

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

COAL STATISTICS FOR CANADA

FOR THE CALENDAR YEAR
1938

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1940

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, manufacturers 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—Acrated Waters, 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); Woollen Textiles (Cloth, Yarn, Blankets, Felt and Waste); Silk Products; Factory-Made Clothing; Carpets, Rugs and Mats; Cordage, Rope and Twine.
- (4) **Wood and Paper**, including—Pulp and Paper Mill Products; Paper Goods; Printing, Publishing and Lithographing; Saw and Planing Mill Products; Furniture; Carriages, Wagons and Sleighs; Wooden Containers; Woodenware; Turned Wood Products; and the Output of Similar Wood-Using Industries.
- (5) **Iron and Steel and Their Products**, including—Pig Iron and Ferro-Alloys; Steel and Rolled Products; Castings and Forgings; Boilers, Tanks and Engines; Farm Implements; Machinery; Automobiles; Auto Parts and Accessories; Bicycles; Railway Rolling Stock; Wire and Wire Goods; Sheet Metal Products; Hardware, Tools and Cutlery; Bridge Building and Structural Steel Work; Miscellaneous Iron and Steel Products.
- (6) **Manufactures of the Non-Ferrous Metals**, including—Aluminium Products; Brass and Copper Products; Lead, Tin and Zinc Products; Jewellery and Silverware; Electrical Apparatus and Supplies; Non-Ferrous Smelting and Refining; Miscellaneous Non-Ferrous Metal Products.
- (7) **Manufactures of the Non-Metallic Minerals**, including—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; Medicinal and Pharmaceutical Preparations; Paints, Pigments and Varnishes; Soaps and Washing Compounds—Toilet Preparations; Inks; Adhesives; Polishes and Dressings; Hardwood Distillation; Miscellaneous Chemical Products, including, (a) Boiler Compounds, (b) Cellulose Products; (c) Insecticides; (d) Sweeping Compounds, (e) Disinfectants; (f) Matches; (g) Dyes and Colours; (h) Explosives, Ammunition and Fireworks; (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 Dominion Bureau of Statistics issues statistical information on coal and coke through three channels: (1) a monthly bulletin issued about 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 on coal in permanent form. In the monthly report early publication is the primary consideration, the production figures being assembled by postcard and by telegram.

Research work on coal preparation, storage properties, and general characteristics of coal seams was carried out in the Fuel Research Laboratories of the Dominion Department of Mines and Resources, in an endeavour to extend the use of these coals in Canadian plants at the expense of the imported product. The amenability of various Canadian coals to hydrogenation was the subject of research work during the year. This work will provide information that should be of value when the time is opportune for the commercial application of the hydrogenation process to Canadian coals.

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 Bureau gratefully acknowledges its indebtedness to the governments of the coal-producing provinces for co-operation in this connection, and to the members of the Dominion Fuel Board for their assistance.

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, March 7, 1940.

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.

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

The coal import data shown in the Quarterly Trade Report include only the tonnages entered for consumption, or in other words, the quantity cleared from customs. The import data as recorded in this report, unless otherwise indicated, include the total quantity of coal reaching Canadian ports whether or not it is cleared from customs. There is no appreciable difference between the two sets of figures for anthracite coal importations. Anthracite coal enters Canada free under the British Preferential Tariff, but under the Intermediate and General Tariff it is subject to a duty of 50 cents a ton and to the 3 per cent excise tax on imports. The bituminous coal data show a considerable difference, due to the fact that the duty on imported bituminous coal (preferential tariff, 35 cents per ton; intermediate and general tariff, 75 cents a ton), which results in large quantities of this coal, imported for industrial use, remaining at the port of entry until required. In addition to these import data a close check is maintained on the regional rail and water movements of anthracite and bituminous coal. A record of the exports of Canadian coal by ports of exit is also maintained.

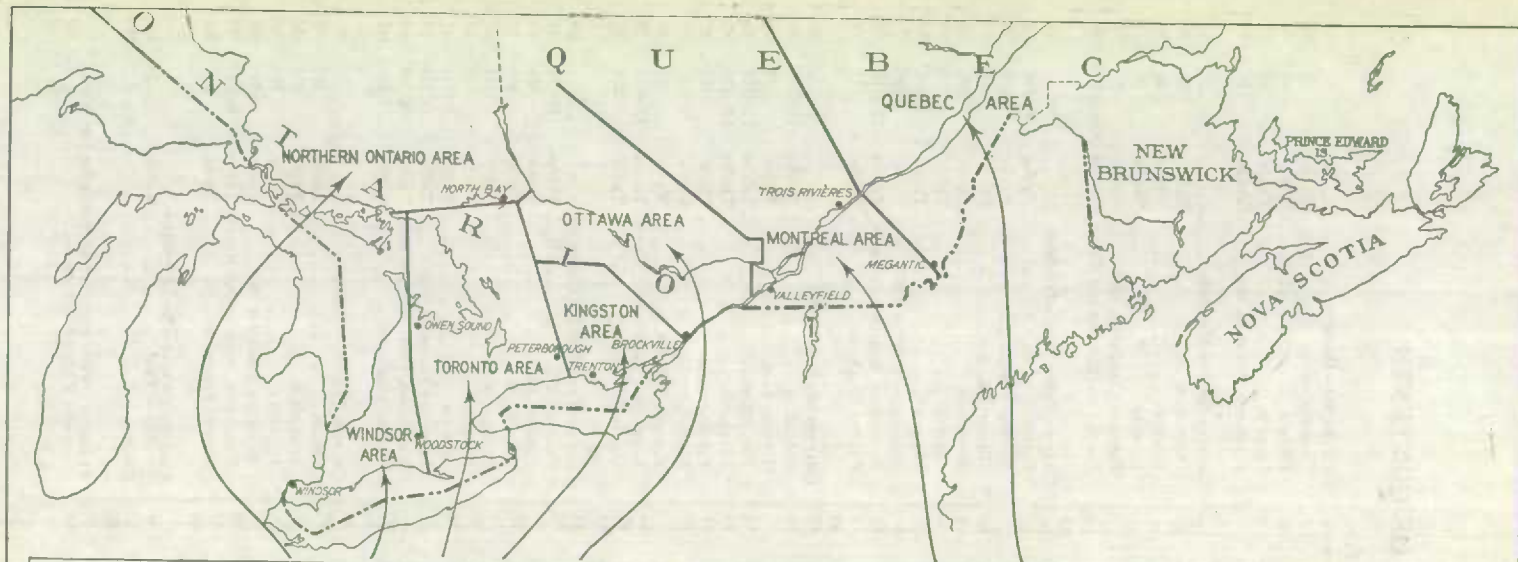
(3) PUBLICATIONS OF THE BUREAU ON COAL

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.

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	N. ONTARIO	WINDSOR	TORONTO	KINGSTON	OTTAWA
ANTHRACITE					
GREAT BRITAIN.....	Imported direct.....	1,512	—	77,527	1,593
	Received ex-Montreal.....	21,919	1,214	197,875	23,344
BELGIUM.....	Imported direct.....	—	—	25,164	—
	Received ex-Montreal.....	—	—	145	—
GERMANY.....	Imported direct.....	—	—	22,582	—
	Received ex-Montreal.....	—	—	19,430	—
FR. INDO-CHINA.....	Received ex-Montreal.....	—	—	14,483	—
RUSSIA.....	Received ex-Montreal.....	—	—	5,612	—
NETHERLANDS.....	Imported direct.....	—	—	15,064	—
	Received ex-Montreal.....	—	—	2,492	—
UNITED STATES.....	Imported direct.....	27,927	176,900	1,234,511	52,245
	Received ex-Montreal.....	—	—	—	84,466
TOTAL	51,356	178,114	1,615,043	77,162	205,412
BITUMINOUS					
UNITED STATES.....	Received ex-Montreal.....	1,709,555	1,846,706	4,309,597	244,724
NOVA SCOTIA.....	Received ex-Montreal.....	220,094	24,873	185,726	406,666
NEW BRUNSWICK.....	Received ex-Montreal.....	—	—	33,334	—
ALBERTA.....	Received ex-Montreal.....	—	—	264	—
BRITISH COLUMBIA.....	Received ex-Montreal.....	—	—	35,038	—
LIGNITE					
SASKATCHEWAN.....	Received ex-Montreal.....	—	—	20,094	—
ALBERTA.....	Received ex-Montreal.....	—	—	39,800	—

* Also includes some coal trans-shipped from Saint John, New Brunswick.

	MONTREAL	QUEBEC
ANTHRACITE		
GREAT BRITAIN.....	1569,696	80,772
UNITED STATES.....	334,985	29,879
GERMANY.....	295,034	56,421
RUSSIA.....	9,340	—
BELGIUM.....	8,673	—
MOROCCO.....	13,331	6,314
FRENCH INDO-CHINA.....	13,373	—
NETHERLANDS.....	18,693	—
TOTAL	1,261,325	173,386
BITUMINOUS		
GREAT BRITAIN.....	21,758	2,823
UNITED STATES.....	786,001	45,780
GERMANY.....	84,258	—
NOVA SCOTIA.....	2,280,148	—
NEW BRUNSWICK.....	29,796	—

* Includes some Scotch anthracite received ex-Saint John, New Brunswick.
† Excludes coal shipped into this area and then trans-shipped to Ontario points.

RECEIPTS OF COAL IN ONTARIO AND QUEBEC BY AREAS 1938 (Short Tons)



DOMINION BUREAU OF STATISTICS

R. H. COATS, LL.D., F.R.S.C., F.S.S., (Hon.) Dominion Statistician

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

COAL STATISTICS FOR CANADA

FOR THE CALENDAR YEAR 1938

CHAPTER ONE

CANADA

The Canadian output of coal in 1938 amounted to 14,294,718 tons worth \$43,982,171 compared with 15,835,954 tons at \$48,752,048 in the preceding year and 15,229,182 tons valued at \$45,791,934 in 1936. Bituminous coal production in 1938 totalled 10,329,782 tons, sub-bituminous coal, 488,915 tons and lignite coal, 3,476,021 tons.

A 14.1 per cent decline was recorded in the Nova Scotia output in 1938 when 6,236,417 tons were produced as against 7,256,954 tons in 1937. New Brunswick operators mined 342,238 tons in 1938; during the preceding year 364,714 tons were produced. Production from Manitoba mines amounted to 2,016 tons in 1938. Saskatchewan's output in 1938 was 2.6 per cent lower at 1,022,166 tons. During the year under review, Alberta produced 5,251,233 tons, consisting of 2,310,479 tons of bituminous coal, 488,915 tons of sub-bituminous coal and 2,451,839 tons of lignite coal. The Alberta output in 1937 was made up of 2,413,784 tons of bituminous coal, 506,260 tons of sub-bituminous coal and 2,642,795 tons of lignite coal. A 10 per cent falling-off was shown in the British Columbia production in 1938 compared with the previous year; the totals were, 1,440,287 tons and 1,598,843 tons, respectively. Yukon produced 361 tons of coal in 1938; in the previous year 84 tons were mined.

Exports of Canadian coal in 1938 amounted to 353,181 tons as against 355,268 tons in 1937. Clearances through Prince Edward Island, Nova Scotia, New Brunswick, Quebec and Ontario ports rose to 207,644 tons; on the other hand, exports through the western ports declined 3.5 per cent to 145,537 tons. From April 1, 1937, Canadian coal sold for bunkering purposes has been excluded from the export records. Foreign coal re-exported from Canada in 1938 aggregated 116,322 tons.

Canada imported 13,284,296 tons of coal in 1938 compared with 15,815,032 tons in the previous year and 13,735,166 tons in 1936. Receipts of anthracite coal during the year under review totalled 3,714,001 tons made up of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, 37,594 tons from the Netherlands, 34,182 tons from Belgium, 27,856 tons from French Indo-China, 19,645 tons from Morocco and 14,952 tons from Russia. Great Britain supplied 32.3 per cent of Canada's anthracite requirements in 1938; 31.8 per cent a year ago and 46.5 per cent in 1934. Anthracite coal from the United States supplied 53.1 per cent of the Canadian requirements during the year; 55.8 per cent in 1937 and 51.0 per cent in 1934. Imports of bituminous coal aggregated 9,567,334 tons or 21.8 per cent below the 1937 total of 12,241,270 tons. The year's supply of bituminous coal was obtained from the following sources: the United States, 98.9 per cent, Great Britain, 0.7 per cent and Germany and Japan the remainder. Importations of lignite coal from the United States amounted to 2,961 tons in 1938.

Canadian coal mines furnished employment, on the average, to 25,767 wage-earners in 1938; the previous year's average was 25,890 men. Nova Scotia and New Brunswick mines employed 14,712 wage-earners and the western mines, 11,055 men. Workers on the surface averaged 236 days work in 1938 while those underground averaged 200 days. In addition to these men, there were 1,307 salaried employees on the mine pay-rolls. Salaries and wages paid to all employees working in or about the Canadian coal mines during the year under review amounted to \$28,699,781; a year ago employees received \$31,641,679.

Canada's coal supply, computed on the basis of production plus imports less exports, amounted to 27,225,833 tons in 1938, or 13 per cent below the tonnage made available in 1937. These figures represent the actual tonnages available to Canadian consumers but, do not represent the quantity consumed during the year. The total amount of coal reaching the Canadian market in 1938 was estimated at 25,812,728 tons.

The Canadian fuel requirements are not all supplied by coal; in addition, coke, natural and artificial gas, fuel oil, wood and electricity are used for industrial and domestic purposes. Coke made available for use in Canada in 1938 totalled 2,602,368 tons compared with 2,951,059 tons in the preceding year. Canadian producers sold 863,306 tons of coke in 1938 for domestic use; 702,038 tons were used in metallurgical works operated by producing companies; 232,334 tons were used by coke plants as fuel or to make water gas; 426,375 tons were sold for other uses and about 128,000 tons were added to stocks. There was a 0.7 per cent decline in the imports of coke made from coal; the 1938 total was 414,682 tons while in the preceding year, 417,733 tons were imported. Coke and gas manufacturers in Canada used 1,008,895 tons of Canadian coal and 2,219,119 tons of imported coal during the year under review.

Petroleum coke production in 1938 totalled 64,009 tons and imports amounted to 81,294 tons while exports were recorded at 25,408 tons. The consumption of this coke for domestic heating in 1938 was estimated at 51,684 tons; in addition, 667 tons were used for industrial heating. Stocks on hand at fuel dealers, distributors, importers' storage and at refineries totalled 109,095 tons on January 1, 1938 and 94,040 tons on December 31, 1938.

Manufactured gas production during the year consisted of 34,360,225 M cu. ft. from by-product ovens and 8,572,496 M cu. ft. from gas plants. Thirty-five per cent of this quantity or 15,198,068 M cu. ft. was sold; most of the remainder was used as a fuel in the producing plants or their associated metallurgical works. These figures do not include 41,232 M cu. ft. of Pintsch oil gas used for lighting railway cars, 6,486,618 M cu. ft. of still gas recovered and used at petroleum refineries, nor iron blast furnace gas and some producer gas which was recovered and used by producers but for which no records are available.

In 1938, natural gas consumption in Canada consisted of 19,400,000 thousand cubic feet for domestic purposes and 14,045,000 thousand cubic feet for industrial use. It is estimated that the domestic consumption of natural gas during the year resulted in an apparent displacement of 776,000 tons of coal.

Fuel and gas oils made available for use in Canada in 1938 amounted to 592.7 million imperial gallons compared with 563.8 million gallons in 1937. A survey made by the Department of Mines and Resources shows that the Canadian consumption of fuel oil in 1938 was made up as follows: for domestic and building heating, 119 million imperial gallons; for industrial use, 164 million imperial gallons; for bunkering purposes, 175 million imperial gallons; for railways, 51 million imperial gallons and for tractor fuel, 27 million imperial gallons. A possible coal displacement of 788,079 tons was indicated by the quantity of fuel oil used for domestic heating in 1938.

Table 1.—Output of Coal from Canadian Mines, 1785-1938

Year	Short tons	Value	Average per ton	Year	Short tons	Value	Average per ton
		\$	\$			\$	\$
1785-1866.....	2,863,826	4,905,462	1.71	1904.....	8,254,595	16,592,231	2.01
1867.....	631,320	1,056,725	1.67	1905.....	8,667,948	17,520,263	2.02
1868.....	623,392	1,073,061	1.72	1906.....	9,762,601	19,732,019	2.02
1869.....	687,825	1,155,282	1.68	1907.....	10,511,426	24,381,842	2.32
1870.....	752,635	1,243,139	1.65	1908.....	10,886,311	25,194,573	2.31
1871.....				1909.....	10,501,475	24,781,236	2.36
1872.....	3,033,152	5,073,331	1.67	1910.....	12,909,152	30,909,779	2.39
1873.....				1911.....	11,323,388	26,467,646	2.34
1874.....	1,063,742	1,763,423	1.66	1912.....	14,512,829	36,019,044	2.48
1875.....	1,039,974	1,747,016	1.68	1913.....	15,012,178	37,334,940	2.49
1876.....	994,762	1,729,546	1.74	1914.....	13,637,529	33,471,801	2.45
1877.....	1,036,670	1,794,415	1.73	1915.....	13,267,023	32,111,182	2.42
1878.....	1,089,744	1,941,285	1.78	1916.....	14,483,395	38,817,481	2.68
1879.....	1,126,497	2,050,639	1.82	1917.....	14,046,750	43,199,431	3.08
1880.....	1,482,714	2,657,194	1.79	1918.....	14,077,926	55,192,866	3.68
1881.....	1,537,106	2,693,821	1.75	1919*	13,919,096	55,692,670	3.99
1882.....	1,848,148	3,248,440	1.76	1920*	16,916,764	82,496,538	4.86
1883.....	1,818,684	3,109,635	1.71	1921*	15,057,493	72,431,656	4.81
1884.....	1,984,959	3,563,831	1.81	1922*	15,157,431	65,518,497	4.32
1885.....	1,920,977	3,417,867	1.78	1923*	16,090,571	72,058,986	4.24
1886.....	2,116,653	3,739,840	1.77	1924*	13,639,197	53,593,688	3.93
1887.....	2,429,330	4,388,206	1.81	1925*	13,134,968	49,261,951	3.75
1888.....	2,602,552	4,674,149	1.80	1926*	16,478,131	59,875,094	3.63
1889.....	2,658,303	4,894,287	1.84	1927*	17,426,861	61,867,463	3.55
1890.....	3,084,682	5,676,247	1.84	1928*	17,564,293	63,757,833	3.63
1901.....	3,577,749	7,019,425	1.96	1929*	17,496,557	63,065,170	3.60
1902.....	3,267,745	6,363,757	1.94	1930*	14,881,324	52,849,748	3.55
1903.....	3,763,499	7,359,080	1.95	1931*	12,243,211	41,207,682	3.37
1904.....	3,847,070	7,429,408	1.92	1932*	11,738,913	37,117,695	3.16
1905.....	3,479,344	6,739,153	1.94	1933*	11,903,344	35,923,962	3.02
1906.....	3,745,716	7,296,463	1.93	1934*	13,810,193	42,045,942	3.04
1907.....	3,786,107	7,303,567	1.93	1935*	13,858,000	41,963,110	3.02
1908.....	4,173,108	8,234,288	1.97	1936*	15,229,182	45,791,934	3.00
1909.....	4,925,051	10,283,497	2.09	1937*	15,835,954	48,752,048	3.08
1910.....	5,777,319	13,742,178	2.38	1938*	14,294,718	43,982,171	3.08
1911.....	6,486,325	12,699,243	1.96				
1912.....	7,466,681	15,210,877	2.04	Total.....	581,112,467	1,744,096,538	3.00
1913.....	7,960,364	15,942,833	2.00				

*For the years 1919-1938 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 2.—Output of Coal in Canada, by Grades, 1918-1938

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				3,220,331		11,977,926	55,192,896
1919.....	85,579		10,892,049				2,941,471		13,919,096	55,622,670
1920.....	127,513		13,122,924				3,695,327		16,945,764	82,496,538
1921.....	96,964	330,609	11,680,477	58,848,444			3,280,052	13,272,513	15,057,193	72,451,656
1922.....	40,417	122,538	11,630,489	53,348,507			3,486,526	12,047,452	15,152,431	65,518,497
1923.....	107	322	12,941,877	58,478,670	468,492	1,390,424	3,582,095	12,180,570	16,999,571	72,058,986
1924.....			9,483,732	10,682,894	590,168	1,781,086	3,564,297	11,170,008	13,638,197	53,593,688
1925.....			8,930,607	36,793,501	570,654	1,731,267	3,624,707	10,737,183	13,134,968	49,261,951
1926.....			12,393,079	18,153,572	489,736	1,458,116	3,595,316	10,203,406	16,478,131	59,875,094
1927.....			13,006,906	19,385,818	596,155	1,781,973	3,823,710	10,698,672	17,426,861	61,867,463
1928.....			12,971,744	50,581,108	740,496	2,076,215	3,852,053	11,067,318	17,564,293	63,757,833
1929.....			12,859,823	49,995,261	668,702	1,908,854	3,908,033	11,160,955	17,496,557	63,065,170
1930.....			10,824,839	41,789,061	603,358	1,795,236	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	6,890,755	12,243,211	41,207,682
1932.....			7,714,279	28,073,744	560,902	1,329,316	3,463,732	7,714,635	11,738,913	37,117,695
1933.....			7,979,287	27,757,150	554,118	1,274,017	3,369,943	6,892,795	11,903,344	35,923,962
1934.....			10,058,782	34,356,274	537,508	1,256,936	3,213,903	6,452,732	13,810,193	42,045,942
1935.....			9,748,841	33,150,781	566,425	1,410,926	3,572,740	7,401,403	13,858,000	41,963,110
1936.....			10,796,135	36,256,347	566,235	1,432,741	3,866,812	8,102,846	15,229,182	45,791,934
1937.....			11,634,379	39,661,259	506,260	1,314,196	3,695,315	7,776,593	15,835,954	48,752,048
1938.....			10,329,782	35,403,781	488,915	1,269,131	3,470,021	7,309,259	14,294,718	43,982,171

*Not separately reported prior to 1923.

Table 3.—Output and Value of Coal in Canada, by Kinds and by Provinces,
1937 and 1938

(Short tons)

Province	1937			1938		
	Number of mines	Quantity	Value \$	Number of mines	Quantity	Value \$
NOVA SCOTIA (Bituminous).....	38	7,256,954	25,640,819	41	6,236,417	22,523,802
NEW BRUNSWICK (Bituminous).....	24	364,714	1,180,611	22	342,238	1,133,346
MANITOBA (Lignite).....	2	3,172	7,709	2	2,016	5,660
SASKATCHEWAN (Lignite).....	*143	1,049,348	1,494,337	*134	1,022,166	1,380,416
ALBERTA—						
Bituminous.....	17	2,413,784	6,975,168	17	2,310,479	6,506,156
Sub-bituminous.....	17	506,260	1,314,196	20	488,915	1,269,131
Lignite.....	236	2,642,795	6,274,547	239	2,451,839	5,923,183
Total.....	†270	5,562,839	14,563,911	†276	5,251,233	13,698,470
BRITISH COLUMBIA (Bituminous).....	25	1,598,843	5,863,849	22	1,440,287	5,237,077
YUKON (Bituminous).....	1	84	812	1	361	3,400
CANADA—						
Bituminous.....	165	11,634,379	39,661,259	163	10,329,782	35,403,781
Sub-bituminous.....	17	506,260	1,314,196	20	488,915	1,269,131
Lignite.....	381	3,695,315	7,776,593	375	3,476,021	7,309,259
Total.....	563	15,835,954	48,752,048	498	14,294,718	43,982,171

*Exclusive of 46 small mines in operation during part of 1937 and 33 small mines operating during part of 1938.

†Exclusive of 53 small mines operated under special permits in 1937 and 39 small mines in 1938.

Table 4.—Output of Coal from Canadian Mines, by Months, 1934-1938

(Short tons)

Month	1934	1935	1936	1937	1938
January.....	1,290,708	1,520,325	1,391,288	1,499,326	1,470,964
February.....	1,009,996	1,018,092	1,492,431	1,286,379	1,409,036
March.....	1,031,525	1,038,668	1,028,417	1,110,598	1,222,621
April.....	815,015	892,896	937,740	989,653	873,193
May.....	1,005,221	926,493	999,754	1,078,603	1,020,609
June.....	982,952	930,093	1,038,224	1,073,670	934,750
July.....	991,167	981,080	1,064,843	1,145,334	825,940
August.....	1,097,064	987,846	1,056,032	1,241,948	1,012,901
September.....	1,305,798	1,118,198	1,448,051	1,421,383	1,117,269
October.....	1,562,917	1,558,683	1,808,166	1,712,369	1,503,608
November.....	1,429,128	1,622,322	1,467,155	1,689,747	1,552,841
December.....	1,288,702	1,293,310	1,497,081	1,606,948	1,350,986
Total.....	13,810,193	13,888,066	15,229,182	15,835,954	14,294,718

Table 5.—Output and Value of Coal in Canada, by Kinds and by Months, 1938

Month	Bituminous		Sub-Bituminous		Lignite		Total	
	Short tons	Value	Short tons	Value	Short tons	Value	Short tons	Value
		\$		\$		\$		\$
January.....	956,867	3,207,527	61,618	162,083	452,479	943,094	1,470,964	4,312,704
February.....	913,910	2,989,719	61,105	157,991	434,012	916,862	1,409,036	4,064,572
March.....	935,502	3,039,525	86,241	208,220	200,788	371,566	1,222,621	3,619,311
April.....	717,711	2,332,143	34,227	81,026	121,255	208,180	873,193	2,621,349
May.....	916,757	3,192,184	8,108	22,594	95,744	163,545	1,020,609	3,378,323
June.....	852,021	3,015,925	7,741	21,256	74,988	124,723	931,750	3,161,904
July.....	740,750	2,602,749	11,166	29,454	74,024	120,832	825,910	2,753,135
August.....	827,768	2,877,640	15,616	42,818	169,517	353,509	1,012,901	3,273,967
September.....	851,899	3,002,919	34,425	92,046	230,945	463,223	1,117,269	3,588,188
October.....	929,051	3,316,300	53,022	144,272	521,535	1,213,438	1,593,608	4,674,010
November.....	868,493	3,007,401	57,954	156,671	626,394	1,393,840	1,552,841	4,557,912
December.....	818,954	2,819,749	57,692	150,700	474,340	1,006,347	1,350,936	3,976,796
Total.....	10,329,782	35,403,781	488,915	1,269,131	3,476,021	7,309,259	14,294,718	43,982,171

Table 6.—Tonnage Lost in the Coal Mines of Canada, in 1937 and 1938 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				
				Absentee-ism	Lack of orders	Car shortage	Mine disability	Other causes
NOVA SCOTIA.....	1937	77	23	2.7	16.9		1.6	1.8
	1938	63	37	1.5	33.5		1.0	1.0
NEW BRUNSWICK.....	1937	78	22	2.6	17.0		2.1	0.3
	1938	67	33	2.2	28.2	0.1	1.4	1.1
MANITOBA.....	1937	75	25	0.0	25.0			
	1938	90	10		10.0			
SASKATCHEWAN.....	1937	74	26		26.0			
	1938	73	27		26.8		0.1	0.1
ALBERTA.....	1937	69	31	0.5	30.1		0.1	0.3
	1938	67	33	0.6	31.7		0.4	0.3
BRITISH COLUMBIA.....	1937	82	18	0.2	16.8	0.1		0.9
	1938	74	26	0.1	25.5		0.3	0.1
Canada.....	1937	75	25	1.3	22.3	0.0	0.6	0.8
	1938	66	34	1.0	31.6	0.0	0.7	0.7

Table 7.—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 1938

Month		Per cent produced	Per cent lost	Percentage lost through				
				Absentee-ism	Lack of orders	Car shortage	Mine disability	Other causes
January.....		72	28	1.0	25.6		0.6	0.8
February.....		73	27	1.0	23.6		0.8	1.6
March.....		63	37	1.2	34.8		0.5	0.5
April.....		54	46	1.0	44.0		0.6	0.4
May.....		69	31	0.7	29.3		0.6	0.4
June.....		64	36	0.7	34.5		0.4	0.4
July.....		58	42	0.9	39.9		0.8	0.4
August.....		60	40	0.9	38.3		0.4	0.4
September.....		64	36	0.9	33.3		1.2	0.6
October.....		73	27	1.1	24.6		0.4	0.9
November.....		73	27	1.1	25.1		0.3	0.5
December.....		65	35	0.8	32.4		1.1	0.7
Total.....		66	34	1.0	31.6		0.7	0.7

Table 8.—Disposition of Coal from Canadian Mines, 1937 and 1938

	1937			1938						
	Total coal	Total value	Average value per ton	Run-of-mine	Cobble and Lamp	Nut and other grades	Slack	Total coal	Total value	Average value per ton
	Tons	\$	\$	Tons	Tons	Tons	Tons	Tons	\$	\$
Supplied to employees for domestic consumption.....	189,253	542,843	2.87	135,140	44,660	6,436	877	187,113	535,110	2.86
Used for power purposes—										
(a) Shops.....	89,345	340,800	3.81	607	3,029	28,228	15,386	47,250	181,787	3.85
(b) Colliery boilers.....	571,469	1,478,980	2.59	106,959	4,541	64,769	329,550	506,219	1,302,236	2.57
(c) Companies' railroads.....	53,561	184,781	3.44	23,087	14,028	10,507	176	47,798	162,491	3.40
(d) Harbour tugs and dredges.....	1,249	4,425	3.54	1,434				1,434	4,330	3.02
Shipped. (See Table 10)——										
(a) Ships' bunkers.....	490,349			240,154	102,521	52,141	2,664	397,480		
(b) Railroads.....	3,461,162	45,435,881	3.15	2,496,714	545,021	101,285	74,093	3,217,113	41,598,731	3.17
(c) Other.....	10,461,988			935,413	3,260,216	1,594,600	3,821,286	9,521,515		
Used in making coke at colliery.....	175,287	416,640	2.38				190,112	190,112	482,531	2.54
Used in making briquettes.....	25,334	76,767	3.03				37,241	37,241	119,674	3.21
Put on bank.....	1,620,876	5,360,713	3.31	300,475	385,189	35,971	679,138	1,460,773	4,832,931	3.31
Put on waste heap.....	249,304						265,055			
Total disposition.....	17,398,177	53,841,830	3.09	4,299,983	4,359,205	1,803,937	5,150,923	15,879,103	49,215,821	3.10
Lifted from bank.....	1,555,586	5,089,782	3.27	85,901	725,574	32,126	734,495	1,578,096	5,237,650	3.32
Lifted from waste heap.....	6,637						6,280			
Total output.....	15,835,954	48,752,048	3.08	4,214,082	3,633,631	1,771,811	4,416,428	14,294,718	43,982,171	3.08

Table 9.—Disposition of Coal from Canadian Mines, by Provinces, 1938

(Short tons)

	Nova Scotia	New Brunswick	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Canada
Supplied to employees for domestic consumption.....	124,112	3,753	31	2,540	38,394	18,283		187,113
Coal shipped. (See Table 10)....	5,770,319	334,154	1,780	961,526	4,880,532	1,187,427	361	13,136,108
Used under colliery boilers, etc....	264,353	1,833	196	24,430	136,854	78,553		506,219
Used by companies' railroads.....	27,771	970		9,179	6,239	3,633		47,798
Used for manufacture of coke at colliery.....					103,497	86,615		190,112
Used in making briquettes.....					37,241			37,241
Used in shops, etc.....	47,250							47,250
Used by harbour tugs and dredges.....	1,434							1,434
Put on bank.....	1,331,658	12,757		8,135	47,002	61,221		1,460,773
Put on waste heap.....	96,033	570		25,879	62,743	79,830		265,055
Total disposition.....	7,662,830	351,043	2,016	1,031,689	5,312,502	1,515,562	361	15,879,103
Lifted from bank.....	1,425,362	11,805		9,523	58,864	72,542		1,578,096
Lifted from waste heap.....	1,151				2,405	2,733		6,289
Total output.....	6,236,417	342,238	2,016	1,022,166	5,251,233	1,440,287	361	14,294,718

Table 10.—Shipments of Coal from Canadian Mines, by Grades and Destinations, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of-mine	Cobble and Lump	Nut and other grades	Slack	Total	Run-of-mine	Cobble and Lump	Nut and other grades	Slack	Total
Prince Edward Island	6,710	44,980	4,296	12,023	68,009	7,854	43,110	4,019	13,651	68,634
Nova Scotia	187,173	400,287	29,199	929,819	1,546,478	151,072	347,777	30,893	800,803	1,330,455
New Brunswick	209,188	96,231	16,536	346,293	668,248	148,860	114,312	23,622	282,038	568,832
Quebec	57,578	1,066,590	134,776	1,741,202	3,000,146	60,379	965,392	118,288	1,606,375	2,750,434
Ontario	9,791	56,986	46,356	90,855	203,988	1,703	47,431	25,810	54,578	129,522
Manitoba	49,236	330,243	323,460	280,179	983,118	32,095	299,941	291,630	303,787	927,453
Saskatchewan	218,078	779,241	383,782	219,656	1,600,757	188,288	676,655	412,682	228,547	1,506,172
Alberta	259,433	468,290	291,406	279,975	1,299,104	274,351	427,505	287,003	254,970	1,243,829
British Columbia	43,144	263,270	257,276	215,946	779,636	35,523	219,255	274,177	205,223	734,178
Yukon			25		25	107	254			361
Northwest Territories		82			82		128			128
Total domestic shipments	1,040,331	3,506,200	1,487,112	4,115,948	10,149,591	900,232	3,141,760	1,468,034	3,749,972	9,259,998
Railroads—										
In Canada	2,781,607	553,712	30,290	72,215	3,437,824	2,485,207	539,461	101,285	74,093	3,200,046
In United States	13,118	140	274	526	14,058	11,507				11,507
In Newfoundland		9,280			9,280		5,560			5,560
Ships' bunkers	309,784	129,963	57,510	2,092	499,349	240,154	102,521	52,141	2,664	397,490
Total railroads and ships' bunkers	3,104,509	693,095	88,074	74,833	3,960,511	2,730,868	647,542	153,426	76,757	3,614,593
United States	1,309	23,021	47,655	110,626	182,611	5,381	20,831	35,999	71,314	133,525
Alaska		13,123	157		13,280		12,391	452		12,843
Newfoundland	15,811	96,098		12	111,921	28,198	81,626	115		109,939
Other countries (St. Pierre)	1,145	3,440			4,585	1,602	3,608			5,210
Lost at sea										
Total external shipments	18,265	135,682	47,812	110,638	312,397	35,181	118,456	36,566	71,314	261,617
Total	4,163,105	4,334,977	1,622,998	4,301,419	14,422,499	3,672,281	3,907,758	1,658,026	3,898,043	13,136,108

Table 11.—Exports of Canadian Coal, 1873-1938

(Compiled in the *External Trade Branch*)

Calendar year	Short tons	Value	Calendar year	Short tons	Value	Calendar year	Short tons	Value
		\$			\$			\$
1873	420,683		1896	1,106,661		1919	2,070,650	12,438,855
1874	310,988		1897	986,130		1920	2,558,174	18,014,899
1875	250,348		1898	1,150,029		1921	1,987,251	13,896,370
1876	248,638		1899	1,293,169		1922	1,819,582	11,159,060
1877	301,317		1900	1,787,777		1923	1,654,406	10,661,399
1878	327,959		1901	1,573,661		1924	773,246	4,830,848
1879	306,648		1902	2,090,268		1925	785,910	4,329,173
1880	432,188		1903	1,954,629		1926	1,028,200	5,739,436
1881	395,382		1904	1,557,412		1927	1,113,330	5,890,259
1882	412,682		1905	1,635,287		1928	863,941	4,469,999
1883	486,811		1906	1,835,041		1929	842,972	4,375,328
1884	474,405		1907	1,894,074		1930	624,512	3,345,998
1885	427,937		1908	1,729,833		1931	359,853	1,909,922
1886	520,703		1909	1,588,099		1932	285,487	1,453,036
1887	580,965		1910	2,377,049		1933	259,233	1,188,225
1888	588,627		1911	1,500,639		1934	306,335	1,400,978
1889	665,315		1912	2,127,133		1935	418,391	1,906,647
1890	724,486		1913	1,562,020	3,951,351	1936	411,574	1,792,584
1891	971,259		1914	1,423,126	3,780,175	1937	355,268	1,441,879
1892	823,733		1915	1,766,543	5,406,058	1938	353,181	1,540,990
1893	960,312		1916	2,135,359	7,099,287			
1894	1,103,694		1917	1,733,156	7,387,192	Total	70,240,501	
1895	1,011,235		1918	1,817,195	9,405,423			

Table 12.—Exports of Canadian Coal from Eastern and Western Canada, 1934-1938

(Short tons)

	1934	1935	1936	1937	1938
Eastern Canada.....	212,151	295,012	277,240	204,411	207,644
Western Canada.....	94,184	123,379	134,334	150,857	145,537
Total.....	306,335	418,391	411,574	355,268	353,181

Table 13.—Exports of Canadian Coal, by Destinations, 1936-1938

(Compiled in the External Trade Branch)

Destination	1936		1937		1938	
	Short tons	Value	Short tons	Value	Short tons	Value
BRITISH EMPIRE		\$		\$		\$
United Kingdom.....	30,867	169,122	3,587	17,935		
Irish Free State.....	8,781	43,450	888	4,414		
British South Africa.....	3,174	15,380	447	2,189		
Bermuda.....	1,569	7,683				
British West Indies—						
Jamaica.....	52	264				
Gibraltar.....	2,098	10,385				
Newfoundland.....	94,314	429,107	104,431	480,841	122,364	604,726
Sierra Leone.....	6,804	31,743	1,683	8,415		
Australia.....	7,773	47,087				
New Zealand.....	12,318	57,736				
Total British Empire.....	167,750	811,967	111,039	513,791	122,364	604,726
FOREIGN COUNTRIES						
Argentina.....	5,696	26,338				
Belgium.....	7,708	37,922	336	1,690		
China.....	1,225	9,187			502	1,767
Cuba.....	1,880	9,242				
Denmark.....	298	1,478				
Finland.....	471	2,355				
France.....	3,144	15,916	271	1,350		
St. Pierre and Miquelon.....	5,192	23,947	3,273	15,088	4,840	23,739
Germany.....	1,584	7,773				
Greece.....	1,203	5,902				
Iceland.....	300	1,488				
Italy.....	1,504	7,481				
Japan.....	1,038	7,481				
Morocco.....	2,107	10,159				
Netherlands.....	1,925	9,457				
Norway.....	3,434	17,117				
Panama.....			1,002	4,697		
Poland and Danzig.....	405	1,986				
Spain.....	379	1,895				
Sweden.....	563	2,789	254	1,270		
United States.....	193,646	714,695	228,725	840,545	221,512	881,631
Alaska.....	10,122	66,009	10,371	63,458	3,963	29,137
Total foreign countries.....	243,824	980,617	244,232	928,088	230,817	936,264
Total.....	411,574	1,792,584	355,268	1,441,879	353,181	1,540,990

IMPORTS

In 1938, anthracite coal was imported into Canada from the following fields: the Pennsylvania in the United States; South Wales and South west Scotland in Great Britain; Westphalia in Germany; Donetz Basin in Russia; the province of Limburg in the Netherlands and from anthracite areas in Belgium, French Indo-China and Morocco.

The table below shows the standard sizes of American anthracite and typical sizes of British, Scotch and other anthracite. This table is so arranged that the sizes of each anthracite are readily comparable.

Table 14.—Size Classification of Anthracites Imported into Canada (*)

Authority and Date		Royal Commission on Anthracite, Feb. 1937. Page 71. Also South Wales Coal Annual, 1932.		Scotch Anthracite Coal Company, Montreal. May 19, 1939.		American Soc. for Testing Materials: Standards on Coal and Coke. Designation D-310-34. P. 51. Sept. 1934.				
Customs Compilation Statistical Code No.	Tariff Item	Welsh		Scotch		United States				
		Exporter's Designation	Size—Inches		Exporter's Designation	Size—Inches				
			Through	Over		Through	Over	Exporter's Designation	Through Over (Round Holes)	
7062	586	Large		6"	Large		4½"	Broken	4½"	3½"
		Machine made Cobbles	4"	2½"	Cobbles	4½"	3"				Furnace Egg	3½"	2 7/16"
		Screened Cobbles	3"	1½"	Trebles	3"	2"	Stove	2 7/16"	1½"
		French Nuts	2½"	1½"	Doubles	2"	1½"	Chestnut	1½"	13/16"
		Stove Nuts	1½"	1"	Singles	1½"	1" or 1"			
7063	586	Pea Nuts	1½"	1"				Pea	13/16"	9/16"
		Beans	1½"	1"	Beans	1½" or 1"	1"	No. 1 Buckwheat No. 2 " (Rice)	9/16" 5/16"	5/16" 3/16"
7061	588	Grains	1"	1"				No. 3 " (Barley	3/16"	3/32"
		Rubbly Culm (See Note 1)	1½"							
		Duff	1"		Duff	1½" or 1"				
—		Importers Invoices—1938 and correspondence with J. M. Honig, Dated Dec. 23, 1932.		Report on Coal Industry of French Indo-China. C. L. O'Brian.		Report by J. A. Langley (Canadian Government Trade Commissioner) of July 23, 1937, and Report of Chief Inspector of Mines (Netherlands), 1938.				
Customs Compilation Statistical Code No.	Tariff Item	Germany		Indo-China		Netherlands				
		Exporter's Designation	Size—mm.		Exporter's Designation	Size—mm.				
			Through	Over		Through	Over	Exporter's Designation	Through Over	
7062	586	Cobbles	120	80	Large Screened (Lump)	120	80	Lump Nuts 0	120	120 80
		Nut 1	80	50	Screened (Crible)	80	50	Nuts I	80	50
		Nut 2	50	25	Nut (Braisette)	50	30	Nuts II	50	30
		Nut 3 (Note 2)	30	20	Nut (Noisette)	30	18	Nuts III	30	20
7063	586	Nut 4 (Note 3)	20	10	Nut (Noisette)	18	10	Nuts IV	20	8
		Perl	14	6				Nuts V	8	6
		Nut 5 (Grom)	10	6						
7061	588				Ordinary Dust	30				
		Fine	6		Fine Dust	10		Duff	5	

Table 14.—Size Classification of Anthracites Imported into Canada (*)—Con.

		Correspondence with Canadian Import Co. Ltd., Nov. 19, 1938.			Colliery Guardian, May 1, 1936.			Report by Yves Lamontagne (Can. Government Trade Commissioner), July 10, 1937.		
Customs Com- pilation Sta- tistical Code No.	Tariff Item	Morocco			Russia			Belgium		
		Exporter's Designation	Size—mm.		Exporter's Designation	Size—mm.		Exporter's Designation	Size—mm.	
			Through	Over		Through	Over		Through	Over
7062	586	Cobbles	120	80	Large best selected Cobbles A. 3	125	125 87	Cribles		120
		Nuts I	80	50	Cobbles A. 2 Cobbles A. 2'	87 90	62 50	Gailletins	120	80
		Nuts III	30	22	Stove A. 1 French Nuts A. 1 Stove Nuts A. 1' Stove Nuts A.M.O.	62 50 40 30	22 25 20 15	Gaillereries Gaillereries Braisettes	80 50 35	50 30 22
7063	586	Nuts IV	22	12	Beans A.M.	25	12	Braisettes	22	10
		Nuts IV B	12	8	Peas A.S.	15	6	Braisettes Braisettes	22 20	5 5
		Nuts V	8	5				Grains laves	10	5
7061	588	Dust	8		Rubbly Culm R. K.	25		Grains laves	10	1
					Breaker Duff A.S.T.	6		Grains laves	5	1
					Billy Duff A.S.T.	6				

		Equivalents in Inches of Millimeter Sizes					
		Millimetres	Inches	Millimeters	Inches	Millimeters	Inches
Note 1. <i>Rubbly Culm</i> is the nutty small passing through the longitudinal bars spaced 1½" used in making "screened cobbles". This product is usually sold for steam raising purposes.		125	4-15/16	40	1-37/64	14	35/64
		120	4-47/64	35	1-3/8	12	15/32
		90	3-35/64	30	1-3/16	10	25/64
Note 2. <i>Nut 3</i> is sometimes sized 25 mm. x 15 mm. and would then be classed in Code 7063.		87	3-27/64	25	63/64	8	5/16
		80	3-5/32	22	7/8	6	15/64
		62	2-7/16	20	25/32	5	13/64
Note 3. <i>Nut 4</i> is sometimes sized 20 mm. x 8 mm. or 15 mm. x 8 mm.		50	1-31/32	15	19/32	1	3/64

*From a statement supplied by the Dominion Fuel Board.

Bituminous coal imports into Canada are obtained, in the main part, from the United States. These importations were supplemented in 1938 by shipments from Great Britain, Germany and Japan.

Duties on coal imported into Canada vary. In 1938, anthracite coal was brought into this country free under the British Preferential Tariff but, under the Intermediate and General Tariff, it is subject to a duty of 50 cents a ton plus the 3 per cent excise tax on imports; bituminous coal is subjected to a duty of 35 cents per ton under the Preferential Tariff and 75 cents per ton under the Intermediate and General Tariff.

The Federal Department of National Revenue, in consultation with the Department of Mines and Resources, has fixed the following minimum specification to designate coal to be classed as anthracite for revenue purposes under the Tariff Act:

- (a) That the ratio of fixed carbon to volatile combustible matter must be at least 6 and
- (b) That the coal does not show distinct coking, caking or agglomerating properties. (The latter is regarded as specific quality of bituminous coal.)

UNITED STATES

Prior to 1922, the United States was Canada's principal source of anthracite supply; the annual importations at that time ranged from four to six million tons. Receipts from this source, in succeeding years, declined materially and during the past five years averaged 1.83 million tons. The Pennsylvania fields supply practically all the United States anthracite shipped into Canada.

Imports of bituminous coal from the United States reached their peak in 1918 when 17.27 million tons were imported. During 1938, Canada received 9,466,702 tons from this source. The Central Ontario ports—Hamilton, Toronto, Sault Ste. Marie, Sarnia, Windsor, Chatham, Prescott and Parry Sound cleared approximately 60.9 per cent of the 1938 imports. The Fairmont field, West Virginia and the Pittsburgh field, Pennsylvania were the principal sources of the Canadian imports.

