3,949,970 | 1916..... | 6,912,140 | 18,514,662 |
| 1873..... | 1,108,245 | 1,731,632 | 1895..... | 2,225,145 | 3,476,790 | 1917..... | 6,327,091 | 19,410,737 |
| 1874..... | 972,954 | 1,520,240 | 1896..... | 2,508,579 | 3,919,655 | 1918..... | 5,818,562 | 21,095,470 |
| 1875..... | 930,613 | 1,454,084 | 1897..... | 2,493,554 | 3,896,179 | *1919..... | 5,790,196 | 22,350,157 |
| 1876..... | 837,755 | 1,308,991 | 1898..... | 2,563,180 | 4,004,970 | *1920..... | 6,437,156 | 32,314,523 |
| 1877..... | 880,215 | 1,375,339 | 1899..... | 3,148,822 | 5,622,898 | *1921..... | 5,734,928 | 27,782,050 |
| 1878..... | 875,994 | 1,368,741 | 1900..... | 3,623,536 | 6,088,256 | *1922..... | 5,569,072 | 24,629,921 |
| 1879..... | 866,220 | 1,353,460 | 1901..... | 4,158,068 | 6,496,982 | *1923..... | 6,597,838 | 28,170,458 |
| 1880..... | 1,177,660 | 1,840,108 | 1902..... | 5,161,316 | 9,216,636 | *1924..... | 5,557,441 | 22,280,554 |
| 1881..... | 1,280,050 | 2,000,079 | 1903..... | 5,653,338 | 10,095,246 | *1925..... | 3,842,078 | 15,826,680 |
| 1882..... | 1,524,447 | 2,382,730 | 1904..... | 5,596,241 | 9,993,288 | *1926..... | 6,747,477 | 26,845,226 |
| 1883..... | 1,578,609 | 2,466,576 | 1905..... | 6,646,583 | 10,083,184 | *1927..... | 7,071,876 | 27,194,671 |
| 1884..... | 1,543,829 | 2,412,233 | 1906..... | 6,220,505 | 11,108,044 | *1928..... | 6,743,504 | 27,427,556 |
| 1885..... | 1,547,090 | 2,418,735 | 1907..... | 6,354,133 | 12,764,999 | *1929..... | 7,056,133 | 28,071,956 |
| 1886..... | 1,698,018 | 2,653,152 | 1908..... | 6,652,539 | 13,364,476 | *1930..... | 6,252,552 | 24,528,860 |
| 1887..... | 1,858,596 | 2,904,057 | 1909..... | 5,652,089 | 11,354,645 | *1931..... | 4,955,563 | 19,016,720 |
| | | | | | | Total..... | 250,175,386 | 668,408,195 |

* For the years 1910-1931 the tonnage shown is the total output from all mines; for previous years the figures given include only sales, colliery consumption, and coal used by the operators.

Table 48.—Output of Coal from Nova Scotia Mines, by Months, 1927-1931

(Short tons)

| Month | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|------------------|------------------|------------------|------------------|------------------|
| January..... | 572,013 | 447,538 | 554,068 | 542,253 | 439,495 |
| February..... | 409,060 | 450,318 | 571,564 | 475,975 | 401,036 |
| March..... | 641,697 | 477,465 | 538,652 | 495,508 | 431,382 |
| April..... | 593,027 | 438,999 | 555,078 | 437,584 | 444,559 |
| May..... | 599,947 | 650,711 | 622,643 | 631,517 | 469,827 |
| June..... | 698,671 | 630,636 | 613,431 | 546,060 | 431,892 |
| July..... | 563,431 | 594,932 | 620,712 | 563,177 | 396,284 |
| August..... | 588,369 | 666,767 | 650,706 | 537,850 | 335,857 |
| September..... | 566,799 | 608,501 | 596,730 | 476,172 | 396,510 |
| October..... | 583,315 | 674,725 | 637,695 | 572,851 | 460,782 |
| November..... | 607,798 | 605,448 | 585,406 | 493,157 | 366,604 |
| December..... | 587,749 | 497,464 | 508,458 | 459,542 | 378,435 |
| Total..... | 7,071,876 | 6,743,504 | 7,056,133 | 6,252,552 | 4,955,563 |

Table 49.—Output of Coal by Districts in Nova Scotia, 1927-1931

(Short tons)

| District | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|------------------|------------------|------------------|------------------|------------------|
| Cape Breton..... | 5,402,531 | 5,070,017 | 5,380,652 | 4,594,446 | 3,449,472 |
| Cumberland..... | 663,407 | 730,891 | 705,714 | 802,266 | 694,097 |
| Inverness..... | 129,520 | 135,866 | 157,470 | 155,089 | 140,505 |
| Pictou..... | 876,418 | 809,730 | 722,297 | 700,752 | 671,489 |
| Total..... | 7,071,876 | 6,743,504 | 7,056,133 | 6,252,552 | 4,955,563 |

Table 50.—Output of Coal by Principal Collieries in Nova Scotia, 1929-1931
(Average of 500 tons or more per month)

(Short tons)

| Name | Address | 1929 | 1930 | 1931 |
|---|------------------------------|------------------|------------------|------------------|
| CAPE BRETON DISTRICT— | | | | |
| Bras d'Or Coal Co..... | Little Bras d'Or Bridge..... | 117,584 | 118,011 | 97,932 |
| Dominion Coal Co., Ltd..... | Glace Bay..... | 4,446,377 | 3,852,368 | 2,809,039 |
| Indian Cove Coal Co., Ltd..... | Sydney Mines..... | 49,193 | 46,908 | 32,939 |
| Nova Scotia Steel and Coal Co., Ltd..... | Sydney Mines..... | 765,433 | 567,131 | 494,945 |
| North Sydney Collieries Ltd. (formerly Harbor Side Coal Co.)..... | North Sydney..... | 2,065 | 10,028 | 11,175 |
| Sydney Mines Coal Co..... | Sydney Mines..... | | | 2,340 |
| All other operators..... | | | | 1,102 |
| Total..... | | 5,380,652 | 4,594,446 | 3,449,472 |
| CUMBERLAND DISTRICT— | | | | |
| Cumberland Railway and Coal Co., Ltd..... | Springhill..... | 637,387 | 647,093 | 543,788 |
| Maritime Coal, Railway & Power Co., Ltd..... | Joggins Mines..... | 96,593 | 81,372 | 63,898 |
| River Hébert Coal Co..... | River Hébert..... | 4,499 | | |
| Victoria Coal Co., Ltd. (operating No. 2 Mine Minudie Coal Co.)..... | New Glasgow..... | 55,250 | 73,790 | 85,372 |
| All other operators..... | | 1,994 | 41 | 1,069 |
| Total..... | | 795,714 | 802,266 | 694,097 |
| INVERNESS DISTRICT— | | | | |
| Inverness Railway and Coal Co..... | Inverness..... | 157,047 | 154,147 | 138,860 |
| All other operators..... | | 423 | 941 | 1,645 |
| Total..... | | 157,470 | 155,088 | 140,505 |
| PICTOU DISTRICT— | | | | |
| Acadia Coal Co., Ltd..... | Stellarton..... | 496,897 | 506,752 | 500,621 |
| Greenwood Coal Co., Ltd..... | New Glasgow..... | 31,948 | 25,808 | 23,961 |
| Intercolonial Coal Co., Ltd..... | Westville..... | 103,452 | 168,102 | 146,907 |
| Total..... | | 722,297 | 700,752 | 671,489 |
| Total Nova Scotia..... | | 7,056,133 | 6,252,552 | 4,955,563 |

Table 51.—Tonnage Lost in Nova Scotia Coal Mines Showing by Districts the Relative Percentages Produced and Lost, with an Analysis of the Percentage Lost, 1930 and 1931

| District | | Per cent produced | Per cent lost | Percentage lost through | | | | |
|-------------|------|-------------------|---------------|-------------------------|----------------|--------------|-----------------|--------------|
| | | | | Absenteeism | Lack of orders | Car shortage | Mine disability | Other causes |
| Cape Breton | 1930 | 89 | 31 | 1.4 | 23.0 | | 6.6 | |
| | 1931 | 54 | 46 | 0.7 | 43.1 | | 1.2 | 1.0 |
| Cumberland | 1930 | 81 | 19 | 4.5 | 7.7 | | 1.3 | 5.5 |
| | 1931 | 68 | 32 | 2.4 | 23.1 | 0.1 | 0.7 | 5.7 |
| Inverness | 1930 | 85 | 15 | | 14.1 | | | 0.9 |
| | 1931 | 79 | 21 | | 21.0 | | | |
| Pictou | 1930 | 83 | 17 | 3.1 | 13.0 | | 0.3 | 0.6 |
| | 1931 | 76 | 24 | 2.6 | 21.0 | | 0.2 | 0.2 |
| Nova Scotia | 1930 | 72 | 28 | 2.0 | 20.0 | | 5.2 | 0.8 |
| | 1931 | 58 | 42 | 1.1 | 38.3 | 0.1 | 1.0 | 1.5 |

Table 52.—Disposition of Coal from Nova Scotia Mines, 1930 and 1931

(Short tons)

| | 1930 | | 1931 | |
|--|------------------|-------------------|------------------|-------------------|
| | Total | | Total | |
| | Short tons | Value | Short tons | Value |
| Supplied to employees for domestic consumption | 120,846 | 450,180 | 111,614 | 435,890 |
| Coal shipped as per Table 54 | 5,648,034 | 22,093,765 | 4,450,911 | 17,200,848 |
| Used under colliery boilers | 306,179 | 1,116,246 | 263,736 | 878,084 |
| Used by companies' railroads | 47,326 | 197,269 | 41,161 | 167,773 |
| Used in shops, etc. | 103,269 | 350,910 | 84,702 | 282,867 |
| Used by harbour tugs and dredges | | | 201 | 850 |
| Put on bank | 685,242 | 2,633,516 | 609,843 | 2,257,794 |
| Put on waste heap | 14,024 | | 19,809 | |
| Total disposition | 6,921,920 | 26,850,886 | 5,590,977 | 21,221,106 |
| Lifted from bank | 672,368 | 2,322,026 | 635,414 | 2,207,386 |
| Total output | 6,252,552 | 24,528,860 | 4,955,563 | 19,016,720 |

Table 53.—Tonnes Put on Bank and Lifted from Bank in Nova Scotia, 1927-1931

(Short tons)

| Month | 1927 | | 1928 | | 1929 | | 1930 | | 1931 | |
|--------------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| | Put on bank | Lifted from bank |
| On bank at first of year | 145,909 | | 199,710 | | 135,581 | | 159,897 | | 172,771 | |
| January | 54,936 | 7,928 | 123,182 | 4,110 | 111,666 | 4,037 | 144,400 | 7,700 | 107,583 | 9,874 |
| February | 55,388 | 7,081 | 122,871 | 2,190 | 198,507 | 3,013 | 134,530 | 9,310 | 92,927 | 5,677 |
| March | 246,211 | 5,379 | 153,281 | 4,157 | 188,875 | 2,957 | 174,050 | 7,368 | 153,499 | 2,867 |
| April | 186,871 | 5,060 | 104,256 | 1,851 | 187,488 | 2,599 | 69,586 | 6,166 | 117,853 | 5,145 |
| May | 11,798 | 22,594 | 6,004 | 73,440 | 8,141 | 101,314 | 11,538 | 50,985 | 695 | 71,757 |
| June | 3,564 | 118,838 | 1,886 | 80,469 | 10,616 | 173,870 | 13,639 | 103,083 | 2,313 | 94,082 |
| July | 2,568 | 118,021 | 4,978 | 114,502 | 10,188 | 158,076 | 8,474 | 75,642 | 7,794 | 116,586 |
| August | 2,718 | 135,151 | 1,887 | 121,402 | 4,424 | 109,467 | 4,361 | 137,599 | 3,090 | 109,267 |
| September | 7,086 | 129,460 | 3,407 | 126,895 | 10,737 | 122,699 | 4,901 | 120,022 | 7,961 | 83,982 |
| October | 2,935 | 89,572 | 8,846 | 106,256 | 9,435 | 120,688 | 5,088 | 101,525 | 7,111 | 88,785 |
| November | 10,410 | 15,507 | 4,147 | 15,942 | 19,819 | 18,996 | 5,016 | 44,082 | 4,399 | 41,001 |
| December | 127,889 | 2,882 | 65,029 | 3,779 | 95,100 | 12,994 | 109,650 | 8,856 | 104,627 | 6,391 |
| Total | 712,174 | 658,373 | 599,774 | 663,993 | 855,626 | 830,710 | 685,242 | 672,368 | 609,843 | 635,414 |

Table 54.—Shipments of Coal from Nova Scotia Mines by Grades and by Destinations, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | 1931 | | | |
|---------------------------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|
| | Run-of-mine | Screened | Slack | Total | Run-of-mine | Screened | Slack | Total |
| Coal supplied for bunkers..... | 250,311 | 2,361 | | 252,672 | 166,590 | 2,663 | 504 | 169,757 |
| Coal supplied to railroads..... | 519,849 | 480,902 | 152,413 | 1,153,164 | 382,075 | 372,945 | 25,088 | 780,108 |
| Nova Scotia by land..... | 191,422 | 481,208 | 670,602 | 1,343,292 | 226,419 | 360,045 | 389,602 | 976,066 |
| Nova Scotia by sea..... | 22,917 | 91,000 | 67,854 | 181,771 | 15,218 | 84,444 | 51,922 | 151,584 |
| New Brunswick..... | 140,195 | 125,366 | 177,579 | 443,141 | 95,698 | 102,977 | 210,168 | 408,843 |
| Newfoundland..... | 2,080 | 204,120 | 57,637 | 263,837 | 1,889 | 106,700 | | 108,589 |
| Prince Edward Island..... | 3,398 | 52,137 | 2,193 | 57,788 | 3,339 | 69,859 | 3,285 | 76,483 |
| Quebec..... | 53,487 | 904,530 | 875,662 | 1,893,679 | 67,460 | 805,025 | 873,600 | 1,746,085 |
| Ontario..... | | | | | | | 52 | 52 |
| United States..... | 5,097 | 4,585 | 11,304 | 29,986 | 39 | 1,988 | 39,945 | 41,972 |
| St. Pierre..... | | | | | | 372 | | 372 |
| Lost at sea..... | | 4,318 | 3,416 | 7,734 | | | | |
| Total..... | 1,189,727 | 2,449,587 | 2,018,729 | 5,648,034 | 958,727 | 1,907,918 | 1,594,166 | 4,459,911 |

Table 55.—Exports of Canadian Coal through Nova Scotia Ports, 1927-1931

(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| | Halifax..... | 43 | 96 | 160 | 1 |
| Liverpool..... | | | | 9 | 50 |
| Lunenburg..... | | | 5 | | |
| North Sydney..... | 127,151 | 101,026 | 122,435 | 104,473 | 73,644 |
| Pictou..... | | 2,452 | 2,122 | 4,188 | |
| Sydney..... | 402,773 | 240,805 | 226,454 | 241,483 | 78,218 |
| Total..... | 529,967 | 344,379 | 351,176 | 359,154 | 151,912 |

Table 56.—Imports into Nova Scotia of Anthracite and Bituminous Coal by Ports of Entry, 1930 and 1931

(Short tons)

| Port | Source | 1930 | | | | 1931 | | | | | |
|-------------------------|--------------------|----------------|------|---------------|------------------------|----------------|----------------|-----------|---------------|------------------------|------------|
| | | Anthracite | | | Bituminous, all grades | Total coal | Anthracite | | | Bituminous, all grades | Total coal |
| | | Egg, nut, etc. | Dust | Total | | | Egg, nut, etc. | Dust | Total | | |
| Amherst..... | U.S. | | | | | | | | | | |
| Annapolis..... | U.S. | 341 | | 341 | | 341 | | | | | |
| Antigonish..... | U.S. | | | | | | | | | | |
| Arshebat..... | U.S. | | | | | | | | | | |
| Baddeck..... | U.S. | | | | | | | | | | |
| Barrington Passage..... | U.S. | | | | | | | | | | |
| Bridgewater..... | U.S. | 1,533 | | 1,533 | | 1,533 | 1,247 | | 1,247 | 1,247 | |
| Canso..... | U.S. | 554 | | 554 | | 554 | | | | | |
| Digby..... | U.S. | 330 | | 330 | | 330 | 193 | | 193 | 193 | |
| | G.B. | | | | | | | | | | |
| Glace Bay..... | U.S. | | | | | | | | | | |
| Halifax..... | U.S. | 6,528 | | 6,528 | 17,705 | 24,233 | 3,437 | 95 | 3,532 | 5,685 | |
| | G.B. | 29,859 | | 29,859 | 19,109 | 48,968 | 32,003 | | 32,003 | 38,352 | |
| | Russia | 14,340 | | 14,340 | | 14,340 | | | | | |
| | French E.I. | | | | | | 4,592 | | 4,592 | 4,592 | |
| | U.S. | 587 | | 587 | | 587 | | | | | |
| Liverpool..... | U.S. | 1,401 | | 1,401 | 90 | 1,491 | 897 | | 887 | 887 | |
| | G.B. | | | | 448 | 448 | | | | | |
| Lunenburg..... | U.S. | 6,313 | | 6,313 | | 6,313 | 1,464 | | 1,464 | 1,464 | |
| | G.B. | | | | | | 1,395 | | 1,395 | 1,395 | |
| Middleton..... | U.S. | | | | | | | | | | |
| New Glasgow..... | U.S. | | | | | | | | | | |
| North Sydney..... | U.S. | | | | | | | | | | |
| Parrsboro..... | U.S. | | | | | | | | | | |
| Pictou..... | U.S. | | | | | | | | | | |
| Port Hawkesbury..... | U.S. | | | | | | | | | | |
| Port Hood..... | U.S. | | | | | | | | | | |
| Shellburne..... | U.S. | 1 | | 1 | | 1 | | | | | |
| | G.B. | | | | | | | | | | |
| Truro..... | U.S. | | | | | | | | | | |
| Weymouth..... | U.S. | 420 | | 420 | | 420 | 448 | | 448 | 448 | |
| Windsor..... | U.S. | | | | | | | | | | |
| Yarmouth..... | U.S. | 12,078 | | 12,078 | 223 | 12,301 | 7,533 | | 7,533 | 7,533 | |
| | G.B. | | | | | | 1,446 | | 1,446 | 1,446 | |
| Total..... | U.S. | 30,086 | | 30,086 | 18,018 | 48,104 | 15,209 | 95 | 15,301 | 5,085 | |
| | G.B. | 29,859 | | 29,859 | 19,557 | 49,416 | 34,844 | | 34,844 | 38,352 | |
| | Russia | 14,340 | | 14,340 | | 14,340 | | | | | |
| | French E.I. | | | | | | 4,592 | | 4,592 | 4,592 | |
| Grand Total..... | | 74,285 | | 74,285 | 37,575 | 111,860 | 54,645 | 95 | 54,740 | 44,037 | |

Table 57.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Nova Scotia by Months and by Kinds

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Imported from Great Britain | Imported from French East Indies | Coal available for consumption |
|-------------------|------------------|-------------------------------|----------------------------|----------------|----------------------|-----------------------------|----------------------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | | | |
| January— | | | | | | 4,854 | | 4,854 |
| Anthracite..... | | | | | | | | 346,231 |
| Bituminous..... | 439,495 | | 73,556 | 19,708 | | | | |
| Total..... | 439,495 | | 73,556 | 19,708 | | 4,854 | | 351,085 |
| February— | | | | | | 3,187 | | 3,187 |
| Anthracite..... | | | | | | 7,696 | | 339,412 |
| Bituminous..... | 404,036 | | 66,940 | 5,371 | | | | |
| Total..... | 404,036 | | 66,940 | 5,371 | | 10,883 | | 342,599 |
| March— | | | | | | 3,372 | | 3,372 |
| Anthracite..... | | | | | | 2,742 | | 388,856 |
| Bituminous..... | 431,382 | | 41,860 | 3,408 | | | | |
| Total..... | 431,382 | | 41,860 | 3,408 | | 6,114 | | 392,228 |
| April— | | | | | | | | |
| Anthracite..... | | | | | | | | 329,117 |
| Bituminous..... | 444,559 | | 114,081 | 1,361 | | | | |
| Total..... | 444,559 | | 114,081 | 1,361 | | | | 329,117 |
| May— | | | | | | | | |
| Anthracite..... | | | | | 199 | | | 199 |
| Bituminous..... | 469,827 | | 284,943 | 10,442 | 2,175 | 3,112 | | 179,729 |
| Total..... | 469,827 | | 284,943 | 10,442 | 2,374 | 3,112 | | 179,928 |
| June— | | | | | | | | |
| Anthracite..... | | | | | 2,904 | 4,622 | | 7,526 |
| Bituminous..... | 431,992 | | 304,987 | 24,125 | | 2,806 | | 106,586 |
| Total..... | 431,992 | | 304,987 | 24,125 | 2,904 | 7,428 | | 113,112 |
| July— | | | | | | | | |
| Anthracite..... | | | | | 2,202 | 2,912 | | 5,114 |
| Bituminous..... | 396,284 | | 271,564 | 19,752 | | 3,022 | | 107,990 |
| Total..... | 396,284 | | 271,564 | 19,752 | 2,202 | 5,934 | | 113,104 |
| August— | | | | | | | | |
| Anthracite..... | | | | | 2,473 | 2,247 | | 4,720 |
| Bituminous..... | 335,857 | | 257,497 | 14,985 | | 1,996 | | 65,371 |
| Total..... | 335,857 | | 257,497 | 14,985 | 2,473 | 4,243 | | 70,091 |
| September— | | | | | | | | |
| Anthracite..... | | | | | 1,467 | 3,194 | | 4,661 |
| Bituminous..... | 396,510 | | 260,506 | 11,321 | | 2,755 | | 127,438 |
| Total..... | 396,510 | | 260,506 | 11,321 | 1,467 | 5,949 | | 132,099 |
| October— | | | | | | | | |
| Anthracite..... | | | | | 1,676 | 4,152 | | 5,828 |
| Bituminous..... | 460,782 | | 293,348 | 15,275 | 3,510 | 7,255 | | 162,004 |
| Total..... | 460,782 | | 293,348 | 15,275 | 5,186 | 11,387 | | 168,732 |
| November— | | | | | | | | |
| Anthracite..... | | | | | 4,383 | | 4,592 | 8,975 |
| Bituminous..... | 366,504 | | 191,078 | 7,258 | | | | 168,138 |
| Total..... | 366,504 | | 191,078 | 7,258 | 4,383 | | 4,592 | 177,143 |
| December— | | | | | | | | |
| Anthracite..... | | | | | | 6,304 | | 6,304 |
| Bituminous..... | 378,435 | | 71,094 | 18,906 | | 6,988 | | 295,423 |
| Total..... | 378,435 | | 71,094 | 18,906 | | 13,292 | | 301,727 |
| Total— | | | | | | | | |
| Anthracite..... | | | | | 15,394 | 34,844 | 4,592 | 54,740 |
| Bituminous..... | 4,953,563 | | 2,231,463 | 151,912 | 5,685 | 38,352 | | 2,616,235 |
| Total..... | 4,953,563 | | 2,231,463 | 151,912 | 20,989 | 73,196 | 4,592 | 2,670,965 |

Table 58.—Employees, Salaries and Wages in the Coal Mines of Nova Scotia by Districts, 1930 and 1931

| District | Average number of employees | | | | | Salaries and wages | | |
|-------------------------|-----------------------------|-----------|--------------|---------------|---------------|--------------------|-------------------|-------------------|
| | Salaried employees | | Wage-earners | | Total | Salaries | Wages | Total |
| | Male | Female | Surface * | Under-ground | | | | |
| | | | | | | \$ | \$ | \$ |
| 1930 | | | | | | | | |
| Cape Breton..... | 340 | 50 | 1,348 | 7,784 | 9,522 | 726,046 | 12,155,467 | 12,881,513 |
| Cumberland..... | 53 | 8 | 378 | 1,471 | 1,910 | 107,524 | 2,200,444 | 2,307,968 |
| Inverness..... | 11 | 3 | 126 | 376 | 516 | 24,934 | 535,212 | 560,146 |
| Pictou..... | 66 | 6 | 439 | 1,454 | 1,965 | 147,475 | 2,235,290 | 2,382,774 |
| Nova Scotia..... | 470 | 67 | 2,291 | 11,095 | 13,383 | 1,005,979 | 17,126,422 | 18,132,401 |
| 1931 | | | | | | | | |
| Cape Breton..... | 321 | 45 | 1,328 | 7,797 | 9,491 | 712,356 | 9,141,045 | 9,853,401 |
| Cumberland..... | 51 | 7 | 376 | 1,382 | 1,816 | 115,164 | 1,714,017 | 1,829,181 |
| Inverness..... | 11 | 3 | 133 | 408 | 555 | 25,023 | 525,826 | 550,849 |
| Pictou..... | 64 | 6 | 441 | 1,523 | 2,034 | 151,998 | 2,033,654 | 2,185,652 |
| Nova Scotia..... | 447 | 61 | 2,278 | 11,110 | 13,896 | 1,004,541 | 13,414,542 | 14,419,083 |

Table 59.—Employment and Earnings in the Coal Mines of Nova Scotia, 1927-1931

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| Average number of wage-earners— | | | | | |
| Surface..... | 2,321 | 2,340 | 2,235 | 2,291 | 2,278 |
| Underground..... | 10,996 | 10,993 | 10,525 | 11,085 | 11,110 |
| Total..... | 13,317 | 13,333 | 12,760 | 13,376 | 13,388 |
| Days' work done— | | | | | |
| Surface..... | 627,536 | 625,704 | 642,106 | 596,242 | 508,008 |
| Underground..... | 2,034,594 | 2,611,523 | 2,760,856 | 2,452,050 | 1,935,083 |
| Total..... | 3,262,130 | 3,237,227 | 3,402,962 | 3,048,292 | 2,443,181 |
| Average number of days worked per man per year— | | | | | |
| Surface..... | 270 | 267 | 287 | 260 | 223 |
| Underground..... | 239 | 238 | 262 | 221 | 174 |
| By all wage-earners..... | 245 | 243 | 266 | 227 | 182 |
| Total wages paid..... | \$ 15,676,318 | \$ 18,885,377 | \$ 18,785,513 | \$ 17,126,422 | \$ 13,414,542 |
| Average wage earned per man per day..... | \$ 4.81 | \$ 5.83 | \$ 5.52 | \$ 5.62 | \$ 5.49 |

Table 60.—Wage-Earners and Work Done by Months in the Nova Scotia Coal Mines in 1931

| Month | Number of wage-earners | | | Days' work done | | |
|-------------------|------------------------|--------------|--------|-----------------|------------------|------------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| January..... | 2,300 | 11,255 | 13,555 | 45,154 | 178,258 | 223,412 |
| February..... | 2,261 | 10,888 | 13,149 | 42,934 | 161,255 | 204,189 |
| March..... | 2,269 | 11,007 | 13,276 | 43,238 | 166,955 | 210,193 |
| April..... | 2,276 | 11,186 | 13,462 | 44,277 | 173,131 | 217,408 |
| May..... | 2,289 | 11,160 | 13,449 | 43,270 | 170,914 | 214,184 |
| June..... | 2,286 | 11,321 | 13,607 | 41,076 | 163,672 | 204,748 |
| July..... | 2,295 | 11,223 | 13,518 | 40,881 | 154,856 | 195,737 |
| August..... | 2,255 | 11,003 | 13,258 | 37,465 | 135,999 | 173,464 |
| September..... | 2,254 | 10,951 | 13,205 | 40,455 | 154,118 | 194,573 |
| October..... | 2,279 | 11,142 | 13,421 | 45,421 | 176,615 | 222,036 |
| November..... | 2,303 | 11,142 | 13,445 | 40,381 | 146,990 | 187,371 |
| December..... | 2,267 | 11,039 | 13,306 | 42,946 | 152,320 | 195,266 |
| Total..... | | | | 508,098 | 1,935,083 | 2,443,181 |

Table 61.—Number of Man-Days Worked, by Districts, in Nova Scotia, 1930 and 1931

| District | 1930 | | | 1931 | | |
|-------------------|----------------|------------------|------------------|----------------|------------------|------------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| Cape Breton..... | 331,063 | 1,619,240 | 1,950,303 | 270,115 | 1,225,458 | 1,495,573 |
| Cumberland..... | 102,296 | 368,952 | 471,248 | 87,510 | 282,031 | 369,541 |
| Inverness..... | 35,479 | 93,090 | 128,569 | 35,971 | 93,853 | 129,824 |
| Pictou..... | 127,404 | 370,768 | 498,172 | 114,502 | 333,741 | 448,243 |
| Total..... | 596,242 | 2,452,050 | 3,048,292 | 508,095 | 1,935,083 | 2,443,181 |

Table 62.—Wage-Earners Employed in Nova Scotia Coal Mines, by Classes, 1930 and 1931

| Classification | 1930 | | | 1931 | | |
|-----------------------------------|--------------|---------------|---------------|--------------|---------------|---------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| Administration..... | 60 | 16 | 76 | 60 | 15 | 75 |
| Foremen and clerks..... | 151 | 3 | 154 | 144 | ..... | 144 |
| Screenmen and loaders..... | 686 | ..... | 686 | 709 | ..... | 709 |
| Officials..... | ..... | 530 | 530 | ..... | 550 | 550 |
| Handcutters and helpers..... | 1,387 | 1,367 | 1,367 | ..... | 1,156 | 1,156 |
| Machine cutters..... | 1,597 | 1,597 | 1,597 | ..... | 1,317 | 1,317 |
| Machine loaders and helpers..... | 1,454 | 1,454 | 1,454 | ..... | 1,998 | 1,998 |
| Horse haulage employees..... | 4 | 679 | 683 | 2 | 630 | 632 |
| Mechanical haulage employees..... | 20 | 1,647 | 1,667 | 19 | 1,667 | 1,686 |
| Ventilation employees..... | 1 | 279 | 280 | ..... | 268 | 268 |
| Road-makers..... | ..... | 288 | 288 | ..... | 290 | 290 |
| Timbermen..... | ..... | 995 | 995 | ..... | 1,074 | 1,074 |
| Pumpmen..... | 3 | 113 | 116 | 1 | 113 | 114 |
| Engineers..... | 179 | 10 | 189 | 177 | 12 | 189 |
| Firemen..... | 138 | ..... | 138 | 137 | ..... | 137 |
| Maclinists..... | 200 | ..... | 200 | 204 | 1 | 205 |
| Carpenters and masons..... | 119 | ..... | 119 | 119 | ..... | 119 |
| Other mechanics..... | 74 | 222 | 296 | 94 | 219 | 313 |
| All other employees..... | 656 | 1,885 | 2,541 | 612 | 1,800 | 2,412 |
| Total..... | 2,291 | 11,085 | 13,376 | 2,278 | 11,110 | 13,388 |

Table 63.—Capital Employed in the Coal Mines of Nova Scotia, 1930 and 1931

| | 1930 | 1931 |
|--|-------------------|-------------------|
| | \$ | \$ |
| Capital employed as represented by— | | |
| Cost of lands, buildings, machinery and tools..... | 46,449,139 | 47,499,461 |
| Cost of supplies and stock on hand..... | 3,727,540 | 2,493,702 |
| Cash, trading and operating accounts and bills receivable..... | 5,906,656 | 5,772,916 |
| Total..... | 56,083,335 | 55,766,079 |

The following tables relating to the timber, rails and steel booms used in the Nova Scotia coal mines have been abstracted from the annual report of the Minister of Public Works and Mines of Nova Scotia.

Table 64.—Rails used in Nova Scotia Mines during year ended September 30, 1931

| | Number of feet of each size rail | | | | | | | | | | Total Tons |
|-------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|--------------|
| | 12 lb. per yd. | 14 lb. per yd. | 16 lb. per yd. | 18 lb. per yd. | 20 lb. per yd. | 30 lb. per yd. | 40 lb. per yd. | 47-50 lb. per yd. | 56 lb. per yd. | 60 lb. per yd. | |
| Cape Breton..... | | 5,280 | 2,400 | | 55,391 | 29,666 | | | 5,004 | 22,752 | 618.7 |
| Cumberland..... | 6,600 | | 200 | 5,800 | 600 | 14,086 | 1,020 | | 1,620 | 120 | 130.1 |
| Inverness..... | | | 20,176 | | | | | | | | 63.8 |
| Pictou..... | 3,870 | | | | 14,900 | 10,550 | | | | | 109.2 |
| Total..... | 10,470 | 5,280 | 22,776 | 5,800 | 79,891 | 51,902 | 1,020 | | 6,624 | 22,872 | 921.8 |

Table 65.—Timber used in the Coal Mines of Nova Scotia during the years ended September 30, 1930 and 1931

| District | 1930 | | 1931 | | | | | Total |
|--|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------------|-------------------|
| | Total | Props | Booms | Sleepers | Caps | Chocks and Butts | Special Longwall Packs | |
| | Lin. ft. | Lin. ft. | Lin. ft. | Lin. ft. | Lin. ft. | Lin. ft. | Lin. ft. | |
| Cape Breton..... | 14,114,836 | 7,779,239 | 1,590,965 | 909,967 | 1,049,162 | 145,798 | 352,623 | 11,827,754 |
| Inverness..... | 1,097,761 | 760,826 | 243,388 | 57,165 | | | | 1,061,379 |
| Colchester..... | | 2,100 | 1,500 | 1,200 | 400 | | | 5,200 |
| Pictou..... | 7,163,486 | 5,353,351 | 1,721,544 | 23,376 | | 24,948 | 3,168 | 7,126,387 |
| Cumberland..... | 6,147,887 | 1,324,774 | 447,276 | 144,716 | 82,049 | 5,305,194 | | 7,304,009 |
| Total..... | 28,513,970 | 15,220,290 | 4,004,673 | 1,136,424 | 1,131,611 | 5,475,940 | 355,791 | 27,324,729 |
| Lin. ft. used per ton of coal raised.. | 4.9 | | | | | | | 5.75 |

Table 66.—Steel Booms used in the Coal Mines of Nova Scotia during the years ended September 30, 1930 and 1931

(Lineal feet)

| District | Steel Booms, 60 lb. | Steel Booms, 65 lb. | Steel Booms, 80 lb. | Steel Booms, 85 lb. | Steel Booms, 100 lb. |
|----------------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Cape Breton..... | 208,461 | | 73,163 | 29,108 | 28,213 |
| Inverness..... | | | 73 | 65,082 | |
| Pictou..... | 7,953 | | 18,687 | | |
| Cumberland..... | | | | | |
| Total for 1931..... | 216,414 | | 91,923 | 94,190 | 28,213 |
| Total for 1930..... | 96,183 | | 107,682 | 92,975 | 18,386 |

CHAPTER FOUR

NEW BRUNSWICK

Coal output from New Brunswick mines in 1931 totalled 182,181 tons, a decline of 13 per cent from the production of 209,349 tons in the preceding year. The mines active during the year produced only 63 per cent of their possible output; the time lost was due principally to lack of orders.

Railroads provide the principal market for New Brunswick coal; in 1931 coal sold for railway use accounted for 66.6 per cent of the total mine shipments. Domestic and industrial users within the province consumed 33.3 per cent of the tonnage shipped from the mines in 1931. Minor shipments were made to Quebec and the United States during the year.

The 608 wage-earners employed in the operation of New Brunswick mines in 1931 were furnished with 119,380 man-days work as compared with the 1930 total of 134,720 man-days. This decline in employment becomes more apparent when it is realized that each worker on the average received only 196 days work in 1931 as against an average of 230 days in 1930.

The coal mining situation in this province during the year ending October 31, 1931 is summed up in the annual report of the New Brunswick Inspector of Mines, as follows:—

“The lack of demand for industrial fuel lessened the production of the larger operators while the lessened opportunities for labor started several small independent operations. Unfortunately, this last condition has some effect on prices which is not to the advantage of the larger operations.

The power plant of the New Brunswick Power Commission at Newcastle wharf on Grand Lake came into operation during the month of September, but too late in the fiscal year to materially affect the quantity of coal supplied by the district. During the year 1932 with this plant in full operation some 20,000 tons of coal will be required and since indications point to the extended demand for electric current this would have the effect of greatly increasing the use of Minto coal for this purpose. This will absorb all the slack or screenings produced in the district and permit operators to produce larger quantities of screened coal for the general market.

The Minto Coal Company whose original operation was in South Minto and who in the year 1921 transferred their offices and miners' cottages to a new operation in North Minto again find it necessary on account of the nearing depletion of their present area to start a new operation about a mile to the westward from their present workings.

A new departure in methods among the larger operations in the district is here being introduced. The working entrance to the new mine will be by means of a 15° slope, 10 feet wide and 6 feet high, carrying a single hauling track and a 3-foot man-way. This will do away altogether with the vertical hoist commonly used and will be a move towards greater efficiency and safety in operation. Natural drainage will be obtained through the old workings. A careful prospecting of the new field indicates a coal area which should be good for several years, carrying the usual major and minor seams separated by a few inches of “coal rock.” The thickness of the seams compares favourably with the present workings. It is expected that the slope will be finished about the end of March in the year 1932, and that operations in this new locality will be in full effect in about a year from that time.

The Minto Company still continues an operation near their former workings at South Minto to the south of the New Zion Road which at present is yielding about a car of coal per day.

During the past year an important development of a new coal area has been carried out by the Miramichi Lumber Company under direction of Mr. A. D. Taylor. The tract is to the eastward of the Hardwood Ridge Road and about a mile and a half south of Hardwood Ridge Station on the Canadian National Railway. A slope for development purposes was started last year, ending at a vertical shaft sunk during the present year. This shaft is about three-quarters of a mile east of the Minto Company's spur from Hardwood Ridge and provision is being made for a connection between the spur and the new mine.

Some further development work was carried out by this company during the year 1931 on a new area about five miles west of Minto known as Wild Cat Brook and immediately north of the Canadian Pacific Railway line to Fredericton. At this place after some hand drilling had been done a slope following the dip of the coal, running as much as one in four, was carried down. A working face had not yet been obtained at time of writing in January, 1932."

Table 67.—Output of Coal from New Brunswick Mines, 1887-1931

(Short tons)

| Calendar year | Output | Value | Calendar year | Output | Value | Calendar year | Output | Value |
|---------------|--------|--------|---------------|---------|-----------|-------------------|------------------|-------------------|
| | | \$ | | | \$ | | | \$ |
| 1887..... | 10,040 | 23,607 | 1903..... | 16,000 | 40,000 | *1910..... | 168,377 | 735,386 |
| 1888..... | 5,730 | 11,050 | 1904..... | 9,112 | 18,224 | *1920..... | 171,610 | 1,091,440 |
| 1889..... | 5,673 | 11,733 | 1905..... | 20,400 | 58,800 | *1921..... | 187,192 | 920,666 |
| 1890..... | 7,110 | 13,850 | 1906..... | 34,076 | 68,152 | *1922..... | 287,513 | 1,107,643 |
| 1891..... | 5,422 | 11,030 | 1907..... | 34,584 | 77,814 | *1923..... | 276,617 | 1,196,772 |
| 1892..... | 6,768 | 9,375 | 1908..... | 60,000 | 135,000 | *1924..... | 217,121 | 932,185 |
| 1893..... | 6,200 | 9,837 | 1909..... | 49,029 | 98,496 | *1925..... | 208,012 | 815,367 |
| 1894..... | 6,469 | 10,264 | 1910..... | 55,455 | 110,910 | *1926..... | 173,111 | 710,245 |
| 1895..... | 9,500 | 14,250 | 1911..... | 55,781 | 111,562 | *1927..... | 203,950 | 885,038 |
| 1896..... | 7,500 | 11,250 | 1912..... | 44,780 | 89,560 | *1928..... | 207,738 | 869,104 |
| 1897..... | 6,000 | 9,000 | 1913..... | 70,311 | 166,637 | *1929..... | 218,706 | 909,169 |
| 1898..... | 6,160 | 9,240 | 1914..... | 98,049 | 241,075 | *1930..... | 209,349 | 864,118 |
| 1899..... | 10,528 | 15,792 | 1915..... | 127,391 | 309,612 | *1931..... | 182,181 | 743,106 |
| 1900..... | 10,000 | 15,000 | 1916..... | 143,540 | 386,016 | | | |
| 1901..... | 17,630 | 51,857 | 1917..... | 189,095 | 708,010 | Total..... | 4,133,817 | 15,998,722 |
| 1902..... | 18,795 | 39,680 | 1918..... | 268,212 | 1,331,710 | | | |

* For the years 1910-1931 the tonnage shown is the total output from all mines; for previous years the figures given include only sales, colliery consumption and coal used by operators.

Table 68.—Output of Coal from New Brunswick Mines by Months, 1927-1931

(Short tons)

| Month | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| January..... | 18,596 | 18,840 | 22,130 | 24,964 | 21,122 |
| February..... | 20,211 | 18,949 | 23,096 | 20,083 | 21,223 |
| March..... | 22,300 | 20,798 | 20,891 | 18,625 | 16,030 |
| April..... | 18,645 | 13,620 | 19,682 | 18,254 | 14,177 |
| May..... | 15,662 | 14,591 | 16,606 | 13,935 | 11,643 |
| June..... | 15,094 | 17,157 | 14,327 | 15,470 | 10,920 |
| July..... | 14,134 | 14,962 | 14,717 | 14,923 | 13,426 |
| August..... | 14,401 | 15,972 | 16,979 | 15,747 | 12,245 |
| September..... | 15,252 | 15,531 | 16,815 | 14,265 | 12,300 |
| October..... | 15,539 | 19,499 | 16,883 | 17,152 | 14,629 |
| November..... | 17,185 | 19,314 | 17,417 | 15,921 | 14,339 |
| December..... | 16,931 | 18,405 | 19,154 | 20,010 | 20,028 |
| Total..... | 203,950 | 207,738 | 218,706 | 209,319 | 182,181 |

Table 69.—Tonnage Lost in New Brunswick Coal Mines, Showing the Relative Percentage Produced and Lost, with an Analysis of the Percentage Lost, 1930 and 1931

| Year | Per cent produced | Per cent lost | Percentage lost through | | | | |
|-----------|-------------------|---------------|-------------------------|----------------|--------------|-----------------|--------------|
| | | | Absenteeism | Lack of orders | Car shortage | Mine disability | Other causes |
| 1930..... | 74 | 26 | 1.2 | 23.0 | 0.0 | 0.1 | 1.7 |
| 1931..... | 63 | 37 | 1.5 | 34.6 | 0.0 | 0.3 | 0.6 |

Table 70.—Disposition of Coal from New Brunswick Mines by Grades, 1930 and 1931

(Short tons)

| | 1930 | | | | | 1931 | | | | |
|---|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|
| | Run-of-mine | Screened | Slack | Total | | Run-of-mine | Screened | Slack | Total | |
| | | | | Quantity | Value | | | | Quantity | Value |
| | | | | | \$ | | | | | \$ |
| Supplied to employees for domestic consumption..... | 2,852 | 148 | 36 | 3,036 | 11,886 | 2,554 | 19 | 16 | 2,589 | 10,167 |
| Shipped as per Table 71..... | 77,053 | 96,582 | 26,114 | 199,749 | 825,679 | 73,238 | 79,665 | 20,191 | 173,094 | 706,677 |
| Used under colliery boilers, etc..... | 4,756 | ..... | 606 | 5,362 | 21,341 | 4,707 | ..... | 521 | 5,228 | 20,947 |
| Used by companies' railroads..... | 900 | ..... | ..... | 900 | 4,056 | 900 | ..... | ..... | 900 | 4,050 |
| Put on bank..... | 3,845 | 961 | 4,925 | 9,731 | 34,383 | 3,083 | 958 | 4,608 | 8,649 | 32,174 |
| Put on waste heap..... | ..... | ..... | ..... | 53 | ..... | ..... | ..... | ..... | 56 | ..... |
| Total disposition..... | 89,406 | 97,691 | 31,681 | 218,831 | 896,745 | 84,482 | 90,642 | 25,336 | 190,516 | 773,961 |
| Lifted from bank..... | 3,193 | 1,083 | 5,206 | 9,482 | 32,627 | 2,538 | 1,230 | 4,567 | 8,335 | 30,765 |
| Total output..... | 86,213 | 96,608 | 26,475 | 209,349 | 864,118 | 81,944 | 79,412 | 20,769 | 182,181 | 743,196 |

Table 71.—Shipments of Coal from New Brunswick Mines by Grades and Destination 1930 and 1931

(Short tons)

| Destination | 1930 | | | | 1931 | | | |
|---------------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|
| | Run-of-mine | Screened | Slack | Total | Run-of-mine | Screened | Slack | Total |
| New Brunswick..... | 27,178 | 15,701 | 18,358 | 61,037 | 32,161 | 11,679 | 13,778 | 57,618 |
| Prince Edward Island..... | ..... | 116 | ..... | 116 | ..... | ..... | ..... | ..... |
| Quebec..... | 147 | 149 | 87 | 383 | 98 | ..... | ..... | 98 |
| United States..... | ..... | ..... | ..... | ..... | 33 | ..... | ..... | 33 |
| Railroads..... | 49,728 | 80,616 | 7,869 | 138,213 | 40,946 | 67,986 | 6,413 | 115,345 |
| Total..... | 77,653 | 96,582 | 26,114 | 199,749 | 73,238 | 79,665 | 20,191 | 173,094 |

Table 72.—Output of Coal by Principal Collieries in New Brunswick 1929-1931.
(Average output of 500 tons or more per month)

(Short tons)

| Name | Address | 1929 | 1930 | 1931 |
|--|------------------|----------------|----------------|----------------|
| Avon Coal Co., Ltd..... | St. John..... | 51,503 | 40,544 | 27,443 |
| Colter, A. A. (formerly Chipman Coal Co.)..... | Fredericton..... | 7,338 | 2,830 | 1,624 |
| Evans, W. B..... | Minto..... | 20,457 | 19,232 | 18,427 |
| Minto Coal Co., Ltd..... | St. John..... | 77,716 | 75,359 | 62,315 |
| Miramichi Lumber Co., Ltd..... | Minto..... | 22,545 | 27,847 | 24,293 |
| Welton, Harvey..... | Minto..... | 17,578 | 16,602 | 14,254 |
| Welton & Henderson Ltd..... | Minto..... | 16,683 | 22,925 | 27,315 |
| All other operators..... | ..... | 4,886 | 4,010 | 6,510 |
| Total..... | ..... | 219,706 | 209,349 | 182,181 |

Table 73.—Exports of Canadian Coal through New Brunswick Ports, 1927-1931

(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|----------------------|---------------|---------------|---------------|---------------|---------------|
| McAdam Junction..... | 187 | 1 | | | |
| St. Andrews..... | | | | | |
| St. John..... | 49,070 | 21,196 | 14,789 | 5,140 | 4,705 |
| St. Stephen..... | | | | | |
| Woodstock..... | 6,091 | 4,543 | 5,820 | 19,575 | 50,281 |
| Total..... | 55,354 | 25,740 | 20,609 | 24,724 | 54,986 |

Table 74.—Imports into New Brunswick of Anthracite and Bituminous Coal, by Sources and by Ports of Entry, 1930 and 1931

| Port | Source | 1930 | | | | | 1931 | | | | |
|-------------------------|--------------------|----------------|--------------|----------------|-----------------------|----------------|----------------|------------|---------------|-----------------------|----------------|
| | | Anthracite | | | Bituminous all grades | Total | Anthracite | | | Bituminous all grades | Total |
| | | Egg. nut, etc. | Dust | Total | | | Egg. nut, etc. | Dust | Total | | |
| Bathurst..... | U.S..... | 34 | | 34 | 60 | 94 | | | | 64 | 64 |
| Campbellton..... | U.S..... | 53 | | 53 | 34 | 87 | | | | 34 | 34 |
| | G.B..... | 1,405 | | 1,405 | | 1,405 | 933 | | 933 | | 933 |
| Charlton..... | U.S..... | | | | 5,702 | 5,702 | | | | 24 | 24 |
| Fredericton..... | U.S..... | 427 | | 427 | 112 | 539 | 159 | | 150 | 41 | 200 |
| McAdam Junction..... | U.S..... | 207 | | 207 | 28,425 | 28,632 | 119 | | 119 | | 119 |
| St. Andrews..... | U.S..... | 354 | 101 | 455 | 37 | 492 | 213 | | 213 | 8 | 221 |
| St. John..... | U.S..... | 23,734 | 1,268 | 25,002 | 34,849 | 59,851 | 36,420 | 772 | 37,192 | 25,676 | 62,868 |
| | G.B..... | 57,783 | | 57,783 | 35 | 57,818 | 44,397 | | 44,397 | 6,162 | 50,559 |
| | Russia..... | 24,880 | | 24,880 | | 24,880 | | | | | |
| St. Stephen..... | U.S..... | 1,931 | 129 | 2,060 | 2,733 | 4,793 | 1,733 | 4 | 1,737 | 5,079 | 6,816 |
| | G.B..... | 1,656 | | 1,656 | | 1,656 | 268 | | 268 | | 268 |
| Woodstock..... | U.S..... | 87 | | 87 | 257 | 344 | | | | 142 | 142 |
| Total..... | U.S..... | 26,827 | 1,498 | 28,325 | 72,299 | 100,624 | 38,644 | 776 | 39,420 | 31,068 | 70,488 |
| | G.B..... | 60,844 | | 60,844 | 35 | 60,879 | 45,598 | | 45,598 | 6,162 | 51,760 |
| | Russia..... | 24,880 | | 24,880 | | 24,880 | | | | | |
| Grand total..... | | 112,551 | 1,498 | 114,049 | 72,334 | 186,383 | 84,242 | 776 | 85,018 | 37,230 | 123,249 |

Table 75.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in New Brunswick by Months and by Kinds

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Imported from Great Britain | Coal available for consumption |
|-------------------|----------------|-------------------------------|----------------------------|---------------|----------------------|-----------------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | | |
| January— | | | | | | | |
| Anthracite..... | | | | | 5,978 | 845 | 6,823 |
| Bituminous..... | 21,122 | 49,419 | | 1,995 | 7,881 | 22 | 76,449 |
| Total..... | 21,122 | 49,419 | | 1,995 | 13,859 | 867 | 83,272 |
| February— | | | | | | | |
| Anthracite..... | | | | | 4,750 | 665 | 5,415 |
| Bituminous..... | 21,223 | 45,013 | | 932 | 4,191 | | 69,495 |
| Total..... | 21,223 | 45,013 | | 932 | 8,941 | 665 | 74,910 |
| March— | | | | | | | |
| Anthracite..... | | | | | 1,129 | 9,014 | 10,143 |
| Bituminous..... | 16,030 | 21,207 | | 13,402 | 2,295 | 23 | 26,153 |
| Total..... | 16,030 | 21,207 | | 13,402 | 3,424 | 9,037 | 36,296 |
| April— | | | | | | | |
| Anthracite..... | | | | | 54 | 2,911 | 2,965 |
| Bituminous..... | 14,177 | 36,273 | | 4,639 | 3,476 | 25 | 49,312 |
| Total..... | 14,177 | 36,273 | | 4,639 | 3,530 | 2,936 | 52,277 |
| May— | | | | | | | |
| Anthracite..... | | | | | 8,145 | 1,650 | 9,795 |
| Bituminous..... | 11,643 | 26,611 | | 5,567 | 4,796 | | 37,483 |
| Total..... | 11,643 | 26,611 | | 5,567 | 12,941 | 1,650 | 47,278 |
| June— | | | | | | | |
| Anthracite..... | | | | | 25 | 6,161 | 6,186 |
| Bituminous..... | 10,920 | 30,871 | | 2,606 | 81 | | 39,266 |
| Total..... | 10,920 | 30,871 | | 2,606 | 106 | 6,161 | 45,452 |
| July— | | | | | | | |
| Anthracite..... | | | | | 3,437 | 2,853 | 6,290 |
| Bituminous..... | 13,426 | 23,249 | | 7,742 | 2,662 | | 31,595 |
| Total..... | 13,426 | 23,249 | | 7,742 | 6,099 | 2,853 | 37,885 |
| August— | | | | | | | |
| Anthracite..... | | | | | 2,295 | 2,281 | 4,576 |
| Bituminous..... | 12,245 | 27,104 | | 6,195 | 471 | 1,680 | 35,305 |
| Total..... | 12,245 | 27,104 | | 6,195 | 2,766 | 3,961 | 39,881 |
| September— | | | | | | | |
| Anthracite..... | | | | | 2,368 | 2,167 | 4,535 |
| Bituminous..... | 12,399 | 37,774 | | 756 | 399 | 4,356 | 54,172 |
| Total..... | 12,399 | 37,774 | | 756 | 2,767 | 6,523 | 58,707 |
| October— | | | | | | | |
| Anthracite..... | | | | | 6,358 | 3,775 | 10,133 |
| Bituminous..... | 14,629 | 31,600 | | 4,258 | 3,109 | | 45,080 |
| Total..... | 14,629 | 31,600 | | 4,258 | 9,467 | 3,775 | 55,213 |
| November— | | | | | | | |
| Anthracite..... | | | | | 2,134 | 8,369 | 10,503 |
| Bituminous..... | 14,339 | 29,331 | | 3,341 | 1,256 | | 41,585 |
| Total..... | 14,339 | 29,331 | | 3,341 | 3,390 | 8,369 | 52,088 |
| December— | | | | | | | |
| Anthracite..... | | | | | 2,747 | 4,907 | 7,654 |
| Bituminous..... | 20,028 | 50,391 | 98 | 3,553 | 451 | 56 | 67,275 |
| Total..... | 20,028 | 50,391 | 98 | 3,553 | 3,198 | 4,963 | 74,929 |
| Total— | | | | | | | |
| Anthracite..... | | | | | 39,420 | 45,598 | 85,018 |
| Bituminous..... | 182,181 | 408,843 | 98 | 54,986 | 31,068 | 6,162 | 573,170 |
| Total..... | 182,181 | 408,843 | 98 | 54,986 | 70,488 | 51,760 | 658,188 |

Table 76.—Employees, Salaries and Wages in the Coal Mines of New Brunswick, 1930 and 1931

| | 1930 | 1931 |
|-------------------------------|-------------------|-------------------|
| Number of salaried employees— | | |
| Male..... | 23 | 20 |
| Female..... | 6 | 4 |
| Number of wage-earners— | | |
| Surface..... | 125 | 148 |
| Underground..... | 459 | 460 |
| Total..... | 613 | 632 |
| Salaries and wages— | | |
| Salaries..... | \$ 56,487 | \$ 52,890 |
| Wages..... | \$ 514,119 | \$ 451,686 |
| Total..... | \$ 570,606 | \$ 504,576 |

Table 77.—Employment and Earnings in the Coal Mines of New Brunswick, 1927-1931

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Average number of employees— | | | | | |
| Surface..... | 128 | 126 | 126 | 125 | 148 |
| Underground..... | 430 | 459 | 452 | 459 | 460 |
| Total..... | 558 | 585 | 578 | 584 | 608 |
| Days' work done— | | | | | |
| Surface..... | 36,273 | 35,363 | 31,350 | 29,735 | 28,996 |
| Underground..... | 123,047 | 120,438 | 110,252 | 104,985 | 90,384 |
| Total..... | 159,320 | 155,801 | 141,601 | 134,720 | 119,380 |
| Average number of days worked per man per year— | | | | | |
| Surface..... | 283 | 281 | 248 | 238 | 196 |
| Underground..... | 286 | 262 | 243 | 229 | 196 |
| By all wage-earners..... | 285 | 266 | 245 | 239 | 196 |
| Total wages paid..... | \$ 570,643 | \$ 533,447 | \$ 542,469 | \$ 514,119 | \$ 451,686 |
| Average wage earned per man per day..... | \$ 3.58 | \$ 3.55 | \$ 3.83 | \$ 3.82 | \$ 3.78 |

Table 78.—Wage-Earners and Work Done by Months in the Coal Mines of New Brunswick, 1931

| Month | Number of wage-earners | | | Days' work done | | |
|-------------------|------------------------|--------------|-------|-----------------|---------------|----------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| January..... | 143 | 516 | 659 | 3,135 | 11,325 | 14,460 |
| February..... | 147 | 525 | 672 | 2,998 | 10,918 | 13,916 |
| March..... | 144 | 478 | 622 | 2,544 | 8,180 | 10,724 |
| April..... | 152 | 445 | 597 | 2,072 | 6,514 | 8,586 |
| May..... | 137 | 413 | 559 | 1,858 | 5,206 | 7,064 |
| June..... | 134 | 402 | 536 | 1,859 | 5,052 | 6,911 |
| July..... | 152 | 413 | 565 | 2,404 | 6,318 | 8,722 |
| August..... | 165 | 404 | 569 | 2,273 | 5,617 | 7,899 |
| September..... | 162 | 427 | 589 | 2,281 | 5,930 | 8,211 |
| October..... | 137 | 457 | 594 | 2,346 | 6,830 | 9,176 |
| November..... | 155 | 481 | 636 | 2,243 | 7,045 | 9,288 |
| December..... | 149 | 562 | 711 | 2,983 | 11,449 | 14,432 |
| Total..... | | | | 28,996 | 90,384 | 119,380 |

Table 79.—Wage-Earners Employed in the Coal Mines of New Brunswick by Classes, 1930 and 1931

| Classification | 1930 | | | 1931 | | |
|-----------------------------------|------------|--------------|------------|------------|--------------|------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| Administration..... | 13 | | 13 | 15 | | 15 |
| Foremen and clerks..... | 9 | 7 | 16 | 10 | 6 | 16 |
| Screenmen and loaders..... | 32 | | 32 | 37 | | 37 |
| Officials..... | 1 | 3 | 4 | 1 | 4 | 5 |
| Hand cutters and helpers..... | | 378 | 378 | | 386 | 386 |
| Machine cutters..... | | 6 | 6 | | 4 | 4 |
| Machine loaders and helpers..... | | 18 | 18 | | 13 | 13 |
| Horse haulage employees..... | 1 | | 1 | 2 | | 2 |
| Mechanical haulage employees..... | | 8 | 8 | | 9 | 9 |
| Ventilation employees..... | | | | | | |
| Roofmakers..... | 1 | 6 | 7 | 1 | 6 | 7 |
| Timbermen..... | 9 | 13 | 22 | 8 | 11 | 19 |
| Pumpmen..... | 1 | | 1 | 3 | | 3 |
| Engineers..... | 11 | | 11 | 13 | | 13 |
| Firemen..... | 3 | | 3 | 3 | | 3 |
| Machinists..... | 2 | | 2 | 2 | | 2 |
| Carpenters and masons..... | 3 | | 3 | 1 | | 1 |
| Other mechanics..... | 1 | | 1 | 1 | | 1 |
| All other employees..... | 38 | 20 | 58 | 51 | 21 | 72 |
| Total..... | 125 | 459 | 584 | 148 | 469 | 608 |

Table 80.—Capital Employed in the Coal Mines of New Brunswick, 1930 and 1931

| | 1930 | 1931 |
|--|------------------|------------------|
| | \$ | \$ |
| Capital employed as represented by— | | |
| Cost of lands, buildings, machinery and tools..... | 1,390,495 | 1,635,844 |
| Cost of supplies and stock on hand..... | 24,900 | 19,934 |
| Cash, trading and operating accounts and bills receivable..... | 227,008 | 246,197 |
| Total..... | 1,642,403 | 1,901,975 |

CHAPTER FIVE

QUEBEC

Quebec's coal supply is obtained from outside sources. In 1931, Nova Scotia, the United States and Great Britain were the principal sources of supply; supplemented by considerable tonnages from Germany. Coal made available for use during the year totalled 4,071,827 tons, consisting of 42.9 per cent from Nova Scotia, 34.4 per cent from the United States, 21.2 per cent from Great Britain and 1.5 per cent from Germany.

Receipts of United States coal amounted to 1,402,978 tons, made up of 544,963 tons of anthracite coal and 858,015 tons of bituminous coal; in the preceding year 1,866,708 tons of United States coal were brought into the province. Great Britain supplied Quebec with 786,301 tons of anthracite coal and 75,560 tons of bituminous coal in 1931. Imports of anthracite coal from Germany totalled 60,762 tons.

Continuing the policy of assisting the movement of Nova Scotia coal into Quebec and Ontario markets, P.C. 1300, dated May 30, 1931, made provision for reduced freight rates on Nova Scotia coal shipped to Quebec and Ontario points where Canadian coal is at a disadvantage in competing with foreign coal. This Order-in-Council was amended by P.C. 1048 on May 9, 1932.

Assistance was also provided for the marketing of New Brunswick coal in Quebec and Ontario under P.C. 1299 which provides a reduction of one-sixth of a cent per ton per mile from existing freight rates (with a maximum assistance of \$1.50 per ton) on shipments to competitive points.

Table 81.—Exports of Canadian Coal through Quebec Ports, 1927-1931

(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|-----------|------------|------------|------------|-----------|
| Athelstan..... | | | | | 47 |
| Coaticook..... | 40 | 250 | | | |
| Montreal..... | 1 | 30 | 30 | | |
| Rock Island..... | | | | | 10 |
| St. Johns..... | 50 | 155 | 100 | 200 | |
| Three Rivers..... | | 5 | | | |
| Total..... | 91 | 440 | 130 | 200 | 57 |

Table 82.—Imports into Quebec of Anthracite and Bituminous Coal by Ports of Entry, 1930 and 1931

(Short tons)

| Port | Source | 1930 | | | | | 1931 | | | | |
|---------------|--------------|----------------|---------|-----------|------------------------|-----------|----------------|---------|-----------|------------------------|-----------|
| | | Anthracite | | | Bituminous, all grades | Total | Anthracite | | | Bituminous, all grades | Total |
| | | Fgg. nut, etc. | Dust | Total | | | Fgg. nut, etc. | Dust | Total | | |
| Athelstan | U.S. | 153,757 | 3,090 | 157,447 | 118,582 | 276,029 | 89,951 | 3,024 | 92,975 | 49,863 | 142,838 |
| Chicoutimi | U.S. | 510 | | 510 | 23,277 | 23,787 | 278 | | 278 | 10,880 | 11,158 |
| | G.B. | | 9,213 | 9,213 | 12,246 | 21,459 | 8,383 | | 8,383 | 97 | 8,480 |
| | Russia | 13,490 | | 13,490 | | 13,490 | | | | | |
| Coaticook | U.S. | | | | 147 | 147 | | 1,539 | | 48 | 1,587 |
| | G.B. | 21,569 | 9,886 | 31,455 | | 31,455 | | | | | |
| Drummondville | U.S. | 135 | 57 | 192 | 1,057 | 1,249 | 39 | 82 | 121 | 234 | 355 |
| Caspé | U.S. | | | | | | 296 | | 296 | 420 | 716 |
| Granby | U.S. | 116 | | 116 | 511 | 627 | 38 | | 38 | 324 | 362 |
| Hull | U.S. | 7,222 | 627 | 7,849 | 12,172 | 20,021 | 5,014 | 376 | 5,990 | 11,829 | 17,819 |
| Lake Megantic | U.S. | | | | 57 | 57 | | | | | |
| Montreal | U.S. | 22,293 | 7,236 | 29,525 | 579,179 | 608,704 | 14,255 | 935 | 15,190 | 504,179 | 519,369 |
| | G.B. | 749,598 | 1,826 | 751,424 | 53,080 | 804,504 | 685,390 | 3,124 | 688,514 | 34,772 | 723,286 |
| | Germany | 11,480 | | 11,480 | | 11,480 | 54,643 | | 54,643 | | 54,643 |
| | Russia | 193,185 | | 193,185 | | 193,185 | | | | | |
| Passaic | U.S. | 732 | | 732 | 62,334 | 63,066 | 50 | | 50 | | 50 |
| Quebec | U.S. | 22,577 | 1,009 | 23,586 | 94,591 | 118,177 | 32,350 | 765 | 33,115 | 66,868 | 99,983 |
| | G.B. | 83,051 | 4,817 | 87,868 | 34,055 | 121,923 | 78,001 | | 78,001 | 29,081 | 167,082 |
| | Russia | 38,192 | | 38,192 | | 38,192 | | | | | |
| | Germany | | | | | | 6,119 | | 6,119 | | 6,119 |
| | Newfoundland | | | | 33 | 33 | | | | | |
| | U.S. | 55 | | 55 | | 55 | | | | | |
| Rimouski | G.B. | | | | | | | | | 307 | 307 |
| Rock Island | U.S. | 2,849 | 300 | 3,149 | 2,906 | 6,055 | 2,174 | 235 | 2,409 | 1,318 | 3,727 |
| St. Armand | U.S. | 1,457 | 410 | 1,867 | 720 | 2,587 | 917 | 688 | 1,605 | 765 | 2,370 |
| St. Hyacinthe | U.S. | 723 | 884 | 1,607 | 1,664 | 3,271 | 235 | 121 | 356 | 768 | 1,124 |
| St. Johns | U.S. | 371,475 | 98,793 | 470,268 | 121,126 | 591,394 | 273,747 | 76,234 | 349,981 | 109,804 | 459,785 |
| Shawinigan | U.S. | 394 | 135 | 529 | 1,256 | 1,785 | 139 | 61 | 200 | 1,167 | 1,367 |
| Falls | U.S. | 5,437 | 42,119 | 47,556 | 12,617 | 60,173 | 4,500 | 24,143 | 28,643 | 7,455 | 36,098 |
| Sherbrooke | G.B. | | 42 | 42 | | 42 | | | | 23,975 | 23,975 |
| | U.S. | 701 | | 701 | 7,760 | 8,470 | | | | | |
| Sorel | Russia | 7,320 | | 7,320 | | 7,320 | | | | | |
| | U.S. | | | | 824 | 824 | | 1,805 | | 105 | 1,910 |
| | G.B. | 3,007 | 11,005 | 14,012 | | 14,012 | | | | | |
| Three Rivers | U.S. | 2,528 | | 2,528 | 62,665 | 65,193 | 5,237 | | 5,237 | 63,953 | 69,190 |
| | G.B. | 6,747 | 3,167 | 9,914 | 24,950 | 34,864 | 9,831 | 1,572 | 11,403 | 11,303 | 22,706 |
| Valleyfield | U.S. | 6,563 | 117 | 6,680 | 8,357 | 15,037 | 5,043 | 92 | 5,135 | 4,060 | 9,195 |
| Total | U.S. | 599,520 | 155,377 | 754,897 | 1,111,911 | 1,866,708 | 434,863 | 110,100 | 544,963 | 858,015 | 1,402,978 |
| | G.B. | 863,972 | 39,956 | 903,928 | 121,931 | 1,025,859 | 781,695 | 4,696 | 786,391 | 75,566 | 861,957 |
| | Germany | 11,480 | | 11,480 | | 11,480 | 69,762 | | 69,762 | | 69,762 |
| | Newfoundland | | | | 33 | 33 | | | | | |
| | Russia | 252,187 | | 252,187 | | 252,187 | | | | | |
| Grand total | | 1,727,159 | 195,333 | 1,922,492 | 1,236,775 | 3,159,267 | 1,277,230 | 114,796 | 1,392,026 | 933,575 | 2,325,601 |