GREAT BRITAIN

Strikes in the anthracite producing areas in the United States in 1922 and the possibility in the following year of an embargo on shipments to Canada from that country resulted in Canada turning to Great Britain as a source of future supply. In 1923, approximately 262,000 tons of anthracite coal were imported from Great Britain, however, since that time there has been an appreciable increase in the tonnage drawn from this source until, in 1934, imports reached a peak of 1,643,516 tons. In 1938, anthracite importations amounted to 1,199,131 tons. South Wales was the principal area from which this coal was obtained.

Bituminous coal importations from Great Britain reached a high mark in 1935 when 380,645 tons were brought into Canada. In 1936, a decline to 147,720 tons was recorded and in 1937 a further falling-off to 56,073 tons was shown. In 1938, imports amounted to 65,957 tons.

GERMANY

German coal began to enter this country in appreciable quantities in 1934. During that year, 72,103 tons of anthracite coal were imported; in the following year, 205,045 tons were imported; in 1936, imports totalled 359,994 tons while in 1937, Canada imported 273,696 tons. The peak of the movement of this coal into Canada was reached in 1938 when 407,031 tons were imported. This coal is produced in Westphalia and its best grade is similar to the Big Vein imported into Canada from Wales. The Sophia Jacoba and Langenbrant mines are two of the most important shippers to Canada. Bituminous coal importations from Germany amounted to 9,421 tons in 1936, 54,061 tons in 1937 and 34,258 tons in 1938.

NETHERLANDS

Shipments of anthracite coal to Canada from the Netherlands have been intermittent; in 1926, 32,981 tons of egg, nut, etc., and 4,821 tons of smaller sizes were received from this source. During 1928, importations consisted of 1,102 tons of egg, etc. There were no imports of coal from the Netherlands during the period 1929-1935 but, in 1936 receipts of anthracite coal totalled 16,231 tons and of bituminous, 35 tons. None was imported in 1937; during 1938, imports amounted to 37,594 tons.

BELGIUM

Anthracite coal has been imported into Canada from Belgium to a considerable extent since 1934. In that year, 17,557 tons were brought into this country; in the following year, 67,220 tons were imported; in 1936, imports totalled 44,543 tons; in 1937, a decline to 8,131 tons was recorded while in 1938, 34,182 tons were imported.

The estimated annual production of Belgium anthracite and semi-anthracite coal is about 5 million tons. The export of this coal is under the control of the Belgian State Railways.

FRENCH INDO-CHINA

French Indo-China produces both clinkering and non-clinkering types of anthracite coal. The clinkering type meets the requirements of the Canadian market and there is a comparatively large annual importation of this grade. Freight rates are the controlling factor in the marketing of this coal in Canada as the water haul to Montreal from the point of shipping is about 13,300 miles by way of the Suez Canal and about 15,000 miles by way of the Panama Canal. In 1934, Canada did not receive any coal from French Indo-China; in 1935, imports amounted to 54,447 tons while in 1936, an advance to 88,702 tons was recorded; in 1937, none was imported but in 1938 imports totalled 27,856 tons.

MOROCCO

A trial shipment of 78 tons of anthracite coal was made to Canada from Morocco in 1937. During 1938, receipts from this source amounted to 19,645 tons, made up of 17,993 tons of grate, egg, etc., and 1,652 tons of screenings or dust.

RUSSIA

Imports of Russian anthracite into Canada reached their peak in 1930 when 291,407 tons were received from that source. In February, 1931, an embargo was placed on Russian coal and importations ceased. However, in September, 1936, the embargo was lifted and in 1937 Canada imported 160,889 tons of Russian anthracite coal. This quantity included 142,131 tons of grate, egg, etc., and 18,758 tons of smaller sizes. The 1938 importations consisted of 14,952 tons of grate, egg, etc.

Table 15.—Imports of Coal into Canada "Entered for Consumption" 1880-1938

(Compiled in the External Trade Branch)

Year	Anthracite coal		Bituminous coal		Bituminous coal dust		Lignite		Total	
	Short tons	Value	Short tons	Value	Short tons	Value	Short tons	Value	Short tons	Value
Fiscal year ending Mar. 31—		\$		\$		\$		\$		\$
1880.....	516,729	1,509,960	547,049	1,220,761	3,565	8,877			1,067,343	2,739,598
1881.....	572,092	2,325,937	587,024	1,741,568	337	886			1,159,453	4,068,171
1882.....	638,273	2,666,356	636,374	1,992,081	471	900			1,275,118	4,659,337
1883.....	761,891	3,344,936	911,629	2,996,198	8,154	10,082			1,671,674	6,351,216
1884.....	868,000	3,831,283	1,118,615	3,613,470	12,782	14,600			1,999,397	7,459,353
1885.....	910,324	3,909,844	1,011,875	3,197,539	20,185	20,412			1,942,384	7,127,795
1886.....	965,425	4,028,050	930,949	2,591,554	36,230	36,996			1,962,604	6,656,600
1887.....	1,100,165	4,423,062	1,149,792	3,126,225	31,401	33,178			2,281,358	7,582,465
1888.....	2,138,627	5,291,875	1,231,234	3,451,661	28,808	34,730			3,398,669	8,778,266
1889.....	1,291,705	5,199,431	1,248,540	3,255,171	39,980	47,139			2,580,235	8,501,791
1890.....	1,201,335	4,595,727	1,409,282	3,528,959	53,104	29,818			2,663,721	8,151,504
1891.....	1,309,067	5,224,452	1,508,855	4,080,896	60,127	36,130			3,658,049	9,321,478
1892.....	1,479,106	5,040,346	1,615,220	4,099,221	82,091	39,840			3,176,417	9,729,407
1893.....	1,500,550	6,355,285	1,603,154	3,967,764	109,585	44,474			3,213,289	10,367,523
1894.....	1,539,622	6,354,010	1,350,509	3,315,094	117,573	49,510			3,007,604	9,718,644
1895.....	1,404,342	5,350,627	1,444,923	3,321,337	181,318	52,221			3,030,588	8,721,235
1896.....	1,574,355	5,067,096	1,538,489	3,209,025	210,386	53,742			3,323,236	9,019,863
1897.....	1,457,295	5,695,108	1,543,476	3,254,217	225,562	59,609			3,226,333	9,008,934
1898.....	1,400,701	5,874,685	1,684,026	3,179,595	229,445	45,550			3,374,170	9,099,836
1899.....	1,745,460	6,490,509	2,171,358	3,691,946	276,547	44,717			4,194,355	10,727,172
1900.....	1,654,101	6,002,912	2,439,764	4,710,961	330,174	98,349			4,424,039	11,012,235
1901.....	1,933,283	7,023,930	2,516,392	4,950,025	414,432	275,559			4,864,167	13,156,534
1902.....	1,652,451	7,021,939	3,047,392	5,712,058	489,548	264,650			5,189,391	12,998,547
1903.....	1,456,713	7,028,664	3,511,412	7,775,717	550,883	420,317	Not separately itemized until 1923		5,519,008	15,725,698
1904.....	2,275,018	10,461,223	4,053,000	9,108,208	608,041	544,128			6,936,959	20,113,559
1905.....	2,604,137	12,093,371	4,176,274	8,002,896	650,361	343,456			7,439,672	22,438,723
1906.....	2,200,863	10,304,308	4,495,580	8,360,348	747,251	489,180			7,443,664	19,153,836
Calendar year—			Bituminous round run-of-mine		Bituminous slack such as will pass through a 1" screen					
1907.....	3,141,873	14,506,129	6,370,152	13,232,445	1,139,250	1,121,949			10,651,281	28,860,523
1908.....	3,160,110	14,478,536	6,025,574	12,516,748	1,111,811	1,355,677			10,297,495	28,350,961
1909.....	3,017,844	13,906,152	5,625,063	11,455,818	1,230,017	1,408,889			9,872,924	26,831,859
1910.....	3,266,235	14,735,062	5,960,466	11,919,341	1,365,281	1,795,598			10,597,983	28,450,001
1911.....	4,020,577	18,794,192	8,905,815	18,407,603	1,632,500	2,090,796			14,558,892	29,232,591
1912.....	4,184,017	20,080,388	8,491,840	16,846,727	1,919,953	2,550,922			14,595,816	30,478,937
1913.....	4,642,057	22,034,830	10,743,473	21,756,658	2,816,423	4,157,622			18,201,933	47,949,119
1914.....	4,435,010	21,241,924	7,776,415	14,954,321	2,509,632	3,605,253			14,721,057	39,801,498
1915.....	4,072,192	18,753,980	6,106,794	7,564,369	2,280,916	2,027,256			12,465,902	28,345,605
1916.....	4,570,815	22,216,363	9,504,552	12,368,679	3,505,236	3,704,624			17,580,603	39,289,666
1917.....	5,320,198	28,109,586	12,407,486	33,712,894	3,129,776	8,739,877			20,857,460	70,562,357
1918.....	4,785,160	26,007,888	13,656,360	37,291,057	3,237,067	8,351,639			21,678,587	71,650,584
1919.....	4,937,095	31,595,694	10,127,965	21,750,717	2,228,197	4,814,388			17,293,257	61,160,799
1920.....	4,982,313	35,773,351	11,548,475	50,808,626	2,312,754	10,451,621			18,843,512	98,033,598
1921.....	4,553,820	40,293,639	11,194,635	41,000,322	2,553,607	7,630,773			18,392,062	88,924,754
1922.....	2,705,752	23,795,143	8,133,366	30,171,375	2,184,407	7,215,910			13,023,525	61,182,428
1923.....	5,165,382	45,457,962	11,933,610	39,511,911	3,888,630	10,387,188	2,331	12,846	23,989,953	96,369,997
1924.....	4,152,558	37,280,910	9,222,019	23,120,128	3,324,195	6,508,515	20,007	117,955	16,724,779	67,027,598
1925*.....	3,782,557	32,096,509	12,548,460 tons		\$26,974,340		18,653	87,832	16,319,671	59,158,681
1926.....	4,192,419	34,202,166	12,376,606 tons		\$25,511,932		10,423	45,567	16,549,448	59,759,665
1927.....	4,107,854	31,282,371	11,568,671 tons		\$30,457,884		10,829	44,254	18,687,354	61,774,569
1928.....	3,748,810	27,680,018	11,445,945 tons		\$26,698,427		10,780	44,247	17,205,541	51,332,692
1929.....	4,019,917	28,869,792	11,770,138 tons		\$27,140,968		14,108	62,508	18,204,163	56,013,288
1930.....	4,256,096	30,098,916	11,497,955 tons		\$26,522,765		18,676	72,691	18,772,721	56,694,366
1931.....	3,162,317	21,067,025	9,952,280 tons		\$15,732,710		6,410	29,603	13,121,007	36,829,338
1932.....	3,148,602	19,312,710	8,807,131 tons		\$12,011,398		3,004	13,701	11,955,037	31,337,809
1933.....	3,015,571	17,610,091	8,185,759 tons		\$10,501,924		2,707	10,176	11,204,637	28,172,191
1934.....	3,500,563	18,414,060	9,471,805 tons		\$16,541,659		2,791	9,661	12,974,959	35,065,380
1935.....	3,442,835	17,445,102	8,630,686 tons		\$15,867,107		6,246	19,040	12,078,767	33,331,249
1936.....	3,418,556	17,897,635	9,700,062 tons		\$17,039,408		4,873	18,347	13,123,431	31,955,390
1937.....	3,488,278	17,317,449	11,180,827 tons		\$20,835,587		1,494	5,582	14,670,599	38,158,618
1938.....	3,475,801	18,079,657	9,533,729 tons		\$17,734,567		2,961	11,690	13,012,491	35,825,914

*Owing to tariff change in 1925 classification of bituminous coal by grades not recorded since that date.

†Includes "coal ex-warehoused for ships' stores."

Table 16.—Imports of Coal Into Eastern and Western Canada, 1937

(Short tons)

Destination	Anthracite				Bituminous	Lignite	Total all grades
	Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans and smaller sizes, n.o.p.	Total anthracite			
EASTERN CANADA—							
United States.....	1,726,288	10,891	230,639	1,967,818	11,096,482		13,064,300
Great Britain.....	764,433	8,120	362,243	1,134,796	55,406		1,190,262
Germany.....	256,335		17,361	273,696	54,061		327,757
Belgium.....	8,131			8,131			8,131
Russia.....	142,131		18,758	160,889			160,889
Morocco.....			78	78			78
Norway.....					113		113
Esthonia.....					200		200
Total.....	2,897,318	19,011	629,079	3,545,408	11,206,262		14,751,670
WESTERN CANADA*—							
United States.....	10,796	37	15,968	26,801	1,034,341	1,494	1,062,636
Great Britain.....	59			59	667		726
Total.....	10,855	37	15,968	26,860	1,035,008	1,494	1,063,362
Canada—							
United States.....	1,737,084	10,928	216,697	1,994,619	12,130,823	1,494	14,126,936
Great Britain.....	764,492	8,120	362,243	1,134,855	56,073		1,190,928
Germany.....	256,335		17,361	273,696	54,061		327,757
Belgium.....	8,131			8,131			8,131
Russia.....	142,131		18,758	160,889			160,889
Morocco.....			78	78			78
Norway.....					113		113
Esthonia.....					200		200
Total.....	2,908,173	19,048	645,047	3,572,268	12,241,270	1,494	15,815,032

*Includes Head of Lakes, Manitoba, and points west.

NOTE.—The import data shown in Tables 15 to 30 inclusive, refer to the total tonnage received at Canadian ports whether or not this coal has been cleared from customs during the period.

Table 17.—Imports of Coal into Eastern and Western Canada, 1938

(Short tons)

Destination	Anthracite				Bituminous	Lignite	Total all grades
	Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or Dust	Peas, beans and smaller sizes, n.o.p.	Total anthracite			
EASTERN CANADA—							
United States.....	1,708,491	5,917	239,602	1,954,010	8,584,502		10,538,602
Great Britain.....	750,380	56,648	390,591	1,197,619	65,900		1,263,519
Germany.....	383,582		23,449	407,031	34,258		441,289
Belgium.....	9,018		25,164	34,182			34,182
Netherlands.....	32,272		5,322	37,594			37,594
French Indo-China.....			27,856	27,856			27,856
Russia.....	14,952			14,952			14,952
Morocco.....	17,993	1,652		19,645			19,645
Total.....	2,916,688	64,217	711,984	3,692,889	8,684,760		12,377,639
WESTERN CANADA*—							
United States.....	15,211	39	4,350	19,600	882,110	2,961	904,671
Great Britain.....	1,512			1,512	57		1,569
Japan.....					417		417
Total.....	16,723	39	4,350	21,112	882,584	2,961	906,637
Canada—							
United States.....	1,723,702	5,956	243,952	1,973,610	9,466,702	2,961	11,443,273
Great Britain.....	751,892	56,648	390,591	1,199,131	65,957		1,265,088
Germany.....	383,582		23,449	407,031	34,258		441,289
Belgium.....	9,018		25,164	34,182			34,182
Netherlands.....	32,272		5,322	37,594			37,594
French Indo-China.....			27,856	27,856			27,856
Russia.....	14,952			14,952			14,952
Morocco.....	17,993	1,652		19,645			19,645
Japan.....					417		417
Total.....	2,833,411	61,255	716,334	3,714,001	9,567,334	2,961	13,284,296

*Includes Head of Lakes, Manitoba, and points west.

Table 18.—Imports of Anthracite and Bituminous Coal into Canada from Great Britain, by Grades and by Provinces, 1937 and 1938

(Short tons)

Destination	1937				1938			
	Anthracite			Bituminous, all grades	Anthracite			Bituminous, all grades
	Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans and smaller sizes, n.o.p.		Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans and smaller sizes, n.o.p.	
Prince Edward Island.....	1,891			4,440				6,589
Nova Scotia.....	44,318		7,644	32,321	46,271		7,006	24,249
New Brunswick.....	69,850		2,521	14,862	50,841		2,256	20,251
Quebec.....	637,021	8,120	330,241	3,731	617,305	56,648	338,172	14,811
Central Ontario.....	10,770		15,837	52	35,963		43,157	
Head of Lakes.....					1,512			
Manitoba.....	59			667				
Saskatchewan.....								57
British Columbia.....								
Canada.....	764,492	8,120	362,243	56,073	751,892	56,648	390,591	65,957

Table 19.—Imports of Anthracite, Bituminous and Lignite Coal into Canada from the United States, by Grades and by Provinces, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Anthracite				Lignite	Anthracite				Lignite
	Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans and smaller sizes n.o.p.	Bituminous, all grades		Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans and smaller sizes n.o.p.	Bituminous, all grades	
Prince Edward Island....	1,153			2,509		1,777			137	
Nova Scotia.....	8,606			2,773		9,441		123	30	
New Brunswick.....	19,909		443	13,768		15,902		461	8,001	
Quebec.....	286,375	6,949	62,410	1,139,641		298,643	5,238	66,854	594,712	
Ontario.....	1,420,213	3,942	178,878	10,956,144		1,397,335	679	172,164	8,850,635	
Manitoba.....	738		4,842	11,412	124	324		4,350	9,061	88
Saskatchewan.....	29	37		743	125		39		783	245
Alberta.....			34	1,293	28				1,116	11
British Columbia.....	61			2,477	1,217	250			2,201	2,617
Yukon.....				63					26	
Canada.....	1,737,084	10,928	246,607	12,130,823	1,494	1,723,702	5,956	243,952	9,466,702	2,961

Table 20.—Imports of Anthracite and Bituminous Coal into Canada from Other Countries, by Provinces, 1937 and 1938

(Short tons)

Destination	Source	1937				1938			
		Anthracite			Bituminous, all grades	Anthracite			Bituminous, all grades
		Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans, and smaller sizes, n.o.p.		Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans, and smaller sizes, n.o.p.	
Prince Edward Island.....	Germany.....	4,027				3,189			
Nova Scotia.....	Germany.....	13,169			6,955	12,034		181	
	Netherlands.....					1,345			
New Brunswick.....	Germany.....	4,927							
Quebec.....	Germany.....	234,139		17,361	38,382	345,677		23,268	34,258
	Belgium.....	8,131				9,018			
	Netherlands.....					19,503		1,682	
	French Indo-China.....							27,856	
	Russia.....	142,131		18,758		14,952			
	Morocco.....			78		17,993	1,652		
	Norway.....				113				
	Estonia.....				200				
Central Ontario.....	Germany.....	73			8,724	22,682			
	Belgium.....							25,164	
	Netherlands.....							3,640	
	French Indo-China.....					11,424			
British Columbia.....	Japan.....								417
Canada.....		466,597		36,197	54,374	457,817	1,652	81,791	34,675

Table 21.—Imports of Anthracite, Bituminous and Lignite Coal into Canada, by Months, 1937 and 1938
(Short tons)

Month	1937				1938			
	United States	Great Britain	Other countries	Total	United States	Great Britain	Other countries	Total
ANTHRACITE—								
January.....	136,296	15,002	6,480	157,778	179,952	7,527	5,721	193,200
February.....	134,301	23,012	6,046	163,359	161,173	11,438	.....	172,611
March.....	150,554	13,640	2,148	166,342	164,100	21,171	4,149	189,420
April.....	228,252	41,436	73	269,761	110,502	35,316	.....	145,818
May.....	221,042	124,198	24,721	369,961	181,754	166,802	63,418	411,974
June.....	165,816	154,949	57,939	378,704	267,821	144,464	48,654	460,939
July.....	142,930	172,618	80,231	395,779	161,541	157,094	98,814	417,449
August.....	90,112	138,760	90,206	319,078	118,584	142,369	72,481	333,444
September.....	127,153	133,358	63,223	323,734	143,456	184,299	83,169	410,924
October.....	187,528	168,528	52,182	408,238	177,352	126,414	72,654	376,420
November.....	232,517	128,733	52,065	413,315	152,740	163,855	76,494	393,089
December.....	178,118	20,621	7,480	206,219	154,635	38,382	15,696	208,713
Total.....	1,994,619	1,134,855	442,794	3,572,268	1,973,610	1,139,131	541,260	3,714,001
BITUMINOUS—								
January.....	393,322	6,927	.....	400,249	312,676	5,668	417	318,761
February.....	304,976	2,125	1,743	308,844	246,660	6,920	.....	253,580
March.....	435,585	2,417	927	438,929	282,771	6,855	.....	289,626
April.....	618,953	6,440	3,023	628,416	375,618	5,327	.....	386,945
May.....	1,311,190	52	1,117	1,312,359	902,502	7,239	.....	909,741
June.....	1,518,668	6,514	22,067	1,547,249	1,129,182	2,889	8,114	1,140,185
July.....	1,470,244	9,424	3,055	1,482,723	1,031,336	8,312	8,112	1,047,760
August.....	1,438,781	3,534	161	1,442,476	1,099,905	12,318	2,022	1,114,245
September.....	1,288,476	2,402	.....	1,290,878	1,121,110	2,310	8,115	1,131,535
October.....	1,402,279	3,013	8,081	1,413,373	1,057,618	3,375	.....	1,060,993
November.....	1,415,097	6,537	7,831	1,429,465	1,269,546	3,920	7,895	1,281,361
December.....	533,252	6,688	6,369	546,309	637,778	824	.....	638,602
Total.....	12,136,823	56,073	54,374	12,247,270	9,466,702	65,957	34,675	9,567,334
LIGNITE—								
January.....	314	.....	.....	314	425	.....	.....	425
February.....	93	.....	.....	93	206	.....	.....	206
March.....	47	.....	.....	47	255	.....	.....	255
April.....	.....	.....	.....	.....	82	.....	.....	82
May.....	40	.....	.....	40	12	.....	.....	12
June.....	3	.....	.....	3	61	.....	.....	61
July.....	1	.....	.....	1	112	.....	.....	112
August.....	46	.....	.....	46	13	.....	.....	13
September.....	1	.....	.....	1	76	.....	.....	76
October.....	285	.....	.....	285	355	.....	.....	355
November.....	322	.....	.....	322	427	.....	.....	427
December.....	342	.....	.....	342	937	.....	.....	937
Total.....	1,494	.....	.....	1,494	2,961	.....	.....	2,961

Table 22.—Average Imports of Coal into Quebec and Ontario, by Areas, for the Five Years, 1934-1938

(Short tons)

Area	Total anthracite	Total bituminous	Total all grades
Quebec.....	171,185	112,217	283,402
Montreal.....	1,707,416	733,816	2,441,232
Ottawa.....	98,511	613,681	712,592
Kingston.....	54,456	117,113	171,569
Toronto.....	1,152,482	4,488,170	5,640,652
Windsor.....	180,614	2,431,576	2,612,190
Northern Ontario.....	31,018	1,770,569	1,801,587
Total.....	3,396,662	10,267,142	13,663,224

Table 23.—Average Imports of Coal into Canada, by Kinds and by Provinces, for the Five Years, 1934-1938

(Short tons)

Destination	Total anthracite	Total bituminous	Lignite	Total all grades
Prince Edward Island.....	6,861	5,149		12,010
Nova Scotia.....	66,557	43,309		109,866
New Brunswick.....	85,136	33,319		118,455
Quebec.....	1,883,688	847,252		2,730,940
Ontario.....	1,512,394	9,419,890		10,932,284
Manitoba.....	5,627	11,452	206	17,285
Saskatchewan.....	42	912	123	1,077
Alberta.....	7	1,210	24	1,241
British Columbia.....	675	2,917	3,120	6,712
Yukon.....		42		42
Canada.....	3,560,967	10,365,452	3,473	13,929,912

CONSUMPTION

The per capita consumption of coal in Canada reached its peak in 1918 when the average quantity consumed per person was 4.268 tons; in the succeeding years, there was a considerable annual variation in consumption and the low mark, during that period, of 2.085 tons was recorded in 1933. During 1938, the coal consumption per person in Canada was 2.281 tons.

Many reasons have been advanced for the decline in the tonnage of coal consumed in recent years. Possibly improvements in the design of fuel burning equipment and in methods of burning have contributed materially to this decline. The following tables show the consumption of coal and other fuels in Canada. Table 24 records the tonnages of coal made available for use, by months, during 1937 and 1938. Tables 25 to 29, inclusive show the apparent consumption of coal by provinces during the calendar years 1934-1938. Table 30 gives the trend of coal consumption during the period 1902-1938. Table 31 records corresponding data for coke utilization together with an indication of the possible coal displacement through the use of imported coke. Table 32 is the result of a further attempt to arrive at the energy supplied by all mineral fuels and water power in terms of coal. In the case of fuel and gas oils and kerosene, the data relate to apparent consumption. Water power and natural gas calculations are based on production. The factors used were calculated on the basis of the average British thermal units of these fuels compared with 13,000 B.T.U. for bituminous coal.

Table 24.—Coal Made Available for Consumption in Canada, 1937 and 1938

(Short tons)

Month	1937				1938			
	Output	Imports	Exports	Coal made available for use	Output	Imports	Exports	Coal made available for use
January.....	1,499,326	558,341	46,735	2,010,932	1,470,964	512,386	44,193	1,939,157
February.....	1,286,374	472,296	27,253	1,731,417	1,409,036	426,397	32,667	1,802,766
March.....	1,110,599	605,318	40,848	1,675,069	1,222,621	479,301	28,012	1,673,910
April.....	989,653	898,177	14,065	1,873,765	873,193	526,845	12,538	1,387,500
May.....	1,078,603	1,682,360	19,215	2,741,748	1,020,609	1,321,727	22,092	2,320,244
June.....	1,073,670	1,925,956	33,993	2,965,633	934,750	1,601,185	26,086	2,509,849
July.....	1,145,334	1,878,503	20,690	3,003,147	825,940	1,465,321	20,022	2,271,239
August.....	1,241,948	1,761,600	32,105	2,971,443	1,012,901	1,447,702	34,522	2,426,081
September.....	1,421,383	1,614,613	31,553	3,004,443	1,117,269	1,542,535	30,012	2,629,792
October.....	1,712,369	1,821,896	32,997	3,501,268	1,503,608	1,437,708	25,826	2,915,550
November.....	1,669,747	1,843,102	26,413	3,486,436	1,552,841	1,674,877	48,471	3,179,247
December.....	1,600,948	752,870	29,401	2,330,417	1,350,986	848,252	28,740	2,170,498
Total.....	15,835,934	15,915,032	355,268	31,295,718	14,294,718	13,284,296	353,181	27,225,833

Table 25.—Summary Statistics for 1934—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

Province	Canadian coal				Im-ported from U.S.A.	Im-ported from Great Britain	Im-ported from Germany	Im-ported from Belgium	Im-ported from Newfoundland	Im-ported from other countries	Coal available for consumption
	Output	Re-ceived from other prov.	Shipped to other prov.	Ex-ported							
PRINCE EDWARD ISLAND—											
Anthracite.....					1,153	9,557					10,710
Bituminous.....		75,688			99	1,992			24		77,803
Total.....		75,688			1,252	11,549			24		88,513
NOVA SCOTIA—											
Anthracite.....					11,677	54,962					66,639
Bituminous.....	6,341,625	165	3,333,420	169,972	678	51,719					2,890,793
Total....	6,341,625	165	3,333,420	169,972	12,355	106,681					2,957,434
NEW BRUNSWICK—											
Anthracite.....					22,616	79,134					101,750
Bituminous.....	314,750	365,153	13,793	42,128	23,020	12,789					659,791
Total....	314,750	365,153	13,793	42,128	45,636	91,923					761,541
QUEBEC—											
Anthracite.....					408,915	1,467,416	72,103	17,557	6		1,965,997
Bituminous.....		2,884,609		50	659,566	263,357	50			295	3,807,827
Sub-bituminous.....											
Total.....		2,884,609		50	1,068,481	1,730,773	72,153	17,557	6	295	5,773,824
CENTRAL ONTARIO—											
Anthracite.....					1,345,746	32,165					1,377,911
Bituminous.....		26,162		1	8,509,228						8,535,389
Sub-bituminous.....		*20,357									20,357
Lignite.....		*32,392									32,392
Total.....		78,911		1	9,854,974	32,165					9,965,049
MANITOBA AND HEAD OF LAKES—											
Anthracite.....					14,020						14,020
Bituminous.....		213,054		51	739,778	1,506					951,287
Sub-bituminous.....		70,980									70,980
Lignite.....	4,113	580,512		1,383	253						589,495
Total....	4,113	870,546		1,434	754,051	1,506					1,628,782
SASKATCHEWAN—											
Anthracite.....											
Bituminous.....		74,567		29	1,123	112					75,773
Sub-bituminous.....		14,163									14,163
Lignite.....	909,288	913,037	381,368	3,925	42						1,437,074
Total....	909,288	1,001,769	381,368	3,954	1,165	112					1,527,012
ALBERTA—											
Anthracite.....											
Bituminous.....	1,915,800	10,616	227,262	349	1,302						1,700,107
Sub-bituminous.....	537,508		132,703								404,805
Lignite.....	2,300,502		1,204,472	1,014	10						1,095,026
Total....	4,753,810	10,616	1,564,437	1,363	1,312						3,199,938
BRITISH COLUMBIA—											
Anthracite.....						282					282
Bituminous.....	1,485,969	42,899	118,438	82,290	1,928	42				300	1,330,410
Sub-bituminous.....		27,170									27,170
Lignite.....		53,899		5,127	2,486						51,258
Total....	1,485,969	123,968	118,438	87,417	4,414	324				300	1,409,120
YUKON—											
Bituminous.....	638			16	37						659
Total....	638			16	37						659
NORTHWEST TERRITORIES—											
Sub-bituminous.....		31									31
Total....		31									31
CANADA—											
Anthracite.....					1,804,127	1,643,516	72,103	17,557	6		3,637,309
Bituminous.....	10,058,782	3,692,913	3,692,913	294,886	9,936,759	331,517	50		24	595	20,012,841
Sub-bituminous.....	537,508	132,703	132,703								537,508
Lignite.....	3,213,003	1,585,840	1,585,840	11,449	2,791						3,205,245
Total....	13,810,193	5,411,456	5,411,456	306,335	11,743,677	1,975,033	72,153	17,557	39	595	27,312,903

* Shipments to any point in Ontario from western mines.

Table 26.—Summary Statistics for 1935—Output, Exports, Interprovincial Shipments, Imports* and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

Province	Canadian coal				Im- ported from U.S.A.	Im- ported from Great Britain	Im- ported from Ger- many	Im- ported from Bel- gium	Im- ported from French Indo- China	Im- ported from other count- ries	Coal available for con- sumption
	Output	Re- ceived from other prov.	Shipped to other prov.	Ex- ported							
PRINCE EDWARD Island—											
Anthracite					1,454	3,400					4,854
Bituminous		88,998		100	125	4,142					93,165
Total		88,998		100	1,579	7,542					98,019
NOVA SCOTIA—											
Anthracite					7,370	50,069	3,366				60,805
Bituminous	5,822,075	68	3,232,908	232,597	48	54,506					2,411,192
Total	5,822,075	68	3,232,908	232,597	7,418	104,575	3,366				2,471,997
NEW BRUNSWICK—											
Anthracite					18,971	49,249					68,220
Bituminous	346,024	497,914	16,200	62,130	11,989	22,809					800,406
Total	346,024	497,914	16,200	62,130	30,960	72,058					868,626
QUEBEC—											
Anthracite					316,562	1,320,197	201,679	67,220	24,687		1,930,345
Bituminous		2,656,674	1920,970	77	459,761	296,281				341	2,492,010
Sub-bituminous											
Total		2,656,674	1920,970	77	776,323	1,616,478	201,679	67,220	24,687	341	4,422,355
CENTRAL ONTARIO—											
Anthracite					1,310,721	29,657			29,760		1,370,138
Bituminous		1944,098		108	8,085,024	860					9,029,874
Sub-bituminous		123,961									23,961
Lignite		142,068									42,068
Total		1,010,127		108	9,395,745	30,517			29,760		10,466,041
MANITOBA AND HEAD OF LAKES—											
Anthracite					14,926	381					15,307
Bituminous		232,328		213	606,830	931					839,876
Sub-bituminous		69,372									69,372
Lignite	3,106	639,264		390	396						642,376
Total	3,106	940,964		603	622,152	1,312					1,566,931
SASKATCHEWAN—											
Anthracite					49						49
Bituminous		68,754		263	952						69,443
Sub-bituminous		16,005									16,005
Lignite	921,785	1,049,298	408,836	3,130	182						1,559,299
Total	921,785	1,134,057	408,836	3,393	1,183						1,644,796
ALBERTA—											
Anthracite											
Bituminous	2,248,620	11,261	303,462	438	1,136						1,957,117
Sub-bituminous	566,425		149,065								417,360
Lignite	2,647,849		1,392,657	1,110	39						1,254,121
Total	5,462,894	11,261	1,845,184	1,548	1,175						3,628,598
BRITISH COLUMBIA—											
Anthracite					32	1,568					1,600
Bituminous	1,331,287	104,060	130,615	111,822	2,543	1,116				43	1,196,612
Sub-bituminous		39,727									39,727
Lignite		70,863		5,985	4,629						69,507
Total	1,331,287	214,650	130,615	117,807	7,204	2,684				43	1,307,446
YUKON—											
Bituminous	835			28	20						827
Total	835			28	20						827
CANADA—											
Anthracite					1,670,085	1,454,521	205,045	67,220	54,447		3,451,318
Bituminous	9,748,841	4,604,155	4,604,155	407,776	9,168,428	380,645				384	18,880,522
Sub-bituminous	566,425	149,065	149,065								566,425
Lignite	3,572,740	1,801,493	1,801,493	10,615	5,246						3,567,371
Total	13,888,006	6,554,713	6,554,713	418,391	10,843,759	1,835,166	205,045	67,220	54,447	384	26,475,636

*Direct imports into each province. See text for interprovincial shipments of imported coal.

†Nova Scotia coal ‡Shipments to any point in Ontario from western mines.

Table 27.—Summary Statistics for 1936—Output, Exports, Interprovincial Shipments, Imports* and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

Province	Canadian coal				Im- ported from U.S.A.	Im- ported from Great Britain	Im- ported from Ger- many	Im- ported from Bel- gium	Im- ported from French Indo- China	Im- ported from Other coun- tries	Coal available for con- sumption
	Output	Received from other provinces	Shipped to other provinces	Ex- ported							
PRINCE EDWARD ISLAND—											
Anthracite.....					1,479	5,224					6,703
Bituminous.....		82,559		5	111	5,576					88,241
Total.....		82,559		5	1,590	10,800					94,944
NOVA SCOTIA—											
Anthracite.....					7,534	43,628	4,041				55,203
Bituminous.....	6,649,102		3,861,460	202,503	2	40,940	2,321				2,628,402
Total.....	6,649,102		3,861,460	202,503	7,536	84,568	6,362				2,683,605
NEW BRUNSWICK—											
Anthracite.....					15,079	73,539					88,618
Bituminous.....	368,618	527,678	24,312	74,603	16,854	22,253					836,485
Total.....	368,618	527,678	24,312	74,603	31,933	95,792					925,106
QUEBEC—											
Anthracite.....					261,645	1,159,532	355,952	44,543	88,702	8,951	1,919,325
Bituminous.....		3,241,150	1,011,511	18	645,006	77,670	7,100			985	2,960,382
Sub-bituminous.....											
Total.....		3,241,150	1,011,511	18	906,651	1,237,202	363,052	44,543	88,702	9,936	4,879,707
CENTRAL ONTARIO—											
Anthracite.....					1,377,965	51,503				7,280	1,436,748
Bituminous.....		1,050,490		27	8,516,579						9,567,042
Sub-bituminous.....		21,846									21,846
Lignite.....		49,748		84							49,664
Total.....		1,122,084		111	9,894,544	51,503				7,280	11,075,300
MANITOBA AND HEAD OF LAKES—											
Anthracite.....					22,058	176					22,234
Bituminous.....		260,813		575	858,661	619					1,119,518
Sub-bituminous.....		76,449									76,449
Lignite.....	4,029	665,635		545	163						669,287
Total.....	4,029	1,002,897		1,120	880,887	795					1,887,488
SASKATCHEWAN—											
Anthracite.....					58						58
Bituminous.....		72,450		398	847						72,899
Sub-bituminous.....		20,756									20,756
Lignite.....	1,020,792	1,159,754	443,013	3,360	20						1,734,193
Total.....	1,020,792	1,252,960	443,013	3,758	925						1,827,906
ALBERTA—											
Anthracite.....											
Bituminous.....	2,288,734	11,424	338,095	666	1,205						1,962,602
Sub-bituminous.....	566,235		157,891								408,344
Lignite.....	2,841,991		1,507,221	1,353	33						1,333,450
Total.....	5,696,960	11,424	2,003,207	2,019	1,238						3,704,396
BRITISH COLUMBIA—											
Anthracite.....					30		1			1,120	1,151
Bituminous.....	1,489,171	131,009	142,195	122,334	2,801	662					1,359,114
Sub-bituminous.....		38,840									38,840
Lignite.....		75,097		5,102	4,652						74,647
Total.....	1,489,171	244,946	142,195	127,436	7,483	662	1			1,120	1,473,752
YUKON—											
Bituminous.....	510			1	61						570
Total.....	510			1	61						570
CANADA—											
Anthracite.....					1,085,848	1,333,602	359,994	44,543	88,702	17,351	3,530,040
Bituminous.....	10,796,135	4,366,062	4,366,062	401,130	10,042,127	147,720	9,421			985	20,595,258
Sub-bituminous.....	566,235	157,891	157,891								566,235
Lignite.....	3,866,812	1,950,234	1,950,234	10,444	4,873						3,861,241
Total.....	15,229,182	6,474,187	6,474,182	411,574	11,732,848	1,481,322	369,415	44,543	88,702	18,336	28,552,724

*Direct imports into each province. See text for interprovincial shipments of imported coal.

†Nova Scotia coal.

Table 28.—Summary Statistics for 1937—Output, Exports, Interprovincial Shipments, Imports* and Coal made Available for Consumption in Canada, by Provinces
(Short tons)

Province	Canadian coal				Im- ported from U.S.A.	Im- ported from Great Britain	Im- ported from Ger- many	Im- ported from Bel- gium	Im- ported from Russia	Im- ported from other coun- tries	Coal available for con- sumption
	Output	Re- ceived from other prov.	Shipped to other prov.	Ex- ported							
PRINCE EDWARD IS- LAND—											
Anthracite.....					1,153	1,894	4,027				7,074
Bituminous.....		80,017		11	2,509	4,440					89,955
Total.....		80,017		11	3,662	6,334	4,027				94,029
NOVA SCOTIA—											
Anthracite.....					8,606	51,962	13,169				73,737
Bituminous.....	7,256,954	322	4,149,198	119,382	2,773	32,321	6,955				3,030,745
Total.....	7,256,954	322	4,149,198	119,382	11,379	84,283	20,124				3,104,482
NEW BRUNSWICK—											
Anthracite.....					20,352	72,351	4,927				97,630
Bituminous.....	364,714	627,725	44,131	84,942	13,768	14,862					891,996
Total.....	364,714	627,725	44,131	84,942	34,120	87,213	4,927				989,626
QUEBEC—											
Anthracite.....					355,734	981,982	251,500	8,131	160,889	78	1,758,314
Bituminous.....		3,374,558	1104383	75	1,139,641	3,731	38,382			313	3,452,167
Total.....		3,374,558	1104383	75	1,495,375	985,713	289,882	8,131	160,889	391	5,210,481
CENTRAL ONTARIO—											
Anthracite.....					1,581,973	26,607	73				1,608,653
Bituminous.....		1,224,168		1	9,937,791	52	8,724				11,170,734
Sub-bituminous.....		18,367									18,367
Lignite.....		45,095									45,095
Total.....		1,287,630		1	11,519,764	26,659	8,797				12,842,849
MANITOBA AND HEAD OF LAKES—											
Anthracite.....					20,640	59					20,699
Bituminous.....		230,943		657	1,029,765	667					1,260,718
Sub-bituminous.....		71,936									71,936
Lignite.....	3,172	698,227		237	124						701,286
Total.....	3,172	1,001,106		894	1,056,529	726					2,060,639
SASKATCHEWAN—											
Anthracite.....					66						66
Bituminous.....		59,453		253	743						59,943
Sub-bituminous.....		17,788									17,788
Lignite.....	1,049,348	1,018,253	491,273	1,950	125						1,574,503
Total.....	1,049,348	1,095,494	491,273	2,203	934						1,652,300
ALBERTA—											
Anthracite.....					34						34
Bituminous.....	2,413,784	11,384	353,938	565	1,293						2,671,958
Sub-bituminous.....		506,260	155,239								351,021
Lignite.....	2,642,795		1,348,093	1,556	28						1,293,174
Total.....	5,562,839	11,384	1,857,270	2,121	1,355						3,716,187
BRITISH COLUMBIA—											
Anthracite.....					61						61
Bituminous.....	1,598,843	144,329	101,349	139,540	2,477						1,504,860
Sub-bituminous.....		47,086									47,086
Lignite.....		77,791		6,090	1,217						72,909
Total.....	1,598,843	269,206	101,340	145,639	3,755						1,624,896
YUKON—											
Bituminous.....	84				63						147
Total.....	84				63						147
NORTHWEST TERRITORIES—											
Sub-bituminous.....		82									82
Total.....		82									82
CANADA—											
Anthracite.....					1,994,619	1,134,855	273,696	8,131	160,889	78	3,572,268
Bituminous.....	11,634,379	4,648,616	4,648,616	345,426	12,130,823	56,073	54,061			313	23,530,223
Sub-bituminous.....		506,260	155,239								506,260
Lignite.....	3,695,315	1,839,366	1,839,366	9,842	1,494						3,686,967
Total.....	15,835,954	6,643,221	6,643,221	355,268	14,126,936	1,190,928	327,757	8,131	160,889	391	31,295,718

*Direct imports into each province. See text for interprovincial shipments of imported coal.

† Nova Scotia coal.

Table 29.—Summary Statistics for 1938—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 Belgium	Imported from French Indo-China	Imported from other countries	Coal available for consumption
	Output	Received from other prov.	Shipped to other prov.	Exported							
PRINCE EDWARD ISLAND—											
Anthracite.....					1,777		3,189				4,966
Bituminous.....		77,992		10	137	6,589					84,708
Total.....		77,992		10	1,914	6,589	3,189				89,674
NOVA SCOTIA—											
Anthracite.....					9,564	53,277	12,215			1,345	76,401
Bituminous.....	6,236,417	126	3,703,138	127,197	30	24,249					2,430,487
Total.....	6,236,417	126	3,703,138	127,197	9,594	77,526	12,215			1,345	2,506,888
NEW BRUNSWICK—											
Anthracite.....					16,363	53,007					69,460
Bituminous.....	342,238	534,549	31,538	79,665	8,001	20,251					793,836
Total.....	342,238	534,549	31,538	79,665	24,364	73,348					863,296
QUEBEC—											
Anthracite.....					370,735	1,012,125	368,945	9,018	27,856	55,782	1,844,461
Bituminous.....		3,087,791	†737,030	770	594,712	14,811	34,258				2,993,772
Sub-bituminous.....											
Total.....		3,087,791	†737,030	770	965,447	1,026,936	403,203	9,018	27,856	55,782	4,838,233
CENTRAL ONTARIO—											
Anthracite.....					1,555,571	79,120	22,682	25,184		15,064	1,697,601
Bituminous.....		781,778		2	7,981,712						8,763,488
Sub-bituminous.....		17,789									17,789
Lignite.....		35,737									35,737
Total.....		835,304		2	9,537,283	79,120	22,682	25,184		15,064	10,514,615
MANITOBA AND HEAD OF LAKES—											
Anthracite.....					19,281	1,512					20,793
Bituminous.....		230,172		439	877,984						1,107,717
Sub-bituminous.....		69,255									69,255
Lignite.....	2,016	657,497		297	88						659,304
Total.....	2,016	956,924		736	897,353	1,512					1,857,069
SASKATCHEWAN—											
Anthracite.....					39						39
Bituminous.....		64,564		350	783						64,997
Sub-bituminous.....		17,294									17,294
Lignite.....	1,022,166	938,095	473,237	3,353	245						1,483,916
Total.....	1,022,166	1,019,953	473,237	3,703	1,067						1,566,246
ALBERTA—											
Anthracite.....											
Bituminous.....	2,310,479	7,048	374,585	486	1,116						1,943,572
Sub-bituminous.....	488,915		141,106								347,809
Lignite.....	2,451,839		1,223,395	2,020	11						1,226,435
Total.....	5,251,233	7,048	1,739,086	2,506	1,127						3,517,816
BRITISH COLUMBIA—											
Anthracite.....					280						280
Bituminous.....	1,440,287	136,490	74,219	134,812	2,201	57				417	1,370,421
Sub-bituminous.....		36,640									36,640
Lignite.....		65,303		3,780	2,617						64,140
Total.....	1,440,287	238,433	74,219	138,592	5,098	57				417	1,471,481
YUKON—											
Bituminous.....	361				26						387
Total.....	361				26						387
NORTHWEST TERRITORIES—											
Sub-bituminous.....		128									128
Total.....		128									128
CANADA—											
Anthracite.....					1,973,610	1,199,131	407,031	34,182	27,856	72,191	3,714,001
Bituminous.....	10,329,782	1,183,486	4,183,486	343,731	9,466,702	65,957	34,259			417	19,553,385
Sub-bituminous.....	488,915	141,106	141,106								488,915
Lignite.....	3,476,021	1,696,632	1,696,632	9,450	2,961						3,469,532
Total.....	14,294,718	6,021,218	6,021,218	353,181	11,443,273	1,265,088	441,289	34,182	27,856	72,608	27,225,833

*Direct imports into each province. See text for interprovincial shipments of imported coal.

†Nova Scotia coal shipped to Ontario.

Table 30.—Annual Consumption of Coal in Canada, 1902-1938

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	1.840
1903.....	6,005,735	47.3	6,520,931	184,593	6,678,450	52.7	12,684,185	2.245
1904.....	6,697,183	47.9	7,238,869	85,687	7,297,482	52.1	13,994,665	2.402
1905.....	7,032,661	49.4	7,233,738	68,500	7,215,446	50.6	14,248,107	2.374
1906.....	7,927,560	50.5	7,787,338	67,014	7,758,325	49.5	15,685,885	2.573
1907.....	8,617,352	45.0	10,588,697	54,325	10,549,503	55.0	19,166,855	2.990
1908.....	9,156,478	47.3	10,203,335	97,514	10,195,424	52.7	19,351,902	2.921
1909.....	8,913,376	47.9	9,805,253	67,671	9,711,826	52.1	18,625,202	2.739
1910.....	10,532,103	50.2	10,545,451	51,541	10,438,123	49.8	20,970,226	3.001
1911.....	9,822,749	40.5	14,510,126	48,963	14,424,949	59.5	24,247,698	3.364
1912.....	12,385,696	46.0	14,557,124	38,668	14,549,104	64.0	26,934,800	3.645
1913.....	13,450,158	42.6	18,145,769	37,825	18,132,387	57.4	31,582,545	4.138
1914.....	12,214,403	45.5	14,687,853	33,101	14,637,920	54.5	26,852,323	3.408
1915.....	11,500,480	48.1	12,450,796	15,098	12,406,212	51.9	23,906,692	2.995
1916.....	12,348,036	41.3	17,576,202	4,401	17,517,820	58.7	29,865,856	3.733
1917.....	12,313,603	37.2	20,848,009	9,451	20,810,132	62.8	33,123,735	4.110
1918.....	13,160,731	37.8	21,074,826	3,761	21,611,104	62.2	34,771,832	4.268
1919.....	11,611,168	40.3	17,292,913	344	17,236,269	59.7	28,847,437	3.471
1920.....	14,025,566	42.9	18,752,981	.....	18,608,741	57.1	32,694,307	3.821
1921.....	12,715,734	41.1	18,300,081	1,591	18,258,387	58.9	30,974,121	3.525
1922.....	13,044,352	50.2	12,255,555	765,980	12,962,180	49.8	26,006,541	2.916
1923.....	15,070,902	41.8	20,417,239	572,570	20,967,971	58.2	36,038,933	4.000
1924.....	12,529,358	42.8	16,405,344	317,112	16,714,143	57.2	29,243,501	3.198
1925.....	12,125,290	42.6	15,744,957	604,117	16,331,971	57.4	28,457,261	3.082
1926.....	15,036,296	47.7	16,204,405	287,299	16,565,655	52.3	31,651,851	3.349
1927.....	15,944,983	46.7	17,266,434	907,220	18,177,303	53.3	34,122,286	3.541
1928.....	16,487,507	50.0	15,830,688	682,755	16,515,582	50.0	33,003,389	3.356
1929.....	16,387,461	48.0	16,780,452	843,502	17,724,132	52.0	34,111,593	3.401
1930.....	14,052,671	43.3	16,971,933	1,144,861	18,412,039	56.7	32,464,710	3.180
1931.....	11,682,779	47.7	11,793,798	987,442	12,828,327	52.3	24,511,106	2.362
1932.....	11,212,701	49.0	9,889,866	1,727,716	11,654,492	51.0	22,867,193	2.177
1933.....	11,456,273	51.5	8,865,935	1,942,875	10,908,962	48.5	22,265,235	2.085
1934.....	13,236,406	51.1	10,580,710	1,981,116	12,651,168	48.9	25,887,574	2.302
1935.....	13,306,303	53.1	9,618,518	1,822,500	11,735,835	46.9	25,042,138	2.290
1936.....	14,508,652	53.3	10,801,643	1,498,656	12,719,515	46.7	27,228,167	2.469
1937.....	15,172,729	51.5	12,574,574	1,211,052	14,268,585	48.5	29,441,314	2.648
1938.....	13,800,094	53.5	10,754,747	1,257,887	12,012,634	46.5	25,812,728	2.281

*The sum of Canadian coal minesales, 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 31.—Coke made Available for Consumption in Canada, with the Coal Equivalent of the Imported Coke, 1902-1938

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	266,140	62,568	705,615	409,446	·075
1903	561,318	258,703	32,608	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	1,248,994	772,218	·122
1907	842,003	624,649	70,617	1,396,035	960,897	·147
1908	858,257	426,071	58,708	1,226,520	656,878	·096
1909	862,011	661,425	74,067	1,449,366	1,017,576	·146
1910	902,715	737,088	57,971	1,581,832	1,133,980	·160
1911	935,651	751,389	9,852	1,677,184	1,155,982	·160
1912	1,411,229	628,174	57,744	1,981,659	966,420	·132
1913	1,530,409	723,906	68,235	2,186,170	1,113,700	·147
1914	1,023,800	553,046	67,838	1,509,068	850,839	·110
1915	1,170,473	637,857	35,809	1,772,461	981,317	·126
1916	1,409,741	757,116	48,539	2,178,318	1,164,793	·144
1917	1,245,862	970,106	23,565	2,192,373	1,492,469	·182
1918	1,250,744	1,165,580	29,612	2,386,722	1,793,213	·215
1919	1,675,032	383,374	14,700	2,043,697	589,805	·069
1920	1,708,203	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	19,831	1,549,085	517,338	·058
1923	1,668,298	733,604	34,407	2,367,495	1,128,620	·125
1924	1,436,912	521,725	23,144	1,835,493	802,653	·087
1925	1,546,730	852,427	25,578	2,373,588	1,311,405	·141
1926	2,027,058	988,034	41,809	2,973,393	1,520,051	·161
1927	2,026,438	772,235	74,109	2,724,564	1,188,053	·123
1928	2,314,127	1,060,026	25,058	3,349,098	1,630,812	·188
1929	2,677,581	1,226,853	25,208	3,879,226	1,887,461	·193
1930	2,385,994	1,061,040	29,801	3,417,233	1,632,368	·164
1931	1,832,700	733,274	20,905	2,545,000	1,128,113	·109
1932	1,637,701	651,802	15,469	2,274,034	1,002,771	·095
1933	1,772,164	644,075	5,199	2,411,040	990,854	·093
1934	2,243,420	930,221	7,396	3,166,245	1,431,108	·132
1935	2,257,004	532,926	20,649	2,769,881	819,885	·075
1936	2,404,793	612,858	18,215	2,990,436	942,858	·085
1937	2,570,385	417,733	36,959	2,951,159	642,666	·058
1938	2,352,003	414,682	30,537	2,736,148	637,972	·056

* Prior to 1925 exports of petroleum coke were included.

† The estimated quantity of coal carbonized to produce this coke.

Table 32.—Canada's Coal Supply and the Coal Equivalent of Other Mineral Fuels and Water Power Used
(Thousands of short tons)

—	Coal					Coke from coal	Natural Gas (b)	Fuel and Gas Oils (c)	Gasoline Sales (d)	Kerosene (e)	Water Power	
	Anthracite Imported*	Bituminous		Lignite							Equivalent	Pounds of coal per kilowatt hour (f)
		Canadian†	Imported‡	Canadian†	Imported*	Imported ¶(a)						
1927	4,108	12,188	14,059	3,757	11	772	855	2,314	2,104	360	12,908	1.84
1928	3,749	12,709	12,756	3,799	11	1,060	903	2,667	2,797	367	13,821	1.76
1929	4,020	12,485	13,690	3,902	14	1,227	1,135	3,205	3,475	328	14,620	1.69
1930	4,256	10,649	14,137	3,404	19	1,061	1,175	3,189	3,366	295	14,219	1.67
1931	3,162	8,822	9,660	2,861	6	668	1,035	2,996	3,219	291	12,461	1.55
1932	3,149	7,806	8,503	3,407	3	611	937	2,537	2,896	341	11,667	1.50
1933	3,016	8,128	7,791	3,328	3	589	926	3,012	2,803	265	12,670	1.47
1934	3,501	10,051	9,148	3,185	3	810	926	3,176	3,091	267	15,289	1.47
1935	3,443	9,783	8,288	3,523	5	633	996	3,228	3,316	194	16,801	1.46
1936	3,419	10,683	9,296	3,826	5	642	1,125	3,259	3,608	195	18,210	1.46
1937	3,488	11,515	10,779	3,658	1	472	1,288	3,734	4,154	167	18,479	1.43
1938	3,476	10,366	12,010	3,434	3	392	1,338	3,925	4,408	143	18,240	1.42

* Entered for consumption.

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

‡ Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.

(a) Tonnage imported into Canada "Entered for consumption". Based on 1 ton=13,000 B.T.U.

(b) Based on 1 ton of coal=25 M cu. ft. of natural gas.

(c) Based on 1 ton of coal=151 imperial gallons of fuel and gas oils.

(d) Based on 1 ton of coal=173 imperial gallons of gasoline.

(e) Based on 1 ton of coal=160 imperial gallons of kerosene.

(f) Based on the United States average as reported by the Edison Electric Institute.

A table showing the average calorific values of various solid and liquid fuels is given below. This information was supplied by the Fuel Research Laboratories of the Department of Mines and Resources.

Table 33.—Average Calorific Values of Various Solid and Liquid Fuels

	Rough Average B.T.U. Values per Pound*	B.T.U. per Imperial Gallon
British Anthracite—		
Welsh.....	14,300	
Scotch.....	14,000	
Other (European and Asiatic) Anthracites—		
Westphalian.....	14,300	
Belgian.....	14,300	
Russian.....	13,500	
French Indo-China.....	13,200	
American (U.S.A.) Anthracites—		
Pennsylvania (stove size).....	13,200	
Pennsylvania (buckwheat).....	12,900	
U.S.A. Bituminous Coal—		
First Grade—7% Ash (for coke making).....	14,000	
Second Grade—10% Ash (for steam raising).....	13,000	
Canadian Coals—		
Bituminous, 1st grade } Maritime Provinces, British Columbia and Alberta.....	14,000	
Bituminous, 2nd grade }	13,000	
Bituminous, 3rd grade }	11,000 to 12,000	
Sub-bituminous—Alberta and British Columbia.....	10,000 to 11,500	
Lignite—Domestic—Alberta and British Columbia.....	7,500 to 10,000	
Lignite—Saskatchewan.....	6,500 to 7,500	
Fuel Oil—		
Industrial 0.933 Specific gravity.....	19,000	177,500
Kerosene—Stove Oil—0.819 Specific gravity.....	19,800	162,000
Light Furnace Oil—0.855 Specific gravity.....	19,550	167,000
Gasoline (average for Canada), 0.740 Specific gravity.....	20,250	150,000

*These are rough average values for coals as delivered to the consumer.

Table 34.—Consumption of Fuel by Steam Railways (Freight) in Canada
(Compiled in the *Transportation Branch*)

Year	Gross Ton Miles	Tons of Fuel Consumed (Freight and Mixed Trains)	Gross Ton Miles per Ton of Fuel*
1927.....	88,351,365,594	5,803,713	15,223
1928.....	101,979,507,167	6,446,442	15,820
1929.....	89,986,014,723	5,777,670	15,576
1930.....	77,579,074,012	4,846,629	16,007
1931.....	66,880,820,445	4,104,608	16,294
1932.....	58,927,610,843	3,641,030	16,184
1933.....	54,352,628,483	3,394,803	16,011
1934.....	62,070,905,065	3,847,166	16,134
1935.....	63,983,126,743	3,903,540	16,391
1936.....	70,218,463,065	4,151,667	16,913
1937.....	73,058,629,707	4,285,395	17,048
1938.....	70,138,703,573	4,010,725	17,488

*Represents number of miles one ton of coal would move one ton of freight (including weight of car).

Table 35.—Annual Consumption of Coal by Railroad Locomotives in Canada, 1911-1938

(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		8,672,455		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	58,489,294	9,940,976	58,586,537
1924.....	12,400	69,496	9,003,116	49,692,428	9,015,516	49,661,924
1925.....	12,809	61,066	8,899,969	44,964,692	8,922,778	45,016,758
1926.....	13,636	61,420	9,294,051	44,111,138	9,307,687	44,172,555
1927.....	12,570	58,857	9,487,390	44,728,524	9,499,960	44,787,881
1928.....	10,798	64,166	10,313,198	47,173,847	10,323,996	47,238,013
1929.....	11,409	70,094	9,628,711	43,130,695	9,640,120	43,200,799
1930.....	7,062	33,249	8,251,167	36,292,562	8,258,229	36,325,811
1931.....	3,336	14,763	6,858,772	29,601,134	6,862,108	29,766,897
1932.....	1,934	7,578	5,955,085	25,101,489	5,957,019	25,109,067
1933.....	1,665	6,490	5,521,052	22,145,931	5,522,717	22,152,421
1934.....	1,625	6,702	6,109,367	25,589,597	6,110,992	25,596,299
1935.....	1,544	6,417	6,144,550	26,333,312	6,146,094	26,339,729
1936.....	1,790	8,627	6,584,233	28,153,451	6,586,023	28,162,078
1937.....	1,503	10,604	6,766,955	29,350,076	6,768,458	29,360,680
1938.....	1,641	12,077	6,366,101	27,940,556	6,367,742	27,952,633

Table 36.—Average Price per Short Ton of Canadian Coal at the Mines, by Grades, for each District and Province, 1938

District	Run-of-Mine		Lump		Egg		Nut		Pea		Slack	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
NOVA SCOTIA—												
Cape Breton.....	4.16	3.10	5.34	3.47	3.65	3.25	4.97	4.12	3.75	3.40	3.34	2.32
Cumberland.....	4.21	3.41	4.89	3.96	5.64	4.64	6.04	4.53			3.00	2.20
Inverness.....	3.37	3.22	4.47	3.90							2.23	1.95
Pictou.....	4.90	4.22	5.53	4.73			6.00	5.25			3.56	2.81
Average.....	4.16	3.43	5.15	4.02	4.98	4.18	5.50	4.51	3.75	3.40	3.15	2.33
NEW BRUNSWICK.....	3.38	3.08	4.00	3.64			3.72	3.50			2.98	2.61
MANITOBA.....			2.85	2.85								
SASKATCHEWAN.....	1.92	1.87	1.86	1.68	1.55	1.55	1.42	1.16	1.17	1.12	1.08	0.96
ALBERTA—												
Bituminous—												
Cascade.....	4.50	3.50	5.58	4.63			4.00	3.75	3.75	3.25	3.25	2.50
Crownsnest.....	3.02	2.58	3.81	3.09	2.75	2.50	3.54	2.94			2.12	1.54
Mountain Park.....	3.47	2.59	4.00	3.57	3.40	3.25					2.80	2.25
Nordegg.....	3.10	2.90										
Average bituminous.....	3.25	2.67	4.14	3.83	3.08	2.88	3.66	3.14	3.75	3.25	2.35	1.76
Sub-bituminous—												
Coalspur.....	3.06	2.42	3.96	3.53	3.78	3.43	2.41	1.90	2.06	1.64	1.20	1.11
Morley.....	3.00	2.75										
Pekisko.....	2.67	2.33										
Pincher.....	3.50	3.50	3.50	3.50			3.50	3.50	2.00	2.00	0.75	0.75
Prairie Creek.....	2.97	2.90	4.50	4.15	4.25	4.00	2.75	2.00	2.00	1.50	1.25	1.15
Saunders.....	3.43	3.32	4.63	4.25			3.30	3.14			2.01	1.55
Average sub-bituminous.....	3.00	2.69	4.17	3.80	3.86	3.52	2.82	2.44	2.04	1.67	1.34	1.17
Lignite—												
Ardley.....	2.01	1.87	2.93	2.62	3.00	2.65	2.00	1.75	1.75	1.75	1.50	1.00
Rig Valley.....	2.30	2.20	2.50	2.25			1.00	0.75				
Brooks.....	2.00	2.00	2.75	2.67	2.00	2.00					1.00	1.00
Camrose.....	1.88	1.81	2.82	2.43	2.40	2.20	1.86	1.61	1.10	1.10	0.70	0.56
Carbon.....	2.35	2.05	2.96	2.41	2.56	1.65	1.25	1.11	1.25	1.08	0.77	0.58
Castor.....	1.75	1.53	1.87	1.81			1.08	1.08				
Champion.....	3.00	3.00	2.92	2.82	1.25	1.25	1.17	1.04				
Drumheller.....	2.68	2.32	3.86	3.07	2.97	2.51	2.42	1.70	1.64	1.21	0.83	0.53
Edmonton.....	2.42	2.11	2.97	2.55	2.29	1.85	1.73	1.46	1.31	1.24	0.68	0.53
Gleichen.....	2.75	2.46	2.60	2.60			1.75	1.75				
Halcourt.....	4.00	3.93	4.16	3.78			2.00	2.00			1.00	1.00
Lethbridge.....	2.83	2.83	2.93	2.72	2.90	2.75	2.14	2.04	1.70	1.35	0.56	0.43
Magrath.....	2.50	2.50										
Milk River.....	2.75	2.75	4.00	4.00								
Pakan.....	2.81	2.75	2.50	2.50			2.00	2.00			1.00	1.00
Pakowki.....	2.17	2.17										
Pembina.....	2.07	1.96	3.12	2.37	2.62	2.00	2.00	1.50	1.37	1.00	0.67	0.67
Redcliff.....	2.37	2.00	2.87	2.50	2.50	2.00					0.62	0.47
Rochester.....	3.00	2.37	3.00	2.50			1.50	1.50			0.50	0.50
Sexsmith.....	2.50	2.50										
Sheerness.....	1.99	1.72	2.19	1.75			1.25	1.25			0.70	0.47
Taber.....	2.21	2.21	2.73	2.41			1.50	1.40				
Tofield.....	2.00	1.50	2.17	1.92	1.45	1.35	1.00	1.00			0.15	0.15
Wetaskiwin.....	2.00	1.75	2.50	2.33			1.80	1.50			0.25	0.25
Whitecourt.....	2.12	2.00									0.75	0.50
Area not designated.....	2.37	1.85	2.78	2.78			2.04	1.87			0.50	0.50
Average lignite.....	2.25	2.04	2.97	2.61	2.49	2.04	1.82	1.54	1.49	1.22	0.72	0.55
Average for Alberta.....	2.39	2.14	3.13	2.78	2.68	2.25	2.06	1.75	1.70	1.40	1.00	0.78
BRITISH COLUMBIA—												
Crow's Nest Pass.....	3.85	3.25	4.50	3.85			3.75	2.80			3.00	2.00
Inland.....	4.00	4.00	4.90	4.46	4.12	4.12	4.08	4.03	2.68	2.45	2.25	1.33
Island.....	4.40	3.84	5.87	5.44	6.03	5.42	4.76	4.26	4.22	3.57	2.86	1.95
Average.....	4.18	3.82	5.39	4.94	5.27	4.90	4.39	4.04	3.64	3.15	2.69	1.77
YUKON.....	8.04	8.04	10.00	10.00								
Canada.....	2.44	2.23	3.29	2.91	2.98	2.55	2.28	1.96	2.15	1.82	1.45	1.13

Table 37.—Yearly Average Retail Prices of Coal in Canada, by Principal Municipalities, 1936-1938

(Compiled in the Internal Trade Branch)

Province and municipality	Anthracite			Bituminous		
	1936	1937	1938	1936	1937	1938
	\$	\$	\$	\$	\$	\$
PRINCE EDWARD ISLAND—						
Charlottetown.....				8-01	8-65	8-94
NOVA SCOTIA—						
Amherst.....				7-87	7-87	7-87
Halifax.....				9-92	9-88	9-88
Truro.....				9-00	9-00	9-00
NEW BRUNSWICK—						
Bathurst.....				9-25		
Fredericton.....				9-83	10-05	9-96
Moncton.....				10-17	10-00	10-23
St. John.....				11-02	10-59	10-50
QUEBEC—						
Hull.....	14-96	14-54	14-54			
Montreal.....	13-48	13-55	14-22			
Quebec.....	13-35	13-33	13-62			
St. Hyacinthe.....	13-01	13-23	13-42			
St. John.....	13-71	13-08	13-21			
Sherbrooke.....	15-27	14-68	14-75			
Sorel.....	12-59	12-50	12-79			
Three Rivers.....	13-96	14-05	14-36			
ONTARIO—						
Bellefleur.....	13-93	13-79	13-71			
Brantford.....	13-85	13-27	13-33			
Brockville.....	14-00	13-50	13-19			
Chatham.....	14-54	14-81	13-79			
Fort William.....	14-95	15-08	15-00			
Galt.....	14-36	13-98	13-79			
Guelph.....	14-39	13-79	13-79			
Hamilton.....	13-54	13-04	12-81			
Kingston.....	14-00	14-00	14-00			
Kitchener.....	14-54	13-67	13-75			
London.....	14-54	14-10	13-73			
Niagara Falls.....	12-88	12-59	12-45			
Orillia.....	14-79	14-48	14-46			
Ottawa.....	14-96	14-54	14-54			
Owen Sound.....	14-87	14-38	13-79			
Peterborough.....	14-82	14-21	14-31			
Port Arthur.....	14-94	15-08	15-00			
St. Catharines.....	13-66	13-27	13-36			
St. Thomas.....	14-19	13-71	13-29			
Sault Ste. Marie.....	14-21	14-00	13-98			
Stratford.....	14-17	13-71	13-21			
Toronto.....	13-79	12-74	12-62			
Windsor.....	14-67	13-83	13-52			
Woodstock.....	13-96	13-12	13-50			
MANITOBA—						
Brandon.....				10-48	10-50	10-56
Winnipeg.....				11-40	11-50	11-56
SASKATCHEWAN—						
Moose Jaw.....				8-42	8-60	8-86
Prince Albert.....				9-00	9-00	9-02
Regina.....				9-70	9-75	9-92
Saskatoon.....				8-75	8-84	9-22
ALBERTA—						
Calgary... Drombeller lump.....				7-00	7-00	7-00
Edmonton.....				4-31	4-50	4-50
BRITISH COLUMBIA—						
Nelson.....				10-40	10-50	10-50
New Westminster.....				10-50	10-50	10-50
Prince Rupert.....				11-75	11-75	11-75
Vancouver.....				10-50	10-50	10-50
Victoria.....				10-75	10-75	10-75

Table 38.—Average value of Coal f.o.b. Mines, together with Labour, Fuel and Electricity Costs per ton Raised, by Provinces and by Districts, in 1937 and 1938

	1937			1938		
	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.....	3.476	2.183	.315	3.578	2.261	.304
Cumberland.....	3.645	2.520	.425	3.736	2.428	.454
Inverness.....	3.140	2.567	.331	3.062	2.580	.329
Pictou.....	3.922	2.723	.403	3.854	2.768	.452
Total Nova Scotia.....	3.533	2.288	.337	3.612	2.343	.338
NEW BRUNSWICK—(Bituminous).....	3.237	2.295	.100	3.312	2.397	.097
MANITOBA—(Lignite).....	2.430	1.179	.123	2.808	2.076	.169
SASKATCHEWAN—(Lignite).....	1.424	0.670	.085	1.350	0.712	.085
ALBERTA—						
Bituminous—						
Cascade.....	3.540	2.214	.323	3.504	2.227	.388
Crowsnest.....	2.768	1.852	.152	2.685	1.740	.146
Mountain Park.....	2.910	1.825	.139	2.834	1.944	.153
Nordegg.....	3.108	2.098	.131	3.082	2.013	.180
Total Bituminous.....	2.890	1.885	.159	2.816	1.855	.188
Sub-bituminous—						
Conslpur.....	2.363	1.603	.089	2.388	1.656	.086
Morley.....	2.073	1.949	.004	2.754	2.459	
Pekisko.....	2.432	1.376	.077	2.318	1.270	.063
Pincher.....	2.241	1.671		2.404	1.557	
Prairie Creek.....	2.989	2.201	.142	2.951	2.388	.213
Saunders.....	3.583	3.162	.259	3.662	3.229	.260
Total Sub-bituminous.....	2.596	1.856	.114	2.596	1.917	.124
Lignite—						
Ardley.....	2.262	1.302	.034	2.415	1.344	.040
Big Valley.....	2.271	1.539	.175	2.238	1.327	.210
Brooks.....	2.747	1.626	.008	2.671	1.801	.114
Camrose.....	1.905	1.256	.027	1.955	1.344	.028
Carbon.....	1.948	1.335	.048	2.100	1.330	.051
Castor.....	1.559	0.895	.098	1.686	0.927	.027
Champion.....	2.438	1.463	.041	2.601	1.440	.067
Drumheller.....	2.571	1.682	.074	2.655	1.668	.072
Edmonton.....	1.911	1.331	.062	1.836	1.268	.058
Gleichen.....	2.432	1.549	.029	2.450	1.632	.025
Halcourt.....	4.175	2.660	.019	3.934	2.528	.015
Lothbridge.....	3.004	1.796	.096	3.000	1.900	.097
Magrath.....	2.732	1.475	.067	2.849	2.303	.120
Milk River.....	2.762	1.479	.015	2.595	1.290	.116
Pakan.....	2.517	2.329		2.275	1.484	
Pukowki.....	2.571	1.892		2.546	1.889	
Pembina.....	1.504	1.092	.023	1.577	1.044	.038
Redcliff.....	1.901	1.077	.046	1.968	1.108	.047
Rochester.....	2.015	2.301	.054	2.114	2.043	.132
Searsnith.....	1.698	1.698		2.038	1.250	
Sheerness.....	1.399	0.752	.023	1.402	0.668	.031
Stevenville.....						
Taber.....	2.230	1.502	.020	2.437	1.423	.013
Tofield.....	1.460	0.729	.099	1.491	1.040	.120
Wataskiwin.....	1.823	1.197		1.885	0.875	
Whitecourt.....	2.124	1.022		2.316	1.580	
Area not designated.....	1.900	0.877	.003	1.854	1.720	.013
Total Lignite.....	2.374	1.537	.070	2.416	1.539	.069
Total Alberta.....	2.618	1.717	.112	2.609	1.713	.118
BRITISH COLUMBIA—(Bituminous)						
Crow's Nest Pass.....	2.733	1.665	.196	2.812	1.850	.139
Inland.....	3.450	2.648	.324	3.050	2.301	.245
Island.....	4.220	2.863	.245	4.343	2.895	.245
Total British Columbia.....	3.668	2.466	.239	3.636	2.456	.210
YUKON—(Bituminous).....	9.667	1.905	.071	9.418	1.911	
Canada.....	3.079	1.998	.226	3.077	2.008	.220

Table 39.—Employees, Salaries and Wages in the Coal Mines of Canada, by Provinces, 1938

Province	Average number of employees				Salaries and wages			
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Surface	Under-ground				
						\$	\$	\$
Nova Scotia.....	444	54	2,132	11,460	14,090	936,855	13,676,617	14,613,472
New Brunswick.....	35	5	253	867	1,160	77,562	742,884	820,446
Manitoba.....				5	5		4,186	4,186
Saskatchewan.....	58	9	256	585	908	116,802	610,475	727,277
Alberta.....	498	27	1,054	5,420	7,899	1,143,859	7,852,897	8,996,756
British Columbia.....	167	10	912	1,921	3,010	447,488	3,089,466	3,536,954
Yukon.....				2	2		690	690
Canada.....	1,202	105	5,507	20,260	27,074	2,722,566	25,977,215	28,699,781

Table 40.—Employment and Earnings in the Coal Mines of Canada, 1934-1938

	1934	1935	1936	1937	1938
Average number of wage-earners—					
Surface.....	5,426	5,368	5,511	5,560	5,507
Underground.....	19,245	19,463	20,086	20,330	20,260
Total.....	24,671	24,831	25,597	25,890	25,767
Days' work done—					
Surface.....	1,289,517	1,312,667	1,374,980	1,441,102	1,301,913
Underground.....	3,980,559	4,069,853	4,381,935	4,654,218	4,047,580
Total.....	5,270,076	5,382,520	5,756,915	6,095,320	5,349,493
Average number of days worked per man per year—					
Surface.....	238	244	249	259	236
Underground.....	207	209	218	229	200
By all wage-earners.....	214	216	225	235	208
Total wages paid.....	\$ 21,082,066	\$ 24,028,618	\$ 26,331,682	\$ 29,006,361	\$ 25,977,215

Table 41.—Wage-earners Employed in the Coal Mines of Canada, by Months and by Provinces, 1934-1938

Month and year	Nova Scotia	New Brunswick	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Canada
January.....1934	12,087	1,159	29	1,273	9,534	3,205		27,287
1935	12,699	1,230	28	1,152	9,661	2,980		27,750
1936	12,805	1,238	28	1,115	9,352	2,648		27,186
1937	12,977	1,275	23	1,110	9,836	2,892		28,113
1938	13,880	1,027	12	1,110	9,192	3,101		28,332
February.....1934	12,063	1,152	22	1,144	8,562	3,007		26,950
1935	12,647	1,224	24	1,008	8,060	2,685		26,237
1936	12,724	1,251	24	1,110	9,288	2,695		27,092
1937	12,915	1,292	24	1,025	9,490	2,851		27,597
1938	13,687	1,151	12	1,049	8,916	3,055		27,850
March.....1934	11,056	1,110	13	909	8,035	2,762		23,887
1935	12,701	1,236	19	834	7,663	2,483		21,941
1936	12,810	1,217	23	827	8,300	2,611		25,848
1937	12,828	1,300	21	768	8,004	2,914		25,835
1938	13,653	1,154	12	758	7,362	2,908	2	25,849
April.....1934	11,084	1,094		507	6,455	2,874		22,014
1935	12,668	1,139	2	556	6,291	2,525		23,181
1936	12,828	1,157	10	554	6,543	2,546		23,634
1937	12,930	1,172		588	6,330	2,911		23,937
1938	13,746	1,086		528	5,683	2,742	2	23,787
May.....1934	12,002	977		408	5,755	2,834	3	21,979
1935	12,658	1,111		443	5,527	2,539	3	22,281
1936	12,803	1,094		409	5,735	2,545	3	22,589
1937	14,109	1,117		507	5,546	2,898	2	24,177
1938	13,635	1,050		439	5,472	2,751	2	23,349
June.....1934	12,155	987		390	5,714	2,779	3	22,028
1935	11,759	1,091		425	5,448	2,460	3	21,186
1936	12,874	1,108		393	5,846	2,531	3	22,755
1937	12,867	1,120		480	5,411	2,787		22,665
1938	13,555	1,048		428	5,155	2,743	2	22,931
July.....1934	12,064	934		399	5,626	2,703	3	21,729
1935	12,785	1,039		401	5,487	2,464	3	22,179
1936	12,931	1,078		393	5,712	2,559		22,673
1937	13,077	1,120		492	5,379	2,796		22,854
1938	13,579	1,047		503	5,177	2,754	2	23,062
August.....1934	12,127	948		507	6,705	2,726		23,613
1935	12,830	1,059		455	6,572	2,253	3	23,172
1936	12,890	1,071		574	6,981	2,606		24,122
1937	13,091	1,093		591	7,037	2,854		24,666
1938	13,523	1,059		538	6,467	2,710		24,297
September.....1934	12,271	924		1,094	8,672	2,677		23,658
1935	12,783	1,051		823	7,882	2,299		21,838
1936	12,889	1,130	6	1,103	8,990	2,645		26,763
1937	13,376	1,087		1,148	8,360	2,884		26,855
1938	13,509	1,124		846	7,364	2,757		25,690
October.....1934	12,432	928	18	1,408	9,456	2,849		27,091
1935	12,811	1,118	20	1,220	9,233	2,356		26,758
1936	12,988	1,139	29	1,332	9,964	2,721		28,173
1937	13,478	1,049	18	1,361	9,340	3,000		28,244
1938	13,500	1,203	8	1,278	8,978	2,838		27,865
November.....1934	12,680	1,048	26	1,319	9,846	2,885		27,901
1935	12,921	1,156	26	1,273	9,877	2,833		27,886
1936	12,992	1,194	33	1,216	9,987	2,763		28,185
1937	13,491	1,457	20	1,253	9,578	2,630		27,629
1938	13,508	1,248	8	1,391	9,468	2,746		28,369
December.....1934	12,561	1,168	29	1,225	9,712	2,907		27,632
1935	12,819	1,205	29	1,163	9,620	2,696		27,532
1936	13,046	1,229	24	1,144	9,954	2,776		28,173
1937	13,876	1,518	23	1,169	9,449	3,080		28,115
1938	13,330	1,254	8	1,225	9,253	2,883		27,953
Average.....1934	12,651	1,035	12	882	7,839	2,849	3	24,671
1935	12,674	1,136	12	813	7,662	2,531	3	24,831
1936	12,881	1,158	15	847	8,054	2,639	3	25,597
1937	13,268	1,050	19	874	7,813	2,873	2	25,890
1938	13,592	1,120	5	841	7,374	2,833	2	25,767

Table 42.—Wage-earners Employed and Days' Work Done, by Months, in the Coal Mines of Canada, 1938, with Comparative Totals for 1937

Month	Number of wage-earners			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
January.....	5,891	22,431	28,322	125,013	414,641	539,654
February.....	5,847	22,023	27,870	115,045	382,048	497,093
March.....	5,554	20,295	25,849	111,580	342,970	454,550
April.....	5,108	18,679	23,787	91,337	265,183	356,520
May.....	5,081	18,268	23,349	96,778	317,138	413,916
June.....	4,996	17,935	22,931	93,744	298,361	392,105
July.....	5,058	18,004	23,062	90,540	260,451	350,991
August.....	5,200	19,097	24,297	103,584	295,629	399,213
September.....	5,530	20,064	25,600	107,194	325,966	433,160
October.....	5,944	21,801	27,805	122,974	391,990	514,964
November.....	5,974	22,395	28,369	124,347	395,955	520,302
December.....	5,888	22,065	27,953	119,777	357,248	477,025
Total for 1938				1,301,913	4,047,580	5,349,493
Total for 1937				1,441,102	4,654,218	6,095,320

Table 43.—Wage-earners Employed in the Coal Mines of Canada, by Classes and by Provinces, 1938, with Comparative Totals for 1937

Classification	Province							Canada		
	Nova Scotia	New Brunswick	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Surface	Under-ground	Total
Administration.....	54	24		8	59	14		159		159
Clerks.....	116	15		19	125	27		302		302
Screenmen and loaders.....	662	63		49	560	148		1,482		1,482
Foremen and officials.....	743	35		33	519	116	1	226	1,221	1,447
Stripping shovel operators.....				2	11			13		13
Hand cutters and helpers.....	725	493	5	298	1,862	418	1		3,802	3,802
Machine cutters and helpers.....	1,040	98		38	284	156			1,616	1,616
Machine loaders and helpers.....	2,508	148		68	1,282	368			4,374	4,374
Horse haulage employees.....	389	3		50	379	141		43	919	962
Mechanical haulage employees.....	1,673	20		30	361	292		121	2,255	2,376
Ventilation employees.....	239	2		3	46	42			332	332
Roadmakers.....	318	10		28	131	31		5	513	518
Timbermen.....	1,147	23		17	265	113		7	1,558	1,565
Pumpmen.....	87	11		3	21	2		4	120	124
Loading shovel.....				6				6		6
Chute loaders.....	76	2			184	31			293	293
Engineers.....	303	21		11	142	57		417	117	534
Firemen.....	128	4		11	89	31		263		263
Machinists.....	205	3		6	70	49		311	22	333
Carpenters and masons.....	127	9		6	54	46		238	4	242
Other mechanics.....	339	5		8	110	219		323	358	681
Japanese.....						3		3		3
Chinese.....						104		104		104
Indians.....										
All other employees.....	2,713	131		147	820	425		1,480	2,756	4,236
Total for 1938	13,592	1,120	5	841	7,374	2,833	2	5,507	20,260	25,767
Total for 1937	13,268	1,050	10	874	7,813	2,873	2	5,560	20,330	25,890

Table 44.—Average Output of Coal per Man-Day in Canada, by Provinces and by Districts, 1937 and 1938

	1937			1938		
	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.....	2,195,992	5,490,819	2.500	1,870,562	4,676,730	2.500
Cumberland.....	427,923	807,651	1.887	357,601	713,768	1.996
Inverness.....	126,209	186,927	1.481	121,383	173,535	1.430
Pictou.....	530,602	771,557	1.453	429,777	672,384	1.564
Total.....	3,280,786	7,256,954	2.211	2,779,323	6,236,417	2.244
NEW BRUNSWICK.....	256,677	364,714	1.420	235,392	342,238	1.454
MANITOBA.....	2,193	3,172	1.446	1,336	2,016	1.509
SASKATCHEWAN.....	200,757	1,049,348	5.226	194,993	1,022,166	5.242
ALBERTA—						
Bituminous—						
Cascade.....	56,483	175,986	3.115	56,227	170,034	3.024
Crowanest.....	378,302	1,326,399	3.506	356,787	1,297,640	3.637
Mountain Park.....	213,790	764,371	3.575	194,822	688,449	3.534
Nordegg.....	45,202	147,028	3.252	41,920	154,356	3.682
Total Bituminous.....	693,777	2,413,784	3.470	649,766	2,310,479	3.556
Sub-Bituminous—						
Coalspur.....	84,563	350,427	4.143	90,311	351,429	3.891
Morley.....	575	667	1.160	80	61	0.763
Pekisko.....	2,151	4,928	2.291	1,998	5,080	2.543
Pincher.....	1,037	1,541	1.486	871	1,413	1.622
Prairie Creek.....	41,511	106,803	2.572	35,103	91,189	2.598
Saunders.....	18,649	41,894	2.246	17,745	39,743	2.245
Total Sub-Bituminous.....	148,486	500,260	3.409	146,108	488,915	3.346
Lignite—						
Ardley.....	9,776	24,017	2.456	8,754	21,462	2.452
Big Valley.....	1,730	2,488	1.438	1,422	2,069	1.455
Brooks.....	3,153	9,157	2.904	3,361	9,669	2.877
Camrose.....	18,987	57,121	3.008	18,570	52,670	2.836
Carbon.....	32,405	105,018	3.240	28,605	92,844	3.246
Castor.....	14,339	40,765	2.842	14,177	39,757	2.804
Champion.....	9,020	17,933	1.988	8,195	16,184	1.975
Drumheller.....	332,692	1,289,765	3.876	293,278	1,167,993	3.983
Edmonton.....	167,344	542,063	3.239	143,915	515,077	3.579
Gleichen.....	14,734	19,902	1.350	14,684	23,046	1.569
Halcourt.....	4,703	4,620	0.982	3,522	3,368	0.956
Lethbridge.....	110,832	350,388	3.161	106,573	342,135	3.210
Magnath.....	1,000	995	0.995	694	542	0.781
Milk River.....	2,234	4,290	1.920	2,169	3,693	1.703
Pakan.....	1,164	773	0.664	401	353	0.880
Pakowki.....	834	1,339	1.605	900	1,419	1.577
Pembina.....	9,791	33,403	3.411	8,290	30,270	3.651
Redcliff.....	7,884	30,203	3.830	6,827	27,382	4.011
Rochester.....	276	478	1.731	518	729	1.407
Sixsmith.....	85	43	0.505	100	80	0.800
Sheerness.....	8,330	39,388	4.728	6,918	35,934	5.194
Stevenville.....						
Taber.....	5,904	13,139	2.225	5,176	12,326	2.381
Tofield.....	11,030	48,315	4.380	13,613	45,094	3.313
Wetaskiwin.....	1,237	2,238	1.809	1,178	2,342	1.988
Whitecourt.....	202	356	1.762	121	231	1.909
Area not designated.....	1,502	4,598	2.888	2,842	5,170	1.819
Total Lignite.....	771,278	2,642,795	3.426	694,803	2,451,839	3.529
Total Alberta.....	1,613,541	5,562,839	3.447	1,490,677	5,251,233	3.523
BRITISH COLUMBIA—						
Crow's Nest Pass.....	125,294	494,963	3.950	132,417	482,417	3.643
Inland.....	100,590	190,650	1.895	97,644	216,311	2.215
Island.....	515,402	913,230	1.771	417,625	741,559	1.776
Total.....	741,346	1,598,843	2.156	647,686	1,440,287	2.224
YUKON.....	20	84	4.200	86	361	4.198
Canada.....	6,095,320	15,835,954	2.598	5,349,493	14,294,718	2.672

Table 45.—Fatal and Non-Fatal Accidents in the Coal Mining Industry in Canada, by Provinces, 1938, with Comparative Totals for 1937

	Nova Scotia		New Brunswick		Manitoba		Saskatchewan		Alberta		British Columbia		Canada	
	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal
UNDERGROUND														
Falls of roof or face.....	7	648		102		5	1	40	5	82	3	128	16	1,065
Mine cars and locomotives.....	34	442		54		2	1	54	4	30		60	39	642
Gas and dust explosions.....														
Explosives.....		3		6				8	7	7	3	5	10	12
Electricity.....				2					2	5			1	18
Timbering.....								6						2
Mining and loading coal.....								63		6				6
Coal cutting machines.....										9				69
Miscellaneous.....		1,068		150				25	1	39	3	261	4	9
Total underground.....	41	2,161		314		7	2	191	19	178	9	455	71	3,306
SURFACE														
Haulage and cars.....		27		7				19		2		3		58
Machinery.....		13		9		1		7				2		32
Miscellaneous.....		147		26				18	1	28	1	44	2	263
Total surface.....		187		42		1		44	1	30	1	49	2	353
Total for 1938.....	41	2,348		356		8	2	235	20	208	10	504	73	3,659
Total for 1937.....	27	1,831	1	338				249	29	145	10	758	58	3,421

Table 46.—Fuel and Electricity Used in the Coal Mining Industry in Canada, by Kinds and by Provinces, 1938

Province	Coal			Gasoline, kerosene and fuel oil	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.....	340,808				82,521,845		18,478,253
Value.....	1,086,331				1,020,444	2,106,775	
NEW BRUNSWICK—							
Quantity.....	2,809			2,760	1,016,278		
Value.....	8,803			790	23,661	23,254	
MANITOBA—							
Quantity.....			196				
Value.....			340			340	
SASKATCHEWAN—							
Quantity.....			33,609	41,982	1,933,490		438,020
Value.....			32,029	9,777	45,019	86,825	
ALBERTA—							
Quantity.....	82,527	30,685	29,881	54,373	24,779,381		7,494,008
Value.....	220,750	56,497	28,738	12,539	299,024	617,548	
BRITISH COLUMBIA—							
Quantity.....	82,186			64,363	7,372,856		18,973,062
Value.....	217,356			8,576	75,915	301,847	
YUKON—							
Quantity.....							
Value.....							
Canada—							
Quantity.....	508,330	30,685	63,686	163,478	117,623,859		45,383,343
Value.....	1,533,240	56,497	61,107	31,682	1,464,063	3,146,589	

Table 47.—Power Employed in the Coal Mining Industry in Canada, by Provinces, 1938, with Comparative Totals for 1937

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.	48 50,925			48 50,925	637 48,664	685 99,589	126 14,221	763 62,885	110 33,817
New Brunswick.....No. H.P.	13 541	3 103		16 664	124 1,114	146 1,758		124 1,114	11 410
Manitoba.....No. H.P.	3 52			3 52		3 52	2 15	2 15	2 80
Saskatchewan.....No. H.P.	26 1,685	32 1,019		58 2,704	199 4,336	257 7,040	10 483	267 4,819	9 1,372
Alberta.....No. H.P.	157 24,056	81 1,242		238 25,298	1,073 33,978	1,311 59,276	267 8,302	1,340 42,280	136 16,707
British Columbia.....No. H.P.	63 15,867	10 431	2 12,000	75 28,298	116 5,129	191 33,427	127 9,832	243 14,961	49 8,734
Yukon.....No. H.P.									
Total for 1938.....No. H.P.	310 93,126	126 2,795	2 12,000	438 107,921	2,149 33,221	2,587 201,142	532 32,853	2,681 126,074	317 61,120
Total for 1937.....No. H.P.	353 97,687	128 2,669	2 12,000	483 112,296	483 92,660	2,563 204,956	579 30,766	2,639 123,366	337 63,468

Table 48.—Capital Employed in the Coal Mines of Canada, by Provinces, 1937 and 1938

Province	1937				1938			
	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.....	41,604,785	3,365,312	5,163,041	50,133,138	35,928,287	3,575,722	5,077,169	44,581,178
New Brunswick...	935,121	32,419	341,229	1,308,769	628,675	33,159	217,532	879,366
Manitoba.....	4,000	100	500	4,600	4,000	100	500	4,600
Saskatchewan.....	2,701,973	76,394	340,960	3,119,327	2,752,658	75,299	261,512	3,089,469
Alberta.....	30,935,737	953,018	6,567,237	38,455,992	30,005,646	652,481	6,542,583	37,200,710
British Columbia..	22,566,174	553,593	1,929,005	25,048,772	23,146,576	466,636	1,923,352	25,536,564
Yukon.....	203,000	250		203,250	203,000	250		203,250
Canada.....	98,950,799	4,981,086	14,341,972	118,273,848	92,668,842	4,863,647	14,022,648	111,495,137

CHAPTER TWO

PRINCE EDWARD ISLAND

Coal made available for consumption in Prince Edward Island in 1938 totalled 89,674 tons compared with 94,029 tons in the preceding year. Shipments from Nova Scotia mines amounted to 76,660 tons; from New Brunswick, 1,332 tons; from Great Britain, 6,589 tons; from Germany, 3,189 tons and from the United States, 1,914 tons. Ten tons of Canadian coal were exported from this province during the year. In 1937, receipts from Nova Scotia totalled 78,663 tons; from New Brunswick, 1,354 tons; from Great Britain, 6,334 tons, from Germany, 4,027 tons and from the United States, 3,662 tons.

Table 49—Exports of Canadian Coal through Prince Edward Island Ports, 1934-1938

(Short tons)

Port	1934	1935	1936	1937	1938
Charlottetown.....		100	5	11	10
Total.....		100	5	11	10

Table 50.—*Imports into Prince Edward Island of Anthracite and Bituminous Coal, by Ports of Entry, 1937 and 1938

(Short tons)

Port	Source	1937					1938						
		Anthracite			Bitu- inous, all grades	Total coal	Anthracite				Bitu- inous, all grades	Total coal	
		Grate, egg, stove, nut, doubles, cobbles and trebles	Peas, beans and smaller sizes n.o.p.	Total			Grate, egg, stove, nut, doubles, cobbles and trebles	Screen- ings or dust	Peas, beans and smaller sizes n.o.p.	Total			
Charlottetown..	U.S....	1,153		1,153	67	1,224	1,777				1,777	137	1,914
	G.B....	1,894		1,894	4,440	6,334						4,246	4,246
	Ger- many.	1,677		1,677		1,677							
Summerside....	U.S....				2,442	2,442							
	G.B....											2,343	2,343
	Ger- many.	2,350		2,350		2,350	3,189				3,189		3,189
Total.....	U.S....	1,153		1,153	2,509	3,662	1,777				1,777	137	1,914
	G.B....	1,894		1,894	4,440	6,334						6,589	6,589
	Ger- many	4,027		4,027		4,027	3,189				3,189		3,189
Grand total..		7,074		7,074	6,919	14,023	4,966				4,966	6,726	11,692

*The total tonnage received at Prince Edward Island ports of entry. See page 4, section 2, for explanation.