Table 83.—Summary Statistics for 1931—Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Quebec by Months and by Kinds

(Short tons)

| Month | Canadian coal | | Imported from U.S.A. | Imported from Great Britain | Imported from Germany | Coal available for consumption |
|---------------------|-------------------------------|-----------|----------------------|-----------------------------|-----------------------|--------------------------------|
| | Received from other provinces | Exported | | | | |
| January— | | | | | | |
| Anthracite..... | | | 42,699 | | | 42,699 |
| Bituminous..... | 19,053 | | 27,262 | | | 46,315 |
| Sub-bituminous..... | 33 | | | | | 33 |
| Total..... | 19,086 | | 69,961 | | | 89,047 |
| February— | | | | | | |
| Anthracite..... | | | 54,162 | | | 54,162 |
| Bituminous..... | 18,162 | | 30,518 | 3,330 | | 52,010 |
| Total..... | 18,162 | | 84,680 | 3,330 | | 106,172 |
| March— | | | | | | |
| Anthracite..... | | | 32,482 | 411 | | 32,893 |
| Bituminous..... | 16,490 | | 26,734 | | | 43,224 |
| Total..... | 16,490 | | 59,216 | 411 | | 76,117 |
| April— | | | | | | |
| Anthracite..... | | | 17,383 | 6,231 | | 23,614 |
| Bituminous..... | 75,122 | | 19,157 | | | 94,279 |
| Total..... | 75,122 | | 36,540 | 6,231 | | 117,893 |
| May— | | | | | | |
| Anthracite..... | | | 59,997 | 138,822 | | 198,819 |
| Bituminous..... | 253,502 | | 122,769 | 5,413 | | 381,684 |
| Total..... | 253,502 | | 182,766 | 144,235 | | 580,503 |
| June— | | | | | | |
| Anthracite..... | | | 49,198 | 133,052 | 14,731 | 196,981 |
| Bituminous..... | 269,105 | | 122,752 | 2,851 | | 394,708 |
| Total..... | 269,105 | | 171,950 | 135,903 | 14,731 | 501,689 |
| July— | | | | | | |
| Anthracite..... | | | 40,749 | 130,103 | 4,414 | 184,266 |
| Bituminous..... | 243,870 | | 122,095 | 8,134 | | 374,999 |
| Total..... | 243,870 | | 172,744 | 138,237 | 4,414 | 559,265 |
| August— | | | | | | |
| Anthracite..... | | | 34,353 | 82,709 | 12,406 | 129,468 |
| Bituminous..... | 223,958 | | 110,818 | 9,423 | | 344,199 |
| Total..... | 223,958 | | 145,171 | 92,132 | 12,406 | 473,667 |
| September— | | | | | | |
| Anthracite..... | | | 55,976 | 92,305 | 15,962 | 164,243 |
| Bituminous..... | 210,676 | | 139,609 | 7,899 | | 358,184 |
| Total..... | 210,676 | | 195,585 | 100,204 | 15,962 | 522,427 |
| October— | | | | | | |
| Anthracite..... | | | 51,571 | 125,923 | 13,249 | 190,743 |
| Bituminous..... | 249,819 | 10 | 36,490 | 14,938 | | 301,237 |
| Total..... | 249,819 | 10 | 88,061 | 140,861 | 13,249 | 491,980 |
| November— | | | | | | |
| Anthracite..... | | | 51,155 | 70,736 | | 127,891 |
| Bituminous..... | 152,865 | 47 | 64,881 | 14,526 | | 232,225 |
| Total..... | 152,865 | 47 | 116,036 | 85,262 | | 360,116 |
| December— | | | | | | |
| Anthracite..... | | | 46,238 | 9 | | 46,247 |
| Bituminous..... | 13,561 | | 34,030 | 9,046 | | 56,637 |
| Sub-bituminous..... | 34 | | | | | 34 |
| Lignite..... | 33 | | | | | 33 |
| Total..... | 13,628 | | 80,268 | 9,055 | | 102,951 |
| Total— | | | | | | |
| Anthracite..... | | | 544,963 | 786,301 | 69,762 | 1,392,026 |
| Bituminous..... | 1,746,183 | 57 | 858,015 | 75,560 | | 2,679,701 |
| Sub-bituminous..... | 67 | | | | | 67 |
| Lignite..... | 33 | | | | | 33 |
| Total..... | 1,746,283 | 57 | 1,402,978 | 861,861 | 69,762 | 4,071,827 |

CHAPTER SIX

ONTARIO

Ontario's entire coal supply is obtained from outside sources. In 1931, the United States supplied 99.7 per cent of Ontario's coal requirements and other Canadian provinces, the remainder. The long freight haul between the large Ontario coal consuming centres and the Canadian coal fields in the east or the west, continues to limit the tonnage of domestic coal transported to Ontario. However, there is a small annual movement of Alberta coal to Ontario points made possible through governmental assistance. Some Nova Scotia coal is shipped annually from stock at Montreal; in 1931 these shipments reached a total of 174,879 tons.

It is difficult to state definitely how much coal is consumed in Ontario annually, as coal dumped at Fort William and Port Arthur is not only used in northern and western Ontario but a considerable tonnage finds its way into Manitoba. For this reason, it has been found advisable in compiling the data for this series of reports to consider Ontario in two parts. Central Ontario, or the area lying to the east and south of Sault Ste. Marie is well settled and highly industrialized. Moreover, coal imported through any port in this area is likely to be consumed within the boundaries above defined. Shipments of coal from the United States unloaded at Fort William and Port Arthur, the ports at the head of Lake Superior, find their final destination partly in the north-western section of Ontario lying between the Great Lakes and the Manitoba boundary and partly in Manitoba. A very considerable trade in coal has been established between the lower lake ports and the ports at the head of the lakes, as the vessels carrying cargoes of coal in this direction are able to obtain return cargoes of iron ore from the Minnesota iron ranges.

During the five years prior to 1931, the average importation of anthracite coal into Ontario was 2.3 million tons, but the 1931 imports declined 30.4 per cent from this average to 1.6 million tons. Receipts of anthracite from the United States accounted for 99.9 per cent of the *direct* importations into Ontario during 1931. It is estimated that approximately 190,000 tons of anthracite coal from Great Britain were consumed in Ontario during the year under review. This coal was imported principally through Quebec ports and trans-shipped to Ontario.

Bituminous coal imports vary considerably from year to year according to the fluctuations of industrial demand. The average consumption of this coal during the past five years was 12.46 million tons while in 1931 only 9.3 million tons were imported into Ontario.

Operations at the Onakawana lignite deposits in 1931 are described in the following statement prepared by the Ontario Department of Mines:

"The Department of Mines continued the development of the Onakawana lignite field in the Moose River basin during the year 1931.

A two-compartment shaft was sunk to a depth of 150 feet and small stations were cut, one at the 100-foot level and one 4 feet from the bottom of the seam. On the 100-foot level drifts were run 254 feet south and 325 feet northeast. Drifting on the bottom level extended 308 feet southwest and 389 feet northwest. About 1,200 tons of lignite were hoisted.

Large-sized samples for commercial tests were taken, and 120 tons were packed in air-tight steel barrels and shipped to Germany under the direction of the Ontario Research Foundation. Cyril Tasker, fuel technician, one of the Foundation staff, supervised the beneficiation tests which were made on these samples in Germany and Czecho-Slovakia.

Operations at the mine were under the direction of W. F. Fancy. About 20 men were employed."

Table 84.—Exports of Canadian Coal through Ontario Ports, 1927-1931

(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|--------------------|------------|-----------|------------|-----------|-----------|
| Bridgeburg..... | | | | | |
| Fort Frances..... | 410 | 36 | 97 | 70 | 68 |
| Niagara Falls..... | | | 49 | | |
| Sarnia..... | | | | | |
| Total..... | 410 | 36 | 146 | 70 | 68 |

Table 85.—Imports into Ontario of Anthracite and Bituminous Coal by Ports of Entry, 1930 and 1931

(Short tons)

| Port | Source | 1930 | | | 1931 | | | Total | |
|-----------------------------------|--------|------------|-----------------------|------------|----------------|---------|-----------|-----------|------------|
| | | Anthracite | Bituminous all grades | Total | Anthracite | | | | |
| | | | | | Egg, nut, etc. | Dust | Total | | |
| CENTRAL ONTARIO— | | | | | | | | | |
| Amherstburg..... | U.S. | 12,112 | 45,368 | 57,480 | 9,532 | 83 | 9,615 | 34,161 | 43,776 |
| Belleville..... | U.S. | 17,612 | 136,566 | 154,178 | 14,214 | 415 | 14,629 | 98,558 | 113,187 |
| Bowmanville..... | U.S. | 6,974 | 7,622 | 14,596 | 5,407 | 110 | 5,517 | 5,533 | 11,050 |
| Brantford..... | U.S. | 37,616 | 44,216 | 81,832 | 30,907 | 839 | 31,746 | 36,760 | 68,506 |
| Bridgeburg..... | U.S. | 69,863 | 199,562 | 269,525 | 55,416 | 1,811 | 57,227 | 53,216 | 110,443 |
| Brookville..... | U.S. | 20,185 | 20,028 | 40,213 | 11,820 | 4,608 | 16,428 | 11,288 | 27,725 |
| Clutham..... | U.S. | 6,382 | 351,786 | 358,168 | 3,080 | 40 | 3,135 | 463,185 | 466,320 |
| Cobourg..... | U.S. | 14,583 | 307,224 | 321,807 | 11,198 | 93 | 11,291 | 306,279 | 317,570 |
| Collingwood..... | U.S. | 8,941 | 10,444 | 19,385 | 5,853 | 808 | 6,671 | 7,836 | 14,507 |
| Cornwall..... | U.S. | 12,976 | 9,931 | 22,907 | 9,313 | 390 | 9,703 | 13,252 | 22,955 |
| Fort Frances..... | U.S. | 224 | 70,403 | 70,627 | | | | 65,738 | 65,738 |
| Galt..... | U.S. | 25,064 | 44,807 | 70,471 | 21,659 | 264 | 21,923 | 36,201 | 58,124 |
| Gananoque..... | U.S. | 5,216 | 4,230 | 9,446 | 3,402 | 413 | 3,875 | 2,959 | 6,834 |
| Goderich..... | U.S. | 24,700 | 48,808 | 73,514 | 18,868 | 414 | 19,282 | 35,378 | 54,660 |
| Guelph..... | U.S. | 39,704 | 63,696 | 103,100 | 29,321 | 2,593 | 31,914 | 50,001 | 81,915 |
| Hamilton..... | U.S. | 149,872 | 1,355,744 | 1,505,616 | 96,105 | 26,204 | 122,309 | 1,296,889 | 1,419,198 |
| Ingersoll..... | U.S. | 8,389 | 15,124 | 23,513 | 6,563 | 31 | 6,594 | 10,947 | 17,535 |
| Kenora..... | U.S. | | 64 | 64 | | | | 26 | 26 |
| Kingston..... | U.S. | 43,603 | 56,473 | 100,076 | 28,337 | 3,341 | 31,678 | 41,083 | 72,761 |
| Litchener..... | U.S. | 40,026 | 89,258 | 129,284 | 30,430 | 2,121 | 32,551 | 71,994 | 104,535 |
| Lindsay..... | U.S. | 10,781 | 15,143 | 25,927 | 8,504 | 272 | 8,776 | 10,719 | 19,495 |
| London..... | U.S. | 92,209 | 85,980 | 178,184 | 70,030 | 2,299 | 72,329 | 61,614 | 133,943 |
| Midland..... | U.S. | 4,330 | 95,118 | 99,478 | 2,564 | 711 | 3,275 | 72,786 | 76,061 |
| Morrisburg..... | U.S. | 3,844 | 413 | 4,257 | 2,958 | | 2,958 | 433 | 3,391 |
| Napanee..... | U.S. | 9,065 | 16,574 | 25,639 | 6,458 | 312 | 6,770 | 14,216 | 20,986 |
| Niagara Falls..... | U.S. | 84,224 | 279,152 | 363,376 | 47,285 | 3,296 | 50,581 | 350,410 | 406,991 |
| North Bay..... | U.S. | 14,903 | 44,456 | 59,359 | 10,967 | 219 | 11,186 | 36,938 | 48,124 |
| Orillia..... | U.S. | 13,591 | 17,500 | 31,091 | 10,054 | 1,132 | 11,186 | 12,950 | 24,136 |
| Oshawa..... | U.S. | 24,193 | 60,647 | 84,840 | 17,077 | 2,620 | 19,697 | 43,724 | 63,421 |
| Ottawa..... | U.S. | 136,517 | 125,556 | 262,073 | 84,025 | 15,706 | 99,731 | 98,775 | 198,506 |
| | G.B. | | | | | | | 391 | 391 |
| Owen Sound..... | U.S. | 5,672 | 20,970 | 26,642 | 3,608 | 176 | 3,784 | 12,448 | 16,232 |
| Paris..... | U.S. | 9,614 | 13,083 | 22,697 | 7,440 | 176 | 7,616 | 11,992 | 19,608 |
| Perry Sound..... | U.S. | 2,277 | 659,026 | 661,303 | 1,640 | | 1,640 | 440,716 | 442,359 |
| Peterboro..... | U.S. | 33,552 | 52,804 | 86,356 | 27,190 | 796 | 27,986 | 39,087 | 67,073 |
| Picton..... | U.S. | 6,222 | 5,771 | 11,993 | 7,224 | 37 | 7,261 | 5,078 | 12,339 |
| Port Hope..... | U.S. | 10,322 | 8,133 | 18,455 | 7,562 | 209 | 7,771 | 8,348 | 16,119 |
| Port McNicoll..... | U.S. | 434 | 11,312 | 11,746 | 148 | | 148 | 8,098 | 8,246 |
| Prescott..... | U.S. | 17,980 | 818,539 | 836,519 | 11,491 | 151 | 11,642 | 754,309 | 765,951 |
| St. Catharines..... | U.S. | 44,719 | 218,896 | 263,615 | 34,331 | 1,951 | 36,282 | 137,663 | 173,885 |
| St. Thomas..... | U.S. | 18,717 | 294,492 | 313,209 | 13,908 | 235 | 14,143 | 151,450 | 165,593 |
| Sarnia..... | U.S. | 5,096 | 369,920 | 375,016 | 3,606 | 123 | 3,729 | 235,650 | 239,379 |
| Sault Ste. Marie..... | U.S. | 7,422 | 1,121,219 | 1,128,641 | 3,667 | 318 | 3,985 | 695,473 | 699,458 |
| Simcoe..... | U.S. | 3,802 | 15,378 | 19,180 | 2,347 | 115 | 2,462 | 13,721 | 16,183 |
| Stratford..... | U.S. | 49,035 | 58,091 | 107,129 | 36,048 | 1,390 | 37,438 | 54,961 | 92,399 |
| Sudbury..... | U.S. | 14,296 | 13,021 | 27,317 | 9,61 | 162 | 9,223 | 7,488 | 16,709 |
| Tilsonburg..... | U.S. | 2,915 | 326,660 | 329,575 | 2,251 | | 2,251 | 267,563 | 269,814 |
| Toronto..... | U.S. | 800,897 | 1,322,092 | 2,122,989 | 576,718 | 60,457 | 637,175 | 1,233,644 | 1,870,819 |
| | G.B. | | | | 2,208 | | 2,208 | | 2,208 |
| Trenton..... | U.S. | 10,614 | 29,070 | 39,684 | 6,551 | 61 | 6,612 | 17,271 | 23,883 |
| Wallaceburg..... | U.S. | 501 | 32,469 | 32,970 | 363 | | 363 | 28,831 | 29,194 |
| Welland..... | U.S. | 40,090 | 632,118 | 672,208 | 22,618 | 2,492 | 25,110 | 540,582 | 565,692 |
| Whitby..... | U.S. | 10,678 | 12,615 | 23,293 | 10,005 | | 10,005 | 3,927 | 13,932 |
| Windsor..... | U.S. | 21,026 | 809,073 | 830,099 | 12,863 | 2,217 | 15,080 | 576,582 | 591,662 |
| Woodstock..... | U.S. | 21,306 | 25,473 | 46,779 | 18,078 | 1,065 | 19,143 | 24,436 | 43,579 |
| TOTAL FOR CENTRAL ONTARIO— | | | | | | | | | |
| | U.S. | 2,080,681 | 10,492,151 | 12,572,832 | 1,470,153 | 143,282 | 1,613,435 | 8,619,083 | 10,232,518 |
| | G.B. | | | | 2,208 | | 2,208 | 391 | 2,599 |
| HEAD OF LAKES— | | | | | | | | | |
| Port William..... | U.S. | 45,241 | 1,297,939 | 1,343,180 | 13,400 | 4,902 | 18,302 | 609,279 | 627,581 |
| Port Arthur..... | U.S. | | 165,499 | 165,499 | | | | 86,810 | 86,810 |
| TOTAL HEAD OF LAKES. | | | | | | | | | |
| | U.S. | 45,241 | 1,463,438 | 1,508,679 | 13,400 | 4,902 | 18,302 | 696,089 | 714,391 |
| Total for Ontario. | | | | | | | | | |
| | U.S. | 2,125,922 | 11,955,589 | 14,081,511 | 1,483,553 | 148,184 | 1,631,737 | 9,315,172 | 10,946,909 |
| | G.B. | | | | 2,208 | | 2,208 | 391 | 2,599 |
| Grand total. | | | | | | | | | |
| | | 2,125,922 | 11,955,589 | 14,081,511 | 1,485,761 | 148,184 | 1,633,945 | 9,315,563 | 10,949,508 |

Table 86.—Summary Statistics for 1931—Interprovincial Shipments, Exports, Imports and Coal made Available for Consumption in Ontario, by Months and by Kinds

(Short tons)

| Month | Central Ontario | | | | Head of Lakes Coal available for consumption (All from U.S.A.) | Total Ontario Coal available for consumption | |
|---------------------|-------------------------------|----------|----------------------|-----------------------------|---|---|--------------------------------|
| | Canadian coal | | Imported from U.S.A. | Imported from Great Britain | | | Coal available for consumption |
| | Received from other provinces | Exported | | | | | |
| January— | | | | | | | |
| Anthracite..... | | 21 | 190,043 | | 190,043 | 190,043 | |
| Bituminous..... | | | 510,270 | | 510,249 | 510,249 | |
| Sub-bituminous..... | 493 | | | | 493 | 493 | |
| Lignite..... | 2,578 | | | | 2,578 | 2,578 | |
| Total..... | 3,071 | 21 | 700,313 | | 703,363 | 703,363 | |
| February— | | | | | | | |
| Anthracite..... | | | 184,368 | | 184,368 | 184,368 | |
| Bituminous..... | | | 535,052 | | 535,052 | 535,052 | |
| Sub-bituminous..... | 239 | | | | 239 | 239 | |
| Lignite..... | 1,853 | | | | 1,853 | 1,853 | |
| Total..... | 2,092 | | 719,420 | | 721,512 | 721,512 | |
| March— | | | | | | | |
| Anthracite..... | | | 120,261 | | 129,261 | 129,261 | |
| Bituminous..... | | | 604,588 | | 604,588 | 604,588 | |
| Sub-bituminous..... | 102 | | | | 102 | 102 | |
| Lignite..... | 400 | | | | 400 | 400 | |
| Total..... | 502 | | 733,849 | | 734,351 | 734,351 | |
| April— | | | | | | | |
| Anthracite..... | | | 88,555 | | 88,555 | 88,555 | |
| Bituminous..... | 30 | | 389,312 | | 389,342 | 398,196 | |
| Sub-bituminous..... | | | | | | | |
| Lignite..... | 271 | | | | 271 | 271 | |
| Total..... | 301 | | 477,867 | | 478,168 | 487,022 | |
| May— | | | | | | | |
| Anthracite..... | | | 141,510 | | 141,510 | 141,510 | |
| Bituminous..... | | | 629,649 | | 629,649 | 698,636 | |
| Sub-bituminous..... | 84 | | | | 84 | 84 | |
| Lignite..... | 196 | | | | 196 | 196 | |
| Total..... | 280 | | 771,159 | | 771,429 | 840,426 | |
| June— | | | | | | | |
| Anthracite..... | | | 129,332 | 1,524 | 130,856 | 136,839 | |
| Bituminous..... | | | 678,808 | | 678,808 | 720,583 | |
| Sub-bituminous..... | 108 | | | | 108 | 108 | |
| Lignite..... | 356 | 38 | | | 318 | 318 | |
| Total..... | 464 | 38 | 808,140 | 1,524 | 810,090 | 857,848 | |
| July— | | | | | | | |
| Anthracite..... | | | 138,901 | | 138,901 | 138,991 | |
| Bituminous..... | 42 | | 766,409 | | 766,511 | 772,562 | |
| Sub-bituminous..... | 303 | | | | 303 | 303 | |
| Lignite..... | 1,565 | | | | 1,565 | 1,565 | |
| Total..... | 1,910 | | 905,460 | | 907,370 | 913,421 | |
| August— | | | | | | | |
| Anthracite..... | | | 90,755 | 175 | 90,930 | 90,930 | |
| Bituminous..... | 46 | | 900,097 | | 900,143 | 1,137,422 | |
| Sub-bituminous..... | 167 | | | | 167 | 167 | |
| Lignite..... | 911 | | | | 911 | 911 | |
| Total..... | 1,124 | | 990,852 | 175 | 992,151 | 1,229,430 | |
| September— | | | | | | | |
| Anthracite..... | | | 104,029 | | 104,029 | 104,029 | |
| Bituminous..... | 135 | | 905,029 | | 905,164 | 1,069,930 | |
| Sub-bituminous..... | 428 | | | | 428 | 428 | |
| Lignite..... | 2,417 | | | | 2,417 | 2,417 | |
| Total..... | 2,980 | | 1,009,058 | | 1,012,038 | 1,176,804 | |

Table 86.—Summary Statistics for 1931—Interprovincial Shipments, Exports, Imports and Coal made Available for Consumption in Ontario, by Months and by Kinds—Concluded

(Short tons)

| | Central Ontario | | | | | Head of Lakes | Total Ontario |
|---------------------|-------------------------------|-----------|----------------------|-----------------------------|--------------------------------|--|--------------------------------|
| | Canadian coal | | Imported from U.S.A. | Imported from Great Britain | Coal available for consumption | Coal available for consumption (All from U.S.A.) | Coal available for consumption |
| | Received from other provinces | Exported | | | | | |
| October— | | | | | | | |
| Anthracite..... | | | 153,913 | | 153,913 | | 153,913 |
| Bituminous..... | | | 959,629 | 391 | 960,020 | 87,273 | 1,047,293 |
| Sub-bituminous..... | 1,269 | | | | 1,269 | | 1,269 |
| Lignite..... | 3,853 | | | | 3,853 | | 3,853 |
| Total..... | 5,122 | | 1,113,542 | 391 | 1,119,055 | 87,273 | 1,206,328 |
| November— | | | | | | | |
| Anthracite..... | | | 145,470 | 509 | 145,979 | 10,317 | 156,296 |
| Bituminous..... | 108 | 2 | 961,640 | | 961,746 | 66,233 | 1,027,979 |
| Sub-bituminous..... | 1,183 | | | | 1,183 | | 1,183 |
| Lignite..... | 3,739 | | | | 3,739 | | 3,739 |
| Total..... | 5,030 | 2 | 1,107,110 | 509 | 1,112,647 | 76,550 | 1,189,197 |
| December— | | | | | | | |
| Anthracite..... | | | 117,208 | | 117,208 | 2,002 | 119,210 |
| Bituminous..... | 94 | 7 | 778,540 | | 778,627 | 14,871 | 793,498 |
| Sub-bituminous..... | 1,416 | | | | 1,416 | | 1,416 |
| Lignite..... | 4,012 | | | | 4,012 | | 4,012 |
| Total..... | 5,522 | 7 | 895,748 | | 901,263 | 16,873 | 918,136 |
| Total— | | | | | | | |
| Anthracite..... | | | 1,613,435 | 2,208 | 1,615,643 | 18,302 | 1,633,945 |
| Bituminous..... | 455 | 30 | 8,619,082 | 391 | 8,619,899 | 696,089 | 9,315,988 |
| Sub-bituminous..... | 5,792 | | | | 5,792 | | 5,792 |
| Lignite..... | 22,151 | 38 | | | 22,113 | | 22,113 |
| Total..... | 28,398 | 68 | 10,232,518 | 2,599 | 10,263,447 | 714,391 | 10,977,838 |

* Includes all coal shipped to any point in Ontario from western mines.

CHAPTER SEVEN

MANITOBA

Manitoba became a coal producing province in a small way during 1931, when 1,306 tons of coal were mined from the lignite seams in the Turtle Mountains near Deloraine. This coal was utilized locally.

The principal coal requirements of this province continued to be supplied by the United States, Alberta, Saskatchewan and British Columbia. Alberta's shipments to Manitoba in 1931, included 119,242 tons of bituminous, 48,250 tons of sub-bituminous and 275,615 tons of lignite. Saskatchewan mines shipped 244,408 tons of lignite to Manitoba points. Bituminous coal from the Crows Nest Pass field, British Columbia, to a total of 57,562 tons was shipped into Manitoba in 1931. As Manitoba's importations of United States coal are received principally through the head of lakes ports, it is necessary in considering the province's requirements to include data regarding clearances through Fort William and Port Arthur. In 1931, the total imports into Manitoba and the Head of Lakes amounted to 725,127 tons.

Table 87.—Disposition of Coal Output from Manitoba Mines by Grades, 1931
(Short tons)

| Disposition | 1931 | | | | |
|---|--------------|------|-------|--------------|--------------|
| | Run-of mine | Lump | Slack | Total | |
| | | | | Quantity | Value |
| Supplied to employees for domestic consumption..... | 107 | | | 107 | \$ 286 |
| Shipped (all to Manitoba points)..... | 1,106 | | | 1,106 | 3,511 |
| Put on waste heap..... | | | | 93 | |
| Total disposition..... | 1,213 | | | 1,306 | 3,797 |

Table 88.—Exports of Canadian Coal through Manitoba Ports, 1927-1931
(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|--------------|--------------|--------------|--------------|--------------|
| Brandon..... | 73 | 126 | 100 | 57 | 4 |
| Emerson..... | 1,771 | 1,377 | 1,319 | 702 | 332 |
| Gretna..... | 2,372 | 1,597 | 1,204 | 693 | 389 |
| Winnipeg..... | 1,271 | 988 | 711 | 950 | 563 |
| Total..... | 5,487 | 4,088 | 3,334 | 2,402 | 1,288 |

Table 89.—Imports into Manitoba and the Head of Lakes, of Anthracite and Bituminous Coal by Ports of Entry, 1930 and 1931
(Short tons)

| Port | Source | 1930 | | | | | 1931 | | | | |
|--|-----------------|---------------|--------------|---------------|-----------------------|------------------|---------------|--------------|---------------|-----------------------|----------------|
| | | Anthracite | | Total | Bituminous all grades | Total | Anthracite | | | Bituminous all grades | Total |
| | | Egg nut, etc. | Dust | | | | Egg nut, etc. | Dust | Total | | |
| MANITOBA— | | | | | | | | | | | |
| Brandon..... | U.S..... | 343 | | 343 | 3,892 | 4,225 | 69 | | 69 | 375 | 444 |
| Emerson..... | U.S..... | | | | 86 | 86 | | | | 42 | 42 |
| Gretna..... | U.S..... | 131 | | 131 | 175 | 306 | 41 | | 41 | 29 | 70 |
| Portage la Prairie..... | U.S..... | 25 | | 25 | | 25 | | | | | |
| Winnipeg..... | U.S..... | 4,265 | 3,559 | 7,824 | 20,753 | 28,577 | 2,305 | 1,280 | 3,585 | 6,595 | 10,180 |
| Total for Manitoba..... | U.S..... | 4,764 | 3,559 | 8,323 | 24,898 | 33,221 | 2,415 | 1,280 | 3,695 | 7,041 | 10,736 |
| HEAD OF LAKES— | | | | | | | | | | | |
| Fort William..... | U.S..... | 45,241 | | 45,241 | 1,297,939 | 1,343,180 | 13,400 | 4,902 | 18,302 | 609,279 | 627,581 |
| Port Arthur..... | U.S..... | | | | 165,499 | 165,499 | | | | 86,810 | 86,810 |
| Total Head of Lakes..... | U.S..... | 45,241 | | 45,241 | 1,463,438 | 1,508,679 | 13,400 | 4,902 | 18,302 | 696,089 | 714,391 |
| Total for Manitoba and Head of Lakes..... | U.S..... | 50,005 | 3,559 | 53,564 | 1,488,336 | 1,541,900 | 15,815 | 6,182 | 21,997 | 703,130 | 725,127 |

Table 89a.—Summary Statistics for 1931—Interprovincial Shipments, Exports, Imports and Coal Made Available for Consumption in Manitoba, (exclusive of Shipments Cleared at Head of Lakes) by Months and by Kinds

(Short tons)

| Month | Canadian coal | | | Imported from U.S.A. | Coal available for consumption |
|---------------------|---------------|-------------------------------|----------|----------------------|--------------------------------|
| | Output | Received from other provinces | Exported | | |
| January— | | | | | |
| Anthracite..... | | | | 700 | 700 |
| Bituminous..... | | 17,758 | 47 | 664 | 18,375 |
| Sub-bituminous..... | | 7,239 | | | 7,239 |
| Lignite..... | | 76,631 | 261 | | 76,370 |
| Total..... | | 101,628 | 308 | 1,364 | 102,684 |
| February— | | | | | |
| Anthracite..... | | | | 613 | 613 |
| Bituminous..... | | 12,935 | 1 | 691 | 13,625 |
| Sub-bituminous..... | | 3,345 | | | 3,345 |
| Lignite..... | | 47,393 | 34 | | 47,359 |
| Total..... | | 63,673 | 35 | 1,304 | 64,942 |
| March— | | | | | |
| Anthracite..... | | | | 570 | 570 |
| Bituminous..... | | 15,345 | 4 | 875 | 16,216 |
| Sub-bituminous..... | | 1,092 | | | 1,092 |
| Lignite..... | | 54,164 | 32 | | 54,132 |
| Total..... | | 70,601 | 36 | 1,445 | 72,010 |
| April— | | | | | |
| Anthracite..... | | | | 370 | 370 |
| Bituminous..... | | 10,715 | | 594 | 11,309 |
| Sub-bituminous..... | | 128 | | | 128 |
| Lignite..... | | 16,176 | 33 | | 16,143 |
| Total..... | | 27,019 | 33 | 964 | 27,950 |
| May— | | | | | |
| Anthracite..... | | | | 43 | 43 |
| Bituminous..... | | 8,550 | | 792 | 9,342 |
| Sub-bituminous..... | | 93 | | | 93 |
| Lignite..... | | 13,833 | | | 13,833 |
| Total..... | | 22,476 | | 835 | 23,311 |
| June— | | | | | |
| Anthracite..... | | | | 22 | 22 |
| Bituminous..... | | 8,992 | | 721 | 9,713 |
| Sub-bituminous..... | | 418 | | | 418 |
| Lignite..... | | 8,601 | 2 | | 8,599 |
| Total..... | | 18,011 | 2 | 743 | 18,752 |
| July— | | | | | |
| Anthracite..... | | | | | |
| Bituminous..... | | 14,390 | | 617 | 15,007 |
| Sub-bituminous..... | | 1,284 | | | 1,284 |
| Lignite..... | | 8,691 | | | 8,691 |
| Total..... | | 24,365 | | 617 | 24,982 |
| August— | | | | | |
| Anthracite..... | | | | 36 | 36 |
| Bituminous..... | | 17,046 | 2 | 388 | 17,432 |
| Sub-bituminous..... | | 3,125 | | | 3,125 |
| Lignite..... | | 14,502 | | | 14,502 |
| Total..... | | 34,673 | 2 | 424 | 35,095 |
| September— | | | | | |
| Anthracite..... | | | | 140 | 140 |
| Bituminous..... | | 11,898 | | 633 | 12,531 |
| Sub-bituminous..... | | 7,744 | | | 7,744 |
| Lignite..... | | 39,966 | 62 | | 39,904 |
| Total..... | | 59,608 | 62 | 773 | 60,319 |

Table 89a.—Summary Statistics for 1931—Interprovincial Shipments, Exports, Imports and Coal Made Available for Consumption in Manitoba (exclusive of Shipments Cleared at Head of Lakes) by Months and by Kinds—Concluded

(Short tons)

| Month | Canadian coal | | | Imported from U.S.A. | Coal available for consumption |
|---------------------|---------------|-------------------------------|--------------|----------------------|--------------------------------|
| | Output | Received from other provinces | Exported | | |
| October— | | | | | |
| Anthracite..... | | | | 450 | 450 |
| Bituminous..... | | 13,984 | 13 | 299 | 14,270 |
| Sub-bituminous..... | | 7,563 | | | 7,563 |
| Lignite..... | 39 | 65,566 | 199 | | 65,406 |
| Total..... | 39 | 87,113 | 212 | 749 | 87,689 |
| November— | | | | | |
| Anthracite..... | | | | 291 | 291 |
| Bituminous..... | | 19,556 | 13 | 410 | 19,953 |
| Sub-bituminous..... | | 8,935 | | | 8,935 |
| Lignite..... | 311 | 96,801 | 307 | | 96,805 |
| Total..... | 311 | 125,292 | 320 | 701 | 125,984 |
| December— | | | | | |
| Anthracite..... | | | | 460 | 460 |
| Bituminous..... | | 25,635 | 12 | 357 | 25,980 |
| Sub-bituminous..... | | 7,284 | | | 7,284 |
| Lignite..... | 956 | 77,699 | 296 | | 78,389 |
| Total..... | 956 | 110,618 | 278 | 817 | 112,113 |
| Total— | | | | | |
| Anthracite..... | | | | 3,695 | 3,695 |
| Bituminous..... | | 176,804 | 92 | 7,041 | 183,753 |
| Sub-bituminous..... | | 48,250 | | | 48,250 |
| Lignite..... | 1,396 | 329,023 | 1,196 | | 329,133 |
| Total..... | 1,396 | 745,077 | 1,288 | 10,736 | 755,811 |

Table 90.—Employment and Earnings in the Coal Mines of Manitoba, 1931

| | 1931 |
|---|-----------------|
| Average number of wage-earners— | |
| Surface..... | 12 |
| Underground..... | 26 |
| Total..... | 38 |
| Days' work done— | |
| Surface..... | 263 |
| Underground..... | 604 |
| Total..... | 867 |
| Average number of days worked per man per year— | |
| Surface..... | 22 |
| Underground..... | 23 |
| By all wage-earners..... | 23 |
| Total wages paid..... | \$ 3,000 |
| Average wage earned per man per day..... | \$ 3.46 |

Table 91.—Wage-Earners Employed and Work Done by Months in the Manitoba Coal Mines in 1931

| Month | Number of employees | | | Days' work done | | |
|-------------------|---------------------|--------------|-------|-----------------|--------------|------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| October..... | 11 | 22 | 33 | 13 | 24 | 37 |
| November..... | 13 | 26 | 39 | 68 | 134 | 202 |
| December..... | 12 | 29 | 41 | 182 | 446 | 624 |
| Total..... | | | | 263 | 604 | 867 |

CHAPTER EIGHT

SASKATCHEWAN

Coal production in Saskatchewan set up a new high record in 1931 when 662,836 tons were produced. This output represented an increase of 14.4 per cent over the 1930 total of 579,424 tons and 14.2 per cent over the 1929 production of 580,189 tons, the previous high record. Mines in operation during the year produced 65 per cent of their possible output; lack of orders accounted for 34.7 per cent of the time lost. In addition, two labour disputes involving 645 men with a loss of 5,613 man-days work, represented an output loss of 35,194 tons.

Continued development in the mining of lignite coal by stripping and open-cut methods with the lower costs entailed thereby, was responsible, to a large extent, for the increased output in 1931. An additional factor of importance was the assistance granted by the Federal Government's railway subvention, by means of which Saskatchewan lignite is finding increasing use for industrial and domestic purposes in Winnipeg.

Coal shipped from the mines for consumption within the province reached a total of 329,394 tons as against 247,750 tons in 1930. Shipments to Manitoba points amounted to 244,408 tons in 1931, a 9.3 per cent increase over the 1930 total of 223,552 tons. The remainder of the shipments from the mines included 29,981 tons for railroad use and small quantities to Ontario, the United States, British Columbia, and Alberta.

Employment in Saskatchewan mines showed considerable fluctuation in 1931; the year opened with 672 men on the payrolls but the following five months recorded a sharp decline. A slight recovery was noted in July, followed by an advance which reached its maximum in November when 908 men were employed. The average number of wage-earners working during the year was 538, to whom wages amounting to \$404,432 were paid.

Table 92.—Output of Coal from Saskatchewan Mines, 1887-1931

| Calendar year | Short tons | Value | Calendar year | Short tons | Value | Calendar year | Short tons | Value |
|---------------|------------|--------|---------------|------------|---------|---------------|------------------|-------------------|
| | | \$ | | | \$ | | | \$ |
| 1887..... | (a) 400 | 800 | 1902..... | 70,400 | 112,640 | 1917..... | 355,445 | 662,451 |
| 1888..... | | | 1903..... | 116,703 | 169,618 | 1918..... | 346,847 | 722,148 |
| 1889..... | | | 1904..... | 124,885 | 187,021 | *1919..... | 379,347 | 819,390 |
| 1890..... | 200 | 200 | 1905..... | 107,596 | 152,334 | *1920..... | 335,222 | 797,828 |
| 1891..... | | | 1906..... | 108,398 | 164,146 | *1921..... | 335,632 | 823,180 |
| 1892..... | 5,400 | 9,325 | 1907..... | 151,232 | 252,437 | *1922..... | 382,437 | 802,053 |
| 1893..... | 8,325 | 12,485 | 1908..... | 150,556 | 253,790 | *1923..... | 438,100 | 858,448 |
| 1894..... | (b) 15,051 | 15,153 | 1909..... | 192,125 | 296,333 | *1924..... | 479,118 | 886,668 |
| 1895..... | 15,769 | 31,538 | 1910..... | 181,156 | 293,929 | *1925..... | 471,965 | 870,875 |
| 1896..... | 16,706 | 25,059 | 1911..... | 206,779 | 347,248 | *1926..... | 439,803 | 819,805 |
| 1897..... | 25,000 | 37,500 | 1912..... | 225,342 | 368,135 | *1927..... | 471,713 | 831,491 |
| 1898..... | 25,000 | 37,500 | 1913..... | 212,897 | 358,192 | *1928..... | 580,189 | 993,226 |
| 1899..... | 25,000 | 37,500 | 1914..... | 232,299 | 374,245 | *1929..... | 579,424 | 968,863 |
| 1900..... | 40,500 | 60,750 | 1915..... | 240,107 | 365,246 | *1930..... | 662,836 | 1,247,512 |
| 1901..... | 45,000 | 72,000 | 1916..... | 281,300 | 441,836 | *1931..... | | |
| | | | | | | Total | 9,552,428 | 17,147,512 |

(a) From Turtle Mountain district, Manitoba.

(b) Including a small quantity from the Turtle Mountain district, Manitoba.

*For the years 1919-1931 the tonnage shown is the total output from all mines, for previous years the figures given include only sales, colliery consumption and coal used by the operators.

Table 93.—Output of Coal from Saskatchewan Mines, by Months, 1927-1931
(Short tons)

| Month | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| January..... | 54,330 | 56,525 | 69,117 | 78,003 | 81,308 |
| February..... | 49,632 | 50,608 | 60,542 | 50,186 | 55,094 |
| March..... | 34,728 | 39,760 | 41,753 | 47,140 | 63,088 |
| April..... | 22,882 | 28,732 | 32,813 | 25,550 | 30,420 |
| May..... | 18,153 | 16,079 | 30,209 | 20,744 | 22,521 |
| June..... | 16,658 | 15,445 | 27,707 | 20,993 | 17,970 |
| July..... | 15,133 | 17,380 | 28,741 | 20,264 | 16,347 |
| August..... | 18,130 | 21,977 | 27,617 | 21,517 | 19,527 |
| September..... | 27,969 | 31,551 | 47,448 | 42,690 | 35,130 |
| October..... | 49,878 | 67,769 | 65,308 | 91,030 | 84,518 |
| November..... | 89,361 | 70,088 | 73,274 | 81,955 | 130,998 |
| December..... | 73,372 | 65,219 | 75,860 | 79,282 | 105,915 |
| Total..... | 470,216 | 471,713 | 580,189 | 579,424 | 662,836 |

Table 94.—Output of Coal by Principal Collieries in Saskatchewan for 1929-1931
(Average of 500 tons or more per month)
(Short tons)

| Name | Address | 1929 | 1930 | 1931 |
|---|---|----------------|----------------|----------------|
| Bienfait Mine..... | Bienfait..... | 74,884 | 85,357 | 65,885 |
| Bourguin, Louis..... | Box 287, Estevan..... | 6,240 | 3,535 | 1,632 |
| Crescent Collieries, Ltd..... | Bienfait..... | 53,284 | 63,318 | 46,330 |
| Eastern Collieries of Bienfait, Ltd..... | Estevan..... | 39,855 | 41,016 | 34,439 |
| Gill, William (formerly W. H. Rollinson)..... | Box 65, Estevan..... | 2,653 | 2,864 | 2,855 |
| International Clay Products, Ltd..... | Estevan..... | 11,820 | 6,444 | - |
| Jenish Bros..... | Estevan..... | 4,064 | 4,904 | 5,073 |
| Manitoba and Saskatchewan Coal Co., Ltd..... | 503 Avenue Block, Win- nipeg, Man..... | 96,282 | 90,790 | 107,910 |
| National Mines, Ltd. (formerly Bienfait Commercial Co.)..... | Bienfait..... | 17,644 | 19,136 | 19,756 |
| Nicholson, H..... | Estevan..... | 7,018 | 4,664 | 1,803 |
| Parkinson, George..... | Estevan..... | 4,194 | 4,849 | 3,798 |
| Poage, H. E..... | Roche Percée..... | - | - | 6,411 |
| Shand Coal and Brick Co..... | Shand..... | 26,163 | 23,575 | 9,777 |
| Truax Tracer Coal Co., Ltd. (formerly Big Lump Coal Co.)..... | Estevan..... | 26,823 | 77,188 | 229,436 |
| Western Dominion Collieries, Ltd..... | 35-460 Main St., Winni- peg, Man..... | 182,139 | 119,847 | 94,220 |
| All other operators..... | | 27,126 | 25,937 | 33,501 |
| Total..... | | 530,189 | 579,424 | 662,836 |

Table 95.—Tonnage Lost in Saskatchewan Coal Mines, Showing the Relative Percentage Produced and Lost, with an Analysis of the Percentages Lost, 1930 and 1931

| Year | Per cent produced | Per cent lost | Percentage lost through | | | | |
|-----------|-------------------|---------------|-------------------------|----------------|--------------|-----------------|--------------|
| | | | Absentee-ism | Lack of orders | Car shortage | Mine disability | Other causes |
| 1930..... | 64 | 36 | - | 35.6 | - | - | 0.4 |
| 1931..... | 65 | 35 | - | 34.7 | - | 0.2 | 0.1 |

Table 96.—Disposition of Coal from Saskatchewan Mines by Grades, 1930 and 1931
(Short tons)

| Disposition | 1930 | | | | | | 1931 | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--|
| | Run-of-mine | Lump | Slack | Total | | Run-of-mine | Lump | Slack | Total | | | |
| | | | | Quan- tity | Value | | | | Quan- tity | Value | | |
| | | | | | \$ | | | | | \$ | | |
| Supplied to employees for domestic consumption..... | 1,506 | 1,693 | 53 | 3,252 | 5,838 | 1,248 | 1,219 | - | 2,467 | 4,127 | | |
| Shipped as per Table 97..... | 231,507 | 148,810 | 134,693 | 515,010 | 897,912 | 215,805 | 206,511 | 183,521 | 605,837 | 889,663 | | |
| Used under colliery boilers, etc..... | 971 | - | 32,053 | 33,024 | 29,077 | 874 | - | 27,168 | 28,042 | 25,939 | | |
| Used in making briquettes..... | 22,911 | - | - | 22,911 | 29,781 | 13,979 | - | - | 13,979 | 17,475 | | |
| Used by companies' railroads..... | 3,911 | - | - | 3,911 | 5,950 | 3,286 | - | - | 3,286 | 5,089 | | |
| Put on bank..... | 504 | 622 | 1,136 | 2,262 | 3,218 | 1,082 | - | 6,528 | 7,610 | 4,591 | | |
| Put on waste heap..... | - | - | - | 993 | - | - | - | - | 2,716 | - | | |
| Total disposition..... | 261,310 | 151,125 | 167,935 | 581,363 | 971,776 | 236,274 | 207,730 | 217,217 | 663,937 | 946,894 | | |
| Lifted from bank..... | 509 | 686 | 744 | 1,939 | 2,913 | 855 | 107 | 139 | 1,101 | 1,625 | | |
| Total output..... | 260,801 | 150,439 | 167,191 | 579,424 | 968,863 | 235,419 | 207,623 | 217,078 | 662,836 | 945,259 | | |

Table 97.—Shipments of Coal from Saskatchewan Mines, by Grades and Destination, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | 1931 | | | |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | Run-of-mine | Lump | Slack | Total | Run-of-mine | Lump | Slack | Total |
| Saskatchewan..... | 99,744 | 98,215 | 49,791 | 247,750 | 117,450 | 130,553 | 81,391 | 329,394 |
| Alberta..... | 1,260 | 197 | 69 | 1,535 | | | 33 | 33 |
| British Columbia..... | | | | | | | 71 | 71 |
| Manitoba..... | 98,924 | 49,875 | 74,753 | 223,552 | 81,467 | 75,538 | 87,403 | 244,408 |
| Ontario..... | 508 | | 880 | 1,388 | 163 | 102 | 1,259 | 1,524 |
| United States..... | | 218 | | 218 | 200 | 63 | 163 | 426 |
| Railroads..... | 31,062 | 305 | 9,200 | 40,567 | 16,525 | 255 | 13,201 | 29,981 |
| Total..... | 231,507 | 148,810 | 134,693 | 515,010 | 215,895 | 206,511 | 183,521 | 605,837 |

Table 98.—Exports of Canadian Coal through Saskatchewan Ports, 1927-1931

(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|--------------|--------------|--------------|--------------|--------------|
| Moose Jaw..... | 19 | 55 | 38 | 87 | 133 |
| North Portal..... | 4,439 | 6,365 | 7,495 | 5,658 | 2,073 |
| Regina..... | 1,837 | 1,386 | 694 | 330 | 36 |
| Total..... | 6,295 | 7,806 | 8,227 | 6,075 | 2,242 |

Table 99.—Imports into Saskatchewan of Anthracite, Bituminous and Lignite Coal by Ports of Entry, 1930 and 1931

(Short tons)

| Port | Source | 1930 | | | | 1931 | | | | | |
|--------------------|-----------------|----------------|------|------------|------------------------|-------|----------------|-----------|--------------|------------------------|-------|
| | | Anthracite | | Lignite | Bituminous, all grades | Total | Anthracite | | Lignite | Bituminous, all grades | Total |
| | | Egg, nut, etc. | Dust | | | | Egg, nut, etc. | Dust | | | |
| Moose Jaw..... | U.S..... | | | 736 | 436 | | | | | | |
| North Portal..... | U.S..... | 367 | | | 421 | | | 23 | 159 | 182 | |
| Prince Albert..... | U.S..... | | | | 107 | | | | 366 | 366 | |
| Regina..... | U.S..... | | | | 358 | | | | 126 | 126 | |
| Saskatoon..... | U.S..... | | | | 358 | | | | 330 | 330 | |
| | | | | | 494 | | | | 554 | 554 | |
| Total..... | U.S..... | 367 | | 736 | 1,816 | | | 23 | 1,535 | 1,558 | |

Table 100.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments Imports and Coal made Available for Consumption in Saskatchewan by Months and by Kinds

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Coal available for consumption |
|---------------------|---------------|-------------------------------|----------------------------|----------|----------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | |
| January— | | | | | | |
| Anthracite..... | | | | | 33 | 14,716 |
| Bituminous..... | | 14,683 | | | | 3,217 |
| Sub-bituminous..... | | 3,217 | | | | 140,997 |
| Lignite..... | 81,308 | 94,521 | 34,581 | 251 | | |
| Total..... | 81,308 | 112,421 | 34,581 | 251 | 33 | 158,930 |
| February— | | | | | | |
| Anthracite..... | | | | | 32 | 8,830 |
| Bituminous..... | | 8,798 | | | | 1,119 |
| Sub-bituminous..... | | 1,119 | | | 15 | 81,447 |
| Lignite..... | 55,094 | 50,462 | 23,850 | 274 | | |
| Total..... | 55,094 | 60,379 | 23,850 | 274 | 47 | 91,396 |
| March— | | | | | | |
| Bituminous..... | | 10,229 | | | 347 | 10,576 |
| Sub-bituminous..... | | 1,175 | | | | 1,175 |
| Lignite..... | 63,088 | 63,590 | 28,604 | 154 | | 97,920 |
| Total..... | 63,088 | 74,994 | 28,604 | 154 | 347 | 109,671 |
| April— | | | | | | |
| Bituminous..... | | 6,808 | | | 128 | 6,936 |
| Sub-bituminous..... | | 24 | | | | 24 |
| Lignite..... | 30,420 | 28,605 | 10,986 | | | 48,039 |
| Total..... | 30,420 | 35,437 | 10,986 | | 128 | 54,999 |
| May— | | | | | | |
| Bituminous..... | | 8,324 | | | 97 | 8,421 |
| Sub-bituminous..... | | 361 | | | | 361 |
| Lignite..... | 22,521 | 18,513 | 9,445 | 28 | | 31,561 |
| Total..... | 22,521 | 27,198 | 9,445 | 28 | 97 | 40,343 |
| June— | | | | | | |
| Bituminous..... | | 8,381 | | 1 | 268 | 8,648 |
| Sub-bituminous..... | | 712 | | | | 712 |
| Lignite..... | 17,970 | 13,661 | 5,180 | 8 | | 26,443 |
| Total..... | 17,970 | 22,754 | 5,180 | 9 | 268 | 35,803 |
| July— | | | | | | |
| Anthracite..... | | | | | 214 | 7,140 |
| Bituminous..... | | 6,926 | | | | 455 |
| Sub-bituminous..... | | 455 | | | | 27,177 |
| Lignite..... | 16,347 | 16,385 | 5,501 | 54 | | |
| Total..... | 16,347 | 23,766 | 5,501 | 54 | 214 | 34,772 |
| August— | | | | | | |
| Bituminous..... | | 6,497 | | | 130 | 6,627 |
| Sub-bituminous..... | | 2,543 | | | | 2,543 |
| Lignite..... | 19,527 | 33,691 | 6,814 | 10 | | 46,394 |
| Total..... | 19,527 | 42,731 | 6,814 | 10 | 130 | 55,564 |
| September— | | | | | | |
| Anthracite..... | | | | | 120 | 14,208 |
| Bituminous..... | | 14,088 | | | | 4,811 |
| Sub-bituminous..... | | 4,811 | | | | 135,883 |
| Lignite..... | 35,130 | 112,294 | 11,145 | 396 | | |
| Total..... | 35,130 | 131,193 | 11,145 | 396 | 120 | 154,902 |
| October— | | | | | | |
| Anthracite..... | | | | | 71 | 12,020 |
| Bituminous..... | | 11,949 | | | | 4,528 |
| Sub-bituminous..... | | 4,528 | | | | 195,112 |
| Lignite..... | 84,518 | 133,775 | 22,702 | 487 | 8 | |
| Total..... | 84,518 | 150,252 | 22,702 | 487 | 79 | 211,660 |

Table 100.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments Imports and Coal made Available for Consumption in Saskatchewan by Months and by Kinds—Concluded

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Coal available for consumption |
|---------------------|----------------|-------------------------------|----------------------------|--------------|----------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | |
| November— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | | 10,784 | | 6 | | 10,778 |
| Sub-bituminous..... | | 4,947 | | | | 4,947 |
| Lignite..... | 130,998 | 156,719 | 45,925 | 177 | | 241,615 |
| Total..... | 130,998 | 172,450 | 45,925 | 183 | | 257,340 |
| December— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | | 13,000 | | 2 | 95 | 13,093 |
| Sub-bituminous..... | | 3,323 | | | | 3,323 |
| Lignite..... | 105,915 | 100,628 | 41,303 | 394 | | 164,846 |
| Total..... | 105,915 | 116,951 | 41,303 | 396 | 95 | 181,262 |
| Total— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | | 120,467 | | 9 | 1,535 | 121,993 |
| Sub-bituminous..... | | 27,215 | | | | 27,215 |
| Lignite..... | 662,836 | 822,844 | 246,036 | 2,233 | 23 | 1,237,434 |
| Total..... | 662,836 | 970,526 | 246,036 | 2,242 | 1,558 | 1,386,642 |

Table 101.—Employees, Salaries and Wages in the Coal Mines of Saskatchewan, 1930 and 1931

| | 1930 | 1931 |
|-------------------------------|-------------------|-------------------|
| Number of Salaried employees— | | |
| Male..... | 45 | 45 |
| Female..... | 5 | 8 |
| Number of Wage-earners— | | |
| Surface..... | 140 | 166 |
| Underground..... | 389 | 372 |
| Total..... | 579 | 591 |
| Salaries and wages— | | |
| Salaries..... | \$ 96,360 | \$ 105,200 |
| Wages..... | \$ 449,669 | \$ 404,432 |
| Total..... | \$ 546,029 | \$ 509,632 |

Table 102.—Employment and Earnings in the Coal Mines of Saskatchewan, 1927-1931

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|---|------------------|------------------|------------------|------------------|------------------|
| Average number of wage-earners— | | | | | |
| Surface..... | 113 | 111 | 127 | 140 | 166 |
| Underground..... | 396 | 398 | 434 | 389 | 372 |
| Total..... | 509 | 509 | 561 | 529 | 538 |
| Days' work done— | | | | | |
| Surface..... | 25,833 | 22,186 | 28,893 | 29,145 | 32,398 |
| Underground..... | 83,169 | 78,122 | 97,151 | 79,157 | 73,312 |
| Total..... | 109,002 | 100,308 | 126,044 | 108,302 | 105,710 |
| Average number of days worked per man per year— | | | | | |
| Surface..... | 228 | 199 | 227 | 208 | 195 |
| Underground..... | 210 | 196 | 224 | 203 | 197 |
| By all wage-earners..... | 214 | 197 | 225 | 205 | 196 |
| Total wages paid..... | \$482,022 | \$473,520 | \$539,391 | \$449,669 | \$404,432 |
| Average wage earned per man per day..... | \$4.42 | \$4.72 | \$4.21 | \$4.15 | \$3.83 |

Table 103.—Wage-Earners Employed, and Work Done by Months in Saskatchewan Coal Mines in 1931

| Month | Number of wage-earners | | | Days' work done | | |
|-------------------|------------------------|--------------|-------|-----------------|---------------|----------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| January..... | 167 | 505 | 672 | 2,973 | 8,986 | 11,959 |
| February..... | 156 | 457 | 613 | 2,081 | 6,355 | 8,436 |
| March..... | 152 | 393 | 545 | 2,703 | 7,238 | 9,941 |
| April..... | 126 | 255 | 381 | 1,375 | 2,905 | 4,280 |
| May..... | 105 | 216 | 321 | 1,164 | 2,416 | 3,580 |
| June..... | 111 | 184 | 295 | 960 | 1,450 | 2,410 |
| July..... | 118 | 190 | 317 | 1,054 | 1,720 | 2,774 |
| August..... | 124 | 221 | 345 | 1,311 | 2,235 | 3,546 |
| September..... | 167 | 253 | 420 | 1,826 | 2,177 | 4,003 |
| October..... | 246 | 520 | 772 | 5,343 | 10,551 | 15,894 |
| November..... | 277 | 631 | 908 | 6,688 | 14,773 | 21,461 |
| December..... | 241 | 623 | 864 | 4,920 | 12,506 | 17,426 |
| Total..... | | | | 32,398 | 73,312 | 105,710 |

Table 104.—Wage-Earners in Saskatchewan Coal Mines, by Classes, 1930 and 1931

| Classification | 1930 | | | 1931 | | |
|-----------------------------------|------------|--------------|------------|------------|--------------|------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| Administration..... | 9 | 1 | 10 | 13 | | 13 |
| Foremen and clerks..... | 17 | 2 | 19 | 20 | 1 | 21 |
| Screenmen and loaders..... | 37 | | 37 | 46 | | 46 |
| Stripping shovel..... | 3 | | 3 | 6 | | 6 |
| Officials..... | | 7 | 7 | | 14 | 14 |
| Hand cutters and helpers..... | | 224 | 224 | | 206 | 206 |
| Machine cutters..... | | 21 | 21 | | 16 | 16 |
| Machine loaders and helpers..... | | 42 | 42 | | 49 | 49 |
| Horse haulage employees..... | 6 | 40 | 46 | 5 | 36 | 41 |
| Mechanical haulage employees..... | 3 | 13 | 16 | 5 | 11 | 16 |
| Ventilation employees..... | | 1 | 1 | | | |
| Roadmakers..... | 4 | 15 | 19 | 1 | 17 | 18 |
| Timbermen..... | | 8 | 8 | | 5 | 5 |
| Pumpmen..... | | 7 | 7 | | 7 | 7 |
| Loading shovel..... | 1 | | 1 | 4 | | 4 |
| Cleaning shovel..... | | | | | | |
| Engineers..... | 10 | | 10 | 10 | | 10 |
| Firemen..... | 14 | | 14 | 12 | | 12 |
| Machinists..... | 2 | | 2 | 4 | | 4 |
| Carpenters and masons..... | 8 | | 8 | 6 | | 6 |
| Other mechanics..... | 4 | 2 | 6 | 4 | 1 | 5 |
| All other employees..... | 22 | 6 | 28 | 29 | 9 | 38 |
| Total..... | 140 | 389 | 529 | 166 | 372 | 538 |

Table 105.—Capital Employed in the Coal Mines of Saskatchewan, 1930 and 1931

| | 1930 | 1931 |
|--|------------------|------------------|
| Capital employed as represented by— | | |
| Cost of lands, buildings, machinery and tools..... | 4,113,672 | 4,318,100 |
| Cost of supplies and stock on hand..... | 120,979 | 115,508 |
| Cash, trading and operating accounts and bills receivable..... | 123,199 | 208,142 |
| Total..... | 4,357,850 | 4,641,750 |

CHAPTER NINE

ALBERTA

Alberta's production of coal in 1931 declined 20.7 per cent to 4,564,015 tons as compared with 5,755,528 tons extracted in the preceding year. Lignite coal production showed a decrease of 21.8 per cent in 1931, bituminous coal 19 per cent, and sub-bituminous coal 21.9 per cent.

Alberta mines in operation during the year produced only 58 per cent of their possible output as compared with 66 per cent in 1930 and 74 per cent in 1929. Causes other than strikes, principally lack of orders, were responsible for an estimated output loss of 3,261,722 tons in 1931. Five labour disputes took place during the year involving 510 men with a computed production loss of 12,919 tons.

Restricted purchasing power, no doubt, had a considerable effect in reducing the tonnage of coal consumed for domestic purposes during the year. Railroad consumption showed a 21.3 per cent falling off due to decreased freight movement and to improvements in the methods of using locomotive coal. Shipments of coal to Saskatchewan totalled 903,801 tons or 26.2 per cent below the 1930 total of 1,225,274 tons. Manitoba consumers received 443,107 tons of Alberta coal as against 540,895 tons in the preceding year.

Six of the principal coal producing districts accounted for 81.3 per cent of the total Alberta output, in order of production, these were: Drumheller, Crowsnest, Mountain Park, Coalspur, Edmonton, and Lethbridge. Crowsnest and Mountain Park coals are classified as bituminous; Coalspur coal as sub-bituminous, and Drumheller, Edmonton and Lethbridge coals as lignite.

The 308 mines active during the year furnished employment on the average to 8,024 wage-earners, of whom 2,089 worked on the surface and 5,935 underground. These employees received 1,374,466 man-days' work, an average of 171 days work during the year. Total wages paid in 1931 amounted to \$7,376,358 or \$919 per man.

Electricity purchased for use in the mines totalled 17,370,260 k.w.h. or 3.806 k.w.h. per ton of coal raised as compared with 21,462,560 k.w.h. or 3.729 k.w.h. per ton in 1930. Several coal conveyors were in use in the Crowsnest, Saunders, Drumheller, and Coalspur areas. Compressed air was used to operate the Crowsnest conveyors and electricity supplied the motive power for the conveyors in the other fields. There were 242 coal-cutting machines in use during 1931 of which 131 were electrically driven and 111 driven by compressed air. Approximately 140 picks operated by compressed air were in use during the year. According to the provincial department of mines 1,432,160 tons of coal were cut by the electrically operated machines and 439,502 tons by the compressed air machines.

Table 106.—Output of Coal from Alberta Mines, 1886-1931

| Calendar year | Short tons | Value | Calendar year | Short tons | Value | Calendar year | Short tons | Value |
|---------------|------------|---------|---------------|------------|------------|---------------|--------------------|--------------------|
| | | \$ | | | \$ | | | \$ |
| 1886 | 43,220 | 81,112 | 1901 | 340,275 | 850,687 | 1916 | 4,559,054 | 11,386,577 |
| 1887 | 74,152 | 157,577 | 1902 | 402,819 | 980,601 | 1917 | 4,736,368 | 14,153,685 |
| 1888 | 115,124 | 183,354 | 1903 | 495,893 | 1,117,541 | 1918 | 5,972,816 | 20,537,287 |
| 1889 | 97,364 | 179,640 | 1904 | 661,732 | 1,404,524 | 1919 | 4,833,660 | 18,205,205 |
| 1890 | 128,753 | 198,298 | 1905 | 931,917 | 1,993,915 | 1920 | 6,007,765 | 30,186,933 |
| 1891 | 174,131 | 437,243 | 1906 | 1,246,360 | 2,614,762 | 1921 | 5,909,217 | 27,246,514 |
| 1892 | 178,970 | 460,605 | 1907 | 1,591,579 | 3,836,286 | 1922 | 6,890,911 | 24,351,913 |
| 1893 | 230,070 | 586,260 | 1908 | 1,685,661 | 4,127,311 | 1923 | 6,851,397 | 28,018,303 |
| 1894 | 184,940 | 473,827 | 1909 | 1,994,741 | 4,838,109 | 1924 | 5,189,729 | 18,884,318 |
| 1895 | 169,885 | 382,526 | 1910 | 2,894,469 | 7,065,736 | 1925 | 5,869,031 | 20,021,484 |
| 1896 | 200,162 | 581,832 | 1911 | 1,511,036 | 3,979,264 | 1926 | 6,503,705 | 20,886,103 |
| 1897 | 242,163 | 630,408 | 1912 | 3,240,577 | 8,113,525 | 1927 | 6,934,162 | 21,982,058 |
| 1898 | 315,088 | 787,720 | 1913 | 4,011,755 | 10,418,941 | 1928 | 7,335,330 | 23,532,414 |
| 1899 | 309,600 | 774,000 | 1914 | 3,683,015 | 9,350,392 | 1929 | 7,150,633 | 22,928,182 |
| 1900 | 311,450 | 778,625 | 1915 | 3,360,818 | 8,283,079 | 1930 | 5,755,528 | 18,063,225 |
| | | | | | | 1931 | 4,564,015 | 13,342,075 |
| | | | | | | Total | 126,007,100 | 409,374,576 |

*For the years 1916-1931 the tonnage shown is the total output from all mines; for previous years the figures given include only sales, colliery consumption and coal used by the operators.