Table 51.—Summary Statistics for Prince Edward Island in 1938—Exports, Inter-provincial Shipments and Imports, by Months and by Kinds

(Short tons)

Month	Canadian coal received from other provinces	Exported	Imported from U.S.A.	Imported from Great Britain	Imported from Germany
January—					
Anthracite.....	7,830		28		
Bituminous.....					
Total.....	7,830		28		
February—					
Anthracite.....	5,827				
Bituminous.....					
Total.....	5,827				
March—					
Anthracite.....	6,460		42		
Bituminous.....					
Total.....	6,460		42		
April—					
Anthracite.....	3,861				
Bituminous.....					
Total.....	3,861				
May—					
Anthracite.....	3,820	10			
Bituminous.....					
Total.....	3,820	10			
June—					
Anthracite.....	3,355				
Bituminous.....					
Total.....	3,355				
July—			195		
Anthracite.....	4,312			4,246	
Bituminous.....					
Total.....	4,312		195	4,246	
August—					
Anthracite.....	4,344		35	2,343	
Bituminous.....					
Total.....	4,344		35	2,343	
September—			1,278		2,240
Anthracite.....	9,322				
Bituminous.....					
Total.....	9,322		1,278		2,240
October—					
Anthracite.....	9,369				
Bituminous.....					
Total.....	9,369				
November—			304		
Anthracite.....	10,551		32		
Bituminous.....					
Total.....	10,551		336		
December—					949
Anthracite.....	8,941				
Bituminous.....					
Total.....	8,941				949
Total—					
Anthracite.....		10	1,777		3,189
Bituminous.....	77,992		137	6,598	
Total.....	77,992	10	1,914	6,598	3,189

CHAPTER THREE

NOVA SCOTIA

Production from Nova Scotia coal mines in 1938 declined to 6,236,417 tons from the 1937 total of 7,256,954 tons. Mines in Cape Breton produced 4,676,730 tons or 14·8 per cent below the 1937 output. Cumberland district produced 713,768 tons compared with 807,651 tons a year ago. The Inverness output was 7·2 per cent lower at 173,535 tons. In the Pictou district production declined 12·9 per cent to 672,384 tons.

Nova Scotia operators shipped 5,770,319 tons in 1938; during the preceding year, 6,603,236 tons were shipped. The province of Quebec continued to be the principal market for Nova Scotia coal; in 1938, this province received 2,320,965 tons of coal for railroad and other purposes. Shipments from the mines, for consumption within Nova Scotia (except local sales to employees), aggregated 1,702,836 tons and included 372,507 tons for railroad use and 1,330,329 tons for other uses. New Brunswick railroads received 110,303 tons and other consumers in this province, 424,246 tons. Shipments to Prince Edward Island included 9,358 tons for railroads and 67,302 tons for other purposes. Coal supplied for ships' bunkers totalled 243,636 tons. Nova Scotia mines shipped 33,934 tons direct to Ontario; in addition to this quantity, trans-shipments were made from Montreal to the following districts: Ottawa area, 269,070 tons; Kingston area, 78,084 tons; Toronto area, 185,726 tons; Windsor area, 24,873 tons and the Northern Ontario area, 220,094 tons.

Active mines in Nova Scotia in 1938 produced approximately 63 per cent of their possible output; 33·5 per cent of the output loss was due to lack of orders. Causes other than strikes were responsible for a production loss of 3,739,938 tons during the year while strikes accounted for an additional computed loss of 11,651 tons.

Coal made available for use in Nova Scotia in 1938 amounted to 2,506,888 tons of which 96·0 per cent was supplied by mines within the province; 3·1 per cent by mines in Great Britain and the remainder by mines in the United States, Germany, the Netherlands and the neighbouring province of New Brunswick.

Nova Scotia coal mines furnished employment in 1938 to 13,592 wage-earners who received 2,779,323 man-days work or an average of 204 days per man. In 1937, there were 13,268 men employed who worked 3,280,786 eight-hour shifts or an average of 247 shifts per man.

In May, 1938, electrical equipment necessary for the operation of coal cutting machines was installed at the Dominion No. 20 mine at New Aberdeen in the town of Glace Bay. Additional new installations included a mechanical loader and a system of conveyors for the transportation of coal from the face to the point of loading into pit tubs for movement to the surface. The men employed in this mine refused to operate this machinery and the mine remained idle to the end of the year. At the Dominion No. 4 colliery in Glace Bay extensive repairs were made to the bankhead and two nut coal chutes were installed, thus permitting the production of stoker nut. Acadia No. 3 mine at Thorburn ceased operations on October 12th; fifteen days later the workmen were allowed to take their winter's coal from the mine. This work continued until November 9th, at which time officials started to take out equipment and material. On August 8th, the Greenwood Coal Company commenced operations at the Milford No. 2 mine in Coalburn.

Table 52.—Output of Coal from Nova Scotia Mines, 1785-1938

(Short tons)

Calendar year	Output	Value	Calendar year	Output	Value	Calendar year	Output	Value
		\$			\$			\$
1785-1866.....	2,649,416	4,139,714	1891.....	2,267,919	3,543,624	1916.....	6,912,140	18,514,662
1867.....	596,332	931,769	1892.....	2,159,389	3,374,046	1917.....	6,327,691	19,410,737
1868.....	574,106	897,041	1893.....	2,444,924	3,820,194	1918.....	5,818,562	21,095,470
1869.....	647,727	1,012,074	1894.....	2,527,982	3,949,970	*1919.....	5,790,196	22,350,157
1870.....	719,211	1,123,767	1895.....	2,225,145	3,476,790	*1920.....	6,437,156	32,314,523
1871.....	754,827	1,179,417	1896.....	2,508,579	3,919,655	*1921.....	5,734,928	27,782,050
1872.....	1,003,806	1,568,446	1897.....	2,493,564	3,896,179	*1922.....	5,569,072	24,629,921
1873.....	1,108,245	1,731,632	1898.....	2,563,180	4,004,970	*1923.....	6,597,838	28,170,458
1874.....	972,954	1,520,240	1899.....	3,148,822	5,622,898	*1924.....	5,557,441	22,280,554
1875.....	930,613	1,454,084	1900.....	3,623,536	8,088,250	*1925.....	3,842,978	15,826,680
1876.....	837,755	1,308,991	1901.....	4,158,068	6,496,982	*1926.....	6,747,477	26,845,226
1877.....	880,215	1,375,339	1902.....	5,161,316	9,216,636	*1927.....	7,071,876	27,194,071
1878.....	875,994	1,368,741	1903.....	5,653,338	10,095,246	*1928.....	6,743,504	27,427,556
1879.....	866,220	1,353,469	1904.....	5,595,241	9,993,288	*1929.....	7,056,133	29,071,956
1880.....	1,177,669	1,840,108	1905.....	5,846,583	10,083,184	*1930.....	6,252,552	24,528,860
1881.....	1,280,050	2,000,079	1906.....	6,220,505	11,108,044	*1931.....	4,955,563	19,016,720
1882.....	1,524,947	2,382,730	1907.....	6,354,133	12,764,999	*1932.....	4,081,581	15,167,793
1883.....	1,578,609	2,466,576	1908.....	6,652,539	13,364,476	*1933.....	4,557,590	15,969,793
1884.....	1,543,829	2,412,233	1909.....	5,652,089	11,354,643	*1934.....	6,341,625	21,860,093
1885.....	1,547,990	2,418,735	1910.....	6,431,142	12,919,705	*1935.....	5,822,075	20,391,227
1886.....	1,698,018	2,653,152	1911.....	7,004,420	14,071,379	*1936.....	6,649,102	22,973,281
1887.....	1,858,598	2,904,057	1912.....	7,783,888	17,374,750	*1937.....	7,256,954	25,640,819
1888.....	1,942,231	3,034,735	1913.....	7,980,073	17,812,063	*1938.....	6,236,417	22,523,802
1889.....	1,918,827	2,998,167	1914.....	7,370,924	16,452,955			
1890.....	2,181,033	3,407,864	1915.....	7,463,370	16,659,308	Total	291,123,730	812,935,003

* For the years 1919-1938 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 53.—Output of Coal from Nova Scotia Mines, by Months, 1934-1938

(Short tons)

Month	1934	1935	1936	1937	1938
January.....	433,414	508,191	435,997	500,455	606,954
February.....	405,798	428,092	420,552	453,477	534,257
March.....	436,063	397,270	425,146	453,659	528,559
April.....	401,655	369,834	423,984	467,437	402,076
May.....	599,830	498,924	571,892	639,377	616,579
June.....	596,494	535,841	628,590	622,492	572,493
July.....	581,349	583,832	646,568	694,786	469,737
August.....	606,242	489,057	565,859	698,983	476,785
September.....	601,167	463,263	653,918	697,474	539,676
October.....	663,140	593,310	690,343	694,425	570,368
November.....	597,990	504,099	622,152	700,919	490,733
December.....	418,483	450,356	566,101	633,470	428,200
Total.....	6,311,625	5,822,075	6,649,102	7,256,954	6,236,417

Table 54.—Output of Coal by Districts in Nova Scotia, 1934-1938

(Short tons)

District	1934	1935	1936	1937	1938
Cape Breton.....	4,926,085	4,413,570	5,158,877	5,490,819	4,676,730
Cumberland.....	738,017	702,496	701,767	807,651	713,768
Inverness.....	116,872	116,978	142,540	186,927	173,535
Pictou.....	560,651	589,031	645,918	771,557	672,384
Total.....	6,311,625	5,822,075	6,649,102	7,256,954	6,236,417

Table 55.—Output of Coal by Principal Collieries in Nova Scotia, 1936-1938
(Average of 500 tons or more per month)

(Short tons)

Name	Address	1936	1937	1938
CAPE BRETON DISTRICT—				
Bras d'Or Coal Co., Ltd.	Bras d'Or	116,467	137,515	131,100
British Coal Co. Ltd. (formerly Sydney Mines Coal Co.)	Sydney	7,340	6,245	5,313
Dominion Coal Co., Ltd.	Sydney	4,296,057	4,563,119	3,878,264
Indian Cove Coal Co., Ltd.	Sydney Mines	61,555	60,440	63,911
Nova Scotia Steel and Coal Co., Ltd.	Sydney	686,776	720,652	597,695
All other operators		682	2,848	447
Total		5,158,877	5,490,819	4,676,730
CUMBERLAND DISTRICT—				
Cumberland Railway and Coal Co., Ltd.	Springhill	541,773	666,472	552,998
Maritime Coal, Railway & Power Co., Ltd.	Amherst	70,171	40,517	60,923
Shore Coal Co. Ltd.	Amherst	23,007	22,226	24,322
Standard Coal Co., Ltd.	River Hebert	21,092	43,819	17,980
Victoria Coal Co., Ltd.	New Glasgow	45,724	34,617	48,545
All other operators				
Total		701,767	807,651	713,768
INVERNESS DISTRICT—				
Inverness Coal Mine	Inverness	131,371	157,013	133,783
Port Hood Coal Mines Ltd. (formerly J. F. Symons)	Port Hood	9,538	27,503	37,471
All other operators		1,631	2,411	2,281
Total		142,540	186,927	173,535
PICTOU DISTRICT—				
Acadia Coal Co., Ltd.	Stellarton	418,477	485,564	400,919
Greenwood Coal Co., Ltd.	New Glasgow	48,413	52,894	43,584
Intercolonial Coal Co., Ltd.	Westville	178,099	230,969	226,918
All other operators		929	2,130	963
Total		645,918	771,557	672,384
Total Nova Scotia		6,649,102	7,256,954	6,236,417

Table 56.—Tonnage Lost in Nova Scotia Coal Mines Showing, by Districts, the Relative Percentages Produced and Lost, with an Analysis of the Percentage Lost, 1937 and 1938

District		Per cent produced	Per cent lost	Percentage lost through				
				Absenteeism	Lack of orders	Car shortage	Mine disability	Other causes
Cape Breton	1937	77	23	1-6	19-0		1-5	0-9
	1938	62	38	0-9	36-0		0-8	0-3
Cumberland	1937	76	24	8-2	3-8		2-9	9-1
	1938	60	40	5-1	24-0		3-6	7-3
Inverness	1937	80	20		19-0		0-1	0-9
	1938	73	27		25-5			1-5
Pictou	1937	82	18	4-6	13-2			0-2
	1938	69	31	2-5	28-5			
Nova Scotia	1937	77	23	2-7	16-9		1-6	1-8
	1938	63	37	1-5	33-5		1-0	1-0

Table 57.—Disposition of Coal from Nova Scotia Mines, by Grades, 1938

(Short tons)

—	Run of Mine	Lump	Egg	Nut	Pea	Slack	Total Coal	
							Quantity	Value
								\$
Supplied to employees for domestic consumption.....	108,572	14,302		633		605	124,112	371,745
Used for power purposes, colliery boilers, company's railroads, etc.....	36,441	6,052		93,707		204,608	340,808	1,086,331
Lost in washing.....							18,845	
Supplied to companies for the manufacture of coke or gas.....		226,972		31,885		678,790	937,647	3,397,830
Supplied to retail coal dealers.....	109,542	439,186	6,032	37,861	2,538	630,115	1,225,274	4,551,307
Supplied to railroad companies for locomotives—								
In Prince Edward Island.....	4,766	1,504		87		3,001	9,358	
In Nova Scotia.....	290,605	62,805	53	45		18,999	372,307	
In New Brunswick (a).....	74,188	73,662	29	254		13,188	161,321	
In Quebec (a).....	104,214	429,159				48,469	581,842	4,946,292
In Ontario (b).....		187,646					187,646	
In Newfoundland.....		5,560					5,560	
Supplied to shipping companies for ships' bunkers (c).....	269,084	818				2,664	272,566	1,002,134
Supplied to industrial users.....	122,720	312,285	3,665	84,666	38	1,295,385	1,818,759	6,701,155
Supplied direct to domestic consumers.....	31,985	119,712	84	5,923	117	40,018	197,839	776,771
Added to bank (Difference between "Put on bank" and "Lifted from bank").....	+276,672	-329,642		+8,242		-48,976	-93,704	-312,763
Put on waste heap.....							76,637	
Total output.....	1,428,789	1,550,021	9,863	263,303	2,693	2,886,866	6,236,417	22,523,892

(a) Includes not only direct shipments from mines but also tonnages shipped from agencies in these provinces for railroad use.

(b) Trans-shipped from Montreal for railroad use.

(c) Includes direct sales from mines plus some agencies' sales.

Table 58.—Disposition of Coal from Nova Scotia Mines, 1937 and 1938

(Short tons)

—	1937		1938					
	Total		Run-of-mine		Nut and other grades	Slack	Quantity	Value
	Quantity	Value	Run-of-mine	Lump				
		\$						\$
Supplied to employees for domestic consumption.....	119,299	361,637	108,572	14,302	633	605	124,112	371,745
Coal shipped as per Table 60.....	6,603,236	23,796,960	1,007,104	1,859,309	173,277	2,730,629	5,770,319	21,378,489
Used under colliery boilers.....	392,880	888,352	18,385	1,531	55,391	189,046	264,333	785,878
Used by companies' railroads.....	33,540	134,725	16,015	1,492	10,088	176	27,771	114,236
Used in shops, etc.....	89,345	340,800	607	3,029	28,226	15,386	47,250	181,787
Used by harbour tugs and dredges.....	1,249	4,425	1,434				1,434	4,330
Put on bank.....	1,460,293	4,786,298	327,935	357,118	11,318	635,287	1,331,658	4,465,558
Put on waste heap.....	71,889						96,033	
Total disposition.....	8,681,731	30,313,197	1,480,652	2,236,781	278,935	3,571,129	7,662,930	27,392,123
Lifted from bank.....	1,424,638	4,672,378	51,263	686,760	3,076	684,263	1,425,362	4,778,321
Lifted from waste heap.....	139						1,151	
Total output.....	7,256,954	25,640,819	1,428,789	1,550,021	275,859	2,886,866	6,236,417	22,523,892

Table 59.—Tonnes Put on Bank and Lifted from Bank in Nova Scotia, 1934-1938

(Short tons)

Month	1934		1935		1936		1937		1938	
	Put on bank	Lifted from bank	Put on bank	Lifted from bank	Put on bank	Lifted from bank	Put on bank	Lifted from bank	Put on bank	Lifted from bank
On bank at first of year.....	181,849	.....	170,944	.....	186,949	.....	231,332	.....	266,987	.....
January.....	58,785	4,947	230,210	41,178	174,777	58,966	224,078	81,107	251,611	59,316
February.....	94,681	4,531	194,688	44,647	151,146	55,872	193,857	60,576	271,101	57,684
March.....	115,794	6,642	171,316	48,700	229,823	53,399	177,286	66,700	235,379	62,522
April.....	146,705	42,812	155,079	33,397	96,674	49,710	172,536	63,371	103,057	59,952
May.....	17,972	76,194	55,877	80,927	40,920	110,542	48,149	150,937	66,770	183,717
June.....	14,298	135,196	30,416	183,392	62,700	160,316	61,768	213,676	75,631	235,247
July.....	33,103	131,145	37,983	188,820	39,942	123,311	63,707	193,727	21,089	196,688
August.....	15,056	127,448	28,240	205,536	24,895	167,530	49,087	200,313	22,023	191,999
September.....	19,267	69,043	26,985	121,471	48,139	116,734	56,881	150,984	46,573	147,533
October.....	25,805	25,163	65,678	151,613	33,187	89,616	56,743	122,547	37,256	143,977
November.....	59,897	26,222	70,520	81,067	79,757	79,367	115,038	57,626	57,787	45,539
December.....	147,755	49,680	140,598	60,837	243,585	65,799	241,163	63,014	143,381	41,188
Total.....	747,118	698,923	1,297,590	1,241,585	1,225,545	1,131,167	1,460,293	1,424,638	1,331,658	1,425,362

Table 60.—Shipments of Coal from Nova Scotia Mines, by Grades and by Destinations 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of mine	Lump	Nut and other grades	Slack	Total	Run-of mine	Lump	Nut and other grades	Slack	Total
Coal supplied for bunkers.....	309,768	7,530	16	2,019	319,333	240,154	818	.....	2,664	243,636
Coal supplied to railroads—										
In Nova Scotia.....	331,768	58,890	97	15,487	406,242	290,605	62,805	98	18,999	372,507
In New Brunswick....	70,341	24,966	261	9,852	105,420	74,188	22,644	283	13,188	110,303
In Quebec.....	144,850	227,623	.....	1,939	374,412	103,851	229,646	.....	3,860	337,357
In Ontario.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
In Prince Edward Island.....	4,208	3,474	57	4,269	12,008	4,766	1,504	87	3,001	9,358
Total in Canada....	551,167	314,953	415	31,547	898,082	473,410	316,599	468	39,048	829,525
In Newfoundland.....	.....	9,280	.....	.....	9,280	.....	5,560	.....	.....	5,560
Nova Scotia Iron and Steel.....	4,630	84,648	.....	412,407	501,685	14,428	76,401	.....	397,628	488,457
Nova Scotia other shipments by land.....	164,080	254,045	16,764	459,704	894,593	123,419	222,862	20,234	338,682	765,197
Nova Scotia by sea....	18,463	61,272	12,435	57,708	149,878	13,225	48,388	10,569	64,493	136,675
New Brunswick.....	142,827	80,048	14,039	285,391	522,305	73,017	96,744	19,758	234,727	424,246
Newfoundland.....	15,811	96,038	.....	12	111,921	28,198	81,626	115	.....	109,939
Prince Edward Island..	6,463	43,873	4,296	12,023	66,655	7,733	41,939	3,979	13,651	67,302
Quebec (a).....	29,046	1,064,074	134,728	1,733,741	2,961,589	31,918	964,435	118,154	1,606,131	2,720,638
Ontario.....	2,834	13,488	32,670	57,817	106,809	.....	329	.....	33,605	33,934
United States.....	349	1,134	.....	65,038	56,521	.....	.....	.....	.....	.....
St. Pierre.....	.....	.....	.....	.....	.....	1,602	3,608	.....	.....	5,210
Other countries.....	1,145	3,440	.....	.....	4,585	.....	.....	.....	.....	.....
Lost at sea.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	1,246,593	2,433,883	215,363	3,167,407	6,693,236	1,607,104	1,859,309	173,277	2,730,629	5,770,319

(a) The 1937 and 1938 figures include a considerable quantity of coal sold for railroad use.

Table 61.—Exports of Canadian Coal through Nova Scotia Ports, 1934-1938

(Short tons)

Port	1934	1935	1936	1937	1938
Halifax		67	35		1
Liverpool					
Lunenburg	62,180	97,349	79,645	90,004	109,500
North Sydney					
Pictou	107,792	135,181	122,823	29,378	17,696
Sydney					
Total	169,972	232,597	202,503	119,382	127,197

Table 62.—Imports into Nova Scotia of Anthracite and Bituminous Coal, by Ports of Entry, 1937 and 1938*

(Short tons)

Port	Source	1937					1938					
		Anthracite			Bitum- inous, all grades	Total coal	Anthracite			Bitum- inous, all grades	Total coal	
		Grate, egg, stove, nut, doubles, cobbles and trebles	Peas, beans and smaller sizes n.o.p.	Total			Grate, egg, stove, nut, doubles, cobbles and trebles	Screen- ings or dust	Peas, beans and smaller sizes n.o.p.			Total
Amherst	U.S.						892			892		892
Annapolis	U.S.											
Antigonish	U.S.											
Arichat	U.S.											
Baddeck	U.S.											
Barrington	U.S.											
Passage	U.S.			254		254	255			255		255
Bridgewater	U.S.	254		212		212	484			484		484
Canso	U.S.	212		120		120	135			135		135
Digby	U.S.	120										
	G.B.											
Glace Bay	U.S.											
Halifax	U.S.	1,531		1,531	2,712	4,243	1,529			1,529	28	1,557
	U.S.											
	G.B.	37,044	7,644	44,688	31,203	75,891	39,879		7,006	46,885	20,787	67,672
	Ger- many.	13,169		13,169	6,955	20,124	9,689		181	9,870		9,870
	Nether- lands.						1,345			1,345		1,345
Kentville	G.B.	1,988		1,988		1,988					2,417	2,417
	Ger- many.						2,345			2,345		2,345
Liverpool	U.S.	216		216		216	461			461		461
	G.B.	1,100		1,100	1,118	2,218	582			582	1,045	1,627
Lunenburg	U.S.	1,121		1,121		1,121	469			469		469
	G.B.	2,217		2,217		2,217	2,021			2,021		2,021
Middleton	U.S.											
New Glasgow	U.S.											
North Sydney	U.S.				6	6	20			20		20
Parrsboro	U.S.											
Pictou	U.S.											
Port												
Hawkesbury	U.S.											
Port Hood	U.S.											
Shelburne	U.S.											
	G.B.											
Sydney	U.S.	10		10		10						
Truro	U.S.											
Weymouth	U.S.	201		201		201	168			168		168
Windsor	U.S.											
Yarmouth	U.S.	4,941		4,941	55	4,996	5,028		123	5,151	2	5,153
	G.B.	1,969		1,969		1,969	3,789			3,789		3,789
Total	U.S.	8,696		8,696	2,773	11,379	9,441		123	9,564	30	9,594
	G.B.	44,318	7,644	51,962	32,321	84,283	46,271		7,006	53,277	24,249	77,526
	Ger- many	13,169		13,169	6,955	20,124	12,034		181	12,215		12,215
	Nether- lands						1,345			1,345		1,345
Grand Total		66,093	7,644	73,737	42,049	115,786	69,091		7,310	76,401	24,279	100,680

*The total tonnage received at Nova Scotia ports of entry. See page 4, section 2, for explanation.

Table 63.—Summary Statistics for Nova Scotia in 1938—Output, Exports, Inter-provincial Shipments and Imports, by Months and by Kinds

(Short tons)

Month	Canadian Coal				Imported from U.S.A.	Imported from Great Britain	Imported from Germany	Imported from Netherlands
	Output	Received from other provinces	Shipped to other provinces	Exported				
January—								
Anthracite.....					361	2,317	5,721	
Bituminous.....	606,954		130,485	25,230		4,002		
Total.....	606,954		130,485	25,230	361	6,319	5,721	
February—								
Anthracite.....						5,774		
Bituminous.....	534,257		106,176	11,408	28	4,347		
Total.....	534,257		106,176	11,408	28	10,121		
March—								
Anthracite.....					174	13,070	4,149	
Bituminous.....	528,559		111,974	1,987		3,397		
Total.....	528,559		111,974	1,987	174	16,467	4,149	
April—								
Anthracite.....					321			
Bituminous.....	402,076		139,538			2,961		
Total.....	402,076		139,538		321	2,961		
May—								
Anthracite.....					201			
Bituminous.....	616,579		511,749	11,000				
Total.....	616,579		511,749	11,000	201			
June—								
Anthracite.....					3,820			
Bituminous.....	572,493		516,968	11,553				
Total.....	572,493		516,968	11,553	3,820			
July—								
Anthracite.....					130			
Bituminous.....	469,737		465,536	10,707		4,066		
Total.....	469,737		465,536	10,707	130	4,066		
August—								
Anthracite.....					1,338	5,830	2,345	
Bituminous.....	476,785		473,929	14,470	2	2,972		
Total.....	476,785		473,929	14,470	1,340	8,802	2,345	
September—								
Anthracite.....					883	4,019		
Bituminous.....	539,676	63	453,967	11,907				
Total.....	539,676	63	453,967	11,907	883	4,019		
October—								
Anthracite.....					391	0,929		
Bituminous.....	570,368		466,967	3,621				
Total.....	570,368		466,967	3,621	391	6,929		
November—								
Anthracite.....					1,696	3,689		
Bituminous.....	490,733	63	247,230	18,356		2,504		
Total.....	490,733	63	247,230	18,356	1,696	6,193		
December—								
Anthracite.....					249	11,649		1,345
Bituminous.....	428,200		78,619	6,958				
Total.....	428,200		78,619	6,958	249	11,649		1,345
Total—								
Anthracite.....					9,564	53,277	12,215	1,345
Bituminous.....	6,236,417	126	3,703,138	127,197	30	24,249		
Total.....	6,236,417	126	3,703,138	127,197	9,594	77,526	12,215	1,345

Table 64.—Employees, Salaries and Wages in the Coal Mines of Nova Scotia, by Districts, 1937 and 1938

District	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Surface	Under-ground				
1937								
Cape Breton.....	312	41	1,219	7,867	9,439	658,590	11,327,640	11,986,230
Cumberland.....	50	8	281	1,269	1,608	101,879	1,933,001	2,034,880
Inverness.....	13	2	165	365	543	20,780	459,016	479,796
Pictou.....	60	4	476	1,626	2,166	116,775	1,984,427	2,101,202
Nova Scotia.....	435	55	2,141	11,127	13,758	898,024	15,704,084	16,602,108
1938								
Cape Breton.....	311	38	1,226	8,066	9,641	687,309	9,884,558	10,571,867
Cumberland.....	53	9	278	1,425	1,765	108,002	1,625,089	1,733,091
Inverness.....	18	2	152	371	543	23,509	424,142	447,651
Pictou.....	62	5	476	1,598	2,141	118,035	1,742,828	1,860,863
Nova Scotia.....	444	54	2,132	11,460	14,090	936,855	13,676,617	14,613,472

Table 65.—Employment and Earnings in the Coal Mines of Nova Scotia, 1934-1938

	1934	1935	1936	1937	1938
Average number of wage-earners—					
Surface.....	2,000	2,039	2,033	2,141	2,132
Underground.....	10,051	10,635	10,848	11,127	11,460
Total.....	12,651	12,674	12,881	13,268	13,592
Days' work done—					
Surface.....	503,219	507,045	510,586	577,019	495,095
Underground.....	2,304,706	2,244,059	2,410,460	2,703,767	2,284,228
Total.....	2,807,925	2,751,104	2,921,046	3,280,786	2,779,323
Average number of days worked per man per year—					
Surface.....	252	240	251	270	232
Underground.....	229	211	222	243	199
By all wage-earners.....	233	217	227	247	201
Total wages paid.....	\$ 12,655,775	\$ 12,671,021	\$ 13,291,656	\$ 15,504,084	\$ 13,676,617

Table 66.—Wage-Earners and Work Done, by Months, in the Coal Mines of Nova Scotia in 1938

Month	Number of wage-earners			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
January.....	2,169	11,711	13,880	48,684	229,303	277,987
February.....	2,154	11,533	13,687	42,678	201,100	243,778
March.....	2,132	11,521	13,653	43,793	200,324	244,117
April.....	2,120	11,626	13,746	36,161	153,482	189,643
May.....	2,122	11,513	13,635	44,155	216,695	260,850
June.....	2,135	11,420	13,555	41,830	204,441	246,271
July.....	2,123	11,456	13,579	38,095	171,100	209,195
August.....	2,150	11,373	13,523	38,769	175,781	214,550
September.....	2,138	11,371	13,509	41,412	191,758	233,170
October.....	2,136	11,364	13,500	42,275	200,719	242,994
November.....	2,104	11,404	13,508	39,070	177,709	216,779
December.....	2,096	11,234	13,330	38,173	161,816	199,989
Total.....				495,695	2,284,228	2,779,323

Table 67.—Number of Man-Days Worked, by Districts, in Nova Scotia, 1937 and 1938

District	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
Cape Breton.....	320,186	1,875,806	2,195,992	271,776	1,598,786	1,870,562
Cumberland.....	82,787	345,136	427,923	70,129	287,472	357,601
Inverness.....	44,234	81,975	126,209	40,511	80,872	121,383
Pictou.....	129,812	400,850	530,662	112,679	317,098	429,777
Total	577,019	2,703,767	3,280,786	495,095	2,284,228	2,779,323

Table 68.—Wage-Earners Employed in the Coal Mines of Nova Scotia, by Classes, 1937 and 1938

Classification	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
Administration.....	54		54	54		54
Foremen and officials.....	50	666	716	52	691	743
Clerks.....	114		114	116		116
Screenmen and loaders.....	674		674	662		662
Handcutters and helpers.....		787	787		725	725
Machine cutters and helpers.....		1,010	1,010		1,040	1,040
Machine loaders and helpers.....		2,299	2,299		2,508	2,508
Horse haulage employees.....	6	370	376	5	384	389
Mechanical haulage employees.....	12	1,572	1,584	13	1,660	1,673
Ventilation employees.....		239	239		239	239
Roadmakers.....		303	303		318	318
Timbermen.....		1,138	1,138		1,147	1,147
Pumpmen.....	2	89	91	2	85	87
Chute loaders.....		106	106		76	76
Enginemn.....	133	87	220	188	115	303
Firemen.....	134		134	128		128
Mechanists.....	200	7	207	193	12	205
Carpenters and masons.....	127		127	126	1	127
Other mechanics.....	93	255	348	94	245	339
All other employees.....	492	2,199	2,691	499	2,214	2,713
Total	2,141	11,127	13,268	2,132	11,460	13,592

Table 69.—Capital Employed in the Coal Mines of Nova Scotia, 1937 and 1938

	1937	1938
Capital employed as represented by—	\$	\$
Cost of lands, buildings, machinery and tools.....	41,004,785	35,928,287
Cost of supplies and stock on hand.....	3,365,312	3,575,722
Cash, trading and operating accounts and bills receivable.....	5,163,041	5,077,169
Total	50,133,138	44,581,178

CHAPTER FOUR

NEW BRUNSWICK

New Brunswick's coal output declined to 342,238 tons in 1938 from the preceding year's total of 364,714 tons. This decline was due partly to a dislocation of the market on account of the strike which commenced on October 13, 1937 and ended on January 10, 1938. Another contributory cause was the closing down of a pulp mill at Fairville for part of the year.

The mines active in this province in 1938 produced 67 per cent of their possible output compared with 78 per cent in the previous year. The tonnage lost due to causes other than strikes in 1938 was computed at 168,831 tons while strikes were responsible for a further output loss of 5,816 tons.

Shipments from New Brunswick mines totalled 334,154 tons of which 41.5 per cent was sold to railroads. The coal sold to railroads consisted of 30,693 tons of run-of-mine, 103,656 tons of lump, 549 tons of nut and other grades and, 3,713 tons of slack. Industrial users purchased 160,000 tons direct from the mines; 36.9 per cent of this quantity was slack, 38.1 per cent was run-of-mine and 18.1 per cent was stripping coal.

Employment was furnished, on the average, to 1,120 wage-earners who worked 235,392 shifts or 210 days per man. The average output per man-day in 1938 was 1.45 tons compared with 1.42 tons in 1937.

Table 70.—Output of Coal from New Brunswick Mines, 1887-1938

(Short tons)

Calendar year	Output	Value	Calendar year	Output	Value	Calendar year	Output	Value
		\$			\$			\$
1887.....	10,040	23,607	1906.....	34,076	68,152	*1925.....	208,012	815,367
1888.....	5,730	11,050	1907.....	34,584	77,814	*1926.....	173,111	710,245
1889.....	5,673	11,733	1908.....	60,000	135,000	*1927.....	203,950	885,038
1890.....	7,110	13,850	1909.....	49,029	98,496	*1928.....	207,738	869,104
1891.....	5,422	11,030	1910.....	55,455	110,910	*1929.....	218,706	909,169
1892.....	6,768	9,375	1911.....	55,781	111,562	*1930.....	209,349	864,118
1893.....	6,200	9,837	1912.....	44,780	89,560	*1931.....	182,181	743,196
1894.....	6,469	10,264	1913.....	70,311	166,637	*1932.....	212,695	794,168
1895.....	9,500	14,250	1914.....	98,049	241,075	*1933.....	312,303	1,041,744
1896.....	7,500	11,250	1915.....	127,391	309,612	*1934.....	314,750	1,026,343
1897.....	6,000	9,000	1916.....	143,540	386,016	*1935.....	346,024	1,129,019
1898.....	6,160	9,240	1917.....	189,095	708,010	*1936.....	368,618	1,190,032
1899.....	10,528	15,792	1918.....	268,212	1,331,710	*1937.....	364,714	1,180,611
1900.....	10,000	15,000	*1919.....	166,377	735,386	*1938.....	342,238	1,133,346
1901.....	17,630	51,857	*1920.....	171,610	1,091,440			
1902.....	18,795	39,680	*1921.....	187,192	920,666	Total...	6,395,159	23,493,985
1903.....	16,000	40,000	*1922.....	287,513	1,107,643			
1904.....	9,112	18,224	*1923.....	276,617	1,196,772			
1905.....	29,400	58,800	*1924.....	217,121	932,185			

* For the years 1919-1938 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 71.—Output of Coal from New Brunswick Mines, by Months, 1934-1938
(Short tons)

Month	1934	1935	1936	1937	1938
January.....	29,549	35,198	36,836	40,359	25,855
February.....	30,219	34,736	39,476	41,382	29,320
March.....	31,742	37,805	25,069	44,070	37,714
April.....	19,570	23,298	30,269	34,325	27,487
May.....	24,622	26,229	27,571	27,896	21,497
June.....	17,136	22,209	23,585	36,509	24,249
July.....	23,124	22,069	26,110	32,528	20,056
August.....	24,984	26,448	22,981	31,260	21,603
September.....	27,142	22,561	28,843	32,722	26,860
October.....	26,500	32,605	32,856	17,639	30,028
November.....	30,664	27,240	36,325	12,172	38,601
December.....	29,498	35,536	38,677	13,882	38,968
Total.....	314,759	346,024	368,618	364,714	342,238

Table 72.—Output of Coal by Principal Collieries in New Brunswick, 1936-1938
(Average output of 500 tons or more per month)
(Short tons)

Name	Address	1936	1937	1938
Avon Coal Co., Ltd.....	Saint John.....	52,153	44,569	39,326
Evans, W. R.....	Minto.....	31,401	29,403	27,136
Maritime Mining Syndicate.....	Chipman.....	3,853	11,973	.....
McDougal J. G.....	Minto.....	9,468	11,791	7,554
Minto Coal Co., Ltd.....	Minto.....	83,082	81,166	86,461
Miramichi Lumber Co., Ltd.....	Minto.....	65,439	54,810	48,925
Mitchell, Parker D.....	West Saint John.....	6,032	5,326	1,625
Mylos, Geo. H. & Co.....	Minto.....	8,150	16,564	21,233
Newcastle Coal Co.....	Newcastle Bridge.....	12,895	10,205	13,354
Welton, Harvey.....	Minto.....	13,066	9,957	7,997
Welton & Henderson Ltd.....	Minto.....	77,886	80,290	77,517
Yeamans, C. S.....	Newcastle Bridge.....	1,938	3,392	6,006
All other operators.....	.....	3,315	5,264	5,104
Total.....	.....	368,618	364,714	342,238

Table 73.—Tonnage Lost in New Brunswick Coal Mines, Showing the Relative Percentage Produced and Lost, with an Analysis of the Percentage Lost, 1937 and 1938

Year	Per cent produced	Per cent lost	Percentage lost through				
			Absenteeism	Lack of orders	Car shortage	Mine disability	Other causes
1937.....	78	22	2.6	17.0	0.0	2.1	.....
1938.....	67	33	2.2	28.2	0.1	1.4	0.3
							1.1

Table 74.—Disposition of Coal from New Brunswick Mines, by Grades, 1937 and 1938
(Short tons)

	1937		1938					
	Total		Stripping coal	Run-of-mine	Lump	Nut and other grades	Slack	Total
	Quantity	Value						Quantity Value
		\$						\$
Supplied to employees for domestic consumption.....	3,353	8,965	.....	3,749	.....	.....	4	3,753 9,602
Shipped as per Table 75.....	355,881	1,157,600	31,236	107,877	125,355	4,784	64,902	334,151 1,113,913
Used under colliery boilers, etc.....	3,960	10,065	.....	1,224	.....	.....	600	1,833 5,458
Used by companies' railroads.....	800	2,325	.....	976	.....	.....	.....	976 3,145
Put on bank.....	14,308	40,990	.....	1,115	2,643	.....	8,999	12,757 34,518
Put on waste heap.....	615	.....	.....	.....	.....	.....	.....	520
Total disposition.....	378,947	1,219,885	31,236	114,941	127,998	4,784	74,514	354,043 1,166,837
Lifted from bank.....	14,233	39,274	.....	658	2,511	.....	8,336	11,805 33,491
Lifted from waste heap.....	.....	.....	.....	.....	.....	.....	.....	.....
Total output.....	364,714	1,180,611	31,236	113,983	125,487	4,784	66,178	342,238 1,133,346

Table 75.—Shipments of Coal from New Brunswick Mines, by Grades and Destination, 1937 and 1938
(Short tons)

Destination	1937						1938					
	Strip- ping coal	Run- of- mine	Lump	Nut and other grades	Slack	Total	Strip- ping coal	Run- of- mine	Lump	Nut and other grades	Slack	Total ¹
New Brunswick.....	16,417	49,944	16,183	2,497	60,902	145,943	14,647	61,196	17,568	3,864	47,311	144,586
Nova Scotia.....			322			322			126			126
Prince Edward Island.....	47	200	1,107			1,354			1,171	40		1,332
Quebec.....	20,382	8,150	2,516	48	7,461	38,557	16,305	12,156	957	134	244	29,796
Ontario.....	3,835				63	3,898	284					284
United States.....		135	1,832		2,949	4,916		3,711	1,492		13,634	18,837
Railroads—												
In Canada.....		36,904	114,660	693	7,515	159,772		30,693	103,656	549	3,713	138,611
In United States.....					497	497						
<i>Total</i>		36,904	114,660	693	8,012	160,269		30,693	103,656	549	3,713	138,611
Ships' bunkers.....		16	606			622			385	197		582
Total	40,651	95,349	137,226	3,238	79,387	355,881	31,236	107,877	125,355	4,784	64,962	334,154

Table 76.—Exports of Canadian Coal through New Brunswick Ports, 1934-1938
(Short tons)

Port	1934	1935	1936	1937	1938
*Edmundston.....					44,332
McAdam Junction.....		1	38	1	1
St. Andrews.....					
Saint John.....	1,815	2,454	1,350		
St. Stephen.....	19	39	4,012	3,528	15,668
Woodstock.....	40,294	59,636	69,203	81,413	19,664
Total	42,128	62,130	71,693	84,942	79,665

*Prior to April, 1938, Edmundston was included with Woodstock.

Table 77.—Imports into New Brunswick of Anthracite and Bituminous Coal, by Sources and by Ports of Entry, 1937 and 1938
(Short tons)

Port	Source	1937					1938				
		Anthracite				Total	Anthracite				Total
		Grate egg, stove, nut, doubles, cobbles and trebles	Peas, beans, and smaller sizes n.o.p.	Bitum- inous, all grades	Total		Grate egg, stove, nut, doubles, cobbles and trebles	Screen- ings or dust	Peas, beans and smaller sizes n.o.p.	Total	
Bathurst.....	U.S.			93	93					73	73
Campbellton.....	U.S.	47		47	45	92	50			50	50
	G.B.										
Chatham.....	U.S.									28	28
†Edmundston.....	U.S.						112			112	42
Fredericton.....	U.S.			131	131					63	63
McAdam Junct.	U.S.			24	24						
Sackville.....	U.S.										
	G.B.										
St. Andrews.....	U.S.	55	3	58	24	82	199		30	229	30
Saint John.....	U.S.	19,756	439	20,195	11,164	31,359	14,606		431	15,037	5,648
	G.B.	65,058	2,521	67,579	14,802	82,111	47,465		2,256	49,721	20,251
	Ger- many.	4,927		4,927		4,927					
St. Stephen.....	U.S.	11	1	12	2,061	2,073	904			904	2,001
	G.B.	4,772		4,772		4,772	3,376			3,376	3,376
Woodstock.....	U.S.	40		40	226	266	31			31	116
	G.B.										
Total	U.S.	19,909	443	20,352	13,768	34,120	15,902		461	16,363	8,061
	G.B.	69,830	2,521	72,351	14,862	87,213	50,841		2,256	53,097	20,251
	Ger- many.	4,927		4,927		4,927					
Grand total		94,666	2,964	97,630	28,630	126,260	66,743		2,717	69,460	28,252

*The total tonnage received at New Brunswick ports of entry. See page 4, section 2, for explanation.

†Prior to April, 1938, Edmundston was included with Woodstock.

Table 78.—Summary Statistics for New Brunswick in 1938—Output, Exports, Inter-provincial Shipments and Imports, by Months and by Kinds

(Short tons)

Month	Canadian Coal				Imported from U.S.A.	Imported from Great Britain
	Output	Received from other provinces	Shipped to other provinces	Exported		
January—						
Anthracite.....					57	5,210
Bituminous.....	25,855	68,612	3,264	5,252	30	1,666
Total.....	25,855	68,612	3,264	5,252	87	6,876
February—						
Anthracite.....					332	5,664
Bituminous.....	29,320	56,408	2,869	7,756	1,076	2,573
Total.....	29,320	56,408	2,869	7,756	1,408	8,237
March—						
Anthracite.....					402	8,101
Bituminous.....	37,714	53,112	2,313	8,675	720	3,458
Total.....	37,714	53,112	2,313	8,675	1,122	11,559
April—						
Anthracite.....					2,259	
Bituminous.....	27,487	22,955	1,693	5,198	85	1,354
Total.....	27,487	22,955	1,693	5,198	2,344	1,354
May—						
Anthracite.....					740	5,785
Bituminous.....	21,497	34,664	1,619	4,899	60	4,520
Total.....	21,497	34,664	1,619	4,899	800	10,305
June—						
Anthracite.....					815	
Bituminous.....	24,249	38,918	1,943	7,124	1,879	
Total.....	24,249	38,918	1,943	7,124	2,694	
July—						
Anthracite.....					1,049	3,850
Bituminous.....	20,056	26,291	2,041	5,094	70	
Total.....	20,056	26,291	2,041	5,094	1,119	3,850
August—						
Anthracite.....					811	4,255
Bituminous.....	21,603	43,211	2,334	6,830		2,518
Total.....	21,603	43,211	2,334	6,830	811	6,773
September—						
Anthracite.....					3,895	3,469
Bituminous.....	26,860	45,307	2,798	5,547	3,638	
Total.....	26,860	45,307	2,798	5,547	7,733	3,469
October—						
Anthracite.....					2,915	2,360
Bituminous.....	30,025	46,633	2,855	7,719	111	2,235
Total.....	30,025	46,633	2,855	7,719	3,026	4,595
November—						
Anthracite.....					815	4,023
Bituminous.....	38,601	43,535	5,229	7,392	29	1,177
Total.....	38,601	43,535	5,229	7,392	844	5,200
December—						
Anthracite.....					2,273	10,380
Bituminous.....	38,908	54,903	2,570	8,179	103	750
Total.....	38,908	54,903	2,570	8,179	2,376	11,130
Total—						
Anthracite.....					16,363	53,697
Bituminous.....	342,238	534,519	31,538	79,663	8,001	26,251
Total.....	342,238	534,519	31,538	79,663	24,364	73,348

Table 79.—Employees, Salaries and Wages in the Coal Mines of New Brunswick, 1937 and 1938

	1937	1938
Number of salaried employees—		
Male.....	37	35
Female.....	6	5
Number of wage-earners—		
Surface.....	273	253
Underground.....	777	867
Total.....	1,093	1,160
Salaries and wages—		
Salaries.....	\$ 80,095	\$ 77,562
Wages.....	\$ 756,883	\$ 742,884
Total.....	\$ 836,978	\$ 820,446

Table 80.—Employment and Earnings in the Coal Mines of New Brunswick, 1934-1938

	1934	1935	1936	1937	1938
Average number of employees—					
Surface.....	202	241	258	273	253
Underground.....	833	895	900	777	867
Total.....	1,035	1,136	1,158	1,050	1,120
Days' work done—					
Surface.....	46,721	57,118	60,723	66,677	50,433
Underground.....	190,463	207,811	208,134	190,000	184,959
Total.....	237,184	264,929	268,857	256,677	235,392
Average number of days worked per man per year—					
Surface.....	231	237	235	244	199
Underground.....	229	232	231	245	213
By all wage-earners.....	229	231	232	244	210
Total wages paid.....	\$ 678,844	\$ 729,600	\$ 768,025	\$ 756,883	\$ 742,884

Table 81.—Wage-Earners and Work Done, by Months, in the Coal Mines of New Brunswick, 1938

Month	Number of wage-earners			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
January.....	251	776	1,027	4,353	16,337	20,690
February.....	266	885	1,151	4,439	17,156	21,595
March.....	269	885	1,154	5,226	21,581	26,807
April.....	221	865	1,086	3,957	17,767	21,724
May.....	229	821	1,050	3,041	11,579	14,620
June.....	226	822	1,048	3,546	12,383	15,929
July.....	240	807	1,047	3,310	9,974	13,284
August.....	229	830	1,059	3,643	10,961	14,604
September.....	265	859	1,124	4,082	13,571	17,653
October.....	278	925	1,203	4,406	15,248	19,654
November.....	283	955	1,248	5,157	18,061	23,218
December.....	282	972	1,254	5,273	20,341	25,614
Total.....				50,433	184,959	235,392

Table 82.—Wage-Earners Employed in the Coal Mines of New Brunswick, by Classes, 1937 and 1938

Classification	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
Administration.....	23		23	24		34
Foremen and officials.....	14	14	28	14	21	15
Clerks.....	16		16	15		5
Screenmen and loaders.....	66		66	63		63
Hand cutters and helpers.....		446	446		493	493
Machine cutters and helpers.....		80	80		98	98
Machine loaders and helpers.....		154	154		148	148
Chute loaders.....					2	2
Horse haulage employees.....	3		3	3		3
Mechanical haulage employees.....	1	6	7	6	14	20
Ventilation employees.....		2	2		2	2
Roadmakers.....		13	13		10	10
Timbermen.....	4	15	19	2	21	23
Pumpmen.....	2	3	5	2	9	11
Enginemen.....	19		19	21		21
Firemen.....	6		6	4		4
Machinists.....	1		1	3		3
Carpenters and masons.....	9		9	9		9
Other mechanics.....	5		5	6		5
All other employees.....	104	44	148	82	49	131
Total.....	273	777	1,050	253	867	1,120

Table 83.—Capital Employed in the Coal Mines of New Brunswick, 1937 and 1938

	1937	1938
—		
Capital employed as represented by—	\$	\$
Cost of lands, buildings, machinery and tools.....	935,121	628,675
Cost of supplies and stock on hand.....	32,419	33,159
Cash, trading and operating accounts and bills receivable.....	341,229	217,532
Total.....	1,308,769	879,366

CHAPTER FIVE

QUEBEC

Quebec depends upon outside sources for its supply of coal. In 1938, the demand for this fuel was satisfied principally by the province of Nova Scotia, the United States, Great Britain and Germany; in addition, smaller tonnages were obtained from the neighbouring province of New Brunswick, French Indo-China, The Netherlands, Morocco, Russia and Belgium. Nova Scotia supplied 71.8 per cent of the bituminous coal demand in 1938. The quantity of this coal retained in Quebec was 2,320,965 tons; in addition, 737,030 tons of Nova Scotia coal were consigned to Montreal and thence trans-shipped to Ontario points. Shipments received from the United States consisted of 370,735 tons of anthracite coal and 831,781 tons of bituminous coal (this latter amount includes some coal imported into Ontario and then shipped to Quebec). Great Britain supplied Quebec consumers with 650,468 tons of anthracite coal and 14,811 tons of bituminous coal in 1938. The anthracite tonnage represents only the quantity remaining within the province, as an additional 365,296 tons of this coal were imported through Quebec ports for trans-shipment to Ontario. Germany supplied Quebec with 344,557 tons of anthracite coal and 34,258 tons of bituminous coal.