Table 107.—Output of Coal from Alberta Mines, by Months, 1927-1931

(Short tons)

| Month | 1927 | 1928 | 1929 | 1930 | 1931 |
|--------------|------------------|------------------|------------------|------------------|------------------|
| January | 697,240 | 917,625 | 705,142 | 791,019 | 471,591 |
| February | 621,845 | 635,095 | 768,832 | 448,488 | 330,502 |
| March | 466,154 | 618,116 | 571,968 | 400,098 | 387,512 |
| April | 464,732 | 450,696 | 567,903 | 270,679 | 273,615 |
| May | 459,626 | 356,688 | 523,766 | 300,745 | 276,571 |
| June | 461,019 | 436,472 | 494,375 | 355,055 | 236,010 |
| July | 448,607 | 514,405 | 482,380 | 322,281 | 267,268 |
| August | 485,420 | 618,806 | 481,966 | 399,708 | 261,616 |
| September | 514,645 | 546,279 | 550,492 | 559,071 | 423,541 |
| October | 610,898 | 736,686 | 960,039 | 776,172 | 502,641 |
| November | 783,882 | 782,469 | 655,554 | 589,131 | 617,716 |
| December | 909,994 | 723,083 | 682,576 | 543,081 | 509,432 |
| Total | 6,934,162 | 7,336,330 | 7,159,693 | 5,755,528 | 4,564,015 |

Table 108.—Output of Coal by Districts in Alberta, 1929-1931

(Short tons)

| District | 1929 | 1930 | 1931 |
|-----------------------------|------------------|------------------|------------------|
| BITUMINOUS— | | | |
| Cascade | 299,432 | 212,653 | 166,297 |
| Crowsnest | 1,553,716 | 1,133,891 | 951,948 |
| Mountain Park | 993,414 | 726,777 | 580,846 |
| Nordegg | 247,585 | 204,846 | 167,215 |
| Total bituminous | 3,094,147 | 2,278,167 | 1,846,306 |
| SUB-BITUMINOUS— | | | |
| Coalspur | 566,477 | 515,306 | 398,021 |
| Pekisko | 4,495 | 4,240 | 873 |
| Pincher | 1,871 | 2,320 | 2,414 |
| Prairie Creek | 6,771 | 15,425 | 35,523 |
| Saunders | 89,088 | 66,067 | 34,512 |
| Total sub-bituminous | 668,702 | 603,358 | 471,343 |
| LIGNITE— | | | |
| Ardley | 3,297 | 2,994 | 10,609 |
| Big Valley | 4,564 | 4,473 | 3,340 |
| Brooks | 6,035 | 7,984 | 4,908 |
| Camrose | 41,125 | 35,415 | 41,235 |
| Carbon | 111,312 | 91,018 | 85,831 |
| Castor | 31,203 | 24,662 | 24,319 |
| Champion | 10,659 | 12,511 | 12,113 |
| Drumheller | 1,576,301 | 1,432,873 | 1,070,710 |
| Edmonton | 477,605 | 417,262 | 370,657 |
| Gleichen | 2,847 | 3,057 | 3,106 |
| Halcourt | 522 | 418 | 1,702 |
| Lethbridge | 731,205 | 545,265 | 358,749 |
| Magrath | 912 | 971 | 1,750 |
| Milk River | 868 | 1,362 | 3,854 |
| Pakowski | 1,746 | 2,101 | 1,602 |
| Pembina | 162,333 | 119,973 | 92,850 |
| Redcliff | 27,256 | 25,181 | 25,120 |
| Rochester | | 140 | 225 |
| Saxsmith | | | 34 |
| Sherwood | 20,218 | 21,683 | 19,684 |
| Taber | 22,139 | 12,293 | 11,856 |
| Tofield | 155,079 | 111,932 | 101,843 |
| Wetaskiwin | 18 | 105 | 175 |
| Whitecourt | | | 25 |
| Total lignite | 3,387,844 | 2,873,703 | 2,246,366 |
| Total Alberta | 7,159,693 | 5,755,528 | 4,564,015 |

Table 109.—Output of Coal by Principal Collieries in Alberta, 1929-1931
(Average of 500 tons or more per month)

(Short tons)

| Name and address | 1929 | 1930 | 1931 |
|---|-----------|-----------|-----------|
| Bituminous | | | |
| CASCADE DISTRICT— | | | |
| Canmore Coal Co., Ltd., Canmore..... | 298,724 | 212,053 | 105,358 |
| All other operators..... | 708 | 900 | 909 |
| Total..... | 299,432 | 212,953 | 166,297 |
| CROWSNEST DISTRICT— | | | |
| Cartwright & Thomson (formerly Sunburst Coal Co.), Blairmore..... | 6,276 | 1,930 | |
| Hillcrest Collieries, Ltd., Hillcrest..... | 232,002 | 187,804 | 163,331 |
| Byron Creek Collieries, Ltd. (Hillcrest Collieries, Ltd.), Hillcrest..... | 9,626 | 23,920 | 25,853 |
| International Coal and Coke Co., Ltd., Coleman..... | 293,288 | 205,157 | 158,440 |
| McGillivray Creek Coal and Coke Co., Ltd., Coleman..... | 297,957 | 228,976 | 185,114 |
| Mohawk Bituminous Mines, Ltd., Bellevue..... | 84,325 | 61,862 | 83,179 |
| West Canadian Collieries, Ltd., Blairmore..... | 625,448 | 419,164 | 331,980 |
| All other operators..... | 4,794 | 5,078 | 4,051 |
| Total..... | 1,553,716 | 1,133,891 | 951,948 |
| MOUNTAIN PARK DISTRICT— | | | |
| Cadomin Coal Co., Ltd., Cadomin (mine office); Edmonton (business office)... | 498,885 | 401,553 | 304,874 |
| Luscar Collieries, Ltd., Edmonton..... | 291,919 | 169,083 | 122,545 |
| Mountain Park Collieries, Ltd., 410 Tegler Bldg., Edmonton..... | 202,610 | 156,141 | 133,237 |
| All other operators..... | | | 390 |
| Total..... | 993,414 | 726,777 | 560,846 |
| NORDEGG DISTRICT— | | | |
| Brazeau Collieries Ltd., Nordegg..... | 247,585 | 204,846 | 167,215 |
| Total..... | 247,585 | 204,846 | 167,215 |
| Total bituminous..... | 3,094,147 | 2,278,467 | 1,846,306 |
| Sub-Bituminous | | | |
| COALSPUR DISTRICT— | | | |
| Bryan Coal Co., Ltd., Adams Bldg., Edmonton..... | 31,507 | 21,517 | 13,424 |
| Coal Valley Mining Co., Ltd., Coal Valley..... | 177,438 | 170,414 | 163,174 |
| Confederation Coal Co., Ltd., Lovett..... | 1,404 | | |
| Foothills Collieries, Ltd., Foothills..... | 83,226 | 69,048 | 43,895 |
| Lakeside Coal Ltd., Edmonton..... | 40,251 | 39,468 | 29,699 |
| McLeod River Collieries (formerly Saunders Ridge Coal Co., Ltd.), Mercoal... | 79,642 | 65,193 | 27,127 |
| Sterling Collieries Ltd., Edmonton..... | 142,126 | 133,733 | 117,076 |
| Newcastle Jr Mining Co. (formerly Superba Coal Co., Ltd.), Lovett..... | 10,683 | 13,716 | 1,881 |
| Val D'Or Collieries Ltd., Reco..... | | 2,217 | 1,745 |
| Total..... | 566,477 | 515,306 | 398,021 |
| PEKISKO DISTRICT..... | | | |
| | 4,495 | 4,240 | 873 |
| PINCHER DISTRICT..... | | | |
| | 1,871 | 2,320 | 2,414 |
| PRAIRIE CREEK DISTRICT— | | | |
| Hinton Collieries, Ltd. (formerly Alberta Mountain Collieries, Ltd.), Hinton... | 790 | 510 | 17,463 |
| Jasper Coal Co., Ltd., Edmonton..... | 5,987 | 14,915 | 18,060 |
| Total..... | 6,771 | 15,425 | 35,523 |
| SAUNDERS DISTRICT— | | | |
| Alexo Coal Co., Ltd., Alexo..... | 45,846 | 30,441 | 18,462 |
| Bighorn and Saunders Creek Collieries, Ltd., Saunders..... | 43,242 | 35,629 | 16,050 |
| Total..... | 89,088 | 66,067 | 34,512 |
| Total sub-bituminous..... | 668,702 | 603,358 | 471,343 |
| Lignite | | | |
| ARDLEY DISTRICT— | | | |
| Super Heat Coal Co. (formerly Carbondale Coals, Ltd.), Ardley..... | 889 | 21 | 6,176 |
| All other operators..... | 2,408 | 2,973 | 4,433 |
| Total..... | 3,297 | 2,994 | 10,609 |
| BIG VALLEY DISTRICT— | | | |
| Watson & Ross (formerly Big Valley Power and Mining Co., Ltd.), Big Valley... | 2,430 | 2,517 | 2,173 |
| All other operators..... | 2,134 | 1,956 | 1,167 |
| Total..... | 4,564 | 4,473 | 3,340 |

Table 109.—Output of Coal by Principal Collieries in Alberta, 1929-1931
(Average of 500 tons or more per month)—Continued

(Short tons)

| Name and address | 1929 | 1930 | 1931 |
|--|-----------|-----------|-----------|
| Lignite—Continued | | | |
| BROOKS DISTRICT— | | | |
| Kleebirn Collieries Ltd., Eyremore..... | 6,635 | 7,984 | 4,908 |
| Total..... | 6,635 | 7,984 | 4,908 |
| CAMROSE DISTRICT— | | | |
| Canadian Dinant Coal Co., Dinant..... | 28,620 | 25,632 | 28,091 |
| Stoney Creek Collieries, Ltd., Camrose..... | 9,719 | 7,450 | 7,279 |
| All other operators..... | 2,786 | 2,363 | 5,865 |
| Total..... | 41,125 | 35,445 | 41,235 |
| CARBON DISTRICT— | | | |
| Bulogh Coal Co., Ltd., Carbon..... | 2,665 | 5,488 | 7,498 |
| Canadian Dinant Coal Co., Three Hills..... | 15,844 | 10,309 | 14,593 |
| Oliphant, J. H., Carbon..... | 11,177 | 6,354 | 8,801 |
| Palisade Coal Mining Co., Ltd., Three Hills..... | 7,760 | 8,428 | 1,850 |
| Peerless Carbon Collieries, Ltd., Carbon..... | 63,315 | 51,809 | 45,815 |
| All other operators..... | 10,551 | 8,630 | 7,274 |
| Total..... | 111,312 | 91,018 | 85,831 |
| CASTOR DISTRICT..... | | | |
| | 31,203 | 24,662 | 24,319 |
| CHAMPION DISTRICT..... | | | |
| | 10,659 | 12,511 | 12,113 |
| DRUMHELLER DISTRICT— | | | |
| Arcadia Coal Co., Ltd., East Coulee..... | 9,069 | 9,736 | 7,166 |
| Aetna Coal Co., Ltd., Drumheller..... | 1,900 | 17,053 | 37,142 |
| Alberta Block Coal Co., Ltd., Drumheller..... | 37,323 | 49,371 | 20,759 |
| Atlas Coal Co., Ltd., East Coulee..... | 104,226 | 120,113 | 85,680 |
| Drumheller Consolidated Collieries Ltd., Calgary..... | 26,129 | 23,381 | 1,850 |
| Elgin Coal Co., Ltd., Drumheller..... | 62,155 | 28,200 | 13,962 |
| Empire Collieries Ltd. (formerly Albion Coal Co., Ltd.), East Coulee..... | 8,511 | 40,993 | 47,600 |
| Excelsior Collieries, Ltd., Wayne..... | 20,571 | 17,277 | 19,992 |
| Great West Coal Co., Ltd. (Star Mine), Aerial..... | 71,414 | 47,239 | 54,702 |
| Hy-Grade Coal Co., Drumheller..... | 119,331 | 77,255 | 60,515 |
| Ideal Coal Co., Ltd., Wayne..... | 69,956 | 63,453 | 31,300 |
| Jewel Collieries, Ltd., Wayne..... | 77,828 | 91,031 | 64,234 |
| Maple Leaf Minerals Ltd., Drumheller..... | 8,279 | 27,273 | 37,906 |
| Midland Coal Mining Co., Ltd., Midlandvale..... | 295,795 | 157,852 | 120,137 |
| Murray Collieries, Ltd., Drumheller..... | 52,095 | 75,573 | 47,869 |
| Newcastle Coal Co., Ltd., Drumheller..... | 102,400 | 83,958 | 50,099 |
| Newcastle Junior Mining Co., Ltd., Drumheller..... | 58,947 | 11,313 | 1,129 |
| Rosedale Coal Co., Ltd., Rosedale..... | 151,410 | 133,559 | 72,066 |
| Rose Deer Coal Mining Co., Ltd., Wayne..... | 81,555 | 82,910 | 57,693 |
| Sovereign Coal Mining Co., Ltd., Wayne..... | 31,624 | 40,250 | 36,048 |
| Superior Grade Coal Co., Ltd., Wayne..... | 11,157 | 12,425 | 19,105 |
| Thomas, J. D., Coal Co., Drumheller..... | 123,350 | 90,395 | 73,190 |
| Triangle Coal Co., Drumheller..... | 2,996 | 6,895 | 1,472 |
| Western Gem Coal Co., Ltd., Drumheller..... | 129,163 | 117,211 | 93,415 |
| All other operators..... | 9,117 | 8,157 | 7,579 |
| Total..... | 1,576,301 | 1,432,873 | 1,070,710 |
| EDMONTON DISTRICT— | | | |
| Bush Mines, Ltd., Edmonton..... | 12,643 | 23,622 | 25,175 |
| Cardiff Coal Co., Cardiff..... | 5,049 | | |
| Dawson Coal Co., Ltd., 7 McDougall Court, Edmonton..... | 19,774 | 16,490 | 14,732 |
| Fridel Red Hot Coal Co., Edmonton..... | 3,012 | 2,511 | 3,718 |
| Fraser-Mackay Collieries, Ltd., 10655 101st., Edmonton..... | 57,895 | 60,883 | 47,458 |
| Gibb, W. E., Edmonton..... | 10,777 | 13,185 | 21,467 |
| Great West Coal Co., Ltd. (Black Diamond Mine), Edmonton..... | 99,137 | 85,974 | 70,552 |
| Keith and Fulton Coal Co., Edmonton..... | 4,422 | 3,135 | 2,034 |
| McDonnell & Gwilliam, Nanaimo..... | 1,873 | 3,675 | 6,847 |
| Mercus Coal Mines, Ltd., Edmonton..... | 57,571 | 57,206 | 56,692 |
| Ottewell Coal Co., Clover Bar..... | 17,008 | 16,131 | 16,267 |
| Penn. Mines Ltd. (Mine 147), Edmonton..... | 119,670 | 28,636 | |
| Penn. Mines Ltd. (Mine 632), Edmonton..... | 8,200 | 25,188 | |
| Penn. Coals Ltd. (formerly Sturgeon Valley Collieries Ltd.), Edmonton..... | 20,603 | 43,610 | 61,057 |
| Premier Coal Co., Ltd., Edmonton..... | 11,862 | 10,465 | 8,004 |
| Parker, L. (formerly Sun Coal Co., Ltd.), Cardiff..... | 6,284 | 4,610 | 6,346 |
| Sinofski, M., Strathcona..... | 6,137 | 5,802 | 6,107 |
| All other operators..... | 15,688 | 16,139 | 24,201 |
| Total..... | 477,605 | 417,262 | 370,657 |

Table 109.—Output of Coal by Principal Collieries in Alberta, 1929-1931
(Average of 500 tons or more per month)—Continued

(Short tons)

| Name and address | 1929 | 1930 | 1931 |
|---|---------|---------|---------|
| Lignite—Continued | | | |
| GLEICHEN DISTRICT..... | 2,847 | 3,057 | 3,186 |
| HALCOURT DISTRICT..... | 522 | 418 | 1,702 |
| LETHBRIDGE DISTRICT— | | | |
| Canadian Pacific Railway Co., Dept. of Natural Resources, Calgary..... | 369,344 | 264,295 | 161,985 |
| City of Lethbridge Coal Mines, Lethbridge..... | 12,078 | 12,546 | 15,135 |
| Consolidated Diamond Collieries, Ltd., Diamond City..... | 4,650 | 179 | ..... |
| Cadillac Coal Co., Ltd., Lethbridge..... | 46,595 | 72,560 | 72,245 |
| Coal Producers, Ltd., Calgary..... | 285,056 | 182,930 | 90,430 |
| Royal Lethbridge Collieries, Lethbridge..... | 4,533 | 5,848 | 6,137 |
| All other operators..... | 8,949 | 6,907 | 12,817 |
| Total..... | 731,205 | 545,265 | 358,749 |
| MAGRATH DISTRICT..... | 912 | 971 | 1,750 |
| MILK RIVER DISTRICT..... | 868 | 1,362 | 3,854 |
| PAKOWKI DISTRICT..... | 1,746 | 2,101 | 1,002 |
| PEMBINA DISTRICT— | | | |
| Lakeside Coals Ltd., Edmonton..... | 46,679 | 35,722 | 29,461 |
| Coal Producers, Ltd., Calgary..... | 115,546 | 84,146 | 63,321 |
| All other operators..... | 108 | 105 | 77 |
| Total..... | 162,333 | 119,973 | 92,859 |
| REDCLIFF DISTRICT— | | | |
| Oliphant, John (formerly Ajax Coal Co., Ltd.), Medicine Hat..... | 13,620 | 9,821 | 11,674 |
| Redcliff Brick and Coal Co., Ltd., Redcliff..... | 13,636 | 15,360 | 13,434 |
| All other operators..... | ..... | ..... | 12 |
| Total..... | 27,256 | 25,181 | 25,120 |
| ROCHESTER DISTRICT..... | ..... | 140 | 225 |
| SEXSMITH DISTRICT..... | ..... | ..... | 34 |
| SHEERNESS DISTRICT— | | | |
| Anderson, W. J., Sheerness..... | 2,570 | 6,045 | 4,601 |
| Warneboldt, Julius, Sheerness..... | 4,695 | 4,051 | 5,847 |
| All other operators..... | 12,953 | 11,587 | 9,236 |
| Total..... | 20,218 | 21,683 | 19,684 |
| TABER DISTRICT— | | | |
| Majestic Mines, Ltd., Taber..... | 11,794 | ..... | ..... |
| Oliver, E., Taber..... | 777 | 3,119 | 2,959 |
| All other operators..... | 9,568 | 9,174 | 8,897 |
| Total..... | 22,139 | 12,293 | 11,856 |
| TOFIELD DISTRICT— | | | |
| Dobell Coal Co., Ltd., Tofield (Mine 340 consolidated with Tofield Coal Co's mine, Jan. 31, 1930)..... | 10,173 | 603 | ..... |
| Tofield Coal Co., Ltd., Tofield..... | 138,799 | 107,084 | 96,889 |
| All other operators..... | 6,107 | 3,645 | 4,954 |
| Total..... | 155,079 | 111,932 | 101,843 |

Table 109.—Output of Coal by Principal Collieries in Alberta, 1929-1931
(Average of 500 tons or more per month)—Concluded

(Short tons)

| Name and address | 1929 | 1930 | 1931 |
|---------------------------|------------------|------------------|------------------|
| Lignite—Concluded | | | |
| WETASKIWIN DISTRICT..... | 18 | 105 | 175 |
| WHITECOURT DISTRICT..... | | | 25 |
| Total lignite..... | 3,387,844 | 2,873,703 | 2,246,366 |
| Total Alberta..... | 7,150,693 | 5,755,528 | 4,564,015 |

Table 110.—Tonnage Lost in Alberta Coal Mines, Showing by Districts the Relative Percentage Produced and Lost, with an Analysis of the Percentage Lost, 1930 and 1931

| District | Per cent produced | | Per cent lost | | Percentage lost through | | | | | | | | | |
|---------------------------|-------------------|-----------|---------------|-----------|-------------------------|------------|----------------|-------------|--------------|------|-----------------|------------|--------------|------------|
| | | | | | Absenteeism | | Lack of orders | | Car shortage | | Mine disability | | Other causes | |
| | 1930 | 1931 | 1930 | 1931 | 1930 | 1931 | 1930 | 1931 | 1930 | 1931 | 1930 | 1931 | 1930 | 1931 |
| BITUMINOUS— | | | | | | | | | | | | | | |
| Brûlé..... | | | | | | | | | | | | | | 0.2 |
| Cascade..... | 67 | 57 | 33 | 43 | 3.0 | 2.8 | 30.0 | 40.0 | | | | | | |
| Clearwater..... | | | | | | | | | | | | | | |
| Crowsnest..... | 63 | 56 | 37 | 44 | 0.0 | | 37.0 | 43.7 | | | | | | 0.3 |
| Highwood..... | | | | | | | | | | | | | | |
| Mountain Park..... | 77 | 72 | 23 | 28 | 0.2 | 0.1 | 18.9 | 27.7 | 2.7 | | 0.7 | | 0.5 | 0.2 |
| Nordegg..... | 64 | 62 | 36 | 38 | | | 36.0 | 38.0 | | | | | | |
| Old Man..... | | | | | | | | | | | | | | |
| Panther..... | | | | | | | | | | | | | | |
| Smoky River..... | | | | | | | | | | | | | | |
| Total bituminous..... | 67 | 61 | 33 | 39 | 0.4 | 0.2 | 31.5 | 38.6 | 0.8 | | 0.2 | | 0.1 | 0.2 |
| Sub-BITUMINOUS— | | | | | | | | | | | | | | |
| Coalspur..... | 78 | 74 | 22 | 26 | 0.1 | 0.2 | 18.6 | 24.3 | 0.4 | | 2.1 | 1.3 | 0.8 | 0.2 |
| Morley..... | | | | | | | | | | | | | | |
| Pekisko..... | 70 | 41 | 30 | 59 | | | 21.0 | 59.0 | | | 2.0 | | 7.0 | |
| Pincher..... | 59 | 52 | 41 | 48 | | | 39.4 | 46.3 | | | | | 1.6 | 1.7 |
| Prairie Creek..... | 66 | 60 | 34 | 40 | | 0.1 | 26.6 | 39.6 | | | 6.5 | 0.3 | 0.9 | |
| Saunders..... | 57 | 33 | 43 | 67 | | | 42.5 | 66.7 | | | | | 0.5 | 0.3 |
| Total sub-bituminous..... | 74 | 67 | 26 | 33 | 0.2 | 0.1 | 22.5 | 31.7 | 0.4 | | 2.0 | 1.0 | 0.9 | 0.2 |
| LIGNITE— | | | | | | | | | | | | | | |
| Ardley..... | 55 | 67 | 45 | 33 | | | 26.7 | 32.6 | | | | | 18.3 | 0.4 |
| Big Valley..... | 61 | 45 | 39 | 55 | | | 28.2 | 54.5 | | | 1.5 | 0.5 | 9.3 | |
| Brooks..... | 82 | 92 | 18 | 8 | | | 14.3 | 8.0 | | | | | 3.7 | |
| Camrose..... | 53 | 59 | 47 | 41 | | | 44.5 | 41.0 | 0.2 | | | | 2.3 | |
| Carbon..... | 54 | 49 | 46 | 51 | | | 44.0 | 51.0 | | | 0.2 | | 1.8 | |
| Castor..... | 59 | 61 | 41 | 39 | 0.5 | 0.2 | 30.5 | 38.8 | | | | | 10.0 | |
| Clumpton..... | 69 | 63 | 31 | 37 | | | 22.3 | 37.0 | | | | | 8.7 | |
| Drumheller..... | 61 | 52 | 39 | 48 | | | 37.6 | 47.5 | | | 0.2 | 0.2 | 1.2 | 0.3 |
| Edmonton..... | 72 | 69 | 28 | 31 | 1.0 | 1.2 | 25.3 | 29.8 | | | 0.2 | | 1.5 | |
| Empress..... | | | | | | | | | | | | | | |
| Gleichen..... | 76 | 74 | 24 | 26 | | | 23.2 | 24.3 | | | | | 0.8 | 1.7 |
| Halecourt..... | 46 | 63 | 54 | 27 | | | 47.8 | 27.0 | | | | | 6.2 | |
| Lethbridge..... | 66 | 47 | 34 | 53 | 0.7 | 0.1 | 33.0 | 52.2 | | | | | 0.3 | 0.7 |
| Magrath..... | 72 | 71 | 28 | 29 | | 0.2 | 21.1 | 19.4 | | | | 0.6 | 6.9 | 8.8 |
| Milk River..... | 57 | 62 | 43 | 38 | | | 35.5 | 38.0 | | | | | 7.5 | |
| Pakan..... | | | | | | | | | | | | | | |
| Pakowki..... | 53 | 49 | 47 | 52 | | | 32.8 | 52.0 | | | | | 14.2 | |
| Penbina..... | 70 | 62 | 30 | 38 | | | 30.0 | 38.0 | | | | | | |
| Redcliff..... | 63 | 55 | 37 | 45 | | | 35.0 | 43.3 | | | 2.0 | 1.6 | | 0.1 |
| Rochester..... | | 53 | | 47 | | | | 47.0 | | | | | | |
| Saxsmith..... | | 58 | | 42 | | | | 42.0 | | | | | | |
| Sheerness..... | 60 | 57 | 40 | 43 | 4.7 | 2.5 | 28.3 | 38.7 | | | 3.9 | | 3.1 | 1.8 |
| Slave Lake..... | | | | | | | | | | | | | | |
| Stevenville..... | | | | | | | | | | | | | | |
| Taber..... | 82 | 47 | 38 | 53 | | 1.1 | 33.6 | 47.6 | | | 0.2 | 1.3 | 4.2 | 3.0 |
| Tofield..... | 81 | 87 | 19 | 13 | | | 14.0 | 13.0 | | | | | 5.0 | |
| Wainwright..... | | 33 | | 67 | | | | 67.0 | | | | | | |
| Wetaskiwin..... | 33 | 56 | | 44 | | | | 44.0 | | | | | | |
| Whitecourt..... | | | | | | | | | | | | | | |
| Total lignite..... | 64 | 55 | 36 | 45 | 0.3 | 0.2 | 34.1 | 44.3 | | | 0.1 | 0.2 | 1.5 | 0.3 |
| Total Alberta..... | 66 | 58 | 34 | 42 | 0.2 | 0.3 | 32.2 | 41.2 | 0.3 | | 0.3 | 0.2 | 1.0 | 0.3 |

Table 111.—Total Disposition of Coal from Alberta Mines by Grades, 1930 and 1931

(Short tons)

| | 1930 | | 1931 | | | | Total | |
|--|------------------|-------------------|------------------|------------------|----------------------|----------------|------------------|-------------------|
| | Total | | Run-of-mine | Lump | Nut and other grades | Slack | Total | |
| | Quantity | Value | | | | | Quantity | Value |
| Supplied to employees for domestic consumption | 40,326 | 120,997 | 13,638 | 15,094 | 3,005 | 51 | 32,688 | 88,201 |
| Coal shipped as per Table 115 | 5,379,121 | 17,009,626 | 1,907,576 | 1,221,701 | 507,260 | 506,871 | 4,233,408 | 12,821,581 |
| Used under colliery boilers | 229,389 | 430,161 | 96,965 | 3,060 | 5,615 | 89,380 | 193,026 | 377,448 |
| Used by companies' railroads | 7,722 | 17,956 | 6,122 | | 507 | 50 | 6,679 | 15,365 |
| Used in making coke at colliery | | | | | | | | |
| Used in making briquettes | 22,272 | 83,522 | | | | 14,123 | 14,123 | 52,962 |
| Put on bank | 41,576 | 137,870 | 10,257 | 8,761 | 3,401 | 9,095 | 31,514 | 92,353 |
| Put on waste heap | 97,447 | | | | | | 89,453 | |
| Total disposition | 5,868,853 | 18,200,132 | 2,124,558 | 1,249,522 | 519,788 | 619,570 | 4,602,983 | 13,447,910 |
| Lifted from bank | 53,323 | 156,907 | 13,330 | 9,238 | 3,533 | 12,777 | 34,878 | 105,235 |
| Total output | 5,755,528 | 18,063,225 | 2,111,228 | 1,240,284 | 516,255 | 606,793 | 4,564,015 | 13,342,675 |

Table 112.—Disposition of Bituminous Coal from Alberta Mines, 1930 and 1931

(Short tons)

| | 1930 | | 1931 | | | | Total | |
|--|------------------|------------------|------------------|---------------|----------------------|----------------|------------------|------------------|
| | Total | | Run-of-mine | Lump | Nut and other grades | Slack | Total | |
| | Quantity | Value | | | | | Quantity | Value |
| Supplied to employees for domestic consumption | 16,073 | 45,873 | 11,305 | 3,163 | | 43 | 14,511 | 38,417 |
| Coal shipped as per Table 116 | 2,125,150 | 7,537,640 | 1,540,614 | 16,103 | 7,287 | 160,572 | 1,724,576 | 5,913,622 |
| Used under colliery boilers | 83,109 | 293,708 | 81,611 | | | | 81,611 | 252,292 |
| Used by companies' railroads | 1,010 | 3,704 | 1,065 | | | | 1,065 | 3,679 |
| Used in making coke at colliery | | | | | | | | |
| Used in making briquettes | 22,272 | 83,522 | | | | 14,123 | 14,123 | 52,962 |
| Put on bank | 17,878 | 65,153 | 9,721 | | | | 9,721 | 35,416 |
| Put on waste heap | 18,510 | | | | | | 13,552 | |
| Total disposition | 2,294,002 | 8,029,600 | 1,644,316 | 19,266 | 7,287 | 174,738 | 1,859,159 | 6,296,088 |
| Lifted from bank | 15,535 | 58,199 | 12,430 | | 20 | 397 | 12,853 | 46,309 |
| Total output | 2,278,467 | 7,971,401 | 1,631,889 | 19,266 | 7,267 | 174,341 | 1,846,306 | 6,249,770 |

Table 113.—Disposition of Sub-Bituminous Coal from Alberta Mines, by Grades, 1930 and 1931

(Short tons)

| | 1930 | | 1931 | | | | Total | |
|--|----------------|------------------|----------------|---------------|----------------------|---------------|----------------|------------------|
| | Total | | Run-of-mine | Lump | Nut and other grades | Slack | Total | |
| | Quantity | Value | | | | | Quantity | Value |
| Supplied to employees for domestic consumption | 1,584 | 5,224 | 676 | 493 | 403 | | 1,632 | 5,266 |
| Coal shipped as per Table 117 | 518,826 | 1,649,038 | 218,889 | 87,943 | 42,488 | 31,149 | 380,469 | 1,144,531 |
| Used under colliery boilers | 30,421 | 32,131 | 14,978 | 68 | 508 | 14,593 | 30,147 | 49,209 |
| Used by companies' railroads | 5,544 | 11,116 | 4,460 | | | | 4,460 | 8,920 |
| Put on bank | 1,478 | 4,456 | 394 | 997 | 736 | 1,543 | 3,670 | 11,029 |
| Put on waste heap | 48,183 | | | | | | 55,204 | |
| Total disposition | 606,039 | 1,712,965 | 239,397 | 89,501 | 44,195 | 47,285 | 475,582 | 1,218,955 |
| Lifted from bank | 2,681 | 7,729 | 743 | 733 | 575 | 2,188 | 4,239 | 7,758 |
| Total output | 603,358 | 1,785,236 | 238,654 | 88,768 | 43,620 | 45,097 | 471,343 | 1,211,197 |

Table 114.—Disposition of Lignite Coal from Alberta Mines, 1930 and 1931

(Short tons)

| | 1930 | | 1931 | | | | Total | |
|---|------------------|------------------|----------------|------------------|----------------------|----------------|------------------|------------------|
| | Total | | Run-of-mine | Lump | Nut and other grades | Slack | Quantity | Value |
| | Quantity | Value | | | | | | |
| | | \$ | | | | | | \$ |
| Supplied to employees for domestic consumption..... | 22,669 | 69,909 | 1,657 | 12,338 | 2,542 | 8 | 16,545 | 44,818 |
| Coal shipped as per Table 118 | 2,735,145 | 8,231,948 | 238,073 | 1,117,655 | 457,485 | 315,150 | 1,128,363 | 5,763,428 |
| Used under colliery boilers..... | 96,856 | 84,322 | 376 | 2,998 | 5,107 | 74,787 | 83,268 | 75,947 |
| Used by companies' railroads | 1,168 | 5,136 | 587 | ..... | 507 | 50 | 1,151 | 2,766 |
| Put on bank..... | 22,220 | 69,261 | 142 | 7,764 | 2,965 | 7,552 | 18,123 | 45,908 |
| Put on waste heap..... | 30,754 | ..... | ..... | ..... | ..... | ..... | 20,699 | ..... |
| Total disposition..... | 2,968,812 | 8,457,567 | 240,845 | 1,140,755 | 468,306 | 397,547 | 2,268,152 | 5,932,867 |
| Lifted from bank..... | 35,109 | 70,979 | 151 | 8,505 | 2,938 | 10,192 | 21,786 | 51,168 |
| Total output..... | 2,873,763 | 8,386,588 | 240,694 | 1,132,250 | 465,368 | 387,355 | 2,246,366 | 5,881,699 |