Table 84.—Tonnage of Coal Retained in Quebec for Consumption 1935–1938

(Short tons)

	1935	1936	1937	1938
ANTHRACITE—				
From—Great Britain.....	785,725	702,104	607,593	650,468
Germany.....	239,016	311,511	238,739	344,557
Belgium.....		44,543	8,131	8,873
United States.....	316,562	261,645	355,734	370,735
French Indo-China.....	8,341	58,051		13,373
Russia.....			142,605	9,340
Netherlands.....		8,951		3,629
Morocco.....			78	19,645
Total.....	1,349,644	1,386,805	1,352,880	1,420,620
BITUMINOUS—				
From—Great Britain.....	293,117	74,328	3,731	14,811
United States.....	735,593	873,225	1,359,694	831,781
Germany.....		7,100	38,382	34,258
Norway, Esthonia, Denmark, Sweden and Newfoundland..	341	985	313	
Total Imported.....	1,029,051	955,638	1,402,120	880,850
Nova Scotia (including coal for railroads).....	1,721,849	2,207,954	2,231,543	2,320,965
New Brunswick.....	13,855	20,827	38,557	29,796
Total Canadian.....	1,735,704	2,228,781	2,270,100	2,350,761

Table 85.—Exports of Canadian Coal through Quebec Ports, 1934-1938

(Short tons)

Port	1934	1935	1936	1937	1938
Athelstan.....	50				
Coaticook.....					509
Huntingdon.....					101
*Lacolle.....					53
Lake Megantic.....		2	4	18	1
Montreal.....		75	6	1	2
Quebec.....				38	
Rock Island.....				8	
St. John's.....					90
Sutton.....			8	10	14
Three Rivers.....					
Total	50	77	18	75	770

* Prior to April 1938 Lacolle was included with St. John's.

Table 86.—*Imports into Quebec of Anthracite and Bituminous Coal, by Ports of Entry, 1937 and 1938

(Short tons)

Port	Source	1937					1938				
		Anthracite			Bituminous, all grades	Total	Anthracite			Bituminous, all grades	Total
		Grate, egg, stove, nut, doubles, cobbles and trebles	Peas, beans, and smaller sizes n.o.p. and screenings or dust	Total			Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans, and smaller sizes n.o.p.	Total	
†Amos.....	U.S.						42		74	116	150
Athelstan.....	U.S.										
Chicoutimi.....	U.S.				145,492	145,492				4,501	4,501
	G.B.	5,291	4,960	10,251		10,251	9,443			9,443	9,443
Coaticook.....	U.S.		52	52		52				38	38
	G.B.										
Drummondville.....	U.S.		88	88	357	445			123	123	579
†Farnham.....	U.S.						54		132	186	9,395
Gaspé.....	U.S.						1,697			1,697	1,697
Granby.....	U.S.	206		206	585	791	208			208	943
Hull.....	U.S.	4,202	1,359	5,561	344	5,905	4,594		1,161	5,755	5,883
Huntingdon.....	U.S.	72,885	8,962	81,847	30,959	112,806	53,942		11,890	65,832	79,544
†Lacolle.....	U.S.						92,158	92	23,472	115,722	135,784
Lake Megantic.....	U.S.										
Montreal.....	U.S.	20,796	5,185	25,981	589,046	615,029	61,310		3,404	64,774	506,277
	G.B.	605,224	262,095	867,319	2,811	870,130	554,095	55,205	308,590	917,890	929,878
	Germany.....	191,333	17,361	208,694	25,286	233,980	289,256		23,268	312,524	240,826
	Belgium.....	8,131		8,131		8,131	8,906			8,906	8,906
	Netherlands.....						19,503		1,682	21,185	21,185
	French Indo-China.....								27,856	27,856	27,856
	Russia.....	125,525	18,725	144,250		144,250	14,952			14,952	14,952
	Morocco.....		78	78		78	11,679	1,652		13,331	13,331
	Norway.....				113	113					
	Estonia.....				200	200					
Paspébiac.....	U.S.				49,095	49,095					

* The total tonnage received at Quebec ports of entry. See page 4, section 2, for explanation

† Prior to April 1938 Amos was included with Quebec and Lacolle with St. John's.

‡ Prior to June 1938 Farnham included with St. John's and Victoriaville with Sherbrooke.

Table 86.—*Imports into Quebec of Anthracite and Bituminous Coal, by Ports of Entry, 1937 and 1938—Concluded

(Short tons)

Port	Source	1937					1938					
		Anthracite			Bituminous, all grades	Total	Anthracite			Bituminous, all grades	Total	
		Grate, egg, stove, nut, doubles, cobbles and trebles	Peas, beans, and smaller sizes n.o.p. and screenings or dust	Total			Grate, egg, stove, nut, doubles, cobbles, and trebles	Screenings or dust	Peas, beans, and smaller sizes n.o.p.			Total
Quebec.....	U.S.....	20,507	358	20,865	122,253	143,118	28,150			28,150	11,968	40,118
	G.B.....	21,488	74,928	96,416	731	97,147	34,783	1,443	27,786	64,012	2,823	66,835
	Germany.....	42,806		42,806		42,806	56,421			56,421		56,421
	Russia.....	8,318		8,318		8,318						
	Morocco.....						6,314			6,314		6,314
Rimouski.....	U.S.....	1,216		1,216	18,272	19,488					32	5,280
	G.B.....	2,128		2,128		2,128	5,357		1,798	7,153		7,153
Rock Isl.....	U.S.....	796	212	1,008	56	1,064	971		178	1,149	79	1,228
St. Armand.....	U.S.....	200	298	498		498	208		75	283	45	328
St. Hyacinthe.....	U.S.....	621	200	821	32	853	472		43	515	96	611
St. John's.....	U.S.....	153,637	31,690	185,327	83,781	269,108	43,719	5,146	6,134	54,999	51,914	106,913
Shawinigan Falls.....	U.S.....	104	44	148	38,155	38,303	149		35	184	976	1,160
Sherbrooke.....	U.S.....	2,203	17,465	19,668	2,920	22,588	2,321		18,111	20,432	2,105	22,537
	G.B.....											
Sorel.....	U.S.....	1,240	436	1,676	38,546	40,222	881		85	966	26,689	27,655
	G.B.....				189	189						
	Germany.....				13,096	13,096					5,956	5,956
	Belgium.....						112			112		112
Sutton.....	U.S.....				4	4	2			2	6	8
	G.B.....											
Three Rivers.....	U.S.....	3,921	2,302	6,223	10,516	25,739	4,371		1,475	5,846	4,763	10,609
	G.B.....	3,490	2,378	5,868		5,868	13,627			13,627		13,627
	Germany.....											
	Russia.....	8,288		8,288		8,288						
Valleyfield.....	U.S.....	3,841	708	4,549	226	4,775	3,324		402	3,726	192	3,918
	Russia.....		33	33		33						
†Victoria-ville.....	U.S.....										250	250
Total.....	U.S.....	286,375	69,359	355,734	113,961	1,495,375	298,643	5,238	66,854	370,735	594,712	965,447
	G.B.....	637,621	344,361	981,982	3,731	985,713	617,365	56,648	338,172	1,012,125	14,811	1,026,936
	Germany.....	234,139	17,361	251,500	38,382	289,882	345,677		23,268	368,945	34,258	403,203
	Belgium.....	8,131		8,131		8,131	9,018			9,018		9,018
	Netherlands.....						19,503		1,682	21,185		21,185
	French Indo-China.....											
	Russia.....	142,131	18,758	160,889		160,889	14,952		27,856	27,856		27,856
	Morocco.....									14,952		14,952
	Norway.....		78	78		78	17,993	1,652		19,645		19,645
	Esthonia.....				113	113						
					200	200						
Grand Total.....		1,308,397	449,917	1,758,314	118,2067	2,940,381	1,323,091	63,538	457,832	1,844,461	643,781	2,488,242

* The total tonnage received at Quebec ports of entry. See page 4, section 2, for explanation.

† Prior to June 1938 Farnham was included with St. John's and Victoriaville with Sherbrooke.

Table 87.—Summary Statistics for Quebec in 1938—Exports, Interprovincial Shipments and Imports*, by Months and by Kinds

(Short tons)

Month	Canadian coal		Imported from U.S.A.	Imported from Great Britain	Imported from Germany	Imported from Belgium	Imported from Netherlands	Imported from French Indo-China	Imported from Russia	Imported from Morocco
	†Received from other provinces	Exported								
January—										
Anthracite.....			26,442							
Bituminous.....	44,037	15	13,044							
Total.....	44,037	15	39,486							
February—										
Anthracite.....			27,670							
Bituminous.....	39,951	2	14,900							
Sub-bituminous.....										
Total.....	39,951	2	42,570							
March—										
Anthracite.....			26,834							
Bituminous.....	44,347	140	28,170							
Total.....	44,347	140	55,004							
April—										
Anthracite.....			10,978	35,316						
Bituminous.....	111,742		15,202	1,012						
Total.....	111,742		26,180	36,328						
May—										
Anthracite.....			39,096	154,728	60,296					3,122
Bituminous.....	474,844		70,347	2,719						
Total.....	474,844		109,443	157,447	60,296					3,122
June—										
Anthracite.....			40,692	140,952	39,510					4,228
Bituminous.....	476,341		79,504	2,889	8,114					
Total.....	476,341		120,196	143,841	47,624					4,228
July—										
Anthracite.....			42,169	149,659	71,595		6,714		14,952	3,192
Bituminous.....	436,875		64,288	8,112						
Total.....	436,875		106,455	149,659	79,707		6,714		14,952	3,192
August—										
Anthracite.....			25,318	124,289	44,384			9,790		4,900
Bituminous.....	428,708		74,908	4,485	2,022					
Total.....	428,708		100,226	128,774	46,406			9,790		4,900
September—										
Anthracite.....			29,592	163,749	51,734	8,624	9,765			
Bituminous.....	401,894		79,829	2,310	8,115					
Total.....	401,894		109,421	166,059	59,849	8,624	9,765			
October—										
Anthracite.....			37,880	94,351	39,257			18,066		4,203
Bituminous.....	413,633	509	54,987	1,140						
Total.....	413,633	509	92,867	95,491	39,257			18,066		4,203
November—										
Anthracite.....			30,894	140,989	48,767	394	4,706			
Bituminous.....	198,310	104	67,202	182	7,895					
Total.....	198,310	104	98,096	141,171	56,662	394	4,706			
December—										
Anthracite.....			33,170	8,092	13,402					
Bituminous.....	17,109		32,333	74						
Total.....	17,109		65,503	8,166	13,402					
Total—										
Anthracite.....			370,735	1,012,125	368,945	9,018	21,185	27,856	14,952	19,645
Bituminous.....	3,687,791	770	594,712	14,811	34,258					
Sub-bituminous.....										
Total.....	3,687,791	770	965,447	1,026,936	403,203	9,018	21,185	27,856	14,952	19,645

*Direct imports into Quebec. †These are direct shipments from Nova Scotia and New Brunswick mines.

CHAPTER SIX

ONTARIO

Ontario's dependence on outside sources for its coal supply closely parallels that of Quebec. The United States is the principal source of supply and in 1938 provided Central Ontario with 7,744,481 tons of bituminous coal and 1,555,571 tons of anthracite coal. In addition, 237,231 tons were consigned to this area for re-shipment to Quebec. Great Britain supplied Central Ontario with 79,120 tons of anthracite by direct shipment; this quantity was augmented by 365,296 tons trans-shipped from Montreal, Quebec and Saint John, New Brunswick. Belgian anthracite coal to a total of 25,164 tons was imported directly into Ontario. Receipts of German anthracite coal amounted to 22,682 tons. The Netherlands shipped 15,064 tons of anthracite coal into Ontario during the year. Direct shipments of bituminous coal from Nova Scotia mines to Ontario totalled 33,934 tons; shipments from stock at Montreal added a further 737,030 tons to this supply. Alberta mines supplied Ontario with 18,737 tons of bituminous coal, 16,301 tons of sub-bituminous coal and 39,800 tons of lignite coal. The Crow's Nest Pass district in British Columbia shipped 372 tons to Ontario in 1938 compared with 20,741 tons a year ago. Saskatchewan producers shipped 20,094 tons of lignite coal to Ontario as against 9,224 tons in 1937.

Table 88.—Tonnage of Coal Retained in Ontario for Consumption, 1935-1938

(Short tons)

	1935	1936	1937	1938
ANTHRACITE—				
From—Great Britain, imported direct.....	29,657	51,503	26,607	80,632
Great Britain, received ex-Montreal*.....	538,496	480,746	399,010	365,296
Belgium, imported direct.....				25,164
Belgium, received ex-Montreal.....				145
Germany, received ex-Montreal.....	29,883	44,441	12,761	24,388
Germany, imported direct.....			73	22,682
French Indo-China imported direct.....	29,760			
French Indo-China, received ex-Montreal.....	16,346	30,651		14,483
Russia, received ex-Montreal.....			18,284	5,612
Netherlands, imported direct.....		7,280		15,064
Netherlands, ex-Montreal.....				17,556
United States, imported direct.....	1,310,967	1,388,829	1,603,033	1,570,178
Total.....	1,955,109	2,003,450	2,059,768	2,141,200
BITUMINOUS—				
From—Great Britain, imported direct.....	860		52	
Great Britain, received ex-Montreal.....	3,164	3,342		
United States.....	8,325,718	9,044,108	10,788,716	8,517,268
Germany, imported direct.....			8,724	
Nova Scotia, received ex-mines.....	5,454	33,705	106,809	33,934
Nova Scotia, received ex-Montreal.....	920,970	1,011,511	1,104,383	737,030
New Brunswick, received ex-mines.....		1,181	3,898	284
Alberta (including sub-bituminous).....	27,296	26,440	27,445	35,038
British Columbia.....	14,274	19,742	20,741	372
Total.....	9,297,736	10,140,029	12,060,768	9,323,926
LIGNITE—				
From—Saskatchewan.....	4,609	10,009	9,224	20,094
Alberta.....	14,274	39,739	35,871	39,800
Total.....	18,883	49,748	45,095	59,894

*Includes a small quantity received ex-Saint John, New Brunswick.

Table 89.—Exports of Canadian Coal through Ontario Ports, 1934-1938

(Short tons)

Port	1934	1935	1936	1937	1938
Bridgeburg.....					
Fort Frances.....	1	106	111		9
Niagara Falls.....		1		1	
Sarnia.....		1			
Sault Ste. Marie.....					2
Toronto.....					
Total	1	108	111	1	11

Table 90.—*Imports Into Ontario of Anthracite and Bituminous Coal, by Ports of Entry, 1937 and 1938

(Short tons)

Port	Source	1937			1938					
		Anthracite	Bituminous, all grades	Total	Anthracite			Total	Bituminous, all grades	Total
					Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Pens, beans and smaller sizes n.o.p.			
CENTRAL ONTARIO—										
Amherstburg.....	U.S.	8,033	72,053	80,686	7,464		83	7,547	59,528	67,075
Belleville.....	U.S.	11,883	28,500	40,383	10,922		1,021	11,943	34,609	46,552
Bowmanville.....	U.S.	5,168	1,618	6,786	4,890		266	5,156	67	5,223
Brantford.....	U.S.	39,166	28,649	67,815	33,377		4,333	37,710	17,165	54,875
Brockville.....	U.S.	15,687	20,874	36,561	11,639		3,138	14,777	23,623	38,400
Chatham.....	U.S.	4,343	554,812	559,155	3,412		135	3,547	519,526	523,073
Cobourg.....	U.S.	8,418	243,115	251,533	8,012		1,421	9,433	227,182	236,615
Collingwood.....	U.S.	5,053	6,454	11,507	4,259		644	4,903	6,113	11,016
Cornwall.....	U.S.	7,309	8,032	15,341	6,039		877	6,916	10,791	17,707
Fort Erie.....	U.S.	92,335	39,742	132,077	82,639	7	5,004	87,650	23,918	111,568
Galt.....	U.S.	23,480	34,813	58,293	20,896	48	1,372	22,316	24,385	46,701
Gannanogue.....	U.S.	3,337	3,287	6,624	2,873		1,775	4,648	3,010	7,658
	G.B.	23		23						
Goderich.....	U.S.	12,843	44,888	57,731	11,274	79	525	11,878	32,856	44,734
Guelph.....	U.S.	30,413	37,219	67,632	24,967		2,103	27,070	26,785	53,855
Hamilton.....	U.S.	119,344	1,465,280	1,584,624	94,794	120	20,085	114,999	1,434,014	1,549,013
	G.B.	290		290	6,571		45	6,616		6,616
	Germany		8,724	8,724	2,000		2,000			2,000
Ingersoll.....	U.S.	8,448	18,231	26,679	7,449		372	7,821	11,207	19,088
Kenora.....	U.S.									
Kingston.....	U.S.	25,187	38,078	63,265	18,230	57	5,333	23,620	48,818	72,438
	G.B.				931		662	1,593		1,593
Kitchener.....	U.S.	31,336	72,666	104,002	28,981		2,445	31,426	65,566	96,992
Lindsay.....	U.S.	6,978	4,136	11,111	6,250		365	6,615	3,880	10,495
London.....	U.S.	44,761	28,403	73,164	37,052		4,322	42,274	27,285	69,559
	G.B.	291		291						
	Germany	73		73						
Midland.....	U.S.	2,112	303,778	305,890	1,659		544	2,203	266,515	268,718
Morrisburg.....	U.S.	2,752	17,077	19,829	2,180		36	2,216	29,022	32,138
Napanee.....	U.S.	3,772	17,134	20,906	3,389		417	3,806	16,098	19,904
Niagara Falls.....	U.S.	79,310	231,288	310,598	68,940		8,961	77,901	145,647	223,548
North Bay.....	U.S.	4,320	19,096	23,416	5,158		204	5,362	18,009	24,271
Orillia.....	U.S.	6,427	3,646	10,073	5,228	4	905	6,137	3,200	9,343
Oshawa.....	U.S.	20,596	42,318	62,914	19,440		1,566	21,006	38,792	59,798
Ottawa.....	U.S.	49,308	48,198	97,506	35,203		10,090	45,893	44,785	90,678
	G.B.	47	52	99						
Owen Sound.....	U.S.	4,122	19,998	24,120	4,066		317	4,383	22,366	26,749
Paris.....	U.S.	10,558	8,800	19,358	9,192		541	9,733	8,379	18,112
Parry Sound.....	U.S.	1,102	584,726	585,828	1,070			1,070	381,846	382,916
Peterborough.....	U.S.	17,905	7,551	25,456	16,024		1,190	18,114	5,376	23,490
Pictou.....	U.S.	3,803	7,142	10,945	3,694		243	3,937	7,650	11,593

* The total tonnage received at Ontario ports of entry. See page 4, section 2, for explanation.

Table 90.—*Imports into Ontario of Anthracite and Bituminous Coal, by Ports of Entry, 1937 and 1938—Concluded
(Short tons)

Port	Source	1937			1938						
		Anthracite	Bituminous, all grades	Total	Anthracite				Total	Bituminous, all grades	Total
					Grate, egg, stove, nut, doubles, cobbles and trebles	Screenings or dust	Peas, beans and smaller sizes n.o.p.				
CENTRAL ONTARIO—											
Port Hope.....	U.S.	7,194	24,916	32,110	6,738		403	7,141	17,032	24,173	
Port McNicoll.....	U.S.										
Prescott.....	U.S.	9,016	627,548	636,564	7,892		901	8,793	515,897	524,690	
St. Catharines.....	U.S.	39,901	234,062	273,963	36,026	61	2,872	38,959	160,256	199,215	
St. Thomas.....	U.S.	17,056	131,389	148,445	15,146		496	15,642	106,562	122,204	
Sarnia.....	U.S.	2,957	724,197	727,154	2,610		59	2,669	597,953	600,622	
Sault Ste. Marie.....	U.S.	8,316	1,278,689	1,287,005	459		68	527	727,766	728,293	
	G.B.	34		34							
Simcoe.....	U.S.	3,771	15,300	19,071	5,058		91	5,149	13,590	18,739	
Stratford.....	U.S.	49,862	33,361	83,223	44,407	33	5,394	49,834	29,888	79,722	
	G.B.	49		49							
Sudbury.....	U.S.	7,145	7,575	14,720	6,660		771	7,431	8,669	16,100	
Tillsonburg.....	U.S.	5,213	342,525	347,738	3,725		35	3,760	282,244	286,004	
Toronto.....	U.S.	641,558	1,371,199	2,012,757	569,216	177	69,054	638,447	1,037,320	1,675,767	
	G.B.	25,873		25,873	28,461		42,460	70,911		70,911	
	Germany				20,682			20,682		20,682	
	Belgium						25,164	25,164		25,164	
	Netherlands				11,424		3,640	15,064		15,064	
	Fch. Indo-China										
†Toronto West.....	U.S.				23,586		3,500	27,086	9,229	36,315	
Trenton.....	U.S.	5,201	28,013	33,214	4,189		102	4,291	18,753	23,044	
†Walkerville.....	U.S.				4,539	50	195	4,784	68,052	72,836	
Wallaceburg.....	U.S.	429	17,614	18,043	493			493	11,358	11,851	
Welland.....	U.S.	40,244	264,341	304,585	25,600	43	4,261	29,904	226,230	256,134	
Whitby.....	U.S.										
Windsor.....	U.S.	17,865	762,042	779,907	10,590		1,585	12,175	549,127	561,302	
Woodstock.....	U.S.	16,036	13,418	29,454	13,332		1,144	14,476	11,871	26,347	
TOTAL FOR CENTRAL ONTARIO.....											
	U.S.	1,581,973	9,937,791	11,519,764	1,382,728	679	172,164	1,555,571	7,981,712	9,537,283	
	G.B.	26,607	52	26,659	35,963		43,157	79,120		79,120	
	Germany	73	8,724	8,797	22,682			22,682		22,682	
	Belgium						25,164	25,164		25,164	
	Netherlands				11,424		3,640	15,064		15,064	
	Fch. Indo-China										
TOTAL HEAD OF LAKES											
Fort Frances.....	U.S.	8	69,598	69,606	69			69	56,806	56,875	
Fort William.....	U.S.	21,052	820,160	841,212	14,538			14,538	698,371	712,909	
	G.B.				1,512			1,512		1,512	
Port Arthur.....	U.S.		128,595	128,595					113,716	113,746	
TOTAL HEAD OF LAKES											
	U.S.	21,060	1,018,353	1,039,413	14,607			14,607	868,923	883,530	
	G.B.				1,512			1,512		1,512	
Total for Ontario.....											
	U.S.	1,603,033	10,956,144	12,559,177	1,397,335	679	172,164	1,578,178	8,850,635	10,429,813	
	G.B.	26,607	52	26,659	37,475		43,157	80,632		80,632	
	Germany	73	8,724	8,797	22,682			22,682		22,682	
	Belgium						25,164	25,164		25,164	
	Netherlands				11,424		3,640	15,064		15,064	
	Fch. Indo-China										
Grand total.....											
		1,629,713	10,964,929	12,594,633	1,468,916	679	244,125	1,713,720	8,850,635	10,564,355	

*The total tonnage received at Ontario ports of entry. See page 4, section 2, or explanation.

†Prior to Jan. 1938 Toronto West included with Toronto and Walkerville was included with Windsor.

Table 91.—Summary Statistics for Ontario in 1938—Interprovincial Shipments, Exports, Imports* and Coal made Available for Consumption, by Months and by Kinds

(Short tons)

Month	Central Ontario					Head of Lakes				Total Ontario	
	Canadian coal		Imported from U.S.A.	Imported from Great Britain	Imported from Germany	Imported from other countries	Coal available for consumption	Received from other provinces	Imported from United States	Imported from Great Britain	Coal available for consumption
	†Received from other provinces	Exported									
January—											
Anthracite			152,471				152,471		1		152,472
Bituminous	13,270		294,104				307,374	2,151	4,341		313,866
Sub-bituminous								3,092			3,092
Lignite								9,085			9,085
Total	13,270		446,575				459,845	14,328	4,342		478,515
February—											
Anthracite			132,696				132,696				132,696
Bituminous	6,859		226,659				233,518	3,197	2,853		239,568
Sub-bituminous								1,637			1,637
Lignite								6,873			††6,864
Total	6,859		359,355				366,214	11,707	2,853		††380,765
March—											
Anthracite			136,188				136,188				136,188
Bituminous	10,368		246,474				256,842	1,866	6,007		264,715
Sub-bituminous								929			929
Lignite								2,603			2,603
Total	10,368		382,662				393,030	5,398	6,007		404,435
April—											
Anthracite			96,613				96,613				96,613
Bituminous	2,673		330,330				333,003	1,075	29,201		363,279
Sub-bituminous								110			110
Lignite								723			723
Total	2,673		426,943				429,616	1,908	29,201		460,725
May—											
Anthracite			141,369	6,280			147,658				147,658
Bituminous	40		723,342				723,382	918	107,830		832,130
Sub-bituminous								107			107
Lignite								1,230			1,230
Total	40		864,711	6,280			871,040	2,255	107,830		981,125
June—											
Anthracite			218,095	3,512	4,916		226,523		4,138		230,661
Bituminous	297		933,873				934,170	927	112,279		1,047,376
Sub-bituminous								177			177
Lignite								2,258			2,258
Total	297		1,151,968	3,512	4,916		1,160,693	3,362	116,417		1,280,472
July—											
Anthracite			111,549	3,585	2,361		117,495		6,166		123,661
Bituminous	99		852,963				853,062	689	113,226		966,977
Sub-bituminous								347			347
Lignite								1,892			1,892
Total	99		964,512	3,585	2,361		970,557	2,928	119,382		1,092,877
August—											
Anthracite			90,719	7,995	2,202	8,870	109,786				109,786
Bituminous			912,733				912,733	612	111,350		1,024,695
Sub-bituminous								313			313
Lignite								2,501			2,501
Total			1,003,452	7,995	2,202	8,870	1,022,519	3,426	111,350		1,137,295

*Direct imports into Ontario. See text for transshipments from Quebec.

†Direct shipments from mines.

††Head of Lakes exported 9 tons of lignite coal.

Table 91.—Summary Statistics for Ontario in 1938—Interprovincial Shipments, Exports, Imports* and Coal made Available for Consumption, by Months and by Kinds—Concluded

(Short tons)

Month	Central Ontario						Head of Lakes				Total Ontario
	Canadian coal		Im-ported from U.S.A.	Im-ported from Great Britain	Im-ported from Germany	Im-ported from other countries	Coal available for consumption	Received from other provinces	Im-ported from United States	Im-ported from Great Britain	Coal available for consumption
	†Received from other provinces	Ex-ported									
September—											
Anthracite...			107,469	13,062	2,742	8,064	131,337				131,337
Bituminous...	179		912,253				912,432	697	124,267		1,037,396
Sub-bituminous...								1,745			1,745
Lignite...								5,286			5,286
Total...	179		1,019,722	13,062	2,742	8,064	1,043,769	7,728	124,267		1,175,764
October—											
Anthracite...			131,590	21,262	7,488	3,640	163,980		4,275	1,512	169,767
Bituminous...	197		906,694				906,891	1,447	94,761		1,003,099
Sub-bituminous...								2,821			2,821
Lignite...								7,211			7,211
Total...	197		1,038,284	21,262	7,488	3,640	1,070,871	11,479	99,036	1,512	1,182,898
November—											
Anthracite...			118,642	15,154	2,973	19,654	156,423				156,423
Bituminous...		2	1,082,918				1,082,916	2,432	117,990		1,203,338
Sub-bituminous...								2,815			2,815
Lignite...								10,909			10,909
Total...		2	1,201,560	15,154	2,973	19,654	1,239,339	16,156	117,990		1,373,485
December—											
Anthracite...			118,170	8,261			126,431		27		126,458
Bituminous...	236		559,369				559,605	3,098	44,818		607,521
Sub-bituminous...								2,208			2,208
Lignite...								9,323			9,323
Total...	236		677,539	8,261			686,036	14,629	44,845		745,510
Total—											
Anthracite...			1,555,571	79,120	22,682	40,228	1,697,601		14,607	1,512	1,713,720
Bituminous...	34,218		7,981,712				8,015,928	19,109	868,923		8,903,960
Sub-bituminous...								16,301			16,301
Lignite...								59,894			†159,885
Total...	34,218		2,953,723	79,120	22,682	40,228	9,713,529	95,304	883,530	1,512	†10,693,866

*Direct imports into Ontario. See text for transshipments from Quebec.

†Direct shipments from mines.

‡Head of Lakes exported 9 tons of lignite coal.

CHAPTER SEVEN

MANITOBA

Manitoba mines near Deloraine produced 2,016 tons of lignite coal in 1938; during the preceding year, 3,172 tons were mined.

Alberta, Saskatchewan, British Columbia and the United States are the principal sources of Manitoba's coal supply. In 1938, Alberta supplied the Manitoba market with 162,139 tons of bituminous coal, 70,743 tons of sub-bituminous coal and 180,197 tons of lignite coal. Saskatchewan shipped 453,143 tons of lignite coal to Manitoba consumers. Shipments received from the Crow's Nest Pass district, British Columbia, amounted to 59,154 tons; a year ago, 59,410 tons were received from this source.

Imports of coal into Manitoba are cleared, in the main part, through the Head of Lakes ports. During 1938, receipts at these ports totalled 885,042 tons while direct importations into Manitoba amounted to 13,823 tons.

Table 92.—Disposition of Coal from Manitoba Mines, by Grades, 1937 and 1938

(Short tons)

Disposition	1937		1938	
	Quantity	Value	Quantity	Value
		\$		\$
Supplied to employees for domestic consumption.....	123	244	31	83
Shipped.....	2,753	6,773	1,789	5,237
Used under colliery boilers.....	96	152	196	340
Put on bank.....	200	540		
Total disposition.....	3,172	7,709	2,016	5,660

Table 93.—Exports of Canadian Coal through Manitoba Ports, 1934-1938

(Short tons)

Port	1934	1935	1936	1937	1938
Brandon.....	800	188	192	37	24
Emerson.....	58	38	108	43	90
Gretna.....					2
Winnipeg.....	576	377	820	814	611
Total.....	1,434	603	1,120	894	727

Table 94.—*Imports into Manitoba and the Head of Lakes, of Anthracite, Bituminous and Lignite Coal, by Ports of Entry, 1937 and 1938
(Short tons)

Port	Source	1937				1938						
		An-thra-cite	Bitum-inous, all grades	Lig-nite	Total	Anthracite			Bitum-inous, all grades	Lig-nite	Total	
						Grate, egg, stove, nut, doubles, cobbles, and trebles	Screen-ings or dust	Peas, beans and small-er sizes n.o.p.				
MANITOBA—												
Brandon.....	U.S.....		97		97					96	29	125
Emerson.....	U.S.....		45	15	60					42		42
Gretna.....	U.S.....		2	108	110						59	59
Portage la Prairie.....	U.S.....											
Winnipeg.....	U.S.....	5,580	11,268	1	16,849	324		4,350	4,674	8,923		13,597
	G.B.....	59	667		726							
Total for Manitoba.....	U.S.....	5,580	11,412	124	17,116	324		4,350	4,674	9,061	88	13,823
	G.B.....	59	667		726							
Total.....		5,639	12,079	124	17,842	324		4,350	4,674	9,061	88	13,823
HEAD OF LAKES—												
Port Frances.....	U.S.....	8	69,598		69,606	69			69	56,806		56,875
Fort William.....	U.S.....	21,052	820,160		841,212	14,538			14,538	698,371		712,909
[P&S]	G.B.....					1,512			1,512			1,512
Port Arthur.....	U.S.....		128,595		128,595					113,746		113,746
Total Head of Lakes.....	U.S.....	21,060	1,018,353		1,039,413	14,607			14,607	868,923		883,530
	G.B.....					1,512			1,512			1,512
Total.....		21,060	1,018,353		1,039,413	16,119			16,119	868,923		885,042
Total for Manitoba and Head of Lakes.....	U.S.....	26,640	1,029,765	124	1,056,529	14,931		4,350	19,281	877,984	88	897,353
	G.B.....	59	667		726	1,512			1,512			1,512
Grand Total.....		26,699	1,030,432	124	1,057,255	16,443		4,350	20,793	877,984	88	898,865

* The total tonnage received at ports of entry. See page 4, section 2, for explanation.

Table 95.—Summary Statistics for Manitoba in 1938.—Interprovincial Shipments, Exports, Imports and Coal Made Available for Consumption (exclusive of Tonnage Cleared at Head of Lakes, some of which entered Manitoba), 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	Exported			
JANUARY—						
Anthracite.....		22,032	94	590		590
Bituminous.....		13,179		889		22,827
Sub-bituminous.....		104,244	103			13,179
Lignite.....	366					104,507
Total.....	366	139,455	197	1,479		141,103
FEBRUARY—						
Anthracite.....		21,264		475		475
Bituminous.....		9,291		742		22,006
Sub-bituminous.....		84,319				9,291
Lignite.....	357					84,676
Total.....	357	114,874		1,217		116,448
MARCH—						
Anthracite.....		20,594	190	502		502
Bituminous.....		5,512		1,047		21,451
Sub-bituminous.....		39,972	34	1		5,512
Lignite.....	219					40,158
Total.....	219	66,078	224	1,550		67,623

Table 95.—Summary Statistics for Manitoba in 1938—Interprovincial Shipments, Exports, Imports and Coal Made Available for Consumption (exclusive of Tonnage Cleared at Head of Lakes some of which entered Manitoba) by Months and by Kinds—Concluded

(Short tons)

Month	Canadian coal			Imported from U.S.A.	Imported from Great Britain	Coal available for consumption
	Output	Received from other provinces	Exported			
April—						
Anthracite.....				292		292
Bituminous.....		15,027		584		15,611
Sub-bituminous.....		733				733
Lignite.....		20,851				20,851
Total.....		36,611		876		37,487
May—						
Anthracite.....				348		348
Bituminous.....		12,948		570		13,518
Sub-bituminous.....		326				326
Lignite.....		15,547				15,547
Total.....		28,821		918		29,739
June—						
Anthracite.....				256		256
Bituminous.....		11,285		1,323		12,608
Sub-bituminous.....		100				100
Lignite.....		12,671	44			12,627
Total.....		24,056	44	1,579		25,591
July—						
Anthracite.....				283		283
Bituminous.....		13,972		398		14,370
Sub-bituminous.....		816				816
Lignite.....		13,023				13,023
Total.....		27,811		681		28,492
August—						
Anthracite.....				398		398
Bituminous.....		16,920		320		17,240
Sub-bituminous.....		2,473				2,473
Lignite.....		21,191	22			21,169
Total.....		40,584	22	718		41,280
September—						
Anthracite.....				339		339
Bituminous.....		16,732		685		17,417
Sub-bituminous.....		5,464				5,464
Lignite.....		40,899				40,899
Total.....		63,095		1,024		64,119
October—						
Anthracite.....				301		301
Bituminous.....		19,812	1	835		20,646
Sub-bituminous.....		8,448				8,448
Lignite.....	315	74,387		7		74,709
Total.....	315	102,647	1	1,143		104,104
November—						
Anthracite.....				389		389
Bituminous.....		23,102	40	1,111		24,173
Sub-bituminous.....		10,563				10,563
Lignite.....	511	105,854	41	30		106,354
Total.....	511	139,519	81	1,530		141,470
December—						
Anthracite.....				501		501
Bituminous.....		27,905	114	557		28,348
Sub-bituminous.....		13,838				13,838
Lignite.....	248	100,382	44	50		100,636
Total.....	248	142,125	158	1,108		143,323
Total—						
Anthracite.....				4,674		4,674
Bituminous.....		221,593	439	9,061		230,215
Sub-bituminous.....		70,743				70,743
Lignite.....	2,016	633,340	288	88		635,156
Total.....	2,016	925,676	727	13,823		940,788

Table 96.—Employment and Earnings in the Coal Mines of Manitoba, 1937 and 1938

	1937	1938
Average number of wage-earners—		
Surface.....	2	5
Underground.....	8	
Total.....	10	5
Days' work done—		
Surface.....	436	1,336
Underground.....	1,757	
Total.....	2,193	1,336
Average number of days worked per man per year—		
Surface.....	218	267
Underground.....	219	
By all wage-earners.....	219	267
Total wages paid.....	\$ 3,741	\$ 4,186

Table 97.—Wage-Earners Employed and Work Done, by Months, in the Coal Mines of Manitoba, in 1937 and 1938

Month	Number of employees			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
1937						
January.....	5	18	23	97	373	470
February.....	5	19	24	64	316	380
March.....	5	16	21	51	148	199
April.....						
September.....		12	16	24	72	96
October.....	4	16	20	100	373	473
November.....	4	19	23	100	475	575
December.....						
Total.....				436	1,757	2,193
1938						
January.....		12	12		284	284
February.....		12	12		276	276
March.....		12	12		176	176
October.....		8	8		200	200
November.....		8	8		200	200
December.....		8	8		200	200
Total.....					1,336	1,336

CHAPTER EIGHT

SASKATCHEWAN

Saskatchewan's output of coal increased annually from 1934 to 1937; however, in 1938, there was a slight decline from the 1937 peak production. The 1938 output totalled 1,022,166 tons. Active mines in this province produced 73 per cent of their possible output; lack of orders accounted for 26.8 per cent of the output loss. Strikes caused a loss of 3,400 man-day's work which represented a production loss of 17,823 tons; other causes were responsible for a time loss of 71,190 man-days or an estimated output loss of 377,412 tons.

Shipments of coal from Saskatchewan mines in 1938, for consumption within the province, amounted to 486,219 tons or 50.6 per cent of the total tonnage shipped. The Manitoba market received 453,143 tons during the year compared with 482,049 tons in 1937. The remainder of the mine shipments consisted of 20,094 tons to Ontario, 1,374 tons for railroad use and 696 tons to the United States.

Retail coal dealers purchased 605,000 tons of Saskatchewan coal in 1938; approximately 30.6 per cent of this coal was classed as cobble, 24.3 per cent as nut, 15.1 per cent as slack, 13.2 per cent as lump and the remainder as pea, run-of-mine and egg. Industrial consumers purchased 254,000 tons in 1938. Purchases by domestic consumers, including employees, purchases direct from the mines, amounted to 103,000 tons, of which 84.7 per cent was run-of-mine.

Table 98.—Output of Coal from Saskatchewan Mines, 1887-1938

Calendar year	Short tons	Value	Calendar year	Short tons	Value	Calendar year	Short tons	Value
		\$			\$			\$
1887.....	(a) 400	800	1905.....	107,596	152,334	*1923.....	438,100	858,448
1888.....			1906.....	108,308	164,146	*1924.....	479,118	886,668
1889.....			1907.....	151,232	252,437	*1925.....	471,965	870,875
1890.....	200	200	1908.....	150,556	253,790	*1926.....	459,803	819,805
1891.....			1909.....	192,125	298,333	*1927.....	470,216	865,867
1892.....	5,400	9,325	1910.....	181,156	293,929	*1928.....	471,713	831,491
1893.....	8,325	12,485	1911.....	206,779	347,248	*1929.....	580,189	983,226
1894.....	(b) 15,051	15,153	1912.....	225,342	368,153	*1930.....	579,424	968,863
1895.....	15,769	31,538	1913.....	212,897	358,102	*1931.....	662,836	945,259
1896.....	16,706	25,059	1914.....	232,289	374,245	*1932.....	887,139	1,229,449
1897.....	25,000	37,500	1915.....	240,107	365,240	*1933.....	927,649	1,285,996
1898.....	25,000	37,500	1916.....	281,300	441,836	*1934.....	909,288	1,241,130
1899.....	25,000	37,500	1917.....	355,445	662,451	*1935.....	921,785	1,293,668
1900.....	40,500	60,750	1918.....	346,847	722,148	*1936.....	1,020,792	1,463,680
1901.....	45,000	72,000	*1919.....	379,347	819,390	*1937.....	1,049,348	1,494,337
1902.....	70,400	112,640	*1920.....	335,222	797,828	*1938.....	1,022,166	1,380,416
1903.....	116,703	169,618	*1921.....	335,632	823,180			
1904.....	124,885	187,021	*1922.....	382,437	802,053	Total.....	16,230,587	26,536,188

(a) From Turtle Mountain district, Manitoba.

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

*For the years 1919-1938 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 99.—Output of Coal from Saskatchewan Mines, by Months, 1934-1938

(Short tons)

Month	1934	1935	1936	1937	1938
January.....	125,695	145,685	147,055	150,436	135,401
February.....	94,922	79,756	149,828	115,006	123,097
March.....	77,251	79,243	69,906	79,100	63,731
April.....	34,206	45,149	46,173	45,661	41,151
May.....	25,740	28,942	27,765	23,538	29,032
June.....	21,421	23,589	26,453	22,906	23,084
July.....	23,575	23,952	28,415	21,048	24,907
August.....	31,109	33,982	30,526	30,139	44,686
September.....	86,107	53,375	80,956	87,457	67,439
October.....	136,636	132,740	161,727	160,331	154,576
November.....	115,787	153,369	119,862	150,158	150,569
December.....	130,749	121,993	134,120	162,668	152,643
Total.....	909,288	921,785	1,020,792	1,049,348	1,022,166

Table 100.—Output of Coal by Principal Collieries in Saskatchewan for 1936-1938
(Average of 500 tons or more per month)

(Short tons)

Name	Address	1936	1937	1938
Adler, Wm.....	Bienfait.....	5,865	1,244	9,566
Banks, H.....	Taylorlton.....	9,680	13,157	9,566
Baniulis Bros.....	Roche Percee.....	8,318	5,715	13,361
Bienfait Mines, Ltd.....	Bienfait.....	125,590	109,018	123,605
Crescent Collieries, Ltd.....	Bienfait.....	14,536		
Eastern Collieries of Bienfait, Ltd.....	Estevan.....	72,323	73,280	63,456
High Test Lignite Coal Co. Ltd. (former Bienfait Commercial Co.).....	Bienfait.....	5,373	12,276	9,425
Jenish Bros.....	Estevan.....	8,898	9,655	7,634
Lignite Coal Mines, Ltd.....	Pinto.....	30,814	39,106	41,381
Manitoba and Saskatchewan Coal Co., Ltd.....	503 Avenue Block, Winnipeg, Man.....	218,015	216,390	230,895
Matheson & Uhrich.....	Pinto.....	5,695	9,723	9,140
North West Coal Co. (D. Bozak).....	Bienfait.....	4,983	7,248	10,162
Poage, H. E.....	Roche Percee.....	23,466	24,818	10,350
Rock Springs Coal Co.....	Taylorlton.....	6,448	10,789	12,072
Shand Coal and Brick Co.....	Shand.....	8,302		
Siddall & Mitchell.....	Roche Percee.....	3,887	7,339	2,744
Truax Trar Coal Co., Ltd.....	Estevan.....	263,399	224,880	206,027
Western Dominion Coal Mines, Ltd.....	Taylorlton.....	69,320	160,201	168,497
All other operators.....		135,874	124,509	112,951
Total.....		1,028,792	1,049,348	1,022,166

Table 101.—Tonnage Lost in Saskatchewan Coal Mines, Showing the Relative Percentage Produced and Lost, with an Analysis of the Percentage Lost, 1937 and 1938

Year	Per cent produced	Per cent lost	Percentage lost through				
			Absenteeism	Lack of orders	Car shortage	Mine disability	Other causes
1937.....	74	26		26.0		0.0	0.0
1938.....	73	27		26.8		0.1	0.1

Table 102.—Disposition of Coal from Saskatchewan Mines, by Grades, 1937 and 1938

(Short tons)

Disposition	1937		1938					
	Total		Run-of-mine	Cobble and lump	Nut and other grades	Slack	Total	
	Quantity	Value					Quantity	Value
		\$						\$
Supplied to employees for domestic consumption.....	2,833	4,789	1,277	1,250	0	4	2,540	3,739
Shipped as per Table 103.....	958,288	1,457,675	131,424	275,082	399,122	155,898	961,526	1,345,864
Used under colliery boilers, etc.....	20,481	19,043	73	395	758	23,204	24,430	18,867
Used in making briquettes.....								
Used by companies' railroads.....	8,887	12,702		9,179			9,179	13,222
Put on bank.....	10,540	10,571	184	3,103	2,687	2,161	8,135	8,325
Put on waste heap.....	18,721						25,879	
Total disposition.....	1,059,750	1,504,780	132,958	289,009	402,576	181,267	1,031,689	1,389,897
Lifted from bank.....	10,402	10,443		3,490	3,113	2,914	9,523	9,481
Lifted from waste heap.....								
Total output.....	1,049,348	1,494,337	132,958	285,513	399,463	178,353	1,022,166	1,380,416

Table 103.—Shipments of Coal from Saskatchewan Mines, by Grades and Destination, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of-mine	Cobble and lump	Nut and other grades	Slack	Total	Run-of-mine	Cobble and lump	Nut and other grades	Slack	Total
Saskatchewan.....	141,149	176,643	150,040	37,431	505,263	115,289	132,479	184,149	54,302	486,219
Alberta.....										
British Columbia.....										
Manitoba.....	24,807	145,954	222,531	88,757	482,049	15,109	142,053	197,958	98,023	453,143
Ontario.....		958	3,545	4,721	9,224	536	193	15,991	3,374	20,094
United States.....	452	146		36	634	490	200			696
Railroads—										
In Canada.....			572	546	1,118		151	1,024	199	1,374
In United States.....										
Total	166,498	323,701	376,688	131,491	998,288	131,424	275,862	399,122	155,898	961,526

Table 104.—Exports of Canadian Coal through Saskatchewan Ports, 1934-1938

(Short tons)

Port	1934	1935	1936	1937	1938
Moose Jaw.....	1,053	1,339	678	491	700
North Portal.....	2,629	1,781	2,194	1,334	2,859
Regina.....	272	273	886	378	144
Total	3,954	3,393	3,758	2,203	3,703

Table 105.—Imports into Saskatchewan of Anthracite, Bituminous and Lignite Coal, by Ports of Entry, 1937 and 1938

(Short tons)

Port	Source	1937				1938						
		Anthra- cite	Bitum- inous, all grades	Lig- nite	Total	Anthracite			Bitum- inous, all grades	Lig- nite	Total	
						Grate, egg, stove, nut, d'bles cobble and treble	Screen- ings or dust	Peas, beans and smaller sizes, n.o.p.				
Moose Jaw.....	U.S.	29	66		95				102	59	161	
North Portal.....	U.S.	37	3	79	119		39		39	35	218	
Prince Albert.....	U.S.		71		71					30	30	
Regina.....	U.S.		181	46	227					216	258	
	G.B.											
Saskatoon.....	U.S.		422		422					400	400	
Total.....	U.S.	66	743	125	934		39		39	783	245	1,067
	G.B.											
Grand Total.....		66	743	125	934		39		39	783	245	1,067

*The total tonnage received at Saskatchewan ports of entry. See page 4, section 2, for explanation.

Table 106.—Summary Statistics for Saskatchewan in 1938—Output, Exports, Inter-provincial Shipments, Imports and Coal made Available for Consumption, 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.....		6,677		38	33	6,672
Bituminous.....		1,551				1,551
Sub-bituminous.....		118,808	73,513	1,271		179,425
Lignite.....	135,401					
Total.....	135,401	127,036	73,513	1,309	33	187,648
February—						
Anthracite.....		8,121		10	40	8,151
Bituminous.....		2,341				2,341
Sub-bituminous.....		118,025	61,277	14	4	179,835
Lignite.....	123,097					
Total.....	123,097	128,487	61,277	24	44	190,327
March—						
Bituminous.....		4,410		13	99	4,496
Sub-bituminous.....		419				419
Lignite.....	63,731	52,369	34,525	86	36	61,525
Total.....	63,731	57,198	34,525	99	135	86,440
April—						
Anthracite.....					39	39
Bituminous.....		2,548		1	73	2,620
Sub-bituminous.....		103				103
Lignite.....	41,151	24,393	20,495	34		45,015
Total.....	41,151	27,044	20,495	35	112	47,777
May—						
Anthracite.....					33	4,348
Bituminous.....		4,315				202
Sub-bituminous.....		202				37,029
Lignite.....	29,962	21,377	14,275	35		
Total.....	29,962	25,894	14,275	35	33	41,579
June—						
Bituminous.....		3,435		20	33	3,448
Sub-bituminous.....		330				330
Lignite.....	23,984	14,788	11,749	15		27,008
Total.....	23,984	18,553	11,749	35	33	30,786
July—						
Anthracite.....					138	2,506
Bituminous.....		2,368				416
Sub-bituminous.....		416				26,260
Lignite.....	24,907	14,297	12,931	13		
Total.....	24,907	17,081	12,931	13	138	29,182
August—						
Anthracite.....					196	3,397
Bituminous.....		3,212		11		810
Sub-bituminous.....		810				86,528
Lignite.....	44,686	58,586	16,721	23		
Total.....	44,686	62,608	16,721	34	196	90,735
September—						
Anthracite.....					3	4,011
Bituminous.....		4,036		28		1,946
Sub-bituminous.....		1,946				107,274
Lignite.....	67,439	66,073	26,214	24		
Total.....	67,439	72,055	26,214	52	3	113,231
October—						
Anthracite.....					30	8,512
Bituminous.....		8,561		79		3,342
Sub-bituminous.....		3,342				240,280
Lignite.....	134,576	161,299	49,436	265	106	
Total.....	134,576	173,202	49,436	344	136	258,134

Table 106.—Summary Statistics for Saskatchewan in 1938—Output, Exports, Inter-provincial Shipments, Imports and Coal made Available for Consumption, 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.....		8,946		116	105	8,935
Sub-bituminous.....		3,378				3,378
Lignite.....	180,589	166,191	75,884	561	85	270,420
Total.....	180,589	178,515	75,884	677	190	282,733
December—						
Anthracite.....						
Bituminous.....		7,935		34		7,901
Sub-bituminous.....		2,456				2,456
Lignite.....	152,643	121,889	76,217	1,012	14	197,317
Total.....	152,643	132,280	76,217	1,046	14	207,674
Total—						
Anthracite.....					39	39
Bituminous.....		64,564		350	783	64,997
Sub-bituminous.....		17,294				17,294
Lignite.....	1,022,166	938,095	473,237	3,353	245	1,483,916
Total.....	1,022,166	1,019,953	473,237	3,703	1,067	1,566,246

Table 107.—Employees, Salaries and Wages in the Coal Mines of Saskatchewan, 1937 and 1938

	1937	1938
Number of Salaried employees—		
Male.....	49	58
Female.....	9	9
Number of Wage-earners—		
Surface.....	255	256
Underground.....	619	585
Total.....	932	903
Salaries and wages—		
Salaries.....	\$ 100,064	\$ 116,802
Wages.....	\$ 602,865	\$ 610,475
Total.....	\$ 702,929	\$ 727,277

Table 108.—Employment and Earnings in the Coal Mines of Saskatchewan, 1934-1938

	1934	1935	1936	1937	1938
Average number of wage-earners—					
Surface.....	203	241	254	255	256
Underground.....	619	572	593	619	585
Total.....	882	813	847	874	841
Days' work done—					
Surface.....	52,752	51,561	61,190	59,312	60,605
Underground.....	124,877	116,202	133,946	141,445	134,298
Total.....	177,629	167,763	195,136	200,757	194,903
Average number of days worked per man per year—					
Surface.....	200	214	241	233	337
Underground.....	202	203	226	229	230
By all wage-earners.....	201	206	230	229	232
Total wages paid.....	\$ 546,177	\$ 519,292	\$ 600,197	\$ 602,865	\$ 610,475

Table 109.—Wage-Earners Employed, and Work Done, by Months, in the Coal Mines of Saskatchewan in 1938

Month	Number of wage-earners			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
January.....	300	810	1,110	7,062	17,986	25,048
February.....	294	755	1,049	6,056	15,434	21,490
March.....	228	530	758	3,713	7,966	11,679
April.....	184	344	528	2,777	4,750	7,527
May.....	158	281	439	2,173	3,407	5,580
June.....	159	269	428	1,865	2,936	4,801
July.....	207	296	503	2,610	3,348	5,958
August.....	209	329	538	3,731	5,804	9,535
September.....	255	591	846	5,079	9,997	15,076
October.....	354	924	1,278	8,001	17,628	25,529
November.....	383	1,008	1,391	9,765	25,217	34,982
December.....	342	883	1,225	7,863	19,925	27,788
Total.....				60,695	134,298	194,993

Table 110.—Wage-Earners in the Coal Mines of Saskatchewan, by Classes, 1937 and 1938

Classification	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
Administration.....	9		9	8		8
Foremen and officials.....	16	20	36	15	18	33
Clerks.....	17		17	19		19
Screenmen and loaders.....	52		52	49		49
Stripping shovel operators.....	2		2	2		2
Hand cutters and helpers.....		368	368		298	298
Machine cutters and helpers.....		37	37		38	38
Machine loaders and helpers.....		61	61		68	68
Horse haulage employees.....	4	53	57	3	47	50
Mechanical haulage employees.....	15	3	18	16	14	30
Ventilation employees.....		3	3		3	3
Roadmakers.....	1	22	23	4	24	28
Timbermen.....		13	13		17	17
Pumpmen.....		4	4		3	3
Loading shovel.....	4		4	6		6
Cleaning shovel.....						
Engineers.....	13		13	11		11
Firemen.....	12		12	11		11
Machinists.....	5	1	6		1	6
Carpenters and masons.....	7		7	6		6
Other mechanics.....	6		6	8		8
All other employees.....	92	24	116	93	54	147
Total.....	255	619	874	256	585	841

Table 111.—Capital Employed in the Coal Mines of Saskatchewan, 1937 and 1938

	1937	1938
Capital employed as represented by—	\$	\$
Cost of lands, buildings, machinery and tools.....	2,701,973	2,752,658
Cost of supplies and stock on hand.....	76,394	75,299
Cash, trading and operating accounts and bills receivable.....	340,960	261,512
Total.....	3,119,327	3,089,469

CHAPTER NINE

ALBERTA

Coal production in Alberta amounted to 5,251,233 tons in 1938; in the preceding year, 5,562,839 tons were mined. Bituminous coal output declined 4.3 per cent to 2,310,479 tons; sub-bituminous coal production was 3.4 per cent lower at 488,915 tons and lignite coal output recorded a 7.2 per cent falling-off to 2,451,839 tons.

Coal mines active in the province in 1938 produced 67 per cent of their possible output; an estimated production loss of 2,537,683 tons was sustained through causes other than strikes. The loss due to strikes was computed at 30,911 tons.

Railroads in Canada continued to be the principal market for Alberta coal; during the year 1,868,755 tons were shipped from the mines for locomotive use. Direct shipments from the mines for consumption within the province aggregated 1,236,781 tons compared with 1,287,720 tons a year ago. Consumers in Saskatchewan received 1,012,608 tons of Alberta coal in 1938. Shipments to the Manitoba market amounted to 413,079 tons as against 438,906 tons in 1937. A decline of 11.5 per cent was recorded in the tonnage shipped to British Columbia; the 1938 total was 238,433 tons and the preceding year's total 269,286 tons. Other direct shipments from the mines included 74,838 tons to Ontario, 35,910 tons to the United States and 128 tons to the Northwest Territories.

Retail coal dealers purchased 1,816,000 tons of Alberta coal direct from the mines; this total consisted of 968,000 tons of lump, 270,000 tons of slack, 235,000 tons of egg, 192,000 tons of nut, 98,000 tons of run-of-mine and 53,000 tons of pea. Purchases by domestic users and employees (direct from the mines) totalled 620,000 tons; 37.6 per cent of this coal was lump and 31.0 per cent was run-of-mine. Sales to industrial consumers amounted to 559,000 tons, of which 63.0 per cent was slack, 15.2 per cent, run-of-mine and 10.6 per cent, lump.

Eighty-three per cent of Alberta's output was mined in six coal producing districts in 1938; these were: Crowsnest, Drumheller, Mountain Park, Edmonton, Coalspur and Lethbridge. The Crowsnest and Mountain Park coals are classed as bituminous; the Coalspur coal is sub-bituminous, and the Drumheller, Edmonton and Lethbridge coals are classed as lignite.

The coal mines in Alberta provided employment for 9,192 wage-earners in January; 5,155 men were employed in June which was the low mark for the year; the employment peak was reached in November when 9,468 men were working. The average number of wage-earners employed during 1938 was 7,374; these men received \$7,852,897 in wages during the year. In addition to these wage-earners, there were 525 salaried employees who received \$1,143,859 in 1938.

Table 112.—Output of Coal from Alberta Mines, 1886-1938

Calendar year	Short tons	Value	Calendar year	Short tons	Value	Calendar year	Short tons	Value
		\$			\$			\$
1886.....	43,220	81,112	1905.....	931,917	1,993,915	*1924.....	5,189,729	18,884,318
1887.....	74,152	157,577	1906.....	1,246,390	2,614,762	*1925.....	5,860,031	20,021,484
1888.....	115,124	183,354	1907.....	1,591,579	3,836,286	*1926.....	6,503,705	20,886,103
1889.....	97,364	179,640	1908.....	1,685,661	4,127,311	*1927.....	6,934,132	21,982,058
1890.....	128,753	198,298	1909.....	1,994,741	4,833,109	*1928.....	7,336,330	23,532,414
1891.....	174,131	437,243	1910.....	2,894,469	7,065,736	*1929.....	7,150,693	22,928,182
1892.....	178,970	460,605	1911.....	1,511,036	3,979,264	*1930.....	5,755,528	18,063,225
1893.....	230,070	586,260	1912.....	3,240,577	8,113,523	*1931.....	4,564,015	13,342,675
1894.....	184,940	473,827	1913.....	4,014,755	10,418,941	*1932.....	4,870,648	13,526,309
1895.....	169,885	382,526	1914.....	3,683,015	9,350,392	*1933.....	4,718,788	12,307,258
1896.....	209,162	581,832	1915.....	3,300,818	8,283,079	*1934.....	4,753,810	12,556,099
1897.....	242,163	630,408	1916.....	4,559,054	11,386,577	*1935.....	5,402,894	14,094,795
1898.....	315,088	787,720	1917.....	4,736,368	14,153,685	*1936.....	5,696,960	14,659,705
1899.....	309,600	774,000	1918.....	5,972,816	20,537,287	*1937.....	5,562,839	14,503,911
1900.....	311,450	778,625	*1919.....	4,933,600	18,205,205	*1938.....	5,251,233	13,698,470
1901.....	349,275	850,687	*1920.....	6,907,765	30,186,933			
1902.....	402,819	960,801	*1921.....	5,909,217	27,246,514			
1903.....	495,893	1,117,541	*1922.....	5,990,911	24,351,913			
1904.....	661,732	1,404,524	*1923.....	6,854,397	28,018,303			
						Total...	162,324,272	594,781,123

*For the years 1919-1938 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 113.—Output of Coal from Alberta Mines, by Months, 1934-1938
(Short tons)

Month	1934	1935	1936	1937	1938
January.....	554,673	688,181	643,466	671,646	563,363
February.....	362,298	367,932	741,680	542,751	586,958
March.....	374,196	423,844	381,879	383,632	463,290
April.....	250,771	342,844	310,344	305,397	287,954
May.....	247,339	268,166	253,324	273,638	247,572
June.....	239,781	255,256	237,852	261,274	210,744
July.....	248,117	254,547	247,074	269,981	214,818
August.....	300,939	345,823	319,338	351,523	351,476
September.....	478,862	477,462	569,157	463,217	365,011
October.....	587,432	675,353	792,927	694,674	647,058
November.....	552,113	804,653	567,597	682,634	715,272
December.....	557,289	588,833	632,322	662,472	597,717
Total.....	4,753,810	5,462,894	5,696,960	5,562,839	5,251,233

Table 114.—Output of Coal by Districts, in Alberta, 1936-1938
(Short tons)

District	1936	1937	1938
BITUMINOUS—			
Cascade.....	166,667	175,986	170,034
Crowsnest.....	1,310,559	1,326,399	1,297,640
Mountain Park.....	655,130	764,371	688,449
Nordegg.....	156,378	147,028	154,356
Total bituminous.....	2,288,734	2,413,784	2,310,479
SUB-BITUMINOUS—			
Coalspur.....	388,766	350,427	351,429
Morley.....	123	667	61
Pekisko.....	4,805	4,928	5,080
Pincher.....	2,094	1,541	1,413
Prairie Creek.....	127,503	106,803	91,189
Saunders.....	42,944	41,894	39,743
Total sub-bituminous.....	566,235	506,260	488,915
LIGNITE—			
Ardley.....	29,217	24,017	21,462
Big Valley.....	2,818	2,488	2,069
Brooks.....	9,842	9,167	9,669
Canrose.....	65,398	57,121	52,670
Carbon.....	108,625	105,018	92,844
Custor.....	47,021	40,765	39,757
Champion.....	22,165	17,933	16,184
Drumheller.....	1,437,343	1,289,765	1,167,993
Edmonton.....	542,854	542,063	515,077
Gleichen.....	9,897	19,902	23,046
Halcourt.....	3,454	4,620	3,368
Lethbridge.....	350,967	350,388	342,135
Magrath.....	857	995	542
Milk River.....	5,500	4,290	3,693
Pakan.....	335	773	353
Pakowki.....	3,692	1,339	1,419
Pembina.....	53,956	33,403	30,270
Redcliff.....	36,433	30,203	27,382
Rochester.....	2,241	43	729
Sexsmith.....	44	48	80
Sheerness.....	47,345	39,388	35,934
Stevenville.....	14,194	13,139	12,326
Taber.....	42,846	48,315	45,094
Tofield.....	1,776	2,238	2,342
Wetaskiwin.....	163	356	231
Whitecourt.....	2,908	4,595	5,170
Area not designated.....			
Total lignite.....	2,841,991	2,642,795	2,451,839
Total Alberta.....	5,696,960	5,562,839	5,251,233

*Includes a small quantity of anthracite coal.

Table 115.—Output of Coal by Principal Collieries in Alberta, 1936-1938
(Average of 500 tons or more per month)

(Short tons)

Name and address	1936	1937	1938
Bituminous			
CASCADE DISTRICT—			
Canmore Mines, Ltd., Canmore.....	165,670	174,768	168,893
All other operators*.....	997	1,218	1,141
Total.....	166,667	175,986	170,034
CROWSNEST DISTRICT—			
Hillcrest Collieries, Ltd., Hillcrest.....	191,771	229,122	175,736
International Coal and Coke Co., Ltd., Coleman.....	387,099	357,550	344,906
McGillivray Creek Coal and Coke Co., Ltd., Coleman.....	269,638	279,472	281,262
Mohawk Bituminous Mines, Ltd., Bellevue.....	73,224	57,826	70,455
West Canadian Collieries, Ltd., Blairmore.....	382,462	395,895	420,198
All other operators.....	6,365	6,534	5,083
Total.....	1,310,559	1,326,399	1,297,640
MOUNTAIN PARK DISTRICT—			
Cadomin Coal Co., Ltd., Cadomin (mine office); Edmonton (business office)...	314,344	352,674	270,932
K.D. Collieries Ltd., Lussar.....		4,799	14,808
Luscar Collieries, Ltd., Edmonton.....	136,456	159,332	143,431
Mountain Park Collieries, Ltd., 410 Tegler Bldg., Edmonton.....	204,290	247,413	259,278
All other operators.....	40	153	
Total.....	655,130	764,371	688,449
NORDEGG DISTRICT—			
Brazeau Collieries Ltd., Nordegg.....	156,378	147,028	154,356
Total.....	156,378	147,028	154,356
Total bituminous.....	2,288,734	2,413,784	2,310,479
Sub-Bituminous			
COALSPUR DISTRICT—			
Coal Valley Mining Co., Ltd., Edmonton.....	134,457	118,668	116,397
Croxton, H. H. (formerly Bryan Coal Co. Ltd.), Robb.....	10,150	2,441	903
Foothills Collieries, Ltd., Foothills.....	55,939	50,042	49,720
Lakeside Coal Ltd., Edmonton.....	31,948	33,959	28,829
McLeod River Hard Coal Co., Ltd., Mercoal.....	26,830	34,238	44,660
Sterling Collieries Ltd., Edmonton.....	129,442	111,069	110,920
All other operators.....			
Total.....	388,766	350,427	351,429
MORLEY DISTRICT.....	123	667	61
PEKISKO DISTRICT.....	4,805	4,928	5,080
PINCHER DISTRICT.....	2,094	1,541	1,413
PRAIRIE CREEK DISTRICT—			
Hinton Collieries, Ltd., Hinton.....	95,945	74,119	63,362
Jasper Coal Co., Ltd., Edmonton.....	31,658	32,684	27,827
Total.....	127,503	106,803	91,189
SAUNDERS DISTRICT—			
Alexo Coal Co., Ltd., Alexo.....	20,432	19,563	18,246
Bighorn and Saunders Creek Collieries, Ltd., Saunders.....	22,512	22,331	21,316
All other operators.....			181
Total.....	42,944	41,894	39,743
Total sub-bituminous.....	566,235	506,260	488,915
Lignite			
ARDLEY DISTRICT—			
Super Heat Coal Co. Ltd., Ardley.....	20,125	16,222	14,629
All other operators.....	9,092	7,795	6,833
Total.....	29,217	24,017	21,462
BIG VALLEY DISTRICT.....	2,918	2,488	2,069
BROOKS DISTRICT—			
Kleenbinn Collieries Ltd., Eyremore.....	9,526	8,903	9,459
All other operators.....	316	254	210
Total.....	9,842	9,157	9,669

*Anthracite coal produced by Frank Wheatley and Sons.

Table 115.—Output of Coal by Principal Collieries in Alberta, 1936-1938
(Average of 500 tons or more per month)—Continued

(Short tons)

Name and address	1936	1937	1938
Lignite—Continued			
CAMROSE DISTRICT—			
Canadian Dinant Coal Co., Ltd., Dinant.....	36,470	29,906	25,454
Gotheridge, W. T. & Sons, Round Hill.....	8,320	6,656	6,644
Red Flame Coal Co., Round Hill.....	8,484	7,837	7,874
Stoney Creek Collieries, Ltd., Camrose.....	9,885	9,045	10,002
All other operators.....	2,239	3,679	2,696
Total.....	65,398	57,121	52,670
CARBON DISTRICT—			
Artic Coal Co., Carbon.....	3,041	6,342	5,630
Balogh Coal Co., Ltd., Carbon.....	15,499	14,180	19,776
Canadian Dinant Coal Co., Three Hills.....	23,118	19,913	22,517
Carbon Coal Co. (formerly Peerless Carbon Collieries Ltd.), Carbon.....	25,443	22,638	20,132
Oliphant, J. H., Carbon.....	32,713	32,825	15,342
All other operators.....	8,811	9,120	9,447
Total.....	108,625	105,018	92,844
CASTOR DISTRICT.....	47,021	40,765	39,767
CHAMPION DISTRICT.....	22,165	17,933	16,184
DRUMHELLER DISTRICT—			
Aetna Coal Co., Ltd., East Coulee.....	16,127	9,838	23,035
Alberta Block Coal Co., Ltd., Drumheller.....	62,905	50,951	58,539
Brilliant Coal Co., Drumheller.....	71,144	71,441	65,742
Comet Coal Co., Ltd. (formerly Murray Collieries Ltd.), East Coulee.....	49,253	22,869	17,751
Commander Coal Co. (formerly Regal Coal Co. Ltd.), Drumheller.....	13,934	17,974	19,634
Elgin Coal Co., Ltd., Drumheller.....	39,646	40,372	32,206
Empire Collieries, Ltd., East Coulee.....	67,018	69,407	70,907
Hy-Grade Coal Co., Ltd. (formerly Fireside Coal Co., Ltd.), Drumheller.....	101,574	90,651	94,513
Ideal Coal Co., Ltd., Wayne.....	51,004	13,354	.....
Maple Leaf Minerals Ltd., Drumheller.....	55,504	47,441	59,288
Midland Coal Mining Co., Ltd., Drumheller.....	159,903	137,039	106,757
Monarch Coal Mining Co., Ltd., Calgary.....	29,105	56,188	66,719
Murray Collieries Ltd., East Coulee.....	38,629	80,834	82,187
Newcastle Coal Co., Ltd., Drumheller.....	63,901	57,311	13,977
Red Deer Valley Co., Ltd.....	70,425	62,375	64,615
Regal Coal Co. Ltd. (formerly Atlas Coal Co. Ltd.) East Coulee.....	85,045	107,804	111,209
Rosedale Collieries, Ltd. (Rosedale Mine), Rosedale.....	99,070	92,400	70,046
Rosedale Collieries, Ltd. (Star Mine), Aerial.....	82,140	69,176	76,683
Rosedale Collieries, Ltd. (Paragon Mine), Aerial.....	.....	3,511	7,384
Superior Grade Coal Co., Ltd., Wayne.....	12,193	15,307	9,111
Wayne Coal Producers Assn. Ltd. (Mutual Supplies Ltd.), Wayne.....	26,865	15,377	16,801
Western Gem & Jewel Collieries Ltd. (Cambrian Coal Co. Ltd.) Rosedale Station.....	28,588	39,425	22,208
Western Gem & Jewel Collieries Ltd. (Jewel Collieries Ltd.), Rosedale Station.....	84,456	72,359	71,616
Western Gem & Jewel Collieries Ltd. (Western Gem Coal Co., Ltd.), Rosedale Station.....	97,532	39,806	.....
All other operators.....	11,340	6,555	7,065
Total.....	1,437,343	1,289,765	1,167,993
EDMONTON DISTRICT—			
Banner Coals Ltd. (formerly Kelstar Coals Ltd. and Penn Coals Ltd.), Edmonton.....	32,460	35,027	30,765
Beverly Coal Co. Ltd., Edmonton.....	49,298	51,955	57,762
Bush Mines, Ltd., Edmonton.....	51,264	53,913	46,139
Dawson Coal Co., Ltd., Edmonton.....	29,816	25,645	24,805
Edina Coal Co., Ltd., Edmonton.....	27,312	12,345	.....
Fraser-Mackay Collieries, Ltd., 10055-101st St., Edmonton.....	48,821	36,439	26,005
Gibb and Ball (formerly W. E. Gibb), Edmonton.....	19,836	21,197	17,625
Gwilliam, D. J., Namao.....	437	4,504	8,140
Keith and Fulton Coal Co., Clover Bar.....	5,304	2,048	.....
Kent Coal Co., Ltd., Edmonton.....	47,241	47,492	48,479
Klapstein and Opalinski, South Edmonton.....	4,936	7,292	9,027
Long Coal Co., Ltd., Namao.....	3,248	6,903	7,649
McDonnell Coal Co., Namao.....	10,632	7,897	6,697
Marcus Coal Mines, Ltd., Edmonton.....	55,405	51,768	48,502
Moran & Sons (formerly Carbondale Collieries Ltd.), Carbondale.....	3,073	6,728	5,332
Ottewell Coal Co., Clover Bar.....	13,065	24,677	56,454
Parker, L., Cardiff.....	7,118	6,282	4,909
Poholka, S., South Edmonton.....	6,763	7,273	6,785
Red Hot Coal Co. Ltd. (formerly Fridel Red Hot Coal Co.), Edmonton.....	7,098	9,914	10,800
Riverdale Coal Co. Ltd., Edmonton.....	5,818	5,480	7,565
Sinoski, M., South Edmonton.....	6,436	5,748	5,289
The Great West Coal Co., Ltd. (Black Diamond Mine), Edmonton.....	82,810	76,682	64,555
All other operators.....	24,675	31,848	21,793
Total.....	542,854	542,063	515,077

Table 115.—Output of Coal by Principal Collieries in Alberta, 1936-1938
(Average of 500 tons or more per month)—Continued

(Short tons)

Name and address	1936	1937	1938
Lignite—Continued			
GLEICHEN DISTRICT.....	9,897	19,902	23,046
HALCOURT DISTRICT.....	3,454	4,620	3,368
LETHBRIDGE DISTRICT—			
Chester Mine (formerly Royal Lethbridge Collieries) Lethbridge.....	11,869	11,691	19,542
City of Lethbridge Coal Mines, Lethbridge.....	13,144	12,675	13,492
Hamilton, J. J. Coal Co., Lethbridge.....	20,237	20,352	22,037
Lethbridge Collieries, Ltd. (Mine 1263).....	178,948	108,420	83,352
Lethbridge Collieries Ltd. (Mine 1464), Lethbridge.....	83,490	159,824	166,758
Land, Nelson, Hugblad, Lethbridge.....	15,401	14,658	16,513
Northern Coal Co., Ltd., Picture Butte.....	8,158	1,174	.....
Rollinson, J., Lethbridge.....	10,077	8,780	7,967
All other operators.....	9,643	12,814	12,474
Total.....	350,967	350,388	342,135
MAORATH DISTRICT.....	857	995	542
MILK RIVER DISTRICT.....	5,500	4,290	3,693
PAKAN DISTRICT.....	335	773	353
PAKOWKI DISTRICT.....	3,692	1,339	1,419
PEMBINA DISTRICT—			
Lakeside Coals Ltd., Edmonton.....	35,210	31,194	27,097
Royalties Oil & Share Corp. Ltd., Calgary.....	18,104	.....	.....
All other operators.....	642	2,209	3,173
Total.....	53,956	33,403	30,270
REDCLIFF DISTRICT—			
Gunderson Brick & Coal Co., Ltd., Redcliff.....	14,934	13,382	11,951
Oliphant, John, Medicine Hat.....	21,037	15,704	15,431
All other operators.....	462	1,117	.....
Total.....	36,433	30,203	27,382
ROCHESTER DISTRICT.....	2,241	478	729
SEXSMITH DISTRICT.....	44	43	80
SHEERNESS DISTRICT—			
Chinook Coal Co. Ltd., Sheerness.....	16,778	18,315	17,222
Sheerness Coal Co., Ltd. (formerly Leavell Coal Co. Ltd.), Sheerness.....	18,263	11,591	10,777
All other operators.....	12,304	9,482	7,935
Total.....	47,345	39,388	35,934
SLAVE LAKE DISTRICT.....			
STEVEVILLE DISTRICT.....			
TABER DISTRICT.....	14,194	13,139	12,326

Table 115.—Output of Coal by Principal Collieries in Alberta, 1936-1938
(Average of 500 tons or more per month)—Concluded
(Short tons)

Name and address	1936	1937	1938
Lignite—Continued			
TOFIELD DISTRICT—			
Tofield Coal Co., Ltd., Tofield	31,837	39,398	38,438
Tredway Bros., Dodds	7,356	5,689	3,125
All other operators	3,653	3,228	3,531
Total	42,846	48,315	45,094
WETASKIWIN DISTRICT	1,776	2,236	2,342
WHITECOURT DISTRICT	163	356	231
Area not designaed	2,908	4,598	5,170
Total lignite	2,841,991	2,642,795	2,451,839
Total Alberta	5,696,960	5,562,839	5,251,233

Table 116.—Tonnage Lost in Alberta Coal Mines, Showing by Districts the Relative Percentage Produced and Lost, with an Analysis of the Percentage Lost, 1937 and 1938

District	Per cent produced		Per cent lost		Percentage lost through									
					Absenteeism		Lack of orders		Car shortage		Mine disability		Other causes	
	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938	1937	1938
BITUMINOUS—														
Cascade	70	72	30	28	3.2	3.0	26.8	25.0						
Crowsnest	67	62	33	38			33.0	38.0						
Mountain Park	86	86	14	14	0.8	1.9	12.5	10.5			1.5	0.7	0.1	
Nordegg	62	60	38	40		0.3	38.0	39.7						
Total bituminous	72	68	28	32	0.4	0.7	27.4	30.8			0.4	0.2	0.1	
SUB-BITUMINOUS—														
Coalspur	82	86	18	14	0.3	0.4	16.3	13.0			0.4	0.1	1.0	0.5
Morley	51	45	49	55			37.6	19.8			35.2	11.4		
Pekisko	60	54	40	46			40.0	46.0						
Pincher	66	62	34	38			32.0	34.4			2.0	3.6		
Prairie Creek	91	87	9	13	0.3	0.1	7.6	6.5			5.2	1.1	1.1	1.2
Saunders	65	60	35	40			34.2	39.9					0.8	0.1
Total sub-bituminous	81	82	19	18	0.3	0.3	17.0	15.8			0.5	1.1	1.2	0.8
LIGNITE—														
Ardley	64	62	36	38		0.7	35.8	37.1			0.1		0.1	0.2
Big Valley	49	47	51	53			50.4	53.0					0.6	
Brooks	88	77	12	23			12.0	23.0						
Camrose	77	74	23	26	0.2		22.8	26.0						
Carbon	63	62	37	38			36.8	38.0	0.2					
Castor	61	58	39	42	0.2	0.9	38.0	39.9			0.1	0.5	0.7	0.7
Champion	55	55	45	45			44.4	46.0			0.6			
Drumheller	62	62	38	38			37.8	37.6				0.1	0.2	0.3
Edmonton	74	71	26	29	1.5	1.3	24.0	27.7			0.2		0.3	
Gleichen	76	65	24	35			24.0	34.0						1.0
Halcourt	62	69	38	31	0.2		37.8	31.0						
Lethbridge	68	68	32	32			31.4	31.3			0.1	0.4	0.5	0.3
Magrath	59	58	41	42			40.7	42.0					0.3	
Milk River	51	52	49	48			49.0	48.0						
Pakan	51	31	49	69	1.1		45.4	64.4			1.0		1.5	4.6
Pakowki	37	42	63	58			63.0	58.0						
Pembina	56	51	44	49	1.5	0.6	42.5	48.4						
Redcliff	54	52	46	48			46.0	48.0						
Rochester	95	74	5	26			5.0	23.0						3.0
Sexsmith	86	100	14				14.0							
Sheerness	51	54	49	46			47.2	39.0					1.8	7.0
Steveston														
Taber	55	50	45	50			45.0	48.8						1.2
Tofield	80	84	20	16			20.0	16.0						
Wetaskiwin	75	83	25	37			25.0	37.0						
Whitecourt	57	40	43	60			43.0	60.0						
Area not designated	69	65	31	35	0.3	3.7	30.7	31.3						
Total lignite	65	64	35	36	0.4	0.3	34.3	35.0				0.2	0.3	0.5
Total Alberta	69	67	31	33	0.5	0.6	30.1	31.7			0.1	0.4	0.3	0.3

Table 117.—Total Disposition of Coal from Alberta Mines, by Grades, 1937 and 1938
(Short tons)

	1937		1938					
	Total		Run-of-mine	Lump	Nut and other grades	Slack	Total	
	Quantity	Value					Quantity	Value
		\$						\$
Supplied to employees for domestic consumption...	43,148	104,906	18,487	15,130	4,504	264	38,394	93,303
Coal shipped as per Table 121	5,215,772	13,801,933	2,115,509	1,245,375	745,638	774,010	4,880,532	12,920,551
Used under colliery boilers...	146,929	314,849	72,302	2,609	6,065	55,878	136,854	292,328
Used by companies' railroads	6,177	14,012	6,096	143			6,239	13,657
Used in making cokes at colliery...	99,537	258,795				103,497	103,497	269,096
Used in making briquettes...	25,334	76,767				37,241	37,241	119,674
Put on bank	46,085	117,580	20,306	4,223	2,055	13,728	47,002	115,068
Put on waste heap	38,220						62,743	
Total disposition	5,620,593	14,687,953	2,238,700	1,267,489	758,862	944,618	5,312,592	13,823,677
Lifted from bank	51,328	124,042	29,934	4,678	2,863	22,388	58,861	125,207
Lifted from waste heap	6,426						2,405	
Total output	5,562,839	14,563,911	2,209,856	1,262,810	755,999	967,230	5,251,233	13,698,470

Table 118.—Disposition of Bituminous Coal from Alberta Mines, 1937 and 1938
(Short tons)

	1937		1938					
	Total		Run-of-mine	Lump	Nut and other grades	Slack	Total	
	Quantity	Value					Quantity	Value
		\$						\$
Supplied to employees for domestic consumption...	20,036	49,572	14,354	3,417	343	29	18,143	44,280
Coal shipped as per Table 122	2,183,024	6,351,386	1,557,146	8,082	115,136	364,798	2,045,162	5,853,720
Used under colliery boilers...	85,196	236,100	58,642		40	22,726	81,408	217,493
Used by companies' railroads	1,261	4,057	1,119				1,119	3,257
Used in making coke at colliery...	99,537	258,795				103,497	103,497	269,096
Used in making briquettes...	25,334	76,767				37,241	37,241	119,674
Put on bank	26,296	78,755	25,390	217	129	2,592	28,328	84,756
Put on waste heap	263						26,412	
Total disposition	2,411,250	7,057,432	1,656,651	11,716	115,648	530,883	2,341,310	6,592,276
Lifted from bank	27,466	82,264	27,726	220	80	2,805	30,831	86,120
Lifted from waste heap								
Total output	2,413,784	6,975,168	1,628,925	11,496	115,568	528,078	2,310,479	6,506,156

Table 119.—Disposition of Sub-Bituminous Coal from Alberta Mines, by Grades, 1937 and 1938
(Short tons)

	1937		1938					
	Total		Run-of-mine	Lump	Nut and other grades	Slack	Total	
	Quantity	Value					Quantity	Value
		\$						\$
Supplied to employees for domestic consumption...	2,406	6,731	1,480	342	371	11	2,201	6,020
Coal shipped as per Table 123	455,386	1,254,802	242,826	86,024	84,898	25,471	439,319	1,207,322
Used under colliery boilers...	25,078	46,499	12,651	68	868	12,538	26,125	47,377
Used by companies' railroads	4,226	8,577	4,560				4,560	9,120
Put on bank	4,029	9,559	657	199	712	1,948	3,516	5,580
Put on waste heap	21,316						16,660	
Total disposition	512,462	1,326,168	262,271	86,633	86,849	39,968	492,384	1,275,419
Lifted from bank	5,832	11,972	919	167	745	1,629	3,459	6,288
Lifted from waste heap	370						10	
Total output	506,260	1,314,196	261,355	86,466	86,104	38,340	488,915	1,269,131

Table 120.—Disposition of Lignite Coal from Alberta Mines, 1937 and 1938

(Short tons)

	1937		1938					
	Total		Run-of-mine	Lump	Nut and other grades	Slack	Total	
	Quantity	Value					Quantity	Value
		\$						\$
Supplied to employees for domestic consumption.....	21,006	49,603	2,653	11,380	3,790	224	18,047	43,003
Coal shipped as per Table 124.....	2,577,362	6,101,865	315,437	1,151,269	545,604	383,741	2,396,351	5,859,509
Used under colliery boilers.....	35,446	32,241	1,009	2,541	5,157	20,614	29,321	27,458
Used by companies' railroads.....	687	1,378	417	143			560	1,240
Put on bank.....	15,769	29,266	349	3,807	1,814	9,188	45,158	24,732
Put on waste heap.....	16,611						19,671	
Total disposition.....	2,666,881	6,304,353	319,865	1,169,140	556,365	413,767	2,478,808	5,955,982
Lifted from bank.....	18,039	29,806	289	4,292	2,038	17,955	21,574	32,799
Lifted from waste heap.....	6,056						2,395	
Total output.....	2,642,795	6,274,547	319,576	1,164,848	554,327	395,812	2,451,839	5,923,183

Table 121.—Total Shipments of Coal from Alberta Mines, by Grades and Destination, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of-mine	Lump	Nut and other grades	Slack	Total	Run-of-mine	Lump	Nut and other grades	Slack	Total
Alberta.....	258,469	468,290	290,771	270,190	1,287,720	274,002	427,505	286,308	248,966	1,236,781
Saskatchewan.....	72,994	602,183	231,345	179,158	1,085,680	70,980	543,970	225,970	171,688	1,012,608
British Columbia.....	4,724	76,885	53,556	134,121	269,286	4,074	63,529	45,262	125,568	238,433
Manitoba.....	18,075	180,896	80,635	159,297	438,906	15,179	155,655	78,081	164,164	413,079
Ontario.....	2,945	42,074	10,141	8,156	63,316	684	46,736	9,819	17,599	74,838
Northwest Territories.....		82			82		128			128
United States.....	327	6,550	20,753	14,693	42,323	190	4,110	12,931	15,131	32,368
Railroads—										
In Canada.....	1,969,725	6,000	18,980	29,064	2,023,769	1,746,858	3,736	87,267	30,894	1,868,755
In United States.....	4,690				4,690	3,542				3,542
Total.....	2,331,949	1,382,960	706,184	794,679	5,215,772	2,115,509	1,245,325	745,638	774,010	4,880,532

Table 122.—Shipments of Bituminous Coal from Alberta Mines, by Grades and Destination, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of-mine	Lump	Nut and other grades	Slack	Total	Run-of-mine	Lump	Nut and other grades	Slack	Total
Alberta.....	13,891	3,531	3,061	6,143	26,626	15,422	2,728	3,374	9,324	30,848
Saskatchewan.....	14,312	1,190	6,631	27,506	49,639	11,017	990	4,997	40,215	57,219
British Columbia.....	3,495	1,130	8,357	131,447	144,429	2,936	2,572	7,462	123,520	136,490
Manitoba.....	11,336	680	10,693	128,083	150,792	11,163	598	13,844	136,534	162,139
Ontario.....	116		1,766	7,199	9,078	333		837	17,567	18,737
United States.....	283	685	12,559	13,719	27,246	190	138	7,166	14,726	22,320
Railroads—										
In Canada.....	1,731,999	5,271	9,947	23,307	1,770,524	1,512,543	1,056	77,456	22,912	1,613,967
In the United States.....	4,690				4,690	3,542				3,542
Total....	1,780,122	12,487	53,014	337,401	2,183,024	1,557,146	8,692	115,136	364,798	2,045,162

Table 123.—Shipments of Sub-Bituminous Coal from Alberta Mines, by Grades and Destination, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of-mine	Lump	Nut and other grades	Slack	Total	Run-of-mine	Lump	Nut and other grades	Slack	Total
Alberta.....	6,067	16,586	12,289	11,960	46,902	5,396	16,982	13,987	7,105	43,470
Saskatchewan.....	819	6,017	6,368	4,584	17,788	1,411	5,901	7,244	2,738	17,294
British Columbia.....	689	21,678	23,441	1,258	47,066	911	16,845	18,770	114	36,640
Northwest Territories.....		82			82		83			83
Manitoba.....	483	32,701	29,367	9,385	71,936	598	30,109	32,504	7,532	70,743
Ontario.....		15,462	2,565	340	18,367	295	13,424	2,582		16,301
United States.....										
Railroads—										
In Canada.....	237,726	729	9,033	5,757	253,245	234,315	2,080	9,811	7,982	254,788
In United States.....										
Total.....	245,784	93,255	83,663	33,284	455,386	242,926	86,024	84,898	25,471	439,319

Table 124.—Shipments of Lignite Coal from Alberta Mines, by Grades and Destination, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of-mine	Lump	Nut and other grades	Slack	Total	Run-of-mine	Lump	Nut and other grades	Slack	Total
Alberta.....	238,511	448,173	275,421	252,087	1,214,192	253,184	407,840	268,947	232,537	1,162,508
Saskatchewan.....	57,863	594,976	218,346	147,068	1,018,253	58,552	537,079	213,729	128,735	938,095
British Columbia.....	540	54,077	21,758	1,416	77,791	227	44,112	19,030	1,934	65,303
Manitoba.....	6,256	147,515	40,578	21,829	216,178	3,418	124,948	31,733	20,098	180,197
Ontario.....	2,829	26,612	5,810	620	35,871	56	33,312	6,400	32	39,800
United States.....	44	5,805	8,194	974	15,017		3,978	5,765	405	10,148
Railroads.....										
Total.....	306,043	1,277,218	570,107	423,994	2,577,362	315,437	1,151,269	545,004	383,741	2,396,051

Table 125.—Exports of Canadian Coal through Alberta Ports, 1934-1938

(Short tons)

Port	1934	1935	1936	1937	1938
Cootts.....			1,163	1,568	2,099
Lethbridge.....	1,363	1,548	856	553	407
Total.....	1,363	1,548	2,019	2,121	2,506

Table 126.—*Imports into Alberta of Anthracite, Bituminous and Lignite Coal, by Ports of Entry, 1937 and 1938

(Short tons)

Port	Source	1937				1938					
		Anthracite	Bituminous all grades	Lignite	Total	Anthracite			Bituminous all grades	Lignite	Total
						Grate, egg, stove, nut, d'bles cobbles and trebles	Screenings or dust	Pens, beans, and smaller sizes, n.o.p.			
Calgary.....	U.S.....		150		150				215		215
Edmonton.....	U.S.....		1,082		1,082				836		836
Lethbridge.....	U.S.....	34	61	28	123				65	11	76
Medicine Hat.....	U.S.....										
Total.....	U.S.....	34	1,293	28	1,355				1,116	11	1,127

*The total tonnage received at Alberta ports of entry. See page 4, section 2, for explanation.