Table 115.—Total Shipments of Coal from Alberta Mines, by Grades and Destination, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | | 1931 | | | | |
|--------------------|------------------|------------------|----------------------|----------------|------------------|------------------|------------------|----------------------|----------------|------------------|
| | Run-of-mine | Lump | Nut and other grades | Slack | Total | Run-of-mine | Lump | Nut and other grades | Slack | Total |
| Alberta..... | 243,079 | 462,467 | 245,668 | 237,605 | 1,191,819 | 195,619 | 377,150 | 218,557 | 197,018 | 988,344 |
| Saskatchewan..... | 91,200 | 793,490 | 189,767 | 150,808 | 1,225,274 | 96,532 | 515,683 | 152,300 | 139,190 | 903,801 |
| British Columbia | 5,433 | 127,986 | 59,542 | 33,980 | 226,941 | 4,798 | 84,920 | 46,192 | 35,925 | 171,835 |
| Manitoba..... | 64,770 | 316,094 | 89,396 | 70,635 | 540,895 | 77,422 | 205,768 | 63,778 | 96,139 | 443,107 |
| Ontario..... | 307 | 26,022 | 3,755 | 133 | 30,217 | 190 | 22,127 | 4,266 | 167 | 26,750 |
| Quebec..... | ..... | 32 | ..... | ..... | 32 | ..... | 67 | 33 | ..... | 100 |
| United States..... | 2,198 | 6,835 | 20,706 | 14,496 | 44,235 | 539 | 6,245 | 14,130 | 9,715 | 30,629 |
| Railroads..... | 2,064,766 | 11,259 | 6,891 | 36,772 | 2,119,708 | 1,622,476 | 9,741 | 7,914 | 28,711 | 1,668,942 |
| Total..... | 2,471,782 | 1,744,185 | 618,725 | 544,429 | 5,379,121 | 1,997,576 | 1,221,701 | 507,260 | 506,871 | 4,233,408 |

Table 116.—Shipments of Bituminous Coal from Alberta Mines, by Grades and Destination, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | | 1931 | | | | |
|--------------------|------------------|---------------|----------------------|----------------|------------------|------------------|---------------|----------------------|----------------|------------------|
| | Run-of-mine | Lump | Nut and other grades | Slack | Total | Run-of-mine | Lump | Nut and other grades | Slack | Total |
| Alberta..... | 72,187 | 2,381 | 1,052 | 13,096 | 88,716 | 52,276 | 2,287 | 1,287 | 11,322 | 67,172 |
| Saskatchewan..... | 37,994 | 10,634 | 1,702 | 11,613 | 61,943 | 25,760 | 5,348 | 1,082 | 21,552 | 53,742 |
| British Columbia | 3,436 | 3,583 | 1,043 | 33,535 | 41,597 | 4,101 | 1,958 | 610 | 34,920 | 41,549 |
| Manitoba..... | 40,932 | 2,689 | ..... | 32,508 | 76,129 | 47,021 | 3,592 | 3,442 | 65,187 | 119,212 |
| Ontario..... | ..... | ..... | 33 | ..... | 33 | 157 | ..... | 31 | ..... | 143 |
| United States..... | 2,165 | 2,721 | 168 | 13,677 | 18,731 | 539 | 810 | 189 | 8,958 | 10,565 |
| Railroads..... | 1,825,734 | 34 | 20 | 12,213 | 1,838,001 | 1,410,700 | 2,099 | 640 | 18,490 | 1,431,995 |
| Total..... | 1,982,448 | 22,042 | 3,965 | 116,675 | 2,125,150 | 1,549,614 | 16,103 | 7,287 | 169,572 | 1,721,576 |

Table 117.—Shipments of Sub-Bituminous Coal from Alberta Mines, by Grades and Destination, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | | 1931 | | | | |
|-----------------------|----------------|----------------|----------------------|---------------|----------------|----------------|---------------|----------------------|---------------|----------------|
| | Run-of-mine | Lump | Nut and other grades | Slack | Total | Run-of-mine | Lump | Nut and other grades | Slack | Total |
| Alberta..... | 18,454 | 14,673 | 5,327 | 5,167 | 43,621 | 4,424 | 10,036 | 5,596 | 4,539 | 24,595 |
| Saskatchewan..... | 1,411 | 36,507 | 11,937 | 11,878 | 61,733 | 1,389 | 12,083 | 10,168 | 3,575 | 27,215 |
| British Columbia..... | 788 | 34,338 | 16,639 | 31 | 51,796 | 373 | 25,386 | 11,870 | 74 | 37,703 |
| Manitoba..... | 126 | 47,026 | 10,036 | 16,843 | 74,031 | 954 | 27,344 | 7,212 | 12,740 | 48,250 |
| Ontario..... | | 5,616 | 62 | 61 | 5,739 | 33 | 5,385 | 374 | | 5,792 |
| United States..... | 33 | 111 | 33 | | 177 | | | | | |
| Railroads..... | 239,052 | 11,225 | 6,871 | 24,559 | 281,707 | 211,716 | 7,642 | 7,268 | 10,221 | 236,847 |
| Quebec..... | | 32 | | | 32 | | 67 | | | 67 |
| Total..... | 259,864 | 149,518 | 50,905 | 58,539 | 518,826 | 218,889 | 87,943 | 42,488 | 31,149 | 350,469 |

Table 118.—Shipments of Lignite Coal from Alberta Mines by Grades and Destination, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | | 1931 | | | | |
|-----------------------|----------------|------------------|----------------------|----------------|------------------|----------------|------------------|----------------------|----------------|------------------|
| | Run-of-mine | Lump | Nut and other grades | Slack | Total | Run-of-mine | Lump | Nut and other grades | Slack | Total |
| Alberta..... | 152,438 | 445,413 | 242,289 | 219,342 | 1,059,482 | 138,919 | 304,827 | 211,674 | 181,157 | 896,577 |
| Saskatchewan..... | 51,804 | 746,349 | 176,128 | 127,317 | 1,101,598 | 69,383 | 498,252 | 141,140 | 114,069 | 822,844 |
| British Columbia..... | 1,209 | 90,065 | 41,860 | 414 | 133,548 | 324 | 57,576 | 33,712 | 931 | 92,543 |
| Manitoba..... | 23,712 | 266,379 | 79,360 | 21,284 | 390,735 | 29,447 | 174,832 | 53,124 | 18,212 | 275,615 |
| Ontario..... | 307 | 20,416 | 3,663 | 39 | 24,435 | | 16,742 | 3,861 | 24 | 20,627 |
| Quebec..... | | | | | | | | 33 | | 33 |
| United States..... | | 4,003 | 20,505 | 819 | 25,327 | | 5,426 | 13,941 | 757 | 20,124 |
| Railroads..... | | | | | | | | | | |
| Total..... | 229,479 | 1,572,625 | 563,835 | 369,215 | 2,735,145 | 238,073 | 1,117,655 | 457,485 | 315,159 | 2,128,363 |

Table 119.—Exports of Canadian Coal through Alberta Ports, 1927-1931

(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|------------|------------|--------------|--------------|--------------|
| Lethbridge..... | 585 | 843 | 1,060 | 1,321 | 1,191 |
| Total..... | 585 | 843 | 1,060 | 1,321 | 1,191 |

Table 120.—Imports into Alberta of Anthracite and Bituminous Coal by Ports of Entry, 1930 and 1931

(Short tons)

| Port | Source | 1930 | | | | | 1931 | | | | |
|-------------------|-----------------|----------------|------|-------|-----------------------|--------------|----------------|------|-------|-----------------------|------------|
| | | Anthracite | | | Bituminous all grades | Total | Anthracite | | | Bituminous all grades | Total |
| | | Egg, nut, etc. | Dust | Total | | | Egg, nut, etc. | Dust | Total | | |
| Calgary..... | U.S..... | | | | 315 | 315 | | | | 229 | 229 |
| Edmonton..... | U.S..... | | | | 890 | 890 | | | | 641 | 641 |
| Lethbridge..... | U.S..... | | | | 46 | 46 | | | | 9 | 9 |
| Medicine Hat..... | U.S..... | | | | 100 | 100 | | | | 33 | 33 |
| Total..... | U.S..... | | | | 1,351 | 1,351 | | | | 912 | 912 |

Table 121.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Alberta by Months and by Kinds

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Coal available for consumption |
|----------------------|------------------|-------------------------------|----------------------------|--------------|----------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | |
| January— | | | | | | |
| Bituminous | 164,873 | 1,241 | 27,879 | 61 | 48 | 138,222 |
| Sub-bituminous | 52,860 | | 15,661 | | | 37,199 |
| Lignite | 253,858 | | 150,511 | 69 | | 103,278 |
| Total | 471,591 | 1,241 | 194,051 | 130 | 48 | 278,609 |
| February— | | | | | | |
| Bituminous | 149,215 | 611 | 19,242 | | 216 | 130,800 |
| Sub-bituminous | 34,493 | | 7,393 | | | 27,100 |
| Lignite | 152,794 | 33 | 82,018 | 32 | | 70,776 |
| Total | 336,502 | 644 | 108,654 | 32 | 216 | 228,676 |
| March— | | | | | | |
| Bituminous | 166,557 | 2,703 | 22,407 | | 38 | 146,891 |
| Sub-bituminous | 27,979 | | 5,434 | | | 22,545 |
| Lignite | 192,976 | | 96,437 | 61 | | 96,478 |
| Total | 387,512 | 2,703 | 124,278 | 61 | 38 | 265,914 |
| April— | | | | | | |
| Bituminous | 160,480 | 3,981 | 16,382 | | 113 | 148,192 |
| Sub-bituminous | 21,705 | | 1,660 | | | 20,045 |
| Lignite | 91,430 | | 38,578 | 63 | | 52,789 |
| Total | 273,615 | 3,981 | 56,620 | 63 | 113 | 221,026 |
| May— | | | | | | |
| Bituminous | 173,797 | 5,236 | 14,739 | | | 164,294 |
| Sub-bituminous | 33,312 | | 1,158 | | | 32,154 |
| Lignite | 69,462 | | 24,931 | 33 | | 44,498 |
| Total | 276,571 | 5,236 | 40,828 | 33 | | 240,946 |
| June— | | | | | | |
| Bituminous | 168,066 | 4,221 | 10,901 | 1 | 119 | 161,504 |
| Sub-bituminous | 18,622 | | 2,057 | | | 16,565 |
| Lignite | 49,322 | | 18,346 | | | 30,976 |
| Total | 236,010 | 4,221 | 31,304 | 1 | 119 | 209,045 |
| July— | | | | | | |
| Bituminous | 167,426 | 3,423 | 9,911 | | 113 | 161,051 |
| Sub-bituminous | 43,876 | | 3,448 | | | 40,428 |
| Lignite | 55,966 | | 22,854 | | | 33,112 |
| Total | 267,268 | 3,423 | 36,213 | | 113 | 234,591 |
| August— | | | | | | |
| Bituminous | 124,473 | 3,648 | 10,491 | 2 | 116 | 117,744 |
| Sub-bituminous | 43,220 | | 8,162 | | | 35,058 |
| Lignite | 93,023 | | 46,809 | 65 | | 47,049 |
| Total | 261,616 | 3,648 | 65,462 | 67 | 116 | 199,851 |
| September— | | | | | | |
| Bituminous | 115,438 | 4,108 | 15,886 | | 112 | 103,772 |
| Sub-bituminous | 41,281 | | 16,936 | | | 24,345 |
| Lignite | 266,822 | | 157,079 | 123 | | 109,020 |
| Total | 423,541 | 4,108 | 189,901 | 123 | 112 | 237,737 |
| October— | | | | | | |
| Bituminous | 126,527 | 2,898 | 14,359 | | 37 | 115,103 |
| Sub-bituminous | 43,270 | | 18,631 | | | 24,639 |
| Lignite | 332,844 | | 193,510 | 335 | | 138,999 |
| Total | 502,641 | 2,898 | 226,500 | 335 | 37 | 278,741 |
| November— | | | | | | |
| Bituminous | 162,117 | 915 | 20,839 | 94 | | 142,099 |
| Sub-bituminous | 57,143 | | 21,154 | | | 36,990 |
| Lignite | 398,456 | | 226,986 | 91 | | 171,379 |
| Total | 617,716 | 915 | 208,978 | 185 | | 349,468 |
| December— | | | | | | |
| Bituminous | 167,337 | 1,262 | 31,868 | 72 | | 136,659 |
| Sub-bituminous | 53,582 | | 17,334 | | | 36,248 |
| Lignite | 288,513 | | 153,602 | 89 | | 134,822 |
| Total | 509,432 | 1,262 | 202,804 | 161 | | 307,729 |
| Total— | | | | | | |
| Bituminous | 1,846,306 | 34,247 | 214,904 | 230 | 912 | 1,666,331 |
| Sub-bituminous | 471,343 | | 119,027 | | | 352,316 |
| Lignite | 2,246,366 | 33 | 1,211,662 | 961 | | 1,033,776 |
| Total | 4,564,015 | 34,280 | 1,545,593 | 1,191 | 912 | 3,052,423 |

Table 122.—Employees, Salaries and Wages, in the Coal Mines of Alberta, by Districts, 1930

| District | Average number of employees | | | | Salaries and wages | | | |
|---------------------------|-----------------------------|-----------|--------------|--------------|--------------------|------------------|-------------------|-------------------|
| | Salaried employees | | Wage-earners | | Total | Salaries | Wages | Total |
| | Male | Female | Surface | Under-ground | | | | |
| BITUMINOUS— | | | | | | \$ | \$ | \$ |
| Cascade..... | 22 | 1 | 84 | 245 | 352 | 65,243 | 441,901 | 507,144 |
| Crowsnest..... | 158 | 6 | 469 | 1,435 | 2,068 | 379,830 | 2,035,824 | 2,415,654 |
| Mountain Park..... | 53 | 7 | 245 | 555 | 860 | 161,655 | 1,188,282 | 1,349,937 |
| Nordegg..... | 18 | 1 | 92 | 225 | 336 | 46,101 | 374,567 | 420,668 |
| Total bituminous..... | 251 | 15 | 890 | 2,460 | 3,616 | 652,829 | 4,040,574 | 4,693,403 |
| SUB-BITUMINOUS— | | | | | | | | |
| Coalspur..... | 40 | 3 | 269 | 260 | 572 | 126,942 | 787,129 | 914,071 |
| Morley..... | | | 3 | 9 | 12 | | 5,702 | 5,702 |
| Pekisko..... | | | 2 | 5 | 7 | | 4,220 | 1,220 |
| Pincher..... | | | 16 | 27 | 49 | 10,812 | 60,428 | 71,240 |
| Prairie Creek..... | 6 | | 35 | 95 | 140 | 24,453 | 185,167 | 209,620 |
| Saunders..... | 10 | | | | | | | |
| Total sub-bituminous..... | 56 | 3 | 325 | 396 | 780 | 162,207 | 1,042,646 | 1,204,853 |
| LIGNITE— | | | | | | | | |
| Ardley..... | | | 2 | 8 | 10 | | 3,270 | 3,270 |
| Big Valley..... | | | 1 | 9 | 10 | | 3,912 | 3,912 |
| Brooks..... | 2 | | 3 | 10 | 15 | 3,600 | 17,190 | 20,790 |
| Camrose..... | 6 | | 12 | 39 | 57 | 13,800 | 42,749 | 56,549 |
| Carbon..... | 11 | | 34 | 137 | 182 | 20,981 | 130,082 | 151,063 |
| Castor..... | 2 | | 9 | 47 | 58 | 700 | 25,455 | 26,155 |
| Clampion..... | | | 3 | 22 | 25 | | 19,756 | 19,756 |
| Drumheller..... | 126 | 7 | 414 | 1,728 | 2,275 | 332,640 | 2,493,680 | 2,826,326 |
| Edmonton..... | 40 | 4 | 117 | 497 | 638 | 74,616 | 540,451 | 615,067 |
| Gleichen..... | | | 1 | 6 | 7 | | 5,749 | 5,749 |
| Halcourt..... | | | | 2 | 2 | | 1,417 | 1,417 |
| Lothbridge..... | 46 | 6 | 305 | 1,016 | 1,373 | 106,122 | 1,351,497 | 1,457,619 |
| Magrath..... | | | 1 | 2 | 3 | | 1,920 | 1,920 |
| Milk River..... | 1 | | | 4 | 5 | 1,300 | 3,676 | 4,976 |
| Pakowki..... | | | | 5 | 5 | | 3,494 | 3,494 |
| Pembina..... | 11 | | 50 | 97 | 158 | 24,854 | 167,523 | 192,377 |
| Redcliff..... | 2 | | 7 | 32 | 41 | 4,400 | 34,123 | 38,523 |
| Rochester..... | | | | 1 | 1 | | 420 | 420 |
| Sexsmith..... | | | | | | | | |
| Sheerness..... | | | 14 | 24 | 38 | | 20,396 | 20,396 |
| Slave Lake..... | | | | | | | | |
| Staveville..... | | | | | | | | |
| Taber..... | | | 6 | 24 | 30 | | 17,128 | 17,128 |
| Tofield..... | 5 | | 85 | 3 | 93 | 10,611 | 90,739 | 110,350 |
| Wainwright..... | | | | | | | | |
| Wetaskiwin..... | | | | 1 | 1 | | 262 | 262 |
| Whitescourt..... | | | | | | | | |
| Total lignite..... | 252 | 17 | 1,064 | 3,714 | 5,047 | 593,024 | 4,983,895 | 5,577,519 |
| Total Alberta..... | 558 | 35 | 2,279 | 6,570 | 9,443 | 1,408,660 | 10,067,115 | 11,475,775 |

Table 123.—Employees, Salaries and Wages in the Coal Mines of Alberta by Districts, 1931

| District | Average number of employees | | | | Salaries and wages | | | |
|----------------------------------|-----------------------------|-----------|--------------|--------------|--------------------|------------------|------------------|------------------|
| | Salaried employees | | Wage-earners | | Total | Salaries | Wages | Total |
| | Male | Female | Surface | Under-ground | | \$ | \$ | \$ |
| BITUMINOUS— | | | | | | | | |
| Cascade..... | 21 | 1 | 86 | 229 | 337 | 62,270 | 329,414 | 391,684 |
| Crowsnest..... | 134 | 6 | 439 | 1,284 | 1,863 | 339,088 | 1,536,264 | 1,875,352 |
| Mountain Park..... | 52 | 8 | 199 | 501 | 760 | 162,358 | 923,181 | 1,085,539 |
| Nordegg..... | 19 | 1 | 91 | 200 | 311 | 46,297 | 294,847 | 341,144 |
| Total bituminous..... | 226 | 16 | 815 | 2,214 | 3,271 | 610,013 | 3,083,706 | 3,693,719 |
| SUB-BITUMINOUS— | | | | | | | | |
| Coalspur..... | 30 | 3 | 246 | 188 | 467 | 93,051 | 553,670 | 646,721 |
| Morley..... | | | 2 | 4 | 6 | | 1,690 | 1,690 |
| Pekisko..... | | | 3 | 8 | 11 | | 4,928 | 4,928 |
| Pincher..... | | | 29 | 56 | 91 | 13,562 | 99,186 | 112,748 |
| Prairie Creek..... | 6 | | 26 | 77 | 115 | 26,758 | 94,770 | 121,528 |
| Saunders..... | 12 | | | | | | | |
| Total sub-bituminous..... | 48 | 3 | 306 | 333 | 690 | 133,371 | 754,244 | 887,615 |
| LIGNITE— | | | | | | | | |
| Ardley..... | | | 7 | 18 | 25 | | 13,001 | 13,001 |
| Big Valley..... | | | 2 | 8 | 10 | | 4,077 | 4,077 |
| Brooks..... | 1 | | 2 | 6 | 9 | 3,600 | 8,608 | 12,208 |
| Carouse..... | 6 | | 15 | 43 | 64 | 13,098 | 44,074 | 57,172 |
| Carbon..... | 8 | | 33 | 144 | 185 | 13,195 | 112,653 | 125,848 |
| Castor..... | 1 | | 8 | 49 | 58 | 324 | 24,852 | 25,176 |
| Champion..... | | | 3 | 32 | 35 | | 22,024 | 22,024 |
| Drumheller..... | 116 | 8 | 347 | 1,507 | 1,978 | 260,877 | 1,737,556 | 1,998,432 |
| Edmonton..... | 57 | 6 | 103 | 448 | 614 | 84,325 | 463,334 | 547,659 |
| Gleichen..... | | | 2 | 6 | 8 | | 4,455 | 4,455 |
| Halcourt..... | | | 6 | 6 | 12 | | 2,507 | 2,507 |
| Lethbridge..... | 44 | 6 | 283 | 922 | 1,255 | 102,043 | 810,864 | 912,907 |
| Magrath..... | | | 3 | 5 | 8 | | 1,585 | 1,585 |
| Milk River..... | | | 5 | 8 | 13 | | 6,529 | 6,529 |
| Pakowki..... | | | 1 | 5 | 6 | | 2,739 | 2,739 |
| Pembina..... | 13 | 2 | 43 | 86 | 114 | 22,669 | 118,628 | 141,297 |
| Redcliff..... | 2 | | 8 | 35 | 45 | 3,808 | 28,497 | 32,305 |
| Rochester..... | | | | 1 | 1 | | 460 | 460 |
| Sexsmith..... | | | | 27 | 23 | 50 | 80 | 80 |
| Sheerness..... | | | | | | | 20,708 | 20,708 |
| Slave Lake..... | | | | | | | | |
| Staveville..... | | | | | | | 16,290 | 16,290 |
| Taber..... | | | 12 | 29 | 41 | | 94,728 | 105,990 |
| Tofield..... | 6 | | 64 | 5 | 75 | 11,262 | | |
| Wainwright..... | | | | | | | 150 | 150 |
| Wetaskiwin..... | | | | 2 | 2 | | 50 | 50 |
| Whitecourt..... | | | | | | | | |
| Total lignite..... | 254 | 22 | 968 | 3,388 | 4,632 | 515,261 | 3,538,408 | 4,053,669 |
| Total Alberta..... | 528 | 41 | 2,089 | 4,935 | 8,593 | 1,258,645 | 7,376,358 | 8,635,003 |

Table 124.—Employment and Earnings in the Coal Mines of Alberta, 1927-1931

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|--|----------------------|----------------------|----------------------|----------------------|---------------------|
| Average number of wage-earners— | | | | | |
| Surface..... | 2,304 | 2,371 | 2,442 | 2,278 | 2,089 |
| Underground..... | 6,628 | 6,909 | 7,085 | 6,570 | 5,935 |
| Total..... | 8,932 | 9,280 | 9,534 | 8,849 | 8,024 |
| Days' work done— | | | | | |
| Surface..... | 617,267 | 644,152 | 638,771 | 540,522 | 445,753 |
| Underground..... | 1,563,658 | 1,614,013 | 1,570,369 | 1,233,052 | 928,713 |
| Total..... | 2,182,925 | 2,258,165 | 2,209,140 | 1,773,574 | 1,374,466 |
| Average number of days worked per man per year— | | | | | |
| Surface..... | 268 | 272 | 261 | 237 | 213 |
| Underground..... | 236 | 234 | 222 | 187 | 156 |
| By all wage-earners..... | 241 | 243 | 232 | 200 | 171 |
| Total wages paid..... | \$ 12,166,397 | \$ 13,089,846 | \$ 13,128,467 | \$ 10,067,115 | \$ 7,376,358 |
| Average wage earned per man per day..... | \$ 5.57 | \$ 5.79 | \$ 5.94 | \$ 5.68 | \$ 5.35 |

Table 125.—Wage-Earners Employed, and Work Done by Months in the Coal Mines Alberta in 1931

| Month | Number of wage-earners | | | Days' work done | | |
|-------------------|------------------------|--------------|--------|-----------------|----------------|------------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| January..... | 2,552 | 8,328 | 10,880 | 43,391 | 98,843 | 142,234 |
| February..... | 2,264 | 6,971 | 9,235 | 36,434 | 67,301 | 103,735 |
| March..... | 2,084 | 6,080 | 8,164 | 34,880 | 78,633 | 113,513 |
| April..... | 1,831 | 4,927 | 6,758 | 29,504 | 55,791 | 85,295 |
| May..... | 1,892 | 4,349 | 6,241 | 32,227 | 50,989 | 83,216 |
| June..... | 1,657 | 3,894 | 5,551 | 27,755 | 48,162 | 75,917 |
| July..... | 1,782 | 3,891 | 5,673 | 32,376 | 50,080 | 82,456 |
| August..... | 1,821 | 4,500 | 6,321 | 31,818 | 51,174 | 82,992 |
| September..... | 2,109 | 6,336 | 8,445 | 40,587 | 93,920 | 134,507 |
| October..... | 2,226 | 6,932 | 9,158 | 44,591 | 106,088 | 150,679 |
| November..... | 2,459 | 7,506 | 9,965 | 47,460 | 125,105 | 172,565 |
| December..... | 2,389 | 7,504 | 9,893 | 44,750 | 102,633 | 147,383 |
| Total..... | | | | 445,753 | 923,713 | 1,374,466 |

Table 126.—Number of Man-Days' Work Done by Districts in Alberta Coal Mines, 1930 and 1931

| District | 1930 | | | 1931 | | |
|---------------------------|----------------|------------------|------------------|----------------|----------------|------------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| BITUMINOUS— | | | | | | |
| Brole..... | | | | | | |
| Cascade..... | 23,186 | 44,477 | 67,663 | 19,741 | 35,152 | 54,893 |
| Crowsnest..... | 109,672 | 256,591 | 366,263 | 91,812 | 205,031 | 297,743 |
| Mountain Park..... | 62,205 | 127,742 | 189,947 | 50,972 | 100,444 | 151,416 |
| Nordegg..... | 25,218 | 38,459 | 63,677 | 24,424 | 30,134 | 54,558 |
| Total bituminous..... | 220,281 | 467,269 | 687,550 | 186,949 | 371,661 | 558,610 |
| SUB-BITUMINOUS— | | | | | | |
| Coalspur..... | 69,595 | 54,544 | 124,139 | 62,995 | 25,845 | 88,840 |
| Norley..... | | | | | | |
| Pekisko..... | 490 | 1,817 | 2,307 | 249 | 506 | 755 |
| Pincher..... | 427 | 937 | 1,364 | 446 | 1,257 | 1,703 |
| Prairie Creek..... | 3,578 | 5,408 | 8,986 | 6,028 | 10,874 | 16,902 |
| Saunders..... | 6,633 | 17,618 | 24,251 | 3,094 | 7,003 | 10,097 |
| Total sub-bituminous..... | 80,729 | 80,324 | 161,053 | 72,812 | 46,085 | 118,897 |
| LIGNITE— | | | | | | |
| Ardley..... | 409 | 1,215 | 1,624 | 1,233 | 3,632 | 4,865 |
| Big Valley..... | 217 | 1,605 | 1,822 | 220 | 1,128 | 1,348 |
| Brooks..... | 744 | 2,614 | 3,358 | 600 | 1,621 | 2,221 |
| Camrose..... | 2,327 | 7,320 | 9,647 | 3,076 | 8,437 | 11,513 |
| Carbon..... | 5,883 | 23,325 | 29,208 | 5,145 | 21,182 | 26,327 |
| Castor..... | 1,663 | 8,016 | 9,679 | 1,602 | 8,427 | 10,029 |
| Champion..... | 772 | 4,305 | 5,077 | 846 | 5,677 | 6,523 |
| Drumheller..... | 80,108 | 310,166 | 389,274 | 62,522 | 227,597 | 290,119 |
| Edmonton..... | 26,540 | 107,345 | 133,885 | 24,285 | 91,455 | 115,740 |
| Gleichen..... | 396 | 1,270 | 1,666 | 409 | 1,380 | 1,789 |
| Halcourt..... | 33 | 239 | 272 | 48 | 1,238 | 1,286 |
| Lethbridge..... | 72,255 | 180,721 | 252,976 | 51,473 | 105,757 | 157,230 |
| Magrath..... | 164 | 468 | 632 | 436 | 1,159 | 1,595 |
| Milk River..... | 65 | 693 | 758 | 860 | 1,204 | 2,073 |
| Pakowki..... | 75 | 764 | 839 | 173 | 782 | 955 |
| Penbina..... | 11,416 | 19,201 | 30,617 | 9,327 | 14,540 | 23,867 |
| Recliff..... | 1,465 | 6,711 | 8,176 | 1,368 | 6,048 | 7,416 |
| Rochester..... | 60 | 80 | 140 | 32 | 96 | 128 |
| Sexsmith..... | | | | | 30 | 30 |
| Sheerness..... | 2,465 | 4,378 | 6,843 | 3,322 | 4,051 | 7,373 |
| Slave Lake..... | | | | | | |
| Stevenville..... | | | | | | |
| Taber..... | 1,010 | 4,126 | 5,136 | 1,313 | 4,365 | 5,678 |
| Tofield..... | 22,433 | 809 | 23,242 | 17,004 | 903 | 18,007 |
| Wainwright..... | | | | | | |
| Wetaskiwin..... | 12 | 88 | 100 | 14 | 170 | 184 |
| Whitecourt..... | | | | 15 | 28 | 43 |
| Total lignite..... | 239,512 | 685,459 | 924,971 | 185,992 | 510,967 | 696,959 |
| Total Alberta..... | 540,522 | 1,233,052 | 1,773,574 | 445,753 | 923,713 | 1,374,466 |

Table 127.—Wage-Earners Employed in Alberta Coal Mines, by Classes, 1930 and 1931

| Classification | 1930 | | | 1931 | | |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| Administration..... | 86 | 8 | 94 | 81 | 8 | 89 |
| Foremen and clerks..... | 215 | 5 | 220 | 210 | 4 | 214 |
| Screenmen and loaders..... | 689 | 42 | 731 | 688 | ..... | 688 |
| Officials..... | 7 | 319 | 326 | 8 | 333 | 341 |
| Hand cutters and helpers..... | ..... | 2,140 | 2,140 | ..... | 1,867 | 1,867 |
| Machine cutters..... | ..... | 429 | 429 | ..... | 363 | 363 |
| Machine loaders and helpers..... | ..... | 1,733 | 1,733 | ..... | 1,683 | 1,683 |
| Horse haulage employees..... | 19 | 583 | 602 | 20 | 490 | 510 |
| Mechanical haulage employees..... | 59 | 314 | 373 | 49 | 291 | 340 |
| Ventilation employees..... | 2 | 80 | 82 | 2 | 77 | 79 |
| Roadmakers..... | 5 | 173 | 183 | 5 | 145 | 150 |
| Timbermen..... | ..... | 265 | 265 | ..... | 244 | 244 |
| Pumpmen..... | 2 | 44 | 46 | 2 | 39 | 41 |
| Chute loaders..... | ..... | ..... | ..... | ..... | 135 | 135 |
| Enginemen..... | 161 | ..... | 161 | 155 | ..... | 155 |
| Firemen..... | 113 | ..... | 113 | 103 | ..... | 103 |
| Machinists..... | 79 | 7 | 83 | 64 | 6 | 70 |
| Carpenters and masons..... | 65 | 1 | 66 | 47 | 1 | 48 |
| Other mechanics..... | 98 | 8 | 106 | 85 | 5 | 90 |
| All other employees..... | 682 | 414 | 1,096 | 570 | 244 | 814 |
| Total..... | 2,279 | 6,570 | 8,849 | 2,688 | 5,935 | 8,024 |

Table 128.—Capital Employed in the Coal Mines of Alberta, 1930 and 1931

| | 1930 | 1931 |
|--|-------------------|-------------------|
| | \$ | \$ |
| Capital employed as represented by— | | |
| Cost of lands, buildings, machinery and tools..... | 45,452,048 | 41,137,728 |
| Cost of supplies and stock on hand..... | 1,070,620 | 1,360,120 |
| Cash, trading and operating accounts and bills receivable..... | 7,444,514 | 6,421,881 |
| Total..... | 53,967,182 | 48,919,729 |

CHAPTER TEN

BRITISH COLUMBIA

Production from British Columbia coal mines declined to the lowest point on record since 1904. Output during the year amounted to 1,876,406 tons or 10 per cent below the 1930 total of 2,083,818 tons. Despite this decline in production in 1931, the British Columbia Bureau of Mines points out that there are indications of a slowing-up in the annual rate of coal output decline and it would seem that British Columbia collieries are not continuing to lose business to imported fuels as fast as formerly.

Collieries in operation during the year produced 67 per cent of their possible output as compared with 73 per cent in 1930 and 81 per cent in 1929. Of the 33 per cent, or 943,225 tons lost during recognized operating periods in 1931, lack of orders accounted for 32.5 per cent.

Crow's Nest Pass production declined slightly in 1931. The Federal Government subvention on coal moving east has assisted the mines in this district in gaining industrial business in Winnipeg, thereby offsetting the decrease in consumption in local markets. Inland district production recorded a small increase through new business in the Vancouver market which made up for the decline in sales for railroad use. A material falling off was shown in the Island mines output due in the main part to general business conditions and to fuel oil competition.