Table 127.—Summary Statistics for Alberta in 1938—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption, 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.....	185,033	109	36,438	31	41	148,714
Sub-bituminous.....	61,618		23,384			38,234
Lignite.....	316,712		166,713	79		149,920
Total.....	563,363	109	226,535	110	41	336,868
February—						
Bituminous.....	215,295	70	37,435	6	63	177,987
Sub-bituminous.....	61,105		17,074		3	44,031
Lignite.....	310,558		153,045	154		157,562
Total.....	586,958	70	207,554	160	66	379,580
March—						
Anthracite.....						
Bituminous.....	240,211	588	34,397	18	110	206,494
Sub-bituminous.....	86,241		8,587			77,654
Lignite.....	136,838		62,772	38		74,028
Total.....	463,290	588	105,756	56	110	358,176
April—						
Bituminous.....	173,623	1,451	24,168	2	68	150,972
Sub-bituminous.....	34,227		1,589			32,638
Lignite.....	80,104		27,175	41		52,888
Total.....	287,954	1,451	52,932	43	68	236,498
May—						
Bituminous.....	173,682	1,124	21,796	2	181	153,189
Sub-bituminous.....	8,108		1,333			6,775
Lignite.....	65,782		25,409	18		40,355
Total.....	247,572	1,124	48,538	20	181	200,319
June—						
Bituminous.....	151,999	822	19,907	6	159	133,067
Sub-bituminous.....	7,741		907			6,834
Lignite.....	51,004		18,610	2		32,392
Total.....	210,744	822	39,424	8	159	172,293
July—						
Bituminous.....	154,535	702	23,422	4	109	131,820
Sub-bituminous.....	11,166		2,703			8,463
Lignite.....	49,117		16,901	8		32,208
Total.....	214,818	702	43,026	12	109	172,591
August—						
Bituminous.....	211,029	779	26,884		101	185,025
Sub-bituminous.....	15,616		5,431			10,185
Lignite.....	124,831		70,532	47		54,252
Total.....	351,476	779	102,847	47	101	249,462
September—						
Bituminous.....	167,080	626	26,323	18	108	141,473
Sub-bituminous.....	34,425		12,208			22,217
Lignite.....	163,500		94,691	81		68,734
Total.....	365,011	626	133,222	99	108	232,424
October—						
Bituminous.....	207,392	529	36,346	107	62	171,530
Sub-bituminous.....	53,022		19,323			33,699
Lignite.....	386,644		204,952	714		180,978
Total.....	647,058	529	260,621	821	62	386,207
November—						
Bituminous.....	212,024	185	41,239	127		170,843
Sub-bituminous.....	57,954		23,453		5	34,501
Lignite.....	445,294		218,948	549		225,802
Total.....	715,272	185	283,640	676	5	431,146
December—						
Bituminous.....	218,578	63	46,230	165	114	172,358
Sub-bituminous.....	57,692		25,114		3	32,578
Lignite.....	321,449		163,647	289		157,516
Total.....	597,717	63	234,991	454	117	362,452
Total—						
Anthracite.....						
Bituminous.....	2,316,479	7,048	374,585	486	1,116	1,943,572
Sub-bituminous.....	484,915		141,106			347,809
Lignite.....	2,451,839		1,223,395	2,020	11	1,226,435
Total.....	5,253,233	7,048	1,739,086	2,506	1,127	3,517,816

Table 128.—Employees, Salaries and Wages in the Coal Mines of Alberta, by Districts, 1937

District	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Surface	Under-ground				
						\$	\$	\$
BITUMINOUS—								
Cascade.....	17	1	79	188	285	47,665	341,662	389,327
Crowsnest.....	102	6	442	1,404	1,954	257,361	2,199,706	2,457,067
Mountain Park.....	66	5	257	539	867	197,307	1,197,321	1,394,628
Norlegg.....	15		82	166	263	37,698	270,798	308,496
Total bituminous.....	200	12	860	2,297	3,369	540,091	4,009,787	4,549,878
SUB-BITUMINOUS—								
Coalspur.....	41	6	222	147	416	104,735	456,820	561,561
Morley.....			1	3	4		1,300	1,300
Pekisko.....			2	10	12		6,781	6,781
Pincher.....			2	3	5		2,575	2,575
Prairie Creek.....	12	1	41	110	164	25,485	209,542	235,027
Saunders.....	15		30	72	117	24,254	108,199	132,453
Total sub-bituminous..	68	7	208	345	718	154,474	785,223	939,697
LIGNITE—								
Arlley.....	2		10	41	53	2,900	28,371	31,271
Big Valley.....			1	9	10		3,828	3,828
Brooks.....	2		6	6	14	4,500	10,392	14,892
Camrose.....	8	1	19	65	93	13,606	58,126	71,732
Carbon.....	7	1	33	138	179	12,040	128,153	140,193
Castor.....	1		12	70	83	500	36,094	36,594
Champion.....	2		7	48	55	1,600	24,639	26,239
Drumheller.....	115	7	350	1,490	1,968	230,061	1,939,910	2,169,971
Edmonton.....	70	3	129	634	836	117,716	603,900	721,616
Gleichen.....	2		12	51	65	2,000	28,838	30,838
Halecourt.....			3	16	19		12,291	12,291
Lethbridge.....	36	2	129	433	600	85,344	543,928	629,272
Magrath.....			1	4	5		1,468	1,468
Milk River.....			6	8	14		6,343	6,343
Pakan.....			3	4	7		1,800	1,800
Pakowki.....			1	7	8		2,534	2,534
Pembina.....	2		13	44	59	3,037	33,438	36,475
Redcliff.....			20	33	53		32,543	32,543
Rochester.....	1			1	2	300	800	1,100
Sexsmith.....				1	1		73	73
Sheerness.....	3		41	11	55	5,428	24,192	29,620
Taber.....	1		9	28	38	1,100	18,638	19,738
Tofield.....	7		41	5	53	7,510	27,705	35,215
Wetaskiwin.....			1	5	6		2,680	2,680
Whitecourt.....			1	1	2		364	364
Area not designated.....			3	5	8		4,033	4,033
Total lignite.....	259	14	851	3,162	4,286	487,642	3,574,991	4,062,633
Total Alberta.....	527	33	2,009	5,804	8,373	1,182,207	8,379,001	9,552,208

Table 129.—Employees, Salaries and Wages, in the Coal Mines of Alberta, by Districts, 1938

District	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Surface	Under-ground				
						\$	\$	\$
BITUMINOUS—								
Cascade.....	18	1	85	184	268	50,409	328,325	378,734
Crowsnest.....	97	5	448	1,451	2,001	260,287	1,997,773	2,258,060
Mountain Park.....	62	4	272	469	807	175,197	1,162,861	1,338,058
Nordegg.....	22		79	169	270	53,081	257,672	310,753
Total bituminous.....	199	10	884	2,273	3,366	538,974	3,746,631	4,285,605
SUB-BITUMINOUS—								
Coalspur.....	33	2	223	144	402	93,553	488,580	582,133
Marley.....				1	1		150	150
Pekisko.....			2	10	12		6,450	6,450
Pincher.....			2	3	5		2,200	2,200
Prinzie Creek.....	12	1	44	92	149	23,760	193,968	217,728
Saunders.....	14		28	74	116	22,631	105,719	128,350
Total sub-bituminous..	59	3	299	324	685	139,944	797,067	937,911
LIGNITE—								
Ardley.....	2		8	38	48	2,800	26,045	28,845
Big Valley.....			1	8	9		2,745	2,745
Brooks.....	1		9	6	16	2,000	15,417	17,417
Camrose.....	8	1	19	65	93	15,830	54,933	70,763
Carlton.....	7	1	29	124	161	9,665	113,854	123,519
Castor.....	2		8	71	81	765	36,092	36,857
Clamson.....	1		7	43	51	700	22,612	23,312
Drumheller.....	107	6	300	1,268	1,681	222,003	1,726,027	1,948,030
Edmonton.....	58	4	110	570	751	105,878	547,397	653,275
Gleichen.....	2		10	58	70	1,748	35,964	37,612
Halecourt.....			2	15	17		8,515	8,515
Leithbridge.....	36	2	137	406	581	88,449	561,742	650,192
Mugrath.....			1	3	4		1,248	1,248
Milk River.....			7	6	13		4,765	4,765
Pakana.....			2	1	3		524	524
Pakowki.....				8	8		2,680	2,680
Penbina.....	1		12	43	56	2,262	29,325	31,587
Penbina.....			9	31	40		30,345	30,345
Redcliff.....				2	4	250	1,239	1,489
Rochester.....	1		1	1	1		100	100
Sexsmith.....				9	44	5,166	18,821	23,987
Sheerness.....	5		30					
Staveville.....								
Taber.....	3		8	27	38	1,223	10,314	11,537
Tofield.....	6		48	2	57	6,202	40,689	46,891
Wetaskiwin.....				7	7		2,050	2,050
Whitecourt.....	1			1	1		365	365
Area not designated.....			4	9	13		8,890	8,890
Total lignite.....	240	14	771	2,823	3,848	464,941	3,309,199	3,774,140
Total Alberta.....	498	27	1,954	5,420	7,899	1,143,859	7,852,897	8,996,756

Table 130.—Employment and Earnings in the Coal Mines of Alberta, 1934-1938

	1934	1935	1936	1937	1938
Average number of wage-earners—					
Surface.....	2,066	2,057	2,131	2,009	1,954
Underground.....	5,773	5,605	5,923	5,804	5,420
Total.....	7,839	7,662	8,054	7,813	7,374
Days' work done—					
Surface.....	473,827	499,136	517,453	498,615	469,649
Underground.....	951,265	1,087,843	1,165,041	1,114,920	1,021,028
Total.....	1,425,092	1,586,979	1,682,494	1,613,541	1,490,677
Average number of days worked per man per year—					
Surface.....	229	242	243	248	240
Underground.....	165	194	197	192	188
By all wage-earners.....	182	207	209	207	202
Total wages paid.....	\$ 6,895,136	\$ 7,891,362	\$ 8,493,359	\$ 8,370,061	\$ 7,852,897

Table 131.—Wage-Earners Employed, and Work Done, by Months, in the Coal Mines of Alberta in 1938

Month	Number of wage-earners			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
January.....	2,207	6,985	9,192	44,043	107,845	151,888
February.....	2,198	6,718	8,916	42,576	107,467	150,043
March.....	2,027	5,335	7,362	40,042	75,649	115,691
April.....	1,710	3,973	5,683	31,093	56,041	87,134
May.....	1,679	3,793	5,472	30,433	55,575	86,008
June.....	1,593	3,562	5,155	29,025	49,166	79,091
July.....	1,606	3,571	5,177	30,045	47,604	77,709
August.....	1,720	4,747	6,467	38,662	70,830	109,492
September.....	1,959	5,405	7,364	37,906	77,568	115,474
October.....	2,231	6,747	8,978	48,226	122,413	170,639
November.....	2,281	7,187	9,468	49,604	136,158	185,762
December.....	2,237	7,016	9,253	47,094	114,652	161,746
Total.....				463,649	1,021,028	1,490,677

Table 132.—Number of Man-Days' Work Done in the Coal Mines of Alberta, by Districts, 1937 and 1938

District	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
BITUMINOUS—						
Brûlé.....						
Cascade.....	20,816	35,667	56,483	21,582	34,645	56,227
Crowanest.....	110,929	267,373	378,302	104,945	251,852	356,797
Mountain Park.....	75,058	138,732	213,790	67,713	127,109	194,823
Nordegg.....	22,321	22,881	45,202	17,900	24,020	41,920
Total bituminous.....	229,124	464,653	693,777	212,140	437,626	649,766
SUB-BITUMINOUS—						
Coalspur.....	60,322	24,241	84,563	63,558	26,753	90,311
Morley.....	70	499	575	23	57	80
Pekisko.....	624	1,527	2,151	593	1,405	1,998
Pincher.....	426	611	1,037	343	528	871
Prairie Creek.....	11,178	30,333	41,511	11,240	23,863	35,103
Saunders.....	5,577	13,072	18,649	5,008	12,737	17,745
Total sub-bituminous.....	78,263	70,283	148,546	80,765	65,343	146,108
LIGNITE—						
Ardley.....	2,679	7,097	9,776	2,397	6,357	8,754
Big Valley.....	397	1,333	1,730	319	1,103	1,422
Brooks.....	1,913	1,240	3,153	2,054	1,307	3,361
Camrose.....	4,552	14,435	18,987	4,702	13,868	18,570
Carbon.....	7,696	24,709	32,405	6,530	22,075	28,605
Castor.....	3,282	11,057	14,339	2,764	11,413	14,177
Champion.....	1,624	7,396	9,020	1,384	6,811	8,195
Drumheller.....	72,824	259,868	332,692	63,295	229,983	293,278
Edmonton.....	32,169	135,175	167,344	28,316	115,599	143,915
Gleichen.....	3,073	11,661	14,734	2,761	11,923	14,684
Halecourt.....	878	3,825	4,703	700	2,822	3,522
Letbridge.....	32,330	78,562	110,892	33,163	73,410	106,573
Magnath.....	257	743	1,000	239	455	694
Milk River.....	1,266	908	2,234	1,461	708	2,169
Pakan.....	496	668	1,164	186	215	401
Pakowki.....	199	635	834	197	703	900
Pembina.....	3,769	6,022	9,791	3,103	5,187	8,290
Redcliff.....	2,249	5,035	7,884	1,590	5,237	6,827
Rochester.....	98	178	276	146	372	518
Sassnith.....	54	31	85	50	50	100
Sheerness.....	6,656	1,674	8,330	5,483	1,435	6,918
Steeville.....						
Taber.....	1,801	4,103	5,904	1,618	3,554	5,176
Tofield.....	10,145	885	11,030	13,067	546	13,613
Wetaskiwin.....	286	951	1,237	221	957	1,178
Whitecourt.....	80	122	202	33	88	121
Area not designated.....	515	1,077	1,592	965	1,877	2,842
Total lignite.....	191,288	579,990	771,278	176,744	518,059	694,803
Total Alberta.....	498,815	1,114,926	1,613,541	469,649	1,021,028	1,490,677

Table 133.—Wage-Earners Employed in the Coal Mines of Alberta, by Classes, 1937 and 1938

Classification	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
Administration.....	57	.....	57	59	.....	59
Foremen and officials.....	113	406	519	112	407	519
Clerks.....	132	.....	132	125	.....	125
Screenmen and loaders.....	608	.....	608	560	.....	560
Hand cutters and helpers.....	.....	1,931	1,931	.....	1,862	1,862
Machine cutters and helpers.....	.....	322	322	.....	284	284
Machine loaders and helpers.....	.....	1,522	1,522	.....	1,282	1,282
Horse haulage employees.....	33	382	415	30	349	379
Mechanical haulage employees.....	72	281	353	71	290	361
Ventilation employees.....	.....	52	52	.....	46	46
Roadmakers.....	5	137	142	.....	131	131
Stripping shovel operators.....	9	.....	9	11	.....	11
Timbermen.....	.....	272	272	.....	265	265
Pumpmen.....	2	26	28	.....	21	21
Chute loaders.....	.....	168	168	.....	184	184
Enginemen.....	146	3	149	140	2	142
Firemen.....	91	.....	91	89	.....	89
Machinists.....	64	6	70	67	3	70
Carpenters and masons.....	52	3	55	51	.....	51
Other mechanics.....	101	15	116	95	15	110
All other employees.....	524	278	802	544	276	820
Total.....	2,009	5,864	7,813	1,954	5,420	7,374

Table 134.—Capital Employed in the Coal Mines of Alberta, 1937 and 1938

	1937	1938
	\$	\$
Capital employed as represented by—		
Cost of lands, buildings, machinery and tools.....	30,935,737	30,005,646
Cost of supplies and stock on hand.....	953,018	652,481
Cash, trading and operating accounts and bills receivable.....	6,567,237	6,542,583
Total.....	38,455,992	37,200,710

CHAPTER TEN

BRITISH COLUMBIA

British Columbia mines produced 1,440,287 tons in 1938 compared with 1,598,843 tons in the preceding year. Production in the Crow's Nest Pass district was 2.5 per cent lower at 482,417 tons. The Inland district produced 216,311 tons or 13.5 per cent above the output a year ago. Mines in the Island district recorded an 18.8 per cent decline in output to 741,559 tons.

Shipments from British Columbia mines totalled 1,187,427 tons (exclusive of the tonnage supplied to employees for domestic use), as against 1,246,544 tons in 1937. Sales to railroads in Canada for locomotive use rose 1.9 per cent to 361,781 tons. Shipments for bunker purposes amounted to 153,262 tons compared with 179,394 tons a year ago. The remainder of the coal shipped was consigned to the United States, Manitoba, Alaska, Saskatchewan, Alberta and Ontario.

Direct sales from the mines to retail coal dealers amounted to 292,000 tons, made up of 129,000 tons of lump, 56,000 tons of pea, 46,000 tons of nut, 27,000 tons of egg, 24,000 tons of slack and 10,000 tons of run-of-mine. Industrial consumers purchased 216,000 tons direct from the mines; 36.6 per cent of this coal was slack. Sales to domestic users and employees totalled 45,000 tons, of which 42.2 per cent was lump.

The British Columbia coal mining industry furnished employment at the mines, on the average, to 2,833 wage-earners who received wages totalling \$3,089,466. These employees obtained 647,686 man-days' work during the year or 229 days per man. In 1937, there were 2,873 wage-earners employed; wages totalled \$3,568,627 and man-days' work, 741,346 or 258 days per man.

Eighty compressed air machines were used in 1938 in British Columbia coal mines to produce 780,255 tons or 53 per cent of the total tonnage mined. Explosives used during the year amounted to 385,391 pounds or approximately 0.3 pound per ton of coal mined.

Table 135.—Output of Coal from British Columbia Mines, 1836-1938

(Short tons)

Calendar year	Output	Value	Calendar year	Output	Value	Calendar year	Output	Value
		\$			\$			\$
1836-1866.....	214,410	765,748	1891.....	1,130,227	3,027,528	1916.....	2,584,061	8,075,190
1867.....	34,988	124,956	1892.....	937,218	2,510,406	1917.....	2,433,888	8,235,710
1868.....	49,286	176,020	1893.....	1,093,980	2,930,304	1918.....	2,568,589	11,494,681
1869.....	40,098	143,208	1894.....	1,112,028	2,980,254	*1919.....	2,649,516	13,512,532
1870.....	33,424	119,372	1895.....	1,058,045	2,834,049	*1920.....	3,095,611	18,105,814
1871.....			1896.....	1,003,769	2,688,664	*1921.....	2,890,291	15,676,774
1872.....	106,274	593,836	1897.....	1,019,399	2,730,510	*1922.....	2,927,033	14,622,317
1873.....			1898.....	1,263,680	3,384,838	*1923.....	2,823,306	13,813,520
1874.....	90,788	243,183	1899.....	1,431,101	3,833,307	*1924.....	2,193,667	10,601,998
1875.....	109,361	292,842	1900.....	1,791,833	4,799,533	*1925.....	2,742,252	11,720,373
1876.....	157,007	420,555	1901.....	1,919,488	5,141,487	*1926.....	2,673,719	10,612,915
1877.....	156,455	419,076	1902.....	1,808,441	4,844,040	*1927.....	2,746,243	10,934,777
1878.....	213,750	572,544	1903.....	1,676,591	4,490,844	*1928.....	2,804,594	11,094,353
1879.....	269,277	697,170	1904.....	1,862,625	4,989,174	*1929.....	2,490,378	10,100,789
1880.....	305,045	817,080	1905.....	1,945,452	5,211,030	*1930.....	2,083,818	8,421,572
1881.....	257,056	688,542	1906.....	2,146,262	5,748,915	*1931.....	1,876,406	7,159,996
1882.....	323,201	865,716	1907.....	2,364,898	7,399,306	*1932.....	1,681,490	6,392,801
1883.....	240,075	643,059	1908.....	2,333,708	7,292,838	*1933.....	1,392,272	5,306,287
1884.....	441,130	1,181,598	1909.....	2,606,127	8,144,147	*1934.....	1,485,969	5,351,108
1885.....	372,987	999,072	1910.....	3,330,745	10,408,583	*1935.....	1,331,285	5,043,510
1886.....	375,415	1,005,576	1911.....	2,542,532	7,945,413	*1936.....	1,489,171	5,493,425
1887.....	486,142	1,302,165	1912.....	3,208,997	10,028,116	*1937.....	1,598,843	5,861,849
1888.....	539,467	1,445,001	1913.....	2,714,420	8,482,562	*1938.....	1,440,287	5,237,077
1889.....	636,439	1,704,747	1914.....	2,239,799	6,399,373			
1890.....	767,586	2,056,035	1915.....	2,063,613	6,455,041			
						Total.....	104,810,311	375,490,873

* The tonnage shown for 1919-1938 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 136.—Output of Coal from British Columbia Mines, by Months, 1934-1938
(Short tons)

Month	1934	1935	1936	1937	1938
January.....	146,786	142,181	127,373	135,718	139,025
February.....	116,436	107,148	140,327	133,276	135,047
March.....	111,838	100,201	125,886	149,918	129,001
April.....	108,813	111,747	126,856	136,833	114,465
May.....	107,535	103,949	118,952	114,070	104,929
June.....	107,878	93,030	123,484	130,399	103,215
July.....	114,761	96,467	118,676	126,091	96,363
August.....	133,790	92,275	117,328	130,043	118,351
September.....	112,460	101,537	115,084	140,513	118,283
October.....	148,281	124,526	129,532	145,307	121,263
November.....	131,469	132,210	120,208	123,123	127,135
December.....	145,922	126,016	125,465	133,552	133,210
Total.....	1,485,969	1,331,287	1,489,171	1,598,843	1,440,287

Table 137.—Output of Coal by Districts in British Columbia, 1934-1938
(Short tons)

District	1934	1935	1936	1937	1938
Crow's Nest Pass.....	676,858	457,149	514,161	494,963	482,417
Inland.....	166,500	169,409	182,982	190,650	216,311
Island.....	642,611	704,729	792,028	913,230	741,559
Total.....	1,485,969	1,331,287	1,489,171	1,598,843	1,440,287

Table 138.—Output of Coal by Principal Collieries in British Columbia, 1936-1938
(Average of 500 tons or over per month)
(Short tons)

Name	Address	1936	1937	1938
Crow's Nest Pass District—				
Crow's Nest Pass Coal Co., Ltd.....	Fernie.....	514,161	494,963	482,417
Total.....		514,161	494,963	482,417
INLAND DISTRICT—				
Bulkley Valley Colliery.....	Telkwa.....	5,899	4,832	4,222
Coalmont Collieries, Ltd.....	Coalmont.....	104,942	105,433	89,394
Granby Cons. M.S. & P. Co., Ltd. (formerly Black Diamond Collieries, Ltd.).....	Princeton.....	1,298	22,480	74,164
Middlesboro Collieries, Ltd.....	Merritt.....	28,517	28,309	28,780
Pleasant Valley Mining Co., Ltd.....	Princeton.....	7,202	5,255	
Princeton Tulameen Coal Co. Ltd. (formerly Tulameen Valley Coal Co. and Lind Coal Mine).....	Princeton.....	899	14,753	18,513
Tulameen Collieries, Ltd.....	Princeton.....	12,362	1,724	
Wilson Mining and Investment Co. Ltd. (formerly Blue Flame Coal Co.).....	Vancouver.....	21,576	6,730	
All other operators.....		287	1,134	1,238
Total.....		182,982	190,650	216,311
ISLAND DISTRICT—				
Heban, Frank, Lumber Co. Ltd.....	Nanaimo.....		9,316	6,737
Canadian Collieries (Dunsmuir) Ltd.....	Nanaimo.....	266,201	469,791	429,162
Lantzville Collieries Ltd.....	Lantzville.....	8,333	6,351	5,237
Western Fuel Corporation of Canada, Ltd.....	Nanaimo.....	511,880	421,319	292,445
All other operators.....		5,564	6,453	7,978
Total.....		792,028	913,230	741,559
Total British Columbia.....		1,489,171	1,598,843	1,440,287

Table 139.—Tonnage Lost in British Columbia Mines, Showing, by Districts, the Relative Percentage Produced and Lost, with an Analysis of the Percentage Lost, 1937 and 1938

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.....	1937	71	29		26.5			2.5
	1938	69	31		29.9		1.1	
Inland.....	1937	84	16		15.3	0.5		0.2
	1938	79	21		21.0			
Island.....	1937	89	11	0.5	10.4		0.1	
	1938	76	24	0.3	23.6			0.1
British Columbia.....	1937	82	18	0.2	16.8	0.1		0.9
	1938	74	26	0.1	25.5		0.3	0.1

Table 140.—Disposition of Coal from British Columbia Mines, by Grades, 1937 and 1938

(Short tons)

Description	1937		1938					
	Total		Run-of-mine	Lump	Nut and other grades	Slack	Total	
	Quantity	Value					Quantity	Value
		\$						\$
Supplied to employees for domestic consumption.....	20,165	62,296	3,024	13,969	1,290		18,283	56,637
Shipped as per Table 141.....	1,246,544	5,215,570	279,024	400,594	335,205	172,604	1,187,427	4,831,337
Used under colliery boilers, etc.....	98,030	246,582	14,975	6	2,555	61,017	78,553	199,225
Used by companies' railroads.....	4,157	21,017		3,214	419		3,633	18,131
Used in making coke at colliery.....	75,750	157,845				86,615	86,615	213,435
Put on bank.....	89,395	404,184	4,845	18,102	19,311	18,963	61,221	209,462
Put on waste heap.....	119,859						79,830	
Total disposition.....	1,653,900	6,107,494	301,868	435,885	358,780	339,199	1,515,562	5,528,227
Lifted from bank.....	54,985	243,645	4,746	28,128	23,074	16,594	72,512	291,150
Lifted from waste heap.....	72						2,733	
Total output.....	1,598,843	5,863,849	297,122	407,757	335,706	322,695	1,440,287	5,237,077

Table 141.—Shipments of Coal from British Columbia Mines, by Grades and Destination, 1937 and 1938

(Short tons)

Destination	1937					1938				
	Run-of-mine	Lump	Nut and other grades	Slack	Total	Run-of-mine	Lump	Nut and other grades	Slack	Total
British Columbia.....	38,420	186,385	203,720	81,825	510,350	31,449	155,726	228,915	79,665	495,745
Alberta.....	964		635	9,785	11,384	349		895	6,004	7,048
Saskatchewan.....	3,935	415	2,307	3,067	9,814	2,019	206	2,563	2,557	7,345
Manitoba.....	6,354	1,239	20,291	31,526	59,410	1,807	456	15,591	41,600	59,454
Ontario.....	177	466		20,098	20,741	199	173			372
United States.....	46	13,359	26,902	37,910	78,217	990	15,005	23,068	42,549	81,612
Alaska.....		13,123	157		13,280		12,391	452		12,843
Railroads for locomotive use—										
(a) In Canada.....	223,811	118,099	9,630	3,543	355,083	234,246	115,319	11,977	239	361,781
(b) In the United States.....	8,428	140	274	29	8,871	7,965				7,965
Bunker.....		121,827	57,494	73	179,394		101,318	51,944		153,262
Total.....	282,135	455,053	321,506	187,856	1,246,544	279,024	400,594	335,205	172,604	1,187,427

Table 142.—Exports of Canadian Coal through British Columbia Ports, 1934-1938
(Short tons)

Port	1934	1935	1936	1937	1938
Abbotsford.....					
Cranbrook.....	36,214	47,696	71,798	95,109	85,185
Fernie.....	4,025	10,232	2,280	5	
Grand Forks.....					
Nanaimo.....	46,322	59,692	52,767	50,386	53,244
Nelson.....			1	20	7
New Westminster.....	105	109	41	17	3
Penticton.....	40	60	52	67	107
Prince Rupert.....	96	16	87	35	46
Vancouver.....	615				
Victoria.....			410		
Total.....	87,417	117,597	127,436	145,639	138,592

Table 143.—*Imports into British Columbia of Anthracite, Bituminous and Lignite Coal, by Ports of Entry, 1937 and 1938
(Short tons)

Port	Source	1937				1938						
		Anthracite	Bituminous, all grades	Lignite	Total	Anthracite			Total	Bituminous, all grades	Lignite	Total
						Grate, egg, stove, nut, d'bles, cobbles and trebles	Screenings or dust	Peas, beans and smaller sizes, n.o.p.				
Abbotsford.....	U.S.....											
Cranbrook.....	U.S.....			15	15	5			5		120	125
Fernie.....	U.S.....											
Grand Forks.....	U.S.....											
Greenwood.....	U.S.....											
Nanaimo.....	U.S.....		60		60					30		30
Nelson.....	U.S.....		205	161	366					114	52	166
New Westminster.....	U.S.....	61	153	206	450	30			30	69	243	342
	G.B.....											
Penticton.....	U.S.....											
Prince Rupert.....	U.S.....		112		112					118		118
Revelstoke.....	U.S.....		89		89					30		30
Vancouver.....	U.S.....		1,647	835	2,482	245			245	1,631	2,202	4,078
	G.B.....									57		57
	Ger.....											
	many.....											
	Japan.....									417		417
Victoria.....	U.S.....		181		181					209		209
	G.B.....											
Total.....	U.S.....	61	2,477	1,217	3,755	280			280	2,301	2,617	5,094
	G.B.....									57		57
	Ger.....											
	many.....											
	Japan.....									417		417
Grand total.....		61	2,477	1,217	3,755	280			280	2,675	2,617	5,572

*The total tonnage received at British Columbia ports of entry. See page 4, section 2, for explanation.

Table 144.—Summary Statistics for British Columbia in 1938—Output, Exports, Inter-provincial Shipments, Imports and Coal made Available for Consumption, by Months and by Kinds

(Short tons)

Month	Canadian coal				Im-ported from U.S.A.	Im-ported from Great Britain	Im-ported from Japan	Coal available for consumption
	Output	Re-ceived from other provinces	Shipped to other provinces	Ex-ported				
January—								
Anthracite					30			30
Bituminous	139,025	9,976	4,507	11,365	166		417	133,712
Sub-bituminous		5,562						5,562
Lignite		8,089		715	425			7,799
Total	139,025	23,627	4,507	12,080	621		417	147,103
February—								
Bituminous	135,047	9,955	5,172	12,837	299			127,292
Sub-bituminous		3,805						3,805
Lignite		5,105		471	199			4,833
Total	135,047	18,865	5,172	13,308	498			135,930
March—								
Anthracite								
Bituminous	129,001	11,813	4,874	16,624	94			119,410
Sub-bituminous		1,727						1,727
Lignite		2,353		207	218			2,364
Total	129,001	15,893	4,874	16,831	312			123,501
April—								
Anthracite								
Bituminous	114,465	9,973	5,906	7,181	75			111,426
Sub-bituminous		598						598
Lignite		1,703		81	82			1,704
Total	114,465	12,274	5,906	7,262	157			113,728
May—								
Anthracite								
Bituminous	104,929	9,041	6,550	6,096	139			101,403
Sub-bituminous		661						661
Lignite		1,530		32	12			1,510
Total	104,929	11,232	6,550	6,128	151			103,634
June—								
Anthracite					5			5
Bituminous	103,215	9,509	6,071	7,322	132			99,463
Sub-bituminous		254						254
Lignite		642			61			703
Total	103,215	10,405	6,071	7,322	198			100,425
July—								
Anthracite								
Bituminous	96,363	10,059	4,368	4,196	136			97,994
Sub-bituminous		1,124						1,124
Lignite		620			112			732
Total	96,363	11,803	4,368	4,196	248			99,850
August—								
Anthracite								
Bituminous	118,351	11,926	6,565	13,087	260			110,885
Sub-bituminous		1,835						1,835
Lignite		4,975		32	13			4,956
Total	118,351	18,736	6,565	13,119	273			117,076
September—								
Anthracite								
Bituminous	118,283	11,392	7,160	12,067	127			110,575
Sub-bituminous		3,053						3,053
Lignite		8,047		340	76			8,383
Total	118,283	23,092	7,160	12,407	203			122,011
October—								
Anthracite								
Bituminous	121,263	13,430	7,433	12,416	130			114,974
Sub-bituminous		4,712						4,712
Lignite		11,491		395	242			11,339
Total	121,263	29,633	7,433	12,811	372			131,024

Table 144.—Summary Statistics for British Columbia in 1938—Output, Exports, Inter-provincial Shipments, Imports and Coal made Available for Consumption, by Months and by Kinds—Concluded

(Short tons)

Month	Canadian coal				Im-ported from U.S.A.	Im-ported from Great Britain	Im-ported from Japan	Coal available for con-sumption
	Output	Re-ceived from other provinces	Shipped to other provinces	Ex-ported				
November—								
Anthracite.....	127,135	14,707	8,133	20,466	159	57		113,459
Bituminous.....		6,097						6,697
Sub-bituminous.....		11,878		717	307			11,468
Lignite.....								
Total.....	127,135	33,282	8,133	21,183	466	57		131,624
December—								
Anthracite.....	133,210	14,709	7,480	11,155	245			245
Bituminous.....		6,612			484			129,768
Sub-bituminous.....		8,270		790	870			6,612
Lignite.....								8,350
Total.....	133,210	29,591	7,480	11,945	1,599			144,975
Total—								
Anthracite.....					250			250
Bituminous.....	1,440,287	136,490	74,219	134,812	2,201	57	417	1,370,421
Sub-bituminous.....		36,640						36,640
Lignite.....		65,363		3,780	2,617			64,140
Total.....	1,440,287	238,433	74,219	138,592	5,098	57	417	1,471,481

Table 145.—Employees, Salaries and Wages in the Coal Mines of British Columbia, by Districts, 1937 and 1938

District	Average number of employees					Salaries and wages		
	Salaried employees		Wage-earners		Total	Salaries	Wages	Total
	Male	Female	Surface	Under-ground				
1937						\$	\$	\$
Crow's Nest Pass.....	17	1	134	439	591	63,902	760,388	824,290
Inland.....	20	3	142	257	423	51,933	452,861	504,794
Island.....	105	9	604	1,297	2,015	259,093	2,355,378	2,614,471
British Columbia.....	148	13	880	1,993	3,031	374,928	3,568,627	3,943,555
1938								
Crow's Nest Pass.....	37	1	166	449	653	118,038	774,385	892,423
Inland.....	21	1	150	258	430	52,718	444,958	497,676
Island.....	109	8	596	1,214	1,927	276,732	1,870,123	2,146,855
British Columbia.....	167	10	912	1,921	3,010	447,488	3,089,466	3,536,954

Table 146.—Employment and Earnings in the Coal Mines of British Columbia, 1934-1938

	1934	1935	1936	1937	1938
Average number of wage-earners—					
Surface.....	890	786	830	880	912
Underground.....	1,959	1,745	1,809	1,993	1,921
Total.....	2,849	2,531	2,639	2,873	2,833
Days' work done—					
Surface.....	211,853	197,095	224,155	239,043	226,041
Underground.....	407,048	411,929	461,883	502,303	421,645
Total.....	618,901	609,024	686,038	741,346	647,686
Average number of days worked per man per year—					
Surface.....	236	251	270	272	248
Underground.....	208	236	255	252	219
By all wage-earners.....	217	241	260	258	229
Total wages paid.....	\$ 2,900,190	\$ 2,813,429	\$3,173,091	\$ 3,568,627	\$ 3,089,466

Table 147.—Wage-Earners Employed, and Work Done by Months in the Coal Mines of British Columbia in 1938

Month	Number of wage-earners			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
January.....	964	2,137	3,101	20,871	42,886	63,757
February.....	935	2,120	3,055	19,296	40,615	59,911
March.....	898	2,010	2,908	18,806	37,248	56,054
April.....	873	1,869	2,742	17,349	33,129	50,478
May.....	893	1,858	2,751	16,976	29,866	46,842
June.....	883	1,860	2,743	16,578	20,419	45,997
July.....	882	1,672	2,554	16,480	28,351	44,831
August.....	892	1,818	2,710	18,779	32,253	51,032
September.....	919	1,838	2,757	18,715	33,072	51,787
October.....	945	1,893	2,838	20,066	35,882	55,948
November.....	923	1,823	2,746	20,751	38,610	59,361
December.....	931	1,952	2,883	21,374	40,314	61,688
Total.....				226,041	421,645	647,686

Table 148.—Number of Man-Days Worked in British Columbia, by Districts, 1937 and 1938

District	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
Crow's Nest Pass.....	29,147	96,147	125,294	35,826	96,591	132,417
Inland.....	41,838	53,752	95,590	41,024	56,620	97,644
Island.....	168,058	347,404	515,462	140,191	268,434	417,625
Total.....	239,043	602,303	741,346	226,041	421,645	647,686

Table 149.—Wage-Earners in the Coal Mines of British Columbia, by Classes, 1937 and 1938

Classification	1937			1938		
	Surface	Under-ground	Total	Surface	Under-ground	Total
Administration.....	11		11	14		14
Foremen and officials.....	32	83	115	33	83	116
Clerks.....	31		31	27		27
Screenmen and loaders.....	139		139	148		148
Hand cutters and helpers.....		411	411		418	418
Machine cutters and helpers.....		208	208		156	156
Machine loaders and helpers.....		347	347		368	368
Horse haulage employees.....	3	149	152	2	139	141
Mechanical haulage employees.....	12	281	293	15	277	292
Ventilation employees.....		27	27		42	42
Roadmakers.....		32	32	1	30	31
Timbermen.....	3	99	102	5	108	113
Pumpmen.....		5	5		2	2
Chute loaders.....		32	32		31	31
Enginemen.....	61		61	57		57
Firemen.....	28		28	31		31
Machinists.....	42	6	48	43	6	49
Carpenters and masons.....	44		44	46		46
Other mechanics.....	100	104	204	121	98	219
All other white employees.....	262	209	471	262	163	425
Japanese.....	3		3	3		3
Chinese.....	109		109	104		104
Indians.....						
Total.....	880	1,993	2,873	912	1,921	2,833

Table 150.—Capital Employed in the Coal Mines of British Columbia, 1937 and 1938

	1937	1938
	\$	\$
Capital employed as represented by—		
Cost of lands, buildings, machinery and tools.....	22,566,174	23,146,576
Cost of supplies and stock on hand.....	553,593	466,636
Cash, trading and operating accounts and bills receivable.....	1,929,006	1,923,352
Total.....	25,048,772	25,536,564

CHAPTER ELEVEN

YUKON

The Yukon coal production in 1938 amounted to 361 tons; in the previous year, 84 tons were produced. The output during these two years was obtained from the Tantalus Butte mine. Twenty-six tons of bituminous coal were imported in 1938 through the customs ports of Dawson and White Horse.

Table 151.—Output of Coal from Yukon Mines, 1901-1938
(Short tons)

Calendar year	Short tons	Value	Calendar year	Short tons	Value	Calendar year	Short tons	Value
1901.....	(a) 5,864	\$ 86,230	1915.....	9,724	\$ 28,896	*1928.....	414	\$ 2,915
1902.....	4,910	37,280	1916.....	3,300	13,200	*1929.....	458	1,848
1903.....	1,849	29,584	1917.....	4,872	129,232	*1930.....	653	3,110
1904.....			1918.....	2,900	11,600	*1931.....	904	5,039
1905.....	7,000	21,000	*1919.....			*1932.....	808	3,491
1906.....	7,000	28,000	*1920.....			*1933.....	862	3,670
1907.....	15,000	60,000	*1921.....	233	2,472	*1934.....	638	2,217
1908.....	3,847	21,158	*1922.....	465	4,650	*1935.....	835	2,483
1909.....	7,364	49,502	*1923.....	313	1,485	*1936.....	510	2,206
1910.....	16,185	110,925	*1924.....	1,121	8,265	*1937.....	84	812
1911.....	2,840	12,780	*1925.....	730	7,147	*1938.....	361	3,400
1912.....	9,245	44,958	*1926.....	316	600			
1913.....	19,722	95,945	*1927.....	414	2,052	Total.....	145,184	863,192
1914.....	13,443	53,760						

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

*Value not reported, but estimated.

*For the years 1919-1938 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 152.—Disposition of Coal Output from Yukon Mines, by Grades, 1937 and 1938
(Short tons)

	1937					1938				
	Run of mine	Nut and other grades	Slack	Total		Run of mine	Screened	Slack	Total	
				Quantity	Value				Quantity	Value
Supplied to employees for domestic consumption.....			2	2	\$ 6					
Shipped (all to Yukon points).....		25		25	250	107	254		361	3,400
Used under colliery boilers, etc.....			2	2	6					
Put on bank.....		55		55	550					
Put on waste heap.....										
Total disposition.....		80	4	84	812	107	254		361	3,400
Lifted from bank.....										
Total output.....		80	4	84	812	107	254		361	3,400

Table 153.—Imports of Bituminous Coal into Yukon and Exports of Canadian Coal through Yukon Ports, 1934-1938
(Short tons)

	1934	1935	1936	1937	1938
IMPORTS—					
Dawson.....	30	20	37	35	10
White Horse.....	7		24	28	16
Total.....	37	20	61	63	26
EXPORTS—					
Dawson.....			1		
White Horse.....	16	28			
Total.....	16	28	1		

Table 154.—Summary Statistics for 1938—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.....	107				8	115
April—						
Bituminous.....	60					60
May—						
Bituminous.....	70					70
June—						
Bituminous.....	65					65
July—						
Bituminous.....	59				10	69
August—						
Bituminous.....						
September—						
Bituminous.....						
October—						
Bituminous.....					8	8
Total—Bituminous.....	361				26	387

Table 155.—Employment and Earnings in the Coal Mines of Yukon, 1934-1938

	1934	1935	1936	1937	1938
Average number of wage-earners—					
Surface.....	1	1	1		
Underground.....	2	2	2	2	2
Total.....	3	3	3	2	2
Days' work done—					
Surface.....	71	50	44		
Underground.....	142	100	88	20	86
Total.....	213	150	132	20	86
Average number of days worked per man per year—					
Surface.....	71	50	44		
Underground.....	71	50	44	10	43
By all wage-earners.....	71	50	44	10	43
Total wages paid.....	\$ 1,500	\$ 1,050	\$ 1,439	\$ 160	\$ 690

Table 156.—Wage-Earners Employed and Work Done by Months in Yukon Coal Mines in 1938

Month	Number of employees			Days' work done		
	Surface	Under-ground	Total	Surface	Under-ground	Total
March.....		2	2		26	26
April.....		2	2		14	14
May.....		2	2		16	16
June.....		2	2		16	16
July.....		2	2		14	14
Total.....					86	86

Table 157.—Capital Employed in the Coal Mines of Yukon, 1937 and 1938

	1937	1938
Capital employed as represented by—	\$	\$
Cost of lands, buildings, machinery and tools.....	203,000	203,000
Cost of supplies and stock on hand.....	250	250
Cash, trading and operating accounts and bills receivable.....		
Total.....	203,250	203,250

CHAPTER TWELVE

WORLD PRODUCTION OF COAL

The world output of coal in 1938 was estimated at 1,420,000,000 long tons; in the preceding year 1,510,000,000 long tons were produced.

A 5.6 per cent decline was recorded in Great Britain's output; the 1938 total was 227,015,308 long tons compared with 240,409,436 long tons in 1937. The United States production decreased 21.4 per cent to 348,864,846 long tons. Germany's output of 375,137,201 long tons was 3.2 per cent above the 1937 total. Russia produced 130,300,000 long tons as against 120,643,000 long tons in the previous year. The French coal production was 4.9 per cent above the 1937 level. Czechoslovakian mines produced 26,200,000 long tons as against 34,125,268 long tons in 1937. The Canadian output was 9.7 per cent lower at 12,763,141 long tons.

Table 158.—World Production of Coal* 1934-1938

(Including brown coal)

(Long tons)

Country	1934	1935	1936	1937	1938
BRITISH EMPIRE					
Great Britain—					
Anthracite.....	7,126,733	6,798,415	6,525,225	6,335,776	6,278,140
Bituminous.....	213,600,955	215,453,637	221,923,131	234,073,660	220,737,168
Northern Ireland.....			5,256	1,203	350
Eire—					
Anthracite.....	89,731	85,738	95,214	104,966	90,701
Semi-bituminous.....	21,343	26,985	29,509	20,958	27,751
Nigeria.....	259,754	267,819	291,651	363,181	362,516
Southern Rhodesia.....	632,790	683,654	693,947	1,013,086	1,027,342
Union of South Africa.....	12,002,100	13,359,509	14,607,313	15,246,129	16,026,987
Canada—					
Bituminous.....	8,981,055	8,704,322	9,639,406	10,387,838	9,223,020
Sub-bituminous.....	479,918	505,737	505,567	452,018	436,531
Lignite.....	2,869,556	3,189,946	3,452,511	3,299,388	3,103,590
British Borneo—					
Brunei.....	†	838	184	444	464
State of North Borneo.....	28				
Federated Malay States.....	321,461	377,441	502,823	627,890	477,908
India—					
Gondwana Coalfields.....	21,691,404	22,607,552	22,212,457	24,571,343	27,823,951
Tertiary Coalfields.....	366,043	409,143	398,364	465,043	518,955
Used by miners.....	551,000	575,000	565,000	626,000	†
Australia—					
Bituminous.....	9,800,672	10,887,954	11,370,409	12,074,274	11,680,159
Lignite.....	2,617,534	2,221,515	3,044,897	3,393,919	3,675,450
New Zealand—					
Bituminous.....	831,702	825,227	858,857	969,984	977,850
Brown coal.....	1,103,968	1,170,805	1,150,071	1,186,320	1,112,414
Lignite.....	124,645	119,152	131,289	121,495	131,824
Total British Empire.....	283,000,000	288,000,000	298,000,000	315,000,000	304,000,000
FOREIGN COUNTRIES					
Albania—					
Lignite.....		2,000	3,000	4,000	4,000
Austria—					
Bituminous.....	246,861	256,484	240,480	226,584	222,000
Brown coal.....	2,805,905	2,923,765	2,851,446	3,190,571	3,477,000
Belgium—					
Anthracite and semi-anthracite.....	5,731,792	5,158,236	5,981,898	6,588,307	29,106,820
Bituminous.....	20,240,618	20,929,493	21,445,076	22,799,348	
Bulgaria—					
Anthracite.....	6,812	2,188	2,286	2,502	3,937
Bituminous.....	70,731	89,318	98,379	116,021	136,041
Lignite.....	1,543,192	1,541,239	1,551,206	1,704,763	1,825,898
Czechoslovakia—					
Bituminous.....	10,518,684	10,722,420	12,039,975	16,512,541	13,300,000
Brown coal.....	14,932,486	14,874,878	15,696,878	17,612,727	12,900,000
France—					
Saar.....	11,138,953	(d) 1,673,228			
Other districts—					
Anthracite and bituminous (a).....	48,879,876	45,482,687	44,513,214	43,618,141	45,762,612
Lignite.....	1,009,284	892,409	928,333	999,522	1,040,552
Germany—(e)					
Bituminous.....	122,884,578	140,744,275	155,782,899	181,598,670	183,238,362
Brown coal.....	135,105,863	144,748,744	158,847,655	181,791,547	191,898,839
Greece—					
Lignite.....	102,547	91,163	103,983	129,013	†
Hungary—					
Bituminous.....	744,316	809,825	813,783	902,545	9,211,880
Brown coal.....	5,661,394	6,146,993	6,501,139	7,927,904	
Lignite.....	420,101	404,588	491,652		
Lignite (dehydrated).....	113,526	118,992	122,277	140,919	

Table 158.—World Production of Coal* 1934-1938—Concluded
(Including brown coal)
(Long tons)

Country	1934	1935	1936	1937	1938
Italy—					
Anthracite.....	63,212	69,042	78,709	93,559	130,109
Bituminous.....	284,461	366,477	714,696	855,654	2,185,904
Brown coal.....	402,162	536,867	756,425	1,042,502	
Jugoslavia—					
Bituminous.....	381,099	393,624	434,384	432,405	4,401,672
Brown coal.....	2,944,406	3,034,480	3,017,941	3,475,749	1,249,478
Lignite.....	921,391	936,659	952,916	1,046,889	
Netherlands—					
Bituminous.....	12,145,975	11,690,250	12,600,340	14,095,084	13,274,508
Brown coal.....	91,032	84,843	87,377	140,798	167,942
Poland—					
Bituminous.....	28,771,390	28,091,945	29,278,040	35,646,160	37,502,220
Brown coal.....	25,986	18,170	13,305	18,616	9,376
Portugal—					
Anthracite.....	195,906	202,139	204,450	228,260	277,290
Bituminous.....	3,652	5,390	8,165	17,168	16,581
Brown coal.....	14,835	19,476	20,395	22,439	14,619
Roumania—					
Anthracite.....	17,726	16,935	3,649	3,588	8,214
Bituminous.....	207,004	256,962	284,299	294,657	289,727
Brown coal.....		1,478,848	1,482,615	1,616,921	1,792,262
Lignite.....	1,598,211	161,589	162,805	233,856	270,006
Russia—					
Anthracite.....		25,147,000	27,703,000	120,643,000	130,300,000
Bituminous.....	92,456,000	68,589,000	78,974,000		
Lignite.....		13,602,000	17,333,000		
Spain—					
Anthracite.....	634,440	690,000	†	†	†
Bituminous.....	5,203,891	6,214,994	†	†	†
Brown coal.....	293,926	299,028	†	†	†
Spitzbergen and Bear Island.....	524,393	697,607	771,442	754,035	616,623
Sweden.....	408,668	410,813	448,647	453,193	424,222
Switzerland (b).....	3,000	4,000	3,000	4,000	3,000
Algeria.....	33,465	37,310	6,791	13,997	12,979
Belgian Congo.....	4,622	11,136	13,682	35,917	40,618
Morocco (French).....					
Anthracite.....	35,484	51,864	49,621	105,458	109,000
Bituminous.....	21,524	16,250	8,161	18,890	18,364
Mozambique.....	6,000	6,000	4,397	6,000	†
Greenland.....	769,803	1,124,847	1,276,000	897,629	879,035
Mexico.....					
United States—					
Anthracite.....	51,043,117	46,570,342	48,731,728	46,300,387	41,159,846
Bituminous and lignite.....	320,864,305	332,476,002	392,042,770	397,795,937	307,705,000
Brazil.....	697,071	744,998	651,738	750,742	869,000
Chile.....	1,778,979	1,869,929	1,845,104	1,969,384	2,028,852
Colombia (estimated).....	200,000	200,000	277,534	325,000	855,000
Peru—					
Anthracite.....	3,543	2,422	3,479	2,872	113,000
Bituminous.....	31,220	81,279	84,727	94,605	
Venezuela (c).....	6,000	5,000	7,000	11,737	5,601
China.....	20,568,000	12,000,000	12,000,000		
Netherlands East Indies.....	1,016,610	1,093,407	1,129,078	1,341,971	1,433,841
Formosa.....	1,355,000	1,572,000	1,716,236	†	†
French Indo-China—					
Anthracite.....	1,530,025	1,714,400	2,116,108	2,229,206	2,249,500
Bituminous.....		33,300	34,876	42,348	53,800
Brown coal.....					4,100
Lignite.....					
Japan—					
Semi-anthracite and bituminous.....	35,357,604	37,166,085	37,466,000	†	†
Brown coal.....	122,815	106,812	107,000	†	†
Karafuto.....	1,177,746	1,491,709	2,042,383	2,495,528	†
Korea—					
Anthracite.....	966,855	1,062,283	1,035,240	2,311,000	†
Lignite.....	695,122	905,296	1,210,712		
Manchuria.....	11,640,768	14,000,000	11,830,000	†	†
Philippine Islands.....	†	†	24,093	21,185	38,333
Turkey in Asia—					
Bituminous.....	2,252,129	2,303,526	2,262,345	2,270,435	2,519,000
Lignite.....	51,943	72,196	94,304	113,252	142,298
Total Foreign countries.....	980,000,000	1,020,000,000	1,120,000,000	1,200,000,000	1,120,000,000
Grand Total.....	1,260,000,000	1,310,000,000	1,420,000,000	1,510,000,000	1,420,000,000

* Data for 1934-1938 obtained from *The Mineral Industry of the British Empire and Foreign Countries*.

† Information not available.

(a) Includes about 6,000,000 tons of anthracite each year.

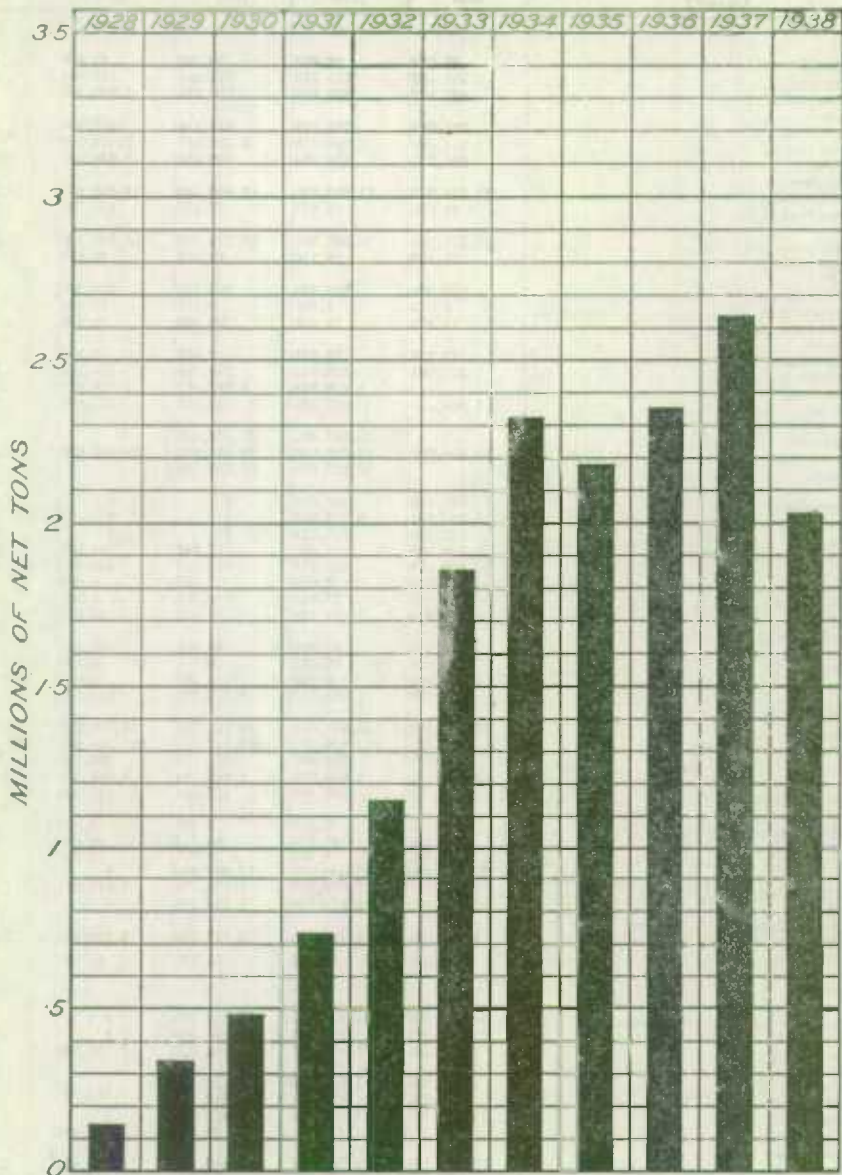
(b) United States Bureau of Mines estimate.

(c) Excluding production in government owned mines.

(d) January to February 17th, only, after which date production is included with that of Germany.

(e) Including production of Saar from February 18, 1935.

DOMINION FUEL BOARD
CANADIAN COAL MOVED UNDER ASSISTED RATES
 1928-1938
 CALENDAR YEARS



THOUSANDS OF NET TONS											
From:-	114	304	372	402	710	1,384	1,748	1,588	1,677	1,909	1,377
N.S.	—	—	—	—	1	1	10	14	21	41	32
N.B.	32	37	89	204	238	260	323	339	364	324	323
ALTA.	Nil	Nil	20	60	100	131	144	139	147	164	146
SASK.	Nil	Nil	Nil	66	99	80	98	102	143	200	153
B.C.	146	342	480	733	1,149	1,856	2,324	2,182	2,352	2,637	2,031
Total											

ALTA. INCLUDES CROWS NEST DISTRICT OF B.C.

APPENDIX ONE

LEGISLATION PROVIDING ASSISTANCE FOR THE MARKETING
OF CANADIAN COAL

COAL FOR COKE OR GAS

P.C. 944

The Committee of the Privy Council, on the recommendation of the Minister of Mines, advise, in order to encourage the greater use of Canadian coal in the manufacture of coke or gas:—

(1) That in respect of coal mined in Canada and transported to and used at any coke or gas plant in Canada during the period fixed by this Order in Council, the Minister of Mines, through the Dominion Fuel Board, be authorized to pay to coal operators, from such sums as may be provided by Parliament for the purpose, the difference in amount per net ton between the laid down cost to the coke oven proprietor or gas manufacturer, of coal mined in Canada and the laid down cost at the same plant of imported fuel that would otherwise be used, up to a maximum of \$1 per ton.

(2) That payments to coal operators shall be made only upon that quantity of Canadian coal used in the manufacture of coke or gas at the plant in excess of the average quantity of such coal used annually in such plant during the three years immediately preceding the 31st day of December, 1931. Provided that trial shipments of Canadian coal used in any plant for experimental purposes only shall not be included in computing the amount of Canadian coal used in any plant for the purposes of this section.

(3) That the said payments shall not apply on:—

(a) Coal manufactured into coke used in the smelting of metals or melting of metals.

(b) Coal upon which any subvention or reduced freight rate provided by the Government of Canada is payable under authority of Orders in Council P.C. 1300 and P.C. 1303 of May 30, 1931, or amendments thereto.

(c) Coal which was mined by coal operators from mines or properties which were brought into operation or commenced shipping coal after the 31st day of December, 1931.

(d) Coal used in any plant subject to the provisions of Chapter 52 of the Statutes of Canada, 1927.

(4) That the Minister of Mines reserves the right of refusing approval in each and every application for assistance under this authority.

(5) For the purpose of computing the amount of assistance payable under this authority the cost per ton of Canadian coal at the point of consumption and the cost per ton of imported fuel which would otherwise be used shall be determined by the Minister upon report of the Dominion Fuel Board or such other authority or person as the Minister may appoint for that purpose. The Minister or any person appointed by him for that purpose shall have free access to all works, books, plans, records or documents of any operator claiming payments under this Order in Council in so far as may be necessary for the purposes of this Order in Council.

(6) That the assistance herein authorized shall be effective from April 1, 1932.

(7) That the Dominion Fuel Board be charged with the administrative duties connected herewith and shall report annually to the Minister of Mines as to the amount paid coal operators during the period of the movement.

MARITIME COAL TO QUEBEC AND ONTARIO

P.C. 1862 (*Superseded by P.C. 2789—Nov. 8, 1938*)

The Committee of the Privy Council have had before them a Report, dated 21st July, 1936, from the Minister of Mines with reference to an Order in Council P.C. 1119 of May 28, 1934, which authorizes assistance to the movement of coal mined in Nova Scotia and shipped to consuming points in the Provinces of Quebec and Ontario.

The Committee submit that the importance of an extension of the market for Canadian coal is appreciated and that the Government is willing to facilitate this by granting financial assistance to the Canadian coal industry under conditions described hereunder.

The Committee, therefore, on the recommendation of the Minister of Mines, advise that the said Order in Council, P.C. 1119 of May 28, 1934, and amendments thereto, be hereby rescinded and that:—

(1) Movements of coal mined in the Province of Nova Scotia and shipped to points in the Provinces of Quebec and Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.

(2) With respect to coal mined in the Province of Nova Scotia and transported *wholly by rail* to points in the Province of Quebec (excluding the City of Hull, points on the Quebec and Lake St. John Railway, the Murray Bay line of the Canadian National Railway and points on the Railways East of Lévis and the Quebec terminals) for use by consumers other than the railways, the assistance granted shall be by a thirty per cent (30%) reduction of the freight rate in effect at the time of shipment, the amount of the said reduction being payable to the Railways.

(3) With respect to coal mined in the Province of Nova Scotia and transported *wholly by rail* to points in the Province of Ontario and to the City of Hull in the Province of Quebec for use by consumers other than the railways, the assistance granted shall be by the reduction of one-seventh of one cent per ton per mile from the existing rail rates; provided that the amount of said reduction shall in no instance exceed one dollar and fifty cents (\$1.50) per net ton.

(4) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to St. Lawrence ports and thence transhipped by the railways to points in the Province of Ontario and to the City of Hull in the Province of Quebec for use by consumers other than the railways, the assistance granted for such transshipments shall be by the reduction of one-third of one cent per ton per mile from the existing rail rates from the port of Montreal; provided that the amount of said reduction shall in no instance exceed one dollar and fifty cents (\$1.50) per net ton, the amount of the said reduction being payable to the railways.

(5) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to any point situated West of the Island of Montreal, the assistance granted shall be the same amount as that provided for rail movements as authorized in the preceding Section hereof; provided the amount of said assistance shall in no instance exceed one dollar and fifty cents (\$1.50) per net ton, same being paid to the coal mine operators or distributors of the said coal.

(6) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to any point situated West of the Island of Montreal under the assistance provided by Section five hereof, and thence transhipped by the Railways to points in the Province of Ontario situated West of the City of Kingston for use by consumers other than the Railways, the assistance granted shall be by the reduction of one-third of one cent per ton per mile from the existing rail rates; provided that the amount of the said reduction shall in no instance exceed one dollar per net ton and shall be payable to the Railways.

(7) With respect to coal mined in the Province of Nova Scotia and purchased by Railway companies for their own use at points in the Provinces of Quebec and Ontario, payments shall be made to the coal mine operators or coal distributors of the difference in amount per net ton between the laid down cost to the railways of coal mined in the Province of Nova Scotia and the laid down cost at the same points of imported coal that would otherwise be used up to a maximum of two dollars per net ton; provided that:

(a) for the purpose of this Order in Council, the said difference of laid down costs shall be determined by the Dominion Fuel Board.

(8) The assistance shall apply only on shipments of coal from coal mines or coal properties which were operating under legal permit and shipping coal prior to December 31, 1930.

(9) The assistance shall not apply on shipments of less than carload lots.

(10) The assistance shall not be granted to those participating 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 the railways in connection with this movement and may make such examination thereof as shall be considered necessary or expedient.

(11) The Minister of Mines be given the right to refuse approval in each and every application for assistance under this authority.

(12) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines as to the amounts paid under this Order in Council each year during the said period.

(13) With respect to acceptances issued by the Dominion Fuel Board under authority of Order in Council P.C. 1119 of May 28, 1934, which are still in effect, shipments shall be continued under the authority of these acceptances for a period of sixty days from the date of this Order in Council.

P.C. 2789 Superseded by P.C. 3969—Dec. 5, 1939

The Committee of the Privy Council have had before them a report, dated 4th November, 1938, from the Minister of Mines and Resources referring to Order in Council, P.C. 1862, of the 4th day of August, 1936, which authorizes assistance to the movement of coal mined in the Province of Nova Scotia and shipped to consuming points in the Provinces of Quebec and Ontario.

The Government realizing the importance of extending the markets for Canadian coal, particularly in the Province of Ontario, is willing to increase the present rates of subvention authorized in the above mentioned Order in Council, P.C. 1862 on movements of Nova Scotia coal to the Province of Ontario, under conditions described hereunder:—

The Committee, therefore, on the recommendation of the Minister of Mines and Resources, advise that the said Order in Council, P.C. 1862 of August 4th, 1936, be hereby rescinded and that:—

(1) Movements of coal mined in the Province of Nova Scotia and shipped to points in the Province of Quebec and Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.

(2) With respect to coal mined in the Province of Nova Scotia and transported wholly by rail to points in the Province of Quebec, (excluding the City of Hull, points on the Quebec and Lake St. John Railway, the Murray Bay line of the Canadian National Railway and points on the Railways East of Levis and the Quebec terminals) for use by consumers other than the railways, the assistance granted shall be by a thirty percent (30%) reduction of the freight rate in effect at the time of shipment, the amount of the said reduction being payable to the Railways.

(3) With respect to coal mined in the Province of Nova Scotia and transported wholly by rail to points in the Province of Ontario and to the City of Hull in the Province of Quebec for use by consumers other than the railways, the assistance granted shall be by the reduction of one-seventh of one cent per ton per mile from the existing rail rates; provided that the amount of said reduction shall in no instance exceed two dollars (\$2.00) per net ton, the amount of the said reduction being payable to the Railways.

(4) With respect to coal mined in the Province of Nova Scotia and carried by water transportation to St. Lawrence ports and thence transhipped by the railways to points in the Province of Ontario and to the City of Hull in the Province of Quebec for use by consumers other than the railways, the assistance granted for such transshipments shall be by the reduction of 4.5 mills per ton per mile from the existing rail rates from the port of Montreal; provided that the amount of the said reduction shall in no instance exceed two dollars (\$2.00) per net ton, the amount of the said reduction being payable to the Railways.

(5) With respect to coal mined in the Province of Nova Scotia and carried by water transportation to any point situated West of the Island of Montreal, the assistance granted shall be the same amount as that provided for rail movements as authorized in the preceding section (4) hereof; provided the amount of the said assistance shall in no instance exceed two dollars (\$2.00) per net ton, same being paid to the coal mine operators or distributors of the said coal.

(6) With respect to coal mined in the Province of Nova Scotia and carried by water transportation to any points situated West of the Island of Montreal under the assistance provided by Section (5) hereof, and thence transhipped by the railways to points in the Province of Ontario situated West of the City of Kingston for use by consumers other than the railways, the assistance granted shall be by the reduction of 4.5 mills per ton per mile from the existing rail rates; provided that the amount of the said reduction shall in no instance exceed one dollar (\$1.00) per net ton and shall be payable to the Railways.

(7) With respect to coal mined in the Province of Nova Scotia and purchased by Railway companies for their own use at points in the Provinces of Quebec and Ontario, payments may be made to the coal mine operators or coal distributors of the difference in amount per net ton between the laid down cost to the Railways of coal mined in the Province of Nova Scotia and the laid down cost at the same points of imported coal that would otherwise be used, up to a maximum of two dollars and fifty cents (\$2.50) per net ton; provided that:

(a) for the purpose of this Order in Council, the said difference of laid down costs shall be determined by the Dominion Fuel Board.

(8) The assistance shall apply only on shipments of coal from coal mines or coal properties which were operating under legal permit and shipping coal prior to December 31, 1930.

(9) The assistance shall not apply on shipments of less than carload lots.

(10) The assistance shall not be granted to those otherwise eligible to participate who refuse or fail to furnish such information as the Minister of Mines and Resources may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines and Resources 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 the railways in connection with this movement and may make such examination thereof as shall be considered necessary or expedient.

(11) The Minister of Mines and Resources be given the right to refuse approval in each and every application for assistance under this authority.

(12) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines and Resources as to the amounts paid under this Order in Council each year during the said period.

(13) With respect to acceptances issued by the Dominion Fuel Board under authority of Order in Council P.C. 1862 of August 4, 1935, which are still in effect, shipments shall be continued under the authority of these acceptances for a period of thirty days from the date of this Order in Council.

NOVA SCOTIA COAL TO QUEBEC AND ONTARIO

P.C. 1166 (*Superseded by P.C. 3969—Dec. 5, 1939*)

The Committee of the Privy Council have had before them a report, dated May 4, 1939, from the Minister of Mines and Resources, referring to an Order in Council, P.C. 2789 of November 8, 1938, which provides assistance to coal mined in the Province of Nova Scotia and shipped to points in the Provinces of Quebec and Ontario.

Sections (4) and (6) of the said Order-in-Council read as follows:—

- (4) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to St. Lawrence ports and thence transhipped by the railways to points in the Province of Ontario and to the City of Hull in the Province of Quebec for use by consumers other than the railways, the assistance granted for such transshipments shall be by the reduction of 4.5 mills per ton per mile from the existing rail rates from the port of Montreal; provided that the amount of the said reduction shall in no instance exceed two dollars (\$2.00) per net ton, the amount of the said reduction being payable to the Railways.
- (6) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to any points situated West of the Island of Montreal under the assistance provided by Section (5) hereof, and thence transhipped by the railways to points in the Province of Ontario situated West of the City of Kingston for use by consumers other than the railways, the assistance granted shall be by the reduction of 4.5 mills per ton per mile from the existing rail rates; provided that the amount of the said reduction shall in no instance exceed one dollar (\$1.00) per net ton and shall be payable to the Railways.

The Minister recommends that the provisions of the said sections (4) and (6) be rescinded and the following substituted in lieu thereof:

- (4) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to St. Lawrence ports and thence transhipped by the railways to points in the *Province of Ontario*, and to Hull, Timiskaming and Gatineau, points in the Province of Quebec, for use by consumers other than the railways, the assistance granted for such transshipments shall be by the reduction of 4.5 mills per ton per mile from the existing rail rates from the port of Montreal; provided that the amount of the said reduction shall in no instance exceed two dollars (\$2.00) per net ton, the amount of the said reduction being payable to the Railways.
- (6) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to any point situated West of the Island of Montreal under the assistance provided by section (5) hereof, and thence transhipped by the railways to points in the Province of Ontario situated West of the City of Kingston for use by consumers other than the railways, the assistance granted shall be by the reduction of 4.5 mills per ton per mile from the existing rail rates; provided that the amount of the said reduction shall in no instance exceed fifty cents (50c.) per net ton and shall be payable to the Railways.

With respect to acceptances issued by the Dominion Fuel Board under sections (4) and (6) of Order in Council P.C. 2789 of November 8, 1938, which are still in effect, shipments may be continued under the authority of these acceptances until completed.

P.C. 3969—(*December 5, 1939*)

The Committee of the Privy Council have had before them a report, dated 27th November, 1939, from the Acting Minister of Mines and Resources, with reference to an Order in Council, P.C. 2789 of the 8th day of November, 1938, which authorizes assistance to the movement of coal mined in the Province of Nova Scotia and shipped to consuming points in the Provinces of Quebec and Ontario.

The Government, realizing the necessity for the strictest economy in all matters of expenditure, proposes to reduce the present rates of assistance authorized in the above mentioned Order in Council P.C. 2789, which provides assistance for the movements of Nova Scotia coal under certain conditions.

The Committee, therefore, on the recommendation of the Acting Minister of Mines and Resources, advise that the said Order in Council P.C. 2789 of November 8, 1938, together with amendments thereto, be hereby rescinded and that:

- (1) Movements of coal mined in the Province of Nova Scotia and shipped to points in the Provinces of Quebec and Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) With respect to coal mined in the Province of Nova Scotia and transported *wholly by rail* to points in the *Province of Quebec*, (excluding the City of Hull, points on the Quebec and Lake St. John Railway, the Murray Bay line of the Canadian National Railways and points on the railways east of Levis and the Quebec Terminals) for use by consumers other than the railways, the assistance granted shall be by a thirty per cent (30%) reduction of the freight rate in effect at the time of shipment.
- (3) With respect to coal mined in the Province of Nova Scotia and transported *wholly by rail* to points in the *Province of Ontario* and to the City of Hull in the Province of Quebec, for use by consumers other than the railways, the assistance granted shall be by the reduction of one-seventh of one cent per ton per mile from the existing rail rates; provided that the amount of the said reduction shall in no instance exceed one dollar and fifty cents (\$1.50) per net ton, the amount of the said reduction being payable to the railways.
- (4) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to St. Lawrence ports and thence transhipped by the railways to points in the Province of Ontario, and to Hull, Timiskaming and Gatineau in the Province of Quebec, for use by consumers other than the railways, the assistance granted for such transshipments shall be by the reduction of one-third of one cent per ton per mile from the existing rail rates from the port of Montreal; provided that the amount of the said reduction shall in no instance exceed one dollar and fifty cents (\$1.50) per net ton, the amount of the said reduction being payable to the railways.
- (5) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to any points situated West of the Island of Montreal, for use by consumers other than the railways, the assistance granted shall be the same amount as that provided for rail movements as authorized in the preceding section (4) hereof; provided the amount of the said assistance shall in no instance exceed one dollar and fifty cents (\$1.50) per net ton, the amount of the said assistance being payable to the coal mine operators or distributors of the said coal.
- (6) With respect to coal mined in the Province of Nova Scotia and carried by *water transportation* to any points situated West of the Island of Montreal under assistance provided by section (5) hereof, and thence transhipped by the railways to points in the Province of Ontario situated West of the City of Kingston, for use by consumers other than the railways, the assistance granted shall be by the reduction of one-third of one cent per ton per mile from the existing rail rates; provided that the amount of the said reduction shall in no instance exceed fifty cents (50c.) per net ton, the amount of the said reduction being payable to the railways.
- (7) With respect to coal mined in the Province of Nova Scotia and purchased by railway companies for their own use at points in the Province of Ontario, payments may be made to the coal mine operators or coal distributors of the difference in amount per net ton between the laid-down cost to the railways of coal mined in the Province of Nova Scotia and the laid-down cost at the same points of imported coal that would otherwise be used; provided that the amount of the said assistance shall in no instance exceed two dollars and fifty cents (\$2.50) per net ton, and that:
 - (a) For the purpose of this Order in Council the said difference of laid-down costs shall be determined by the Dominion Fuel Board.
- (8) The assistance shall apply only on shipments of coal from coal mines or coal properties operating under legal permit and shipping coal prior to December 31, 1939.

- (9) The assistance shall not apply on shipments of less than carload lots.
- (10) The assistance shall not be granted to those otherwise eligible to participate who refuse or fail to furnish such information as the Minister of Mines and Resources may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines and Resources 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 the railways in connection with this movement and may make such examination thereof as shall be considered necessary or expedient.
- (11) The Minister of Mines and Resources be given the right to refuse approval in each and every application for assistance under this authority.
- (12) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines and Resources as to the amounts paid under this Order in Council each year during the said period.
- (13) With respect to acceptances still in effect, issued by the Dominion Fuel Board under authority of Orders in Council P.C. 2789 of November 8, 1938, and P.C. 1166 of May 22, 1939, shipments shall be continued under the authority of these acceptances until completed.

NEW BRUNSWICK COAL TO QUEBEC AND ONTARIO

P.C. 1861

The Committee of the Privy Council have had before them a report, dated July 28, 1936, from the Minister of Mines, with reference to an Order in Council P.C. 951 of May 30, 1933, which authorizes assistance to the movement of coal mined in the Province of New Brunswick and shipped to consuming points in the Provinces of Quebec and Ontario.

The Committee submit that the importance of an extension of the market for Canadian coal is appreciated and that the Government is willing to facilitate this by granting financial assistance to the Canadian coal industry under conditions described hereunder.

The Committee, therefore, on the recommendation of the Minister of Mines, advise that the said Order in Council P.C. 951 of May 30, 1933, be hereby rescinded and that:—

- (1) Movements of coal mined in the Province of New Brunswick and shipped to points in the Provinces of Quebec and Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) With respect to coal mined in the Province of New Brunswick and transhipped wholly by rail to points in the Province of Quebec, excluding points on the Quebec and Lake St. John Railway, the Murray Bay line of the Canadian National Railways and points on the railways east of Levis and the Quebec terminals (for use by consumers other than the railways), the assistance granted shall be by a thirty per cent (30%) reduction of the freight rate in effect at the time of shipment. The amount of the said reduction being payable to the railways.
- (3) With respect to coal mined in the Province of New Brunswick and transported wholly by rail to points in the Province of Ontario, for use by consumers other than the railways, the assistance granted shall be by a reduction of one-sixth of one cent per ton per mile from existing rail rates, provided that the amount of the said reduction shall in no instance exceed one dollar and fifty cents (\$1.50) per net ton.
- (4) With respect to coal mined in the Province of New Brunswick and purchased by the railway companies for their own use at points in the Provinces of Quebec and Ontario, payments shall be made to the coal mine operators or coal distributors of the difference in amount per net ton between the laid-down cost to the railways of coal mined in the Province of New Brunswick and the laid-down cost at the same points of imported coal that would otherwise be used, up to a maximum of two dollars (\$2.00) per net ton, provided that:
 - (a) For the purpose of this Order in Council the said difference of laid-down costs shall be determined by the Dominion Fuel Board.
- (5) The assistance shall not apply on shipments of less than carload lots.
- (6) The assistance shall apply only on shipments of coal from coal mines or coal properties which were operating under legal permit and shipping coal prior to December 31, 1930.
- (7) The assistance shall not be granted to those participating 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 the railways in connection with this movement and may make such examination thereof as may be considered necessary or expedient.
- (8) The Minister of Mines be given the right to refuse approval in each and every application for assistance under this authority.
- (9) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines as to the amounts paid under this Order in Council each year during the said period.
- (10) With respect to acceptances issued by the Dominion Fuel Board under authority of Order in Council P.C. 951 of May 30, 1933, which are still in effect, shipments shall be continued under the authority of those acceptances for a period of sixty days from the date of this Order in Council.

SASKATCHEWAN COAL TO MANITOBA AND WESTERN ONTARIO

P.C. 895 (*Superseded by P.C. 3972—Dec. 5, 1939*)

The Committee of the Privy Council submit with reference to Order in Council P.C. 869 of April 5, 1935, which authorizes assistance to the movement of coal mined in the Province of Saskatchewan and shipped to consuming points in the Provinces of Manitoba and Ontario, that the Government appreciates the importance of the maintenance of the market for Canadian coal and is willing to facilitate this by granting financial assistance to the Canadian coal industry under the conditions described hereunder.

The Committee, therefore, on the recommendation of the Minister of Mines, advise that the said Order in Council P.C. 869 of April 5, 1935, be hereby rescinded and that:—

- (1) Movements of coal mined in the Province of Saskatchewan and shipped to points in the Province of Manitoba be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) With respect to coal mined in the Province of Saskatchewan and shipped to points in the Province of Manitoba for use by consumers other than the railways, the assistance granted shall be by a reduction of ten percent (10%) of the freight rate in effect at the time of shipment, the amount of the said reduction being payable to the railways.
- (3) 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. The area in Manitoba in which Canadian coal is at a disadvantage shall be determined by the Dominion Fuel Board.

- (4) The assistance shall not apply to coal when used for household purposes.
- (5) The assistance shall apply only on shipments of coal from coal mines or coal properties which were operating under legal permit and shipping coal prior to December 31, 1930.
- (6) The assistance shall not apply on shipments of less than carload lots.
- (7) The assistance shall not be granted to those participating 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 the railways in connection with this movement and may make such examination thereof as may be considered necessary or expedient.
- (8) The Minister of Mines be given the right to refuse approval in each and every application for assistance under this authority.
- (9) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines as to the amounts paid each year under the provisions of this Order in Council.
- (10) With respect to acceptances issued by the Dominion Fuel Board under authority of Order in Council P.C. 869 of April 5, 1935 which are still in effect, shipments shall be continued under authority of these acceptances for a period of sixty days from the date of this Order in Council.

P.C. 3972—(December 5, 1939)

The Committee of the Privy Council have had before them a report, dated 27th November, 1939, from the Acting Minister of Mines and Resources, with reference to an Order in Council, P.C. 895 of the 9th day of April, 1936, which authorizes assistance to coal mined in the Province of Saskatchewan and shipped to points in the Province of Manitoba.

The Government, realizing the necessity for the strictest economy in all matters of expenditure, proposes to curtail the present rates of assistance authorized in the above mentioned Order in Council P.C. 895 which provides assistance to coal mined in the Province of Saskatchewan.

The Committee, therefore, on the recommendation of the Acting Minister of Mines and Resources, advise that the said Order in Council P.C. 895 of April 9, 1936, be hereby rescinded and that:—

- (1) Coal mined in the Province of Saskatchewan and shipped to points in the Provinces of Manitoba and Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) With respect to coal mined in the Province of Saskatchewan and shipped to points in the Province of Ontario for use by consumers other than the railways, the assistance granted shall be by a thirty per cent (30%) reduction of the freight rate in effect at the time of shipment; provided that the amount of the said reduction shall in no instance exceed one dollar (\$1.00) per net ton, the amount of the said reduction being payable to the railways.
- (3) With respect to coal mined in the Province of Saskatchewan and purchased by railway companies for their own use at points in the Provinces of Manitoba and Ontario, east of and including Carrick, Decima and Eagle River, the assistance granted shall be by a thirty per cent (30%) reduction of the freight rate in effect at the time of shipment, provided that the amount of the said reduction shall in no instance exceed one dollar (\$1.00) per net ton, the amount of the said reduction being payable to the railways.
- (4) The assistance shall apply only on shipments of coal from coal mines or coal properties operating under legal permit and shipping coal prior to December 31, 1930.
- (5) The assistance shall not apply on shipments of less than carload lots.
- (6) The assistance shall not be granted to those otherwise eligible to participate who refuse or fail to furnish such information as the Minister of Mines and Resources may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines and Resources 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 the railways in connection with this movement and may make such examination thereof as shall be considered necessary or expedient.
- (7) The Minister of Mines and Resources be given the right to refuse approval in each and every application for assistance under this authority.
- (8) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines and Resources as to the amounts paid under this Order in Council each year during the said period.
- (9) With respect to acceptances still in effect, issued by the Dominion Fuel Board under authority of Order in Council P.C. 895 of April 9, 1936, shipments shall be continued under authority of these acceptances until completed.

ALBERTA COAL TO ONTARIO

P.C. 740

The Committee of the Privy Council have had before them a report, dated 18th March, 1933, from the Minister of Mines, submitting that as a result of an extensive study made in connection with the cost of moving coal from the Province of Alberta to consuming points in the Province of Ontario, information is now available from the Board of Railway Commissioners for Canada which makes it expedient for the Government to substitute the following in lieu of Order in Council P.C. 439, of the 16th March, 1928, and amendments thereto, authorizing certain test movements, which have now expired:

The Minister recommends—in view of the desirability of encouraging in so far as economically possible the development of a market in the Province of Ontario for Alberta coal and at the same time creating a uniformity of assistance, based upon reduced rates and maximum amounts authorized for similar movements of coal from other provinces to coal consuming centres—that assistance be granted on such movements of coal as hereinafter provided:—

- (1) That movements of coal mined in the Province of Alberta and shipped to certain points in the Province of Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) That with respect to such movements of coal referred to in the above Section (1) the assistance granted shall be by the reduction of \$2.50 per net ton from the existing rail rates when same amount to \$8.00 per net ton or in excess thereof, the amount of said reduction being payable to the railways.
- (3) That the assistance shall apply only on shipments of coal from coal mines or coal properties which were in operation and shipping prior to December 31, 1930.
- (4) That the assistance shall not apply on shipments of less than carload lots.
- (5) That the assistance shall not be granted to those participating 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 the railways in connection with this movement and make such examination thereof as may be considered necessary or expedient.
- (6) That the Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines as to the amounts paid under this Order in Council each year during the said period.

The Committee concur in the foregoing recommendation and submit the same for approval.

P.C. 3386—(January 4, 1939)

The Committee of the Privy Council, on the recommendation of the Minister of Mines and Resources, advise that Section (1) of the Minute of Council, P.C. 740, approved 24th April, 1933—which provides assistance to coal mined in the Province of Alberta and shipped to certain points in the Province of Ontario—reading as follows:

(1) "That movements of coal mined in the Province of Alberta and shipped to certain points in the Province of Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose,"

be hereby rescinded and the following substituted in lieu thereof:—

(1) "That movements of coal mined in the Province of Alberta and in the Crow's Nest Pass district of British Columbia and shipped to certain points in the Province of Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose".

ALBERTA AND BRITISH COLUMBIA CROW'S NEST PASS COAL TO MANITOBA AND WESTERN ONTARIO

P.C. 894 (Superseded by P.C. 3970—Dec. 5, 1939)

The Committee of the Privy Council submit, with reference to Order in Council P.C. 1121 of 28th May, 1934, which authorizes assistance to the movement of coal mined in the Province of Alberta and in the Crow's Nest Pass District of the Province of British Columbia and shipped to consuming points in the Provinces of Manitoba and Ontario, that the Government appreciates the difficulties which still confront the Canadian coal industry and desires to facilitate the maintenance of existing markets by granting financial assistance under conditions described hereunder:

The Committee, therefore, on the recommendation of the Minister of Mines, advise that the said Order in Council P.C. 1121 of 28th May, 1934, and amendments thereto, be hereby rescinded, and that:

- (1) Movements of coal mined in the Province of Alberta and in the Crow's Nest Pass District of British Columbia and shipped to points in the Province of Manitoba and to points in the Province of Ontario be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) With respect to coal mined in the Province of Alberta, and in the Crow's Nest Pass District of British Columbia, and shipped to points in the Province of Manitoba and to points in the Province of Ontario for use by consumers other than the railways which have connections with the coal fields, the assistance granted shall be as follows:—
 - (a) To points in the Province of Manitoba the assistance granted shall be by a reduction of ten per cent (10%) of the freight rate in effect at the time of shipment, the amount of the said reduction being payable to the railways.
 - (b) To points in the Province of Ontario the assistance granted shall be by a reduction of thirty per cent (30%) of the freight rate in effect at the time of shipment; provided that the amount of the said reduction shall in no instance exceed two dollars per net ton, the amount of the said reduction being payable to the railways.
- (3) With respect to coal mined in the Province of Alberta and in the Crow's Nest Pass District in the Province of British Columbia and purchased by railway companies for their own use at points in the Provinces of Manitoba and Ontario, east of and including Carrick, Decimal and Eagle River, the assistance granted shall be by a reduction of thirty per cent (30%) of the tariff freight rate in effect at the time of shipment; provided that the amount of the said reduction shall in no instance exceed two dollars per net ton, the amount of the said reduction being payable to the railways.
- (4) The assistance shall apply only to movements of coal where the Canadian coal to be used is at a disadvantage in competing with foreign coal. The area in Manitoba in which Canadian coal is at a disadvantage shall be determined by the Dominion Fuel Board.
- (5) The assistance shall not apply to coal when used for household purposes.
- (6) The assistance shall apply only to shipments of coal from coal mines or coal properties which were operating under legal permit and shipping coal prior to December 31, 1930.
- (7) The assistance shall not apply to shipments of less than carload lots.
- (8) The assistance shall not be granted to those participating 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 the railways in connection with this movement and may make such examination thereof as may be considered necessary or expedient.
- (9) The Minister of Mines be given the right to refuse approval in each and every application for assistance under this authority.
- (10) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines as to the amounts paid each year under this Order in Council.
- (11) With respect to acceptances issued by the Dominion Fuel Board under authority of Order in Council P.C. 1121 of 28th May, 1934, which are still in effect, shipments shall be continued under authority of these acceptances for a period of sixty days from the date of this Order in Council.

P.C. 3970—(December 5, 1939)

The Committee of the Privy Council have had before them a report, dated 27th November, 1939, from the Acting Minister of Mines and Resources, with reference to an Order in Council P.C. 894 of the 9th day of April, 1936, which authorizes assistance to the movement of coal mined in the Province of Alberta and in the Crow's Nest Pass District of the Province of British Columbia and shipped to consuming points in the Provinces of Manitoba and Ontario.

The Government, realizing the necessity for the strictest economy in all matters of expenditure, proposes to reduce the present rates of assistance and the areas to which this coal is shipped, as authorized in the above mentioned Order in Council P.C. 894, which provides assistance for the movements of Alberta and Crow's Nest Pass coal of British Columbia under certain conditions.

The Committee, therefore, on the recommendation of the Acting Minister of Mines and Resources, advise that the said Order in Council P.C. 894 of April 9, 1936, be hereby rescinded and that:—

- (1) Movements of coal mined in the Province of Alberta and in the Crow's Nest Pass District of British Columbia and shipped to points in the Provinces of Manitoba and Ontario, be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) With respect to coal mined in the Province of Alberta and in the Crow's Nest Pass District of British Columbia and shipped to points in the Province of Ontario for use by consumers other than the railways which have connections with the coal fields, the assistance granted shall be by a reduction of thirty per cent (30%) of the tariff freight rate in effect at the time of shipment; provided that the amount of the said reduction shall in no instance exceed two dollars (\$2.00) per net ton, the amount of the said reduction being payable to the railways.

- (3) With respect to coal mined in the Province of Alberta and in the Crowsnest Pass District of British Columbia and purchased by railway companies for their own use at points in the Provinces of Manitoba and Ontario, east of and including Carriek, Decimal and Eagle River, the assistance granted shall be a reduction of thirty per cent (30%) of the tariff freight rate in effect at the time of shipment; provided that the amount of the said reduction shall in no instance exceed two dollars (\$2.00) per net ton, the amount of the said reduction being payable to the railways.
- (4) The assistance shall apply only on shipments of coal from coal mines or coal properties operating under legal permit and shipping coal prior to December 31, 1930.
- (5) The assistance shall not apply on shipments of less than carload lots.
- (6) The assistance shall not be granted to those otherwise eligible to participate who refuse or fail to furnish such information as the Minister of Mines and Resources may consider necessary in the administrative duties connected with this movement; and that for the purpose of certifying such information the Minister of Mines and Resources 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 the railways in connection with this movement and may make such examination thereof as shall be considered necessary or expedient.
- (7) The Minister of Mines and Resources be given the right to refuse approval in each and every application for assistance under this authority.
- (8) The Dominion Fuel Board be charged with the duty of administering this Order in Council and be required to report to the Minister of Mines and Resources as to the amounts paid under this Order in Council each year during the said period.
- (9) With respect to acceptances still in effect, issued by the Dominion Fuel Board under authority of Order in Council P.C. 894 of April 9, 1936, shipments shall be continued under the authority of these acceptances until completed.

BRITISH COLUMBIA COAL FOR BUNKER AND EXPORT

P.C. 1122 (Superseded by P.C. 3971—Dec. 5, 1939)

The Committee of the Privy Council have had before them a report, dated 18th May, 1934, from the Minister of Mines with reference to an Order in Council P.C. 954 of 30th May, 1933, which provides assistance to coal mined in the Province of British Columbia and sold as fuel for ships' stores or for export to foreign countries.

The Committee, on the recommendation of the Minister of Mines, advise that the said Order in Council P.C. 954 be rescinded and that:

- (1) With respect to coal mined in the Province of British Columbia and sold for fuel for ships' stores or for export to foreign countries, assistance shall be granted out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) That with respect to coal mined in the Province of British Columbia and sold for fuel as ships' stores, the assistance granted shall be the sum of fifty cents per net ton on a tonnage up to and including 60,000 net tons in any one year; any tonnage above the said 60,000 sold for fuel as ships' stores in the same year shall be granted assistance at the rate of one dollar per net ton, the assistance being payable to the coal mine operators or distributors.
- (3) That with respect to coal mined in the Province of British Columbia and sold for export to foreign countries, as hereinafter excepted, the assistance granted shall be the sum of one dollar per net ton, payable to the coal mine operators or distributors under the conditions set forth as follows:
 - (a) That the assistance shall apply to coal for fuelling ocean going vessels but not for fuelling 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 only to shipments of coal from coal mines or coal properties which were operating under legal permit and shipping coal prior to December 31, 1930.
 - (d) That the assistance shall not be granted to those applying 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 coal producers or distributors in connection with this assistance and make such examination thereof as may be considered necessary or expedient.
- (4) The Minister of Mines be given the right to refuse approval in each and every application for assistance under this authority.
- (5) The Dominion Fuel Board be charged with the duty of administering this Order in Council and shall report to the Minister of Mines as to the amounts paid under the provisions thereof each year.

P.C. 3971—(December 5, 1939)

The Committee of the Privy Council have had before them a report, dated 27th November, 1939, from the Acting Minister of Mines and Resources, with reference to an Order in Council, P.C. 1122 of the 28th day of May, 1934, which authorizes assistance to coal mined in the Province of British Columbia and sold as fuel for ships' stores or for export to foreign countries.

The Government, realizing the necessity for the strictest economy in all matters of expenditure, proposes to reduce the present rates of assistance authorized in the above mentioned Order in Council P.C. 1122, which provides assistance to coal mined in the Province of British Columbia.

The Committee, therefore, on the recommendation of the Acting Minister of Mines and Resources, advise that the said Order in Council P.C. 1122 of May 28, 1934, be hereby rescinded and that:—

- (1) Coal mined in the Province of British Columbia and sold for ships' stores or for export to foreign countries be assisted by payments out of such sums as may be provided by Parliament from year to year for that purpose.
- (2) With respect to coal mined in the Province of British Columbia and sold for fuel as ships' stores, the assistance granted shall be the sum of seventy-five cents (75c.) per net ton, the amount of the said assistance being payable to the coal mine operators or coal distributors, provided:
 - (a) The assistance provided on coal sold for ships' stores shall apply only on coal sold for use by vessels navigating entirely in salt water and not for use by vessels operating on inland lakes of British Columbia.
- (3) With respect to coal mined in the Province of British Columbia and sold for export to foreign countries, as hereinafter excepted, the assistance granted shall be the sum of one dollar (\$1.00) per net ton, the amount of the said assistance being payable to the coal mine operator or coal distributor, provided:
 - (a) The assistance provided on coal sold for export shall apply to coal exported for consumption in foreign countries other than the United States of America or its territorial possessions.
- (4) The assistance shall apply only on shipments of coal from coal mines or coal properties which were operating under legal permit and shipping coal prior to December 31, 1930.



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- (5) That the assistance shall not be granted to those applying who refuse or fail to furnish such information as the Minister of Mines and Resources may consider necessary in the administrative duties connected with this assistance; and that for the purpose of certifying such information the Minister of Mines and Resources or such officers of the Dominion Fuel Board as he may designate shall have free access to all books, records or accounts