British Columbia coal shipped from the mines for consumption within the province totalled 665,761 tons or 13.8 per cent below the 1930 total of 772,468 tons. Railroads consumed 552,691 tons of British Columbia coal, a 16.7 per cent decline from the 1930 total of 663,576 tons. In 1931, railway consumption accounted for 36.9 per cent of the British Columbia mine shipments as compared with 37.1 per cent in 1930 and 44.8 per cent in 1929. The remainder of the coal shipped was consigned to Alberta, Saskatchewan, Manitoba, Ontario, the United States, Alaska and for ships' bunkers. In connection with these shipments it should be noted that a slight advance was recorded in the quantity of coal shipped to Saskatchewan and a substantial increase in the tonnages entering the Manitoba market. During the year, 57,562 tons of coal were shipped from British Columbia mines to Manitoba as against 11,419 tons in the previous year and 1,155 tons in 1929.

The average number of wage-earners employed in the operation of the British Columbia coal mines was 3,890; these men worked 847,773 man-days during the year or an average of 218 days per man. In the preceding year, 4,363 employees were engaged in coal mining for 1,011,490 man-days. Total wages paid in 1931 amounted to \$4,190,880 as compared with \$5,097,632 in 1930.

Forty-six compressed air mining machines and one electric machine were used during 1931 by the British Columbia mines to produce 322,787 tons of coal or 17.2 per cent of the total tonnage extracted.

The British Columbia Bureau of Mines reviewed the coal mining situation within the province at the end of 1931, as follows:—

“Many factors are now aiding coal, the full effects of which have not yet materialized. The Dominion government subventions and bonuses; the campaign of the British Columbia government, the British Columbia Coal Committee and the operators, to show that British Columbia coal is the safest and most efficient fuel, are all assisting. The discount on Canadian money is helping the sale of British Columbia coal in the United States, as it largely offsets the duty.”

Table 129.—Output of Coal from British Columbia Mines, 1836-1931

(Short tons)

| Calendar year | Output | Value | Calendar year | Output | Value | Calendar year | Output | Value |
|----------------|---------|-----------|---------------|-----------|-----------|-------------------|-------------------|--------------------|
| | | \$ | | | \$ | | | \$ |
| 1836-1866..... | 214,410 | 765,748 | 1888..... | 539,467 | 1,445,001 | 1910..... | 3,330,745 | 10,408,580 |
| 1867..... | 34,988 | 124,956 | 1889..... | 636,439 | 1,704,747 | 1911..... | 2,542,532 | 7,945,413 |
| 1868..... | 49,286 | 176,020 | 1890..... | 767,586 | 2,056,035 | 1912..... | 3,208,997 | 10,028,116 |
| 1869..... | 40,098 | 143,208 | 1891..... | 1,130,227 | 3,027,528 | 1913..... | 2,714,420 | 8,482,562 |
| 1870..... | 33,424 | 119,372 | 1892..... | 967,218 | 2,510,400 | 1914..... | 2,239,799 | 6,999,374 |
| 1871..... | | | 1893..... | 1,093,980 | 2,930,304 | 1915..... | 2,065,613 | 6,455,041 |
| 1872..... | 166,274 | 593,836 | 1894..... | 1,112,628 | 2,980,254 | 1916..... | 2,584,061 | 8,075,190 |
| 1873..... | | | 1895..... | 1,058,045 | 2,834,049 | 1917..... | 2,433,888 | 8,235,716 |
| 1874..... | 90,788 | 243,183 | 1896..... | 1,003,769 | 2,688,696 | 1918..... | 2,568,589 | 11,494,681 |
| 1875..... | 109,361 | 292,932 | 1897..... | 1,013,390 | 2,730,510 | *1919..... | 2,649,516 | 13,512,532 |
| 1876..... | 157,007 | 420,555 | 1898..... | 1,263,680 | 3,384,858 | *1920..... | 3,095,011 | 18,105,814 |
| 1877..... | 156,455 | 419,076 | 1899..... | 1,431,101 | 3,833,307 | *1921..... | 2,890,291 | 15,676,774 |
| 1878..... | 213,750 | 572,544 | 1900..... | 1,791,833 | 4,799,553 | *1922..... | 2,927,033 | 14,022,317 |
| 1879..... | 260,277 | 697,170 | 1901..... | 1,919,488 | 5,141,487 | *1923..... | 2,823,306 | 13,813,520 |
| 1880..... | 305,045 | 817,086 | 1902..... | 1,808,441 | 4,844,040 | *1924..... | 2,193,067 | 10,601,098 |
| 1881..... | 257,050 | 688,542 | 1903..... | 1,676,581 | 4,490,844 | *1925..... | 2,742,252 | 11,720,373 |
| 1882..... | 323,201 | 865,716 | 1904..... | 1,862,425 | 4,989,174 | *1926..... | 2,613,719 | 10,612,915 |
| 1883..... | 240,075 | 643,059 | 1905..... | 1,945,452 | 5,211,030 | *1927..... | 2,746,243 | 10,934,777 |
| 1884..... | 441,130 | 1,181,598 | 1906..... | 2,146,262 | 5,748,915 | *1928..... | 2,804,594 | 11,094,353 |
| 1885..... | 372,987 | 999,072 | 1907..... | 2,364,898 | 7,390,306 | *1929..... | 2,400,378 | 10,160,789 |
| 1886..... | 375,415 | 1,005,576 | 1908..... | 2,333,708 | 7,292,838 | *1930..... | 2,083,818 | 8,421,572 |
| 1887..... | 486,142 | 1,302,165 | 1909..... | 2,606,127 | 8,144,147 | *1931..... | 1,876,406 | 7,150,996 |
| | | | | | | Total..... | 94,400,992 | 336,802,816 |

* The tonnage shown for 1919-1931 inclusive, is the total output from all mines; for previous years the figures given include only sales, colliery consumption and coal used by operators.

Table 130.—Output of Coal from British Columbia Mines, by Months, 1927-1931

(Short tons)

| Month | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|------------------|------------------|------------------|------------------|------------------|
| January..... | 229,301 | 256,937 | 233,706 | 207,324 | 166,369 |
| February..... | 223,383 | 251,461 | 225,926 | 199,079 | 146,485 |
| March..... | 242,874 | 248,262 | 214,432 | 175,394 | 153,241 |
| April..... | 215,969 | 214,264 | 220,641 | 161,136 | 135,976 |
| May..... | 212,785 | 225,458 | 211,637 | 157,604 | 131,775 |
| June..... | 252,809 | 251,128 | 210,820 | 213,322 | 194,382 |
| July..... | 199,219 | 199,309 | 169,489 | 137,616 | 138,318 |
| August..... | 211,611 | 228,565 | 184,783 | 136,085 | 137,886 |
| September..... | 216,962 | 211,577 | 198,420 | 169,540 | 145,079 |
| October..... | 220,277 | 243,852 | 212,934 | 182,110 | 163,423 |
| November..... | 248,330 | 244,984 | 202,645 | 169,530 | 171,791 |
| December..... | 283,723 | 228,797 | 204,945 | 182,578 | 191,681 |
| Total..... | 2,746,243 | 2,804,694 | 2,490,378 | 2,083,818 | 1,876,406 |

Table 131.—Output of Coal by Districts in British Columbia, 1927-1931

(Short tons)

| District | 1927 | 1928 | 1929 | 1930 | 1931 |
|-----------------------|------------------|------------------|------------------|------------------|------------------|
| Crow's Nest Pass..... | 1,015,669 | 1,097,390 | 962,552 | 738,370 | 707,277 |
| Inland..... | 240,726 | 277,464 | 273,054 | 237,978 | 238,354 |
| Island..... | 1,489,848 | 1,429,740 | 1,254,772 | 1,107,470 | 930,775 |
| Total..... | 2,746,243 | 2,804,594 | 2,490,378 | 2,083,818 | 1,876,406 |

Table 132.—Output of Coal by Principal Collieries in British Columbia, 1929-1931
(Average of 500 tons or over per month)

(Short tons)

| Name | Address | 1929 | 1930 | 1931 |
|--|----------------|------------------|------------------|------------------|
| Crow's Nest Pass District— | | | | |
| Corbin Collieries, Ltd..... | Corbin..... | 157,892 | 205,447 | 254,547 |
| Crow's Nest Pass Coal Co., Ltd..... | Fernie..... | 804,660 | 532,923 | 452,730 |
| Total..... | | 962,552 | 738,370 | 707,277 |
| INLAND DISTRICT— | | | | |
| Coalmont Collieries, Ltd..... | Coalmont..... | 167,721 | 116,485 | 111,789 |
| Blue Flame Colliery (formerly Lynden Coal Mines Ltd.)..... | Princeton..... | 5,530 | 12,248 | 13,037 |
| Middlesboro Collieries, Ltd..... | Merritt..... | 48,578 | 40,681 | 32,198 |
| Pleasant Valley Mining Co., Ltd..... | Princeton..... | 5,874 | 21,663 | 14,112 |
| Tulameen Coal Mines, Ltd..... | Princeton..... | 41,773 | 45,765 | 64,571 |
| All other operators..... | | 3,578 | 1,136 | 2,547 |
| Total..... | | 273,054 | 237,978 | 238,354 |
| ISLAND DISTRICT— | | | | |
| Canadian Collieries (Dunsmuir) Ltd..... | Nanaimo..... | 469,973 | 508,576 | 440,021 |
| Chambers, R. H. (Little Ash Mine)..... | Nanaimo..... | 6,621 | 6,261 | 2,392 |
| Granby Consolidated Mining, Smelting and Power Co., Ltd..... | Cassidy..... | 191,259 | 166,516 | 127,675 |
| Western Fuel Corporation of Canada, Ltd..... | Nanaimo..... | 578,290 | 414,246 | 352,373 |
| All other operators..... | | 3,629 | 11,871 | 8,314 |
| Total..... | | 1,254,772 | 1,107,470 | 930,775 |
| Total British Columbia..... | | 2,490,378 | 2,083,818 | 1,876,406 |

Table 133.—Tonnage Lost in British Columbia Mines, Showing by Districts the Relative Percentages Produced and Lost, with an Analysis of the Percentage Lost, 1930 and 1931

| District | Year | Per cent produced | Per cent lost | Percentage lost through | | | | |
|------------------------------|-------------|-------------------|---------------|-------------------------|----------------|--------------|-----------------|--------------|
| | | | | Absenteeism | Lack of orders | Car shortage | Mine disability | Other causes |
| Crow's Nest Pass..... | 1930 | 61 | 39 | 0.3 | 38.0 | | | 0.7 |
| | 1931 | 56 | 44 | 0.1 | 43.6 | | | 0.3 |
| Inland..... | 1930 | 84 | 16 | 0.4 | 10.7 | 1.2 | 2.8 | 0.9 |
| | 1931 | 82 | 18 | 0.2 | 14.9 | 2.6 | | 0.3 |
| Island..... | 1930 | 82 | 18 | 0.8 | 16.9 | | 0.3 | |
| | 1931 | 73 | 27 | 0.5 | 26.4 | | | 0.1 |
| British Columbia..... | 1930 | 73 | 27 | 0.5 | 25.3 | 0.2 | 0.5 | 0.5 |
| | 1931 | 67 | 33 | 0.2 | 32.5 | 0.2 | | 0.1 |

Table 134.—Disposition of Coal from British Columbia Mines by Grades, 1930 and 1931

(Short tons)

| Description | 1930 | | | | | 1931 | | | | |
|--|----------------|------------------|----------------|------------------|------------------|----------------|----------------|----------------|------------------|------------------|
| | Run-of-mine | Screened | Slack | Total | | Run-of-mine | Screened | Slack | Total | |
| | | | | Short tons | Value | | | | Short tons | Value |
| | | | | | \$ | | | | | \$ |
| Supplied to employees for domestic consumption.. | 1,710 | 20,448 | 56 | 22,214 | 72,951 | 1,200 | 17,594 | ..... | 18,794 | 62,517 |
| Shipped as per Table 135.. | 424,246 | 931,216 | 354,179 | 1,709,641 | 7,501,492 | 349,514 | 736,090 | 413,615 | 1,499,219 | 6,138,047 |
| Used under colliery boilers, etc..... | 30,280 | 74,384 | 34,769 | 139,433 | 446,101 | 24,860 | 68,376 | 29,574 | 122,810 | 364,631 |
| Used by companies' railroads..... | 4,002 | 8,046 | ..... | 12,945 | 50,065 | 5,450 | 5,972 | ..... | 11,422 | 42,987 |
| Used in making coke at colliery..... | ..... | ..... | 109,955 | 109,955 | 390,338 | ..... | ..... | 110,219 | 110,219 | 391,283 |
| Put on bank..... | 7,104 | 23,518 | 4,864 | 35,486 | 139,736 | 3,389 | 61,340 | 3,438 | 68,167 | 257,752 |
| Put on waste heap..... | ..... | ..... | ..... | 198,713 | ..... | ..... | ..... | ..... | 87,999 | ..... |
| Total disposition..... | 468,242 | 1,057,612 | 503,823 | 2,138,390 | 8,600,683 | 384,413 | 889,372 | 556,846 | 1,918,630 | 7,257,217 |
| Lifted from bank..... | 5,705 | 33,841 | 15,026 | 54,572 | 179,111 | 4,094 | 16,252 | 21,878 | 42,224 | 106,221 |
| Total output..... | 462,537 | 1,023,771 | 488,797 | 2,083,818 | 8,421,572 | 380,319 | 873,120 | 534,968 | 1,876,406 | 7,150,996 |

Table 135.—Shipments of Coal from British Columbia Mines by Grades and Destinations, 1930 and 1931

(Short tons)

| Destination | 1930 | | | | 1931 | | | |
|-----------------------|----------------|----------------|----------------|------------------|----------------|----------------|----------------|------------------|
| | Run-of-mine | Screened | Slack | Total | Run-of-mine | Screened | Slack | Total |
| British Columbia..... | 34,780 | 582,174 | 155,514 | 772,468 | 23,982 | 489,370 | 152,400 | 665,761 |
| Alberta..... | 12,004 | 341 | 22,099 | 34,444 | 6,518 | 144 | 27,585 | 34,247 |
| Saskatchewan..... | 14,294 | 1,373 | 50,178 | 65,845 | 8,993 | 1,221 | 56,511 | 66,725 |
| Manitoba..... | 3,927 | 745 | 6,747 | 11,419 | 3,937 | 1,585 | 52,040 | 57,562 |
| Ontario..... | 30 | ..... | 77 | 107 | 42 | ..... | 30 | 72 |
| United States..... | 3,352 | 62,696 | 18,363 | 84,311 | 607 | 32,188 | 18,575 | 51,370 |
| Alaska..... | ..... | 26,456 | ..... | 26,456 | ..... | 18,022 | ..... | 18,022 |
| Railroads..... | 355,859 | 177,411 | 100,306 | 633,576 | 395,435 | 140,792 | 106,474 | 552,691 |
| Bunker..... | ..... | 80,120 | 895 | 81,015 | ..... | 52,769 | ..... | 52,769 |
| Total..... | 424,246 | 931,216 | 354,179 | 1,709,641 | 349,514 | 736,090 | 413,615 | 1,499,219 |

Table 136.—Exports of Canadian Coal through British Columbia Ports, 1927-1931

(Short tons)

| Port | 1927 | 1928 | 1929 | 1930 | 1931 |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| Abbotsford..... | 641 | 2,019 | 367 | 278 | 218 |
| Cranbrook..... | 71,496 | 66,650 | 65,697 | 65,287 | 51,816 |
| Fernie..... | 262,406 | 244,557 | 235,186 | 60,732 | 27,073 |
| Grand Forks..... | 1 | | 10 | 45 | |
| Nanaimo..... | 178,765 | 165,341 | 155,130 | 111,468 | 67,971 |
| New Westminster..... | 373 | 342 | 451 | 153 | 2 |
| Penticton..... | 308 | 1,210 | 1,292 | 1,189 | 817 |
| Prince Rupert..... | 198 | 367 | 103 | 414 | 104 |
| Vancouver..... | 100 | 47 | 54 | | 48 |
| Victoria..... | 762 | | | | |
| Total..... | 515,140 | 480,533 | 458,290 | 239,566 | 149,109 |

Table 137.—Imports into British Columbia of Anthracite, Bituminous and Lignite Coal by Ports of Entry, 1930 and 1931

(Short tons)

| Port | Source | 1930 | | | | | 1931 | | | | |
|-------------------------|-------------------|----------------|----------|---------------|------------------------|---------------|----------------|-----------|--------------|------------------------|--------------|
| | | Anthracite | | Lignite | Bituminous, all grades | Total | Anthracite | | Lignite | Bituminous, all grades | Total |
| | | Egg, nut, etc. | Dust | | | | Egg, nut, etc. | Dust | | | |
| Abbotsford..... | U. S. | | | | 101 | 101 | | 2 | | 103 | 105 |
| Cranbrook..... | U. S. | | | | 1 | 1 | | | | | |
| Fernie..... | U. S. | | | | 41 | 41 | | | | 81 | 81 |
| Grand Forks..... | U. S. | | | | | | | | | | |
| Greenwood..... | U. S. | | | | | | | | | | |
| Nanaimo..... | U. S. | | | | | | | | | | |
| Nelson..... | U. S. | | | 416 | 296 | 712 | | | 278 | 120 | 398 |
| New Westminster..... | U. S. | | | 278 | 136 | 414 | | | 308 | 130 | 438 |
| Penticton..... | U. S. | | | | 51 | 51 | | | | 21 | 21 |
| Prince Rupert..... | U. S. | | 1 | | 5,558 | 5,559 | | | | 143 | 143 |
| Revelstoke..... | U. S. | | | 258 | 30 | 288 | | | 31 | 30 | 61 |
| Vancouver..... | U. S. | | | 16,988 | 2,355 | 19,343 | | | 5,638 | 1,546 | 7,184 |
| | French | | | | | | | | | | |
| | E. Indies. | 1,122 | | | | 1,122 | | | | | |
| | U. S. | | | | 310 | 310 | | | | 163 | 287 |
| Victoria..... | U. S. | | | | | | | | | | |
| Total..... | U. S. | | 1 | 17,940 | 8,879 | 26,820 | | 33 | 6,387 | 2,298 | 8,718 |
| | French | 1,122 | | | | 1,122 | | | | | |
| | E. Indies. | | | | | | | | | | |
| Grand total..... | | 1,122 | 1 | 17,940 | 8,879 | 27,942 | | 33 | 6,387 | 2,298 | 8,718 |

Table 138.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in British Columbia by Months and by Kinds

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Coal available for consumption |
|---------------------|---------------|-------------------------------|----------------------------|----------|----------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | |
| January— | | | | | | |
| Bituminous..... | 166,369 | 5,610 | 11,413 | 11,947 | 83 | 148,702 |
| Sub-bituminous..... | | 4,679 | | | | 4,679 |
| Lignite..... | | 11,362 | | 2,657 | 1,444 | 10,149 |
| Total..... | 166,369 | 21,651 | 11,413 | 14,604 | 1,527 | 163,530 |
| February— | | | | | | |
| Bituminous..... | 146,485 | 3,416 | 6,518 | 12,809 | 275 | 130,849 |
| Sub-bituminous..... | | 2,690 | | | | 2,690 |
| Lignite..... | | 6,128 | | 2,188 | 848 | 4,788 |
| Total..... | 146,485 | 12,234 | 6,518 | 14,997 | 1,123 | 138,327 |
| March— | | | | | | |
| Bituminous..... | 153,241 | 3,652 | 9,522 | 13,699 | 247 | 133,919 |
| Sub-bituminous..... | | 3,065 | | | | 3,065 |
| Lignite..... | | 6,887 | | 1,491 | 1,295 | 6,691 |
| Total..... | 152,241 | 13,604 | 9,522 | 15,190 | 1,542 | 143,675 |
| April— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | 135,976 | 3,652 | 8,804 | 6,103 | 102 | 124,823 |
| Sub-bituminous..... | | 1,508 | | | | 1,508 |
| Lignite..... | | 4,512 | | 232 | 215 | 4,495 |
| Total..... | 135,976 | 9,672 | 8,804 | 6,335 | 317 | 130,826 |
| May— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | 131,775 | 2,937 | 10,308 | 11,543 | 292 | 113,153 |
| Sub-bituminous..... | | 620 | | | | 620 |
| Lignite..... | | 1,834 | | 274 | 101 | 1,661 |
| Total..... | 131,775 | 5,391 | 10,308 | 11,817 | 393 | 115,434 |
| June— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | 194,382 | 2,876 | 13,569 | 11,184 | 80 | 172,585 |
| Sub-bituminous..... | | 819 | | | | 819 |
| Lignite..... | | 908 | | 101 | 61 | 868 |
| Total..... | 194,382 | 4,603 | 13,569 | 11,285 | 141 | 174,272 |
| July— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | 138,318 | 3,509 | 18,379 | 7,827 | 270 | 115,891 |
| Sub-bituminous..... | | 1,406 | | | | 1,406 |
| Lignite..... | | 1,714 | | 228 | 183 | 1,669 |
| Total..... | 138,318 | 6,629 | 18,379 | 8,055 | 453 | 118,966 |
| August— | | | | | | |
| Bituminous..... | 137,886 | 2,519 | 19,265 | 5,842 | 38 | 115,336 |
| Sub-bituminous..... | | 2,327 | | | | 2,327 |
| Lignite..... | | 4,519 | | 335 | 163 | 4,347 |
| Total..... | 137,886 | 9,365 | 19,265 | 6,177 | 201 | 122,010 |
| September— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | 145,079 | 3,516 | 17,859 | 10,414 | 86 | 120,408 |
| Sub-bituminous..... | | 3,953 | | | | 3,953 |
| Lignite..... | | 13,547 | | 2,338 | 362 | 11,571 |
| Total..... | 145,079 | 21,016 | 17,859 | 12,752 | 448 | 135,932 |
| October— | | | | | | |
| Anthracite..... | | | | | 33 | 33 |
| Bituminous..... | 163,423 | 3,033 | 17,505 | 13,083 | 115 | 135,983 |
| Sub-bituminous..... | | 5,271 | | | | 5,271 |
| Lignite..... | | 13,018 | | 4,122 | 434 | 9,330 |
| Total..... | 163,423 | 21,322 | 17,505 | 17,205 | 582 | 150,617 |

Table 138.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in British Columbia by Months and by Kinds—Concluded

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Coal available for consumption |
|---------------------|---------------|-------------------------------|----------------------------|----------|----------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | |
| November— | | | | | | |
| Bituminous..... | 171,791 | 2,586 | 13,110 | 8,590 | 586 | 153,263 |
| Sub-bituminous..... | | 6,088 | | | | 6,088 |
| Lignite..... | | 15,652 | | 1,996 | 560 | 14,216 |
| Total..... | 171,791 | 24,326 | 13,110 | 10,586 | 1,146 | 173,567 |
| December— | | | | | | |
| Anthracite..... | | | | | | |
| Bituminous..... | 191,681 | 4,283 | 12,354 | 15,945 | 124 | 167,789 |
| Sub-bituminous..... | | 5,277 | | | | 5,277 |
| Lignite..... | | 12,533 | | 3,161 | 721 | 10,063 |
| Total..... | 191,681 | 22,093 | 12,354 | 19,106 | 845 | 183,159 |
| Total— | | | | | | |
| Anthracite..... | | | | | 33 | 33 |
| Bituminous..... | 1,876,406 | 41,589 | 158,606 | 128,986 | 2,298 | 1,632,701 |
| Sub-bituminous..... | | 37,703 | | | | 37,703 |
| Lignite..... | | 92,614 | | 19,123 | 6,357 | 79,878 |
| Total..... | 1,876,406 | 171,906 | 158,606 | 148,109 | 8,718 | 1,750,315 |

Table 139.—Employees, Salaries and Wages in the Coal Mines of British Columbia by Districts, 1930 and 1931

| District | Average number of employees | | | | Total | Salaries and wages | | |
|-----------------------|-----------------------------|--------|--------------|--------------|-------|--------------------|-----------|-------|
| | Salaried employees | | Wage-earners | | | Salaries | Wages | Total |
| | Male | Female | Surface | Under-ground | | | | |
| 1930 | | | | | \$ | \$ | \$ | |
| Crow's Nest Pass..... | 89 | 7 | 328 | 991 | 1,415 | 256,524 | 1,505,532 | |
| Inland..... | 28 | 4 | 187 | 354 | 573 | 69,685 | 709,217 | |
| Island..... | 121 | 9 | 755 | 1,748 | 2,633 | 291,488 | 2,882,883 | |
| British Columbia..... | 238 | 20 | 1,270 | 3,093 | 4,621 | 617,697 | 5,097,632 | |
| 1931 | | | | | | | | |
| Crow's Nest Pass..... | 80 | 5 | 259 | 950 | 1,294 | 226,937 | 1,291,007 | |
| Inland..... | 27 | 3 | 171 | 343 | 541 | 69,264 | 600,329 | |
| Island..... | 95 | 7 | 664 | 1,503 | 2,269 | 243,000 | 2,299,544 | |
| British Columbia..... | 202 | 15 | 1,094 | 2,796 | 4,107 | 539,270 | 4,190,850 | |

Table 140.—Employment and Earnings in the Coal Mines of British Columbia, 1927-1931

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| Average number of wage-earners— | | | | | |
| Surface..... | 1,579 | 1,573 | 1,385 | 1,270 | 1,094 |
| Underground..... | 3,459 | 3,470 | 3,406 | 3,093 | 2,796 |
| Total..... | 5,038 | 5,043 | 4,791 | 4,363 | 3,890 |
| Days' work done— | | | | | |
| Surface..... | 483,705 | 480,633 | 395,045 | 333,856 | 276,698 |
| Underground..... | 916,042 | 934,476 | 842,584 | 677,634 | 571,075 |
| Total..... | 1,399,747 | 1,415,109 | 1,237,629 | 1,011,490 | 847,773 |
| Average number of days worked per man per year— | | | | | |
| Surface..... | 306 | 306 | 285 | 263 | 253 |
| Underground..... | 265 | 269 | 247 | 219 | 204 |
| By all wage-earners..... | 278 | 281 | 258 | 232 | 218 |
| Total wages paid..... | \$ 6,916,816 | \$ 6,928,883 | \$ 6,094,359 | \$ 5,097,632 | \$ 4,190,880 |
| Average wage earned per man per day..... | \$ 4.94 | \$ 4.89 | \$ 4.92 | \$ 5.04 | \$ 4.94 |

Table 141.—Wage-Earners Employed, and Work Done by Months in the Coal Mines of British Columbia in 1931

| Month | Number of wage-earners | | | Days' work done | | |
|-------------------|------------------------|-------------|-------|-----------------|----------------|----------------|
| | Surface | Underground | Total | Surface | Underground | Total |
| January..... | 1,229 | 3,063 | 4,292 | 25,188 | 56,058 | 81,246 |
| February..... | 1,191 | 2,959 | 4,150 | 23,277 | 46,540 | 69,817 |
| March..... | 1,140 | 2,924 | 4,064 | 22,634 | 44,841 | 67,475 |
| April..... | 1,092 | 2,885 | 3,977 | 21,102 | 41,997 | 63,099 |
| May..... | 1,070 | 2,879 | 3,949 | 19,936 | 40,735 | 60,671 |
| June..... | 1,019 | 2,576 | 3,595 | 32,101 | 62,538 | 94,639 |
| July..... | 1,039 | 2,590 | 3,629 | 21,041 | 40,055 | 61,096 |
| August..... | 1,034 | 2,541 | 3,575 | 20,521 | 40,766 | 61,287 |
| September..... | 1,026 | 2,691 | 3,717 | 20,100 | 42,793 | 62,893 |
| October..... | 1,078 | 2,741 | 3,819 | 22,400 | 47,203 | 69,603 |
| November..... | 1,094 | 2,815 | 3,909 | 23,349 | 51,388 | 74,737 |
| December..... | 1,121 | 2,886 | 4,007 | 25,049 | 56,161 | 81,210 |
| Total..... | | | | 276,698 | 571,075 | 847,773 |

Table 142.—Number of Man-Days Worked by Districts in British Columbia, 1930 and 1931

| District | 1930 | | | 1931 | | |
|-----------------------|----------------|----------------|------------------|----------------|----------------|----------------|
| | Surface | Underground | Total | Surface | Underground | Total |
| Crow's Nest Pass..... | 66,752 | 182,087 | 248,839 | 48,623 | 159,528 | 208,151 |
| Inland..... | 55,247 | 85,859 | 141,106 | 48,205 | 80,980 | 129,185 |
| Island..... | 211,857 | 409,688 | 621,545 | 179,870 | 330,567 | 510,437 |
| Total..... | 333,856 | 677,634 | 1,011,490 | 276,698 | 571,075 | 847,773 |

Table 143.—Wage-Earners in British Columbia Coal Mines, by Classes, 1930 and 1931

| Classification | 1930 | | | 1931 | | |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Surface | Under-ground | Total | Surface | Under-ground | Total |
| Administration..... | 20 | 1 | 21 | 18 | | 18 |
| Foremen and clerks..... | 105 | | 105 | 97 | 2 | 99 |
| Screenmen and loaders..... | 141 | 1 | 142 | 137 | | 137 |
| Officials..... | 1 | 146 | 147 | 1 | 135 | 136 |
| Hand cutters and helpers..... | | 1,348 | 1,348 | | 1,275 | 1,275 |
| Machine cutters..... | | 83 | 83 | | 75 | 75 |
| Machine loaders and helpers..... | | 174 | 174 | | 121 | 121 |
| Horse haulage employees..... | 9 | 321 | 330 | 9 | 266 | 275 |
| Mechanical haulage employees..... | 10 | 300 | 310 | 10 | 279 | 289 |
| Ventilation employees..... | 1 | 32 | 33 | | 31 | 31 |
| Roadmakers..... | 2 | 69 | 71 | | 59 | 60 |
| Timbermen..... | 11 | 173 | 184 | 11 | 164 | 175 |
| Pumpmen..... | 1 | 27 | 28 | | 22 | 22 |
| Enginemn..... | 76 | | 76 | 69 | | 69 |
| Firemen..... | 57 | | 57 | 45 | | 45 |
| Machinists..... | 59 | 2 | 61 | 51 | 5 | 56 |
| Carpenters and masons..... | 79 | | 79 | 59 | | 59 |
| Other mechanics..... | 102 | 9 | 111 | 96 | 8 | 104 |
| All other white employees..... | 398 | 248 | 646 | 353 | 210 | 563 |
| Japanese..... | 1 | 52 | 53 | 1 | 58 | 59 |
| Chinese..... | 180 | 106 | 286 | 136 | 86 | 222 |
| Indians..... | 17 | 1 | 18 | | | |
| Total..... | 1,270 | 3,033 | 4,303 | 1,034 | 2,796 | 3,830 |

Table 144.—Capital Employed in the Coal Mines of British Columbia, 1930 and 1931

| | 1930 | 1931 |
|--|-------------------|-------------------|
| Capital employed as represented by— | \$ | \$ |
| Cost of lands, buildings, machinery and tools..... | 21,420,210 | 21,549,427 |
| Cost of supplies and stock on hand..... | 581,531 | 663,836 |
| Cash, trading and operating accounts and bills receivable..... | 2,060,884 | 2,065,070 |
| Total..... | 21,062,625 | 24,278,333 |

CHAPTER ELEVEN

YUKON

Coal output in the Yukon Territory during 1931 amounted to 904 tons obtained from the Five Finger mine near Caramacks. This coal was disposed of as follows: sold to employees, 6 tons; shipped to other Yukon points, 260 tons; used at the mine, 18 tons; put on bank, 285 tons, and put on waste heap, 335 tons. Imports were negligible in 1931, consisting of 10 tons cleared through the White Horse Customs' port.

Table 145.—Output of Coal from Yukon Mines, 1901-1931
(Short tons)

| Calendar year | Short tons | Value | Calendar year | Short tons | Value | Calendar year | Short tons | Value |
|---------------|------------|---------|---------------|------------|---------|-------------------|----------------|----------------|
| | | \$ | | | \$ | | | \$ |
| 1901..... | (a) 5,864 | 86,230 | 1911..... | 2,840 | 12,780 | *1921..... | 233 | 2,472 |
| 1902..... | 4,910 | 37,280 | 1912..... | 9,245 | 44,958 | *1922..... | 405 | 4,650 |
| 1903..... | 1,849 | 29,584 | 1913..... | 19,722 | 95,945 | *1923..... | 313 | 1,455 |
| 1904..... | | | 1914..... | 13,443 | 53,760 | *1924..... | 1,121 | 8,265 |
| 1905..... | 7,000 | 21,000 | 1915..... | 9,724 | 38,896 | *1925..... | 730 | 7,147 |
| 1906..... | 7,000 | 28,000 | 1916..... | 3,300 | 13,200 | *1926..... | 316 | 800 |
| 1907..... | 15,000 | 60,000 | 1917..... | 4,872 | 129,232 | *1927..... | 414 | 2,052 |
| 1908..... | 3,847 | 21,158 | 1918..... | 2,900 | 11,600 | *1928..... | 414 | 2,915 |
| 1909..... | 7,304 | 49,502 | *1919..... | | | *1929..... | 458 | 1,848 |
| 1910..... | 16,185 | 110,925 | *1920..... | | | *1930..... | 653 | 3,110 |
| | | | | | | *1931..... | 904 | 5,039 |
| | | | | | | Total..... | 141,986 | 783,833 |

(a) Part of this production was mined in 1900.

* Value not reported, but estimated.

For the years 1919-1931 the tonnage shown, is the total output from all mines; for previous years the figures shown include only sales, colliery consumption and coal used by operators.

Table 146.—Disposition of Coal Output from Yukon Mines by Grades, 1930 and 1931
(Short tons)

| Disposition | 1930 | | | | | 1931 | | | | |
|---|-------------|------------|-----------|------------|--------------|-------------|------------|------------|------------|--------------|
| | Run of mine | Screened | Slack | Total | | Run of mine | Screened | Slack | Total | |
| | | | | Quantity | Value | | | | Quantity | Value |
| | | | | | | | | | | |
| Supplied to employees for domestic consumption..... | | | 10 | 10 | 30 | | | 6 | 6 | 18 |
| Shipped (all to Yukon points)..... | | 293 | | 293 | 2,930 | | 260 | | 260 | 2,690 |
| Used under colliery boilers, etc..... | | | 50 | 50 | 150 | | 18 | | 18 | 54 |
| Put on bank..... | | | | | | | 171 | | 114 | 2,367 |
| Put on waste heap..... | | | | 309 | | | | | 335 | |
| Total disposition..... | | 293 | 60 | 653 | 3,110 | | 431 | 138 | 904 | 5,039 |

Table 147.—Imports of Coal into Yukon and Exports of Canadian Coal through Yukon Ports, 1927-1931

(Short tons)

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------|----------|-----------|-----------|----------|-----------|
| IMPORTS— | | | | | |
| Dawson..... | | | | | |
| White Horse..... | 8 | 40 | 67 | 7 | 10 |
| Total..... | 8 | 40 | 67 | 7 | 10 |
| EXPORTS— | | | | | |
| Dawson..... | 1 | | | | |
| White Horse..... | | | | | |
| Total..... | 1 | | | | |

Table 148.—Summary Statistics for 1931—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Yukon by Months and by Kinds

(Short tons)

| Month | Canadian coal | | | | Imported from U.S.A. | Coal available for consumption |
|------------------------------|---------------|-------------------------------|----------------------------|----------|----------------------|--------------------------------|
| | Output | Received from other provinces | Shipped to other provinces | Exported | | |
| March— Bituminous..... | | | | | 6 | 6 |
| April— Bituminous..... | | | | | | |
| May— Bituminous..... | | | | | | |
| June— Bituminous..... | | | | | | |
| July— Bituminous..... | 251 | | | | | 251 |
| August— Bituminous..... | 416 | | | | 4 | 241 |
| Total—Bituminous..... | 904 | | | | 10 | 914 |

Table 149.—Employment and Earnings in the Coal Mines of Yukon, 1927-1931

| | 1927 | 1928 | 1929 | 1930 | 1931 |
|---|-----------------|-----------------|-----------------|-----------------|----------------|
| Average number of wage-earners— | | | | | |
| Surface..... | 1 | 1 | 1 | 1 | 1 |
| Underground..... | 2 | 3 | 2 | 2 | 2 |
| Total..... | 3 | 4 | 3 | 3 | 3 |
| Days' work done— | | | | | |
| Surface..... | 10 | 85 | 102 | 102 | 58 |
| Underground..... | 154 | 255 | 204 | 204 | 106 |
| Total..... | 164 | 340 | 306 | 306 | 164 |
| Average number of days worked per man per year— | | | | | |
| Surface..... | 10 | 85 | 102 | 102 | 58 |
| Underground..... | 77 | 85 | 102 | 102 | 53 |
| By all wage-earners..... | 55 | 85 | 102 | 102 | 55 |
| Total wages paid..... | \$ 1,500 | \$ 1,280 | \$ 1,200 | \$ 2,221 | \$ 984 |
| Average wage earned per man per day..... | \$ 9.15 | \$ 3.77 | \$ 3.92 | \$ 7.26 | \$ 6.00 |

Table 150.—Wage-Earners Employed and Work Done by Months in the Yukon Coal Mines in 1931

| Month | Number of employees | | | Days' work done | | |
|-------------------|---------------------|--------------|-------|-----------------|--------------|------------|
| | Surface | Under ground | Total | Surface | Under ground | Total |
| June..... | 1 | 2 | 3 | 26 | 25 | 51 |
| July..... | 1 | 2 | 3 | 15 | 30 | 45 |
| August..... | 1 | 3 | 4 | 17 | 51 | 68 |
| Total..... | | | | 58 | 106 | 164 |

Table 151.—Capital Employed in the Coal Mines of Yukon, 1930 and 1931

| | 1930 | 1931 |
|--|----------------|----------------|
| Capital employed as represented by— | \$ | \$ |
| Cost of lands, buildings, machinery and tools..... | 203,000 | 203,000 |
| Cost of supplies and stock on hand..... | | |
| Cash, trading and operating accounts and bills receivable..... | | |
| Total..... | 203,000 | 203,000 |

CHAPTER TWELVE

WORLD PRODUCTION OF COAL

The world production of coal in 1931 totalled 1,236,150,000 long tons, a decline of 11.1 per cent from the 1930 output of 1,390,000,000 long tons. Lignite coal production decreased 7.7 per cent in 1931 and the output of bituminous coal and anthracite coal declined 11.6 per cent.

Great Britain produced 218,817,370 long tons or 10.3 per cent below the preceding year's total of 243,881,824 long tons. The United States output declined 17.6 per cent and the German production 12.8 per cent in 1931. Coal production from mines in France recorded a 7.2 per cent falling-off and output from the French controlled mines of the Saar area was 14.1 per cent lower. Bituminous and brown coal production in Czechoslovakia showed a considerable decrease in 1931. Output from mines in Russia advanced 7 per cent, in Poland the increase was 2.1 per cent, but mines in Hungary showed a 5.3 per cent production decline. Canadian coal mines reported a 17.7 per cent decline in output.

Table 152.—World Production of Coal* 1927-1931

(Including brown coal)
(Long tons)

| Country | 1927 | 1928 | 1929 | 1930 | 1931 |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|-------------|
| BRITISH EMPIRE | | | | | |
| Great Britain— | | | | | |
| Anthracite..... | 6,346,890 | 5,521,570 | 6,364,036 | 6,400,705 | 218,817,370 |
| Bituminous (a)..... | 244,885,446 | 231,950,361 | 251,542,766 | 237,481,119 | |
| Lignite..... | 502 | 640 | 322 | ..... |  |
| Nigeria (b)..... | 357,899 | 359,316 | 344,937 | 347,842 | † |
| Southern Rhodesia..... | 894,396 | 1,077,557 | 1,020,446 | 923,915 | 577,974 |
| Union of South Africa..... | 12,381,692 | 12,407,539 | 12,812,790 | 12,029,529 | 10,709,269 |
| Canada— | | | | | |
| Bituminous..... | 11,613,380 | 11,580,241 | 11,481,984 | 9,665,035 | 7,911,928 |
| Sub-bituminous..... | 532,281 | 661,157 | 597,053 | 538,712 | 420,842 |
| Lignite..... | 3,414,027 | 3,432,078 | 3,542,887 | 3,083,149 | 2,598,668 |
| British Borneo— | | | | | |
| State of North Borneo..... | 62,701 | 60,779 | 58,339 | 45,839 | † |
| Sarawak..... | 16,445 | 17,679 | 13,610 | 14,680 | † |
| Federated Malay States..... | 463,001 | 556,590 | 661,514 | 565,573 | † |
| India— | | | | | |
| Gondwana Coalfields..... | 21,664,488 | 22,153,314 | 23,001,586 | 23,803,048 | 23,817,553 |
| Tertiary Coalfields..... | 417,848 | 389,558 | 417,148 | | |
| Australia | | | | | |
| Bituminous..... | 13,522,960 | 11,830,780 | 10,365,319 | 9,500,000 | 6,889,375 |
| Lignite..... | 1,455,482 | 1,591,855 | 1,731,176 | † | † |
| New Zealand— | | | | | |
| Bituminous..... | 1,290,529 | 1,348,732 | 1,367,164 | | † |
| Brown coal..... | 654,436 | 973,238 | 1,049,603 | 2,542,092 | |
| Lignite..... | 121,775 | 114,783 | 119,097 | | |
| Total..... | 320,000,000 | 306,000,000 | 327,000,000 | 307,000,000 | ..... |
| FOREIGN COUNTRIES | | | | | |
| Austria— | | | | | |
| Bituminous..... | 172,828 | 198,906 | 204,735 | 212,478 | † |
| Brown coal..... | 3,015,675 | 3,211,042 | 3,469,123 | 3,014,605 | † |
| Belgium— | | | | | |
| Anthracite and semi-anthracite..... | 5,899,589 | 6,035,006 | 5,826,029 | 26,972,727 | 26,608,015 |
| Bituminous..... | 21,216,242 | 21,107,733 | 20,688,421 | | |
| Bulgaria— | | | | | |
| Anthracite..... | | 1,183 | 2,479 | | |
| Bituminous..... | 1,218,099 | 67,255 | 75,130 | 1,548,354 | † |
| Brown coal..... | | 1,339,298 | 1,548,121 | | |
| Czechoslovakia— | | | | | |
| Bituminous..... | 13,794,932 | 14,330,345 | 16,260,524 | 14,207,021 | 13,034,074 |
| Brown coal..... | 19,310,756 | 20,128,419 | 22,204,480 | 18,890,532 | 16,791,283 |
| France— | | | | | |
| Saar..... | 13,391,097 | 12,899,716 | 13,364,882 | 13,026,730 | 11,187,371 |
| Other districts— | | | | | |
| Anthracite and bituminous..... | 50,960,760 | 50,554,526 | 52,930,400 | 53,033,011 | 49,246,235 |
| Lignite..... | 1,050,434 | 1,046,891 | 1,178,329 | 1,124,685 | 1,009,785 |
| Germany— | | | | | |
| Bituminous..... | 151,173,466 | 148,477,965 | 160,859,314 | 140,444,047 | 116,749,542 |
| Lignite..... | 148,126,913 | 162,972,863 | 171,700,657 | 143,609,312 | 131,116,584 |
| Greece— | | | | | |
| Lignite..... | 141,082 | 118,734 | 154,054 | 108,419 | † |
| Hungary— | | | | | |
| Bituminous..... | 773,447 | 770,908 | 813,220 | 798,732 | 787,357 |
| Brown coal..... | 5,984,940 | 6,240,930 | 6,659,925 | 5,746,580 | 5,728,023 |
| Lignite..... | 160,839 | 164,838 | 272,765 | 332,348 | |

Table 152.—World Production of Coal* 1927-1931—Concluded

(Including brown coal)

(Long tons)

| Country | 1927 | 1928 | 1929 | 1930 | 1931 |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Italy— | | | | | |
| Anthracite..... | 16,573 | 10,321 | 14,007 | 19,530 | † |
| Bituminous..... | 149,293 | 115,590 | 205,813 | 207,946 | † |
| Brown coal..... | 898,047 | 686,024 | 769,694 | 567,750 | † |
| Jugoslavia— | | | | | |
| Bituminous..... | 283,184 | 351,826 | 435,131 | 360,430 | † |
| Brown coal..... | 3,433,470 | 3,608,130 | 4,326,603 | 3,748,858 | † |
| Lignite..... | 954,586 | 1,012,136 | 1,036,945 | 1,077,869 | † |
| Netherlands— | | | | | |
| Bituminous..... | 9,175,868 | 10,525,314 | 11,398,293 | 12,018,229 | 12,696,134 |
| Brown coal..... | 198,201 | 193,589 | 154,095 | 141,873 | † |
| Poland— | | | | | |
| Bituminous..... | 37,482,601 | 39,974,905 | 45,505,803 | 36,907,295 | 37,661,259 |
| Brown coal..... | 77,225 | 72,398 | 73,147 | | 38,384 |
| Portugal— | | | | | |
| Anthracite..... | | 195,705 | 175,864 | 183,471 | † |
| Bituminous..... | 201,127 | 2,460 | 18,098 | 27,345 | † |
| Brown coal..... | | 26,031 | 28,880 | 33,928 | † |
| Roumania— | | | | | |
| Bituminous..... | 367,559 | 391,285 | 365,088 | 294,106 | † |
| Lignite..... | 2,804,999 | 2,588,144 | 2,632,831 | 2,038,348 | † |
| Russia— | | | | | |
| Anthracite..... | | | | | |
| Bituminous— | | | | | |
| European..... | 32,026,639 | 34,057,125 | 38,084,000 | 45,722,000 | 48,914,561 |
| Asiatic..... | | | | | |
| Brown coal..... | | | | | |
| Spain— | | | | | |
| Anthracite..... | 423,106 | 383,243 | 491,851 | 580,123 | |
| Bituminous..... | 6,036,177 | 5,885,667 | 6,504,199 | 6,529,171 | 7,184,634 |
| Brown coal..... | 422,817 | 415,831 | 432,018 | 374,094 | 348,406 |
| Spitzbergen and Bear Island..... | 314,380 | 280,418 | 247,218 | | † |
| Sweden..... | 392,007 | 352,851 | 398,737 | 391,675 | † |
| Algeria..... | 20,932 | 16,368 | 15,873 | 16,922 | † |
| Belgian Congo..... | 86,000 | 88,000 | 112,642 | 131,700 | † |
| Greenland..... | 2,900 | 2,500 | † | † | † |
| Mexico..... | 1,015,020 | 999,787 | 1,043,277 | 1,054,794 | † |
| United States— | | | | | |
| Anthracite..... | 71,513,896 | 67,275,062 | 65,918,031 | 61,950,747 | 53,151,527 |
| Bituminous (c)..... | 462,288,707 | 447,093,723 | 475,314,009 | 411,991,000 | 337,593,144 |
| Brazil..... | 231,294 | 246,327 | 167,251 | | † |
| Chile..... | 1,458,113 | 1,353,890 | 1,484,051 | 1,328,692 | † |
| Colombia..... | † | 100,000 | 100,000 | 100,000 | † |
| Peru..... | 159,806 | 175,675 | 217,120 | † | † |
| Venezuela..... | 15,850 | 15,660 | 16,593 | 12,360 | † |
| China (d)..... | 23,000,000 | 20,000,000 | 25,000,000 | † | † |
| Dutch East Indies..... | 1,594,616 | 1,676,472 | 1,802,737 | 1,667,000 | † |
| Formosa..... | 1,772,005 | 1,513,000 | 1,505,860 | † | † |
| French Indo-China— | | | | | |
| Anthracite..... | 1,422,083 | 1,883,409 | 1,872,373 | 1,860,000 | † |
| Bituminous..... | 38,041 | 39,826 | 38,277 | 47,000 | † |
| Brown coal..... | 7,038 | 15,228 | 30,228 | 28,000 | † |
| Japan— | | | | | |
| Semi-anthracite..... | 141,181 | 163,263 | | | |
| Bituminous..... | 32,859,856 | 33,162,143 | 33,716,762 | 30,880,669 | |
| Brown coal..... | 175,792 | 119,997 | 137,000 | 128,593 | 32,478,481 |
| Karafuto..... | 351,407 | 530,961 | 625,478 | † | |
| Korea— | | | | | |
| Anthracite..... | 698,371 | 457,611 | 529,744 | | † |
| Bituminous..... | | 315,322 | 393,345 | 870,174 | † |
| Philippine Islands..... | 23,040 | 27,417 | † | † | † |
| Turkey in Asia..... | | | | | |
| Bituminous..... | | 1,230,885 | 1,398,565 | 1,557,612 | † |
| Lignite..... | 892,310 | 9,105 | 7,747 | 8,044 | † |
| New Caledonia..... | † | 16,000 | 22,000 | † | † |
| Total..... | 1,130,000,000 | 1,130,000,000 | 1,200,000,000 | 1,080,000,000 | |
| Total..... | 1,450,000,000 | 1,440,000,000 | 1,530,000,000 | 1,390,000,000 | 1,236,150,000 |

* Data for 1927-1930 obtained from *The Mineral Industry of the British Empire and Foreign Countries*; data for 1931 from a preliminary report on coal, issued by the *United States Bureau of Mines*, Washington, D. C.

† Information not available.

(a) Including a small quantity of anthracite mined in the Fife and Clackmanan districts.

(b) Years ended 31st March of the year following that stated.

(c) Including lignite.

(d) Approximate production.

APPENDIX ONE

LEGISLATION PROVIDING ASSISTANCE FOR THE MARKETING OF CANADIAN COAL

TEST MOVEMENTS OF ALBERTA COAL TO DETERMINE TRANSPORTATION COST, 1928-29-30*

In view of the importance of the question of encouraging an all-Canadian coal movement, and of the difference of view expressed in the minority report of the Board of Railway Commissioners in their finding of the out-of-pocket cost of transporting Alberta coal to Ontario, the Federal Government, by Order in Council P.C. 439, dated March 16, 1928, provided for further test movements with a view to arriving at what would appear to be a reasonable freight rate a ton for this traffic. The test movement is to be undertaken under the following conditions namely:

- "(a) That a temporary rate of \$6.75 per ton be established to be effective for not less than three months in each year during the period of the test movement.
- (b) That the cost of the movement under consideration be supervised by the Board of Railway Commissioners of Canada.
- (c) That the cost of the movement be carefully checked by representatives selected by both the coal interests and the railways.
- (d) That a detailed report of the representatives checking the cost of this movement shall be furnished the Board of Railway Commissioners for their consideration and that the full Board of Railway Commissioners, after hearing the parties interested, will determine from the evidence submitted to them what is a reasonable rate per ton, having in mind all the factors which in the national interest, may properly be taken into consideration.
- (e) That as the movement is a seasonal one and for a short period in each year, it is desirable that the test should extend for a period of three years in order that the Board of Railway Commissioners may have conclusive evidence of costs before them to enable them to give judgment.
- (f) That at the end of each seasonal movement and pending a final decision, the Board of Railway Commissioners be authorized—to name what amount, if any, over and above the rate of \$6.75 per ton the Board estimates to be due the railways in the light of the information secured during the season, and to certify to the Minister of Mines the total sums of money due to each Railway Company in connection therewith."

ASSISTANCE PROVIDED FOR THE MOVEMENT OF NEW BRUNSWICK COAL—P.C. 1299

The Committee of the Privy Council have had before them a report, dated May 30, 1931, from the Minister of Mines, stating that the test movements of New Brunswick coals authorized by Order in Council P.C. 539 of March 30, 1928, and further extended by P.C. 2256 of October 2, 1930, will expire March 31, 1932. These test rates have not demonstrated the full extent to which the markets for New Brunswick coals could be increased at competitive points in Quebec and Ontario where under the existing freight rates these coals are at a disadvantage with coals imported from the United States. In order, therefore, to enable New Brunswick coals to compete to a greater extent in the areas aforementioned the Minister of Mines recommends:

- (1) That assisted movements be instituted of shipments of coal mined in the Province of New Brunswick and shipped to points in the provinces of Quebec and Ontario;
- (2) That the assistance granted shall be by the reduction of one-sixth of a cent per ton per mile from the existing freight rates, provided that the assistance shall in no instance exceed \$1.50 (one dollar and fifty cents) per ton;
- (3) That the amount of the said assistance shall be payable to the railways under the following conditions:
 - (a) That the assistance shall apply only to movements of coal to points where the Canadian coal to be used is at a disadvantage in competing with foreign coal;
 - (b) That the assistance shall apply from June 1, 1931, to June 30, 1933;
 - (c) That the assistance shall not apply to coal when used for household purposes;
 - (d) That the assistance shall apply only to shipments of coal from coal mines or coal properties which were in operation and shipping coal prior to December 31, 1930;
 - (e) That the assistance shall not apply on shipments of less than carload lots;
 - (f) That the assistance shall not be granted to shippers who refuse or fail to furnish such information as the Minister of Mines may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines or such officers of the Dominion Fuel Board as he may designate shall have free access to all books, records or accounts kept by shippers or distributors in connection with this movement and make such examination thereof as may be considered necessary or expedient;
 - (g) That the Minister of Mines reserves the right of refusing approval in each and every application for assistance under this authority.

The Minister further recommends:

- (4) That in order to provide for the payments to the railways hereby proposed and to provide for the expenses of administration of this Order in Council, a vote be placed in the estimates of the Department of Mines to cover payments to be made hereunder;
- (5) That the Dominion Fuel Board be charged with the administrative duties connected with this movement and shall report annually to the Minister of Mines as to the amount paid the railways during the period of the movement;
- (6) That Order in Council P.C. 539 of March 30, 1928, and the extension, P.C. 2256 of October 2, 1930, in so far as the movements relate to New Brunswick coals, be hereby rescinded.

*Test movements under P.C. 439 terminated on March 15, 1931, but Order in Council P.C. 1268 extended the provisions for a further period of one year.

ASSISTANCE PROVIDED FOR THE MOVEMENT OF NOVA SCOTIA COAL.—P.C. 1300*

The Committee of the Privy Council have had before them a report, dated 30th May, 1931, from the Minister of Mines submitting that the test movements of Nova Scotia coals authorized by Order in Council P.C. 539 of March 30, 1928, and as extended by P.C. 2256 of October 2, 1930, will expire March 31, 1932. These test movements have demonstrated that Nova Scotia coal can with limited assistance secure considerable markets at points in the Provinces of Quebec and Ontario where under the existing freight rates Nova Scotia coal is at a disadvantage in competing with coals imported from the United States.

In order, therefore, to enable Nova Scotia coals to compete to a greater extent in the areas aforementioned, the Minister of Mines recommends:

- (1) That assisted movements be instituted of shipments of coal mined in the Province of Nova Scotia, and shipped to points in the Provinces of Quebec and Ontario;
- (2) That with respect to coal mined in the Province of Nova Scotia and carried by vessel to St. Lawrence ports, and thence transhipped by the railways to points in the Province of Quebec, and to the town of Cornwall and to the City of Ottawa in the Province of Ontario, the assistance granted shall be by the reduction of one-fifth of a cent per ton per mile from the existing rates; provided that the assistance shall in no instance exceed 75 cents per ton;
- (3) That with respect to coal mined in the Province of Nova Scotia and carried by vessel to St. Lawrence ports and thence transhipped by the railways to points in the Province of Ontario other than the said town of Cornwall and the said City of Ottawa, the assistance granted shall be by the reduction of one-third of a cent per ton per mile from the existing rates; provided that the assistance shall in no instance exceed \$1 50 per ton.
- (4) With respect to coal mined in the Province of Nova Scotia and shipped wholly by rail to points in the Provinces of Quebec and Ontario, that the assistance granted shall be by the reduction of one-seventh of a cent per ton per mile from the existing rates; provided that the assistance shall in no instance exceed \$2 (two dollars) per ton, to be effective from November 15 to April 15 in each year of the assisted coal movement herein authorized;
- (5) That the amount of the said assistance shall be payable to the railways under the following conditions:—
 - (a) That the assistance shall apply only to movements of coal to points where the Canadian coal to be used is at a disadvantage in competing with foreign coal;
 - (b) That the assistance shall apply from June 1, 1931, to June 30, 1933;
 - (c) That with respect to coal used by the railways, the assistance shall apply on the basis of any increased tonnage of Canadian coal used by the railways over and above the average consumption of Canadian coal for the years 1928-1929-1930, subject to the conditions herein set forth as applying to industrial coal;
 - (d) That the assistance shall apply only to shipments of coal from coal mines or coal properties which were in operation and shipping coal prior to December 31, 1930;
 - (e) That the assistance shall not apply on shipments of less than carload lots;
 - (f) That the assistance shall not be granted to shippers who refuse or fail to furnish such information as the Minister of Mines may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines or such officers of the Dominion Fuel Board as he may designate shall have free access to all books, records or accounts kept by shippers or distributors in connection with this movement, and make such examination thereof as may be considered necessary or expedient;
 - (g) That the Minister of Mines reserves the right of refusing approval in each and every application for assistance under this authority.

The Minister further recommends:

- (6) That in order to provide for the payments hereby proposed to the railways and to provide for the expenses of administration of this Order in Council, a vote be placed in the estimates of the Department of Mines to cover payments to be made hereunder;
- (7) That the Dominion Fuel Board be charged with the administrative duties connected with this movement and shall report annually to the Minister of Mines as to the amount paid the railways during the period of the movement;
- (8) That Order in Council P.C. 539 of March 30, 1928, and its extension P.C. 2256 of October 2, 1930, be hereby rescinded, but that shipments shall be continued on acceptances that were granted under authority thereof until the tonnages authorized have been shipped.

* This Order in Council rescinded by P.C. 1048 of May 9, 1932.

ASSISTANCE PROVIDED FOR THE MOVEMENT OF SASKATCHEWAN LIGNITE TO MANITOBA—P.C. 1301

The Committee of the Privy Council have had before them a report dated the 30th May, 1931, from the Minister of Mines, submitting that Order in Council P.C. 1399 of June 14, 1930, provided assistance on lignite coal mined in the Province of Saskatchewan and shipped to competitive points in the Province of Manitoba. The amount of the assistance authorized is 50 cents per net ton.

The Minister states that the lignites of Saskatchewan, due to certain chemical and physical disadvantages when compared with higher grade bituminous coals have had only a limited utilization, particularly in the Manitoba market.

In order to encourage the further use of these Canadian coals, the Minister of Mines recommends:

- (1) That assisted movements be instituted of shipments of coal mined in the Province of Saskatchewan and shipped to points in the Province of Manitoba and to points in that portion of the Province of Ontario lying west of Sioux-lookout and Fort Frances;
- (2) That the assistance granted shall be by the reduction of one-seventh of a cent per ton per mile from the existing rates, provided that the assistance shall in no instance exceed \$1 per ton;
- (3) That the amount of the said assistance shall be payable to the railways under the following conditions:
 - (a) That the assistance shall apply only to movements of coal to points where the Canadian coal to be used is at a disadvantage in competing with foreign coal;
 - (b) That the assistance shall apply from June 1, 1931 to June 30, 1933;
 - (c) That the assistance shall not apply to coal when used for household purposes;
 - (d) That the assistance shall apply only to shipments of coal from coal mines or coal properties which were in operation and shipping coal prior to December 31, 1930;
 - (e) That the assistance shall not apply on shipments of less than carload lots;
 - (f) That the assistance shall not be granted to shippers who refuse or fail to furnish such information as the Minister of Mines may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines or such officers of the Dominion Fuel Board as he may designate shall have free access to all books, records or accounts kept by shippers or distributors in connection with this movement and make such examination thereof as may be considered necessary or expedient;
 - (g) That the Minister of Mines reserves the right of refusing approval in each and every application for assistance under this authority.

The Minister further recommends:

- (4) That in order to provide for the payments in the railways hereby proposed and to provide for the expenses of administration, of this Order in Council, a vote be placed in the estimates of the Department of Mines to cover payments to be made hereunder;
- (5) That the Dominion Fuel Board be charged with the administrative duties connected with this movement and shall report annually to the Minister of Mines as to the amount paid the railways during the period of the movement.



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ASSISTANCE PROVIDED FOR THE MOVEMENT OF BRITISH COLUMBIA COAL.—P.C. 1302

The Committee of the Privy Council have had before them a report, dated 30th May, 1931, from the Minister of Mines stating that the Government appreciates the importance to the Province of British Columbia of the welfare of the coal mining industry of that province and is aware that in recent years the output of coal from those mines has been considerably diminished owing to severe competition from other fuels. This curtailment of output has caused unsatisfactory industrial conditions in connection with a major industry of the province. It appears that with reasonable assistance certain restoration of markets can be made possible by improving the position of British Columbia coals in competing with other fuels for the bunkering or export trade.

In order, therefore, to enable British Columbia coals to obtain a wider range of utilization the Minister of Mines recommends:

- (1) That assistance to the extent of the sum of twenty-five cents per net ton be paid to coal producers or coal distributors on sales of coal mined in British Columbia and sold as fuel for ships' stores or for export to foreign countries, in the manner and under the conditions set forth as follows:
 - (a) That the assistance shall apply to coal for fuelling ocean-going vessels but not for vessels navigating entirely in inland waters;
 - (b) That the assistance shall apply to coal exported to foreign countries but not to coal exported for consumption in the United States of America;
 - (c) That the assistance shall apply from June 1st, 1931, to June 30, 1933;
 - (d) That the assistance shall apply only to shipments of coal from coal mines or coal properties which were in operation and shipping coal prior to December 31st, 1930;
 - (e) That the assistance shall not be granted to coal producers or coal distributors who refuse or fail to furnish such information as the Minister of Mines may consider necessary in the administrative duties connected with this assistance; and that for the purpose of certifying such information the Minister of Mines or such officers of the Dominion Fuel Board as he may designate shall have free access to all books, records or accounts kept by the said coal producers or coal dealers in connection with this assistance and make such examination thereof as may be considered necessary or expedient;
 - (f) That total annual payments to be made under this authority shall not exceed the sum of \$50,000 (fifty thousand dollars);
 - (g) That the Minister of Mines reserves the right of refusing approval in each and every application for assistance under this authority.

The Minister further recommends:

- (2) That in order to provide for the payments to be made under this authority and to provide for the expenses of administration of same, a vote be placed in the estimates of the Department of Mines to cover payments to be made hereunder;
- (3) That the Dominion Fuel Board be charged with the administrative duties connected with this assistance and shall report to the Minister of Mines as to the amount paid during the period of its operation.

ASSISTANCE PROVIDED FOR THE MOVEMENT OF COAL MINED IN ALBERTA AND IN THE CROWSNEST PASS DISTRICT, BRITISH COLUMBIA.—P.C. 1303

The Committee of the Privy Council have had before them a report, dated 30th May, 1931, from the Minister of Mines, submitting that the Government has been interested in the question of extending the markets for Canadian coals and is aware that certain interprovincial coal movements are restricted owing to the cost of transportation and to competition from foreign coals. To encourage these interprovincial movements it appears desirable to grant financial assistance to the transportation by rail of shipments of Canadian coals consigned to certain areas where under existing freight rates Canadian coals cannot compete with imported coals.

The Minister states that a potential market of considerable importance exists in the Province of Manitoba and in that portion of the Province of Ontario lying west of Sioux Lookout and Fort Frances for western Canadian coals, but under existing freight rates these Canadian coals are there placed at a disadvantage in competing with coals imported from the United States.

In order, therefore, to enable western Canadian coals to compete to a greater extent in the areas aforementioned, the Minister of Mines recommends:

- (1) That assisted movements be instituted of shipments of coal mined in the Province of Alberta, and in the Crowstneest Pass District of British Columbia, and shipped to points in the Province of Manitoba and to points in that portion of the Province of Ontario lying west of Sioux Lookout and Fort Frances;
- (2) That with respect to coal mined in the Province of Alberta and in the Crowstneest Pass districts of British Columbia and shipped to points in the Province of Manitoba, that the assistance granted shall be by the reduction of one seventh of a cent per ton per mile from the existing freight rates, provided that the assistance shall in no instance exceed \$1 50 (one dollar and fifty cents) per ton;
- (3) That with respect to coal mined in the Province of Alberta and in the Crowstneest Pass district of British Columbia and shipped to points in that portion of the Province of Ontario lying west of Sioux Lookout and Fort Frances, that the assistance granted shall be by the reduction of one-third of a cent per ton per mile from the existing freight rates, provided that the assistance shall in no instance exceed \$2 per ton;
- (4) That the amount of the said assistance shall be payable to the railways under the following conditions:—
 - (a) That the assistance shall apply only to movements of coal to points where the Canadian coal to be used is at a disadvantage in competing with foreign coal;
 - (b) That the assistance shall apply from June 1, 1931, to June 30, 1933;
 - (c) That the assistance shall not apply to coal when used for household purposes;
 - (d) That with respect to coal used by the railways the assistance shall apply on the basis of any increased tonnage of Canadian coal used by the railways over and above the average consumption of Canadian coal for the years 1928-1929-1930, subject to the conditions herein set forth as applying to industrial coal;
 - (e) That the assistance shall apply only to shipments of coal from coal mines or coal properties which were in operation and shipping coal prior to December 31, 1930;
 - (f) That the assistance shall not apply on shipments of less than carload lots;
 - (g) That the assistance shall not be granted to shippers who refuse or fail to furnish such information as the Minister of Mines may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines or such officers of the Dominion Fuel Board as he may designate shall have free access to all books, records or accounts kept by shippers or distributors in connection with this movement and make such examination thereof as may be considered necessary or expedient;
 - (h) That the Minister of Mines reserves the right of refusing approval in each and every application for assistance under this authority.

The Minister further recommends:

- (5) That in order to provide for the payments to the railways hereby proposed and to provide for the expenses of administration of this Order in Council, a vote be placed in the estimates of the Department of Mines to cover payments to be made hereunder;
- (6) That the Dominion Fuel Board be charged with the administrative duties connected with this movement and shall report annually to the Minister of Mines as to the amount paid the railways during the period of movement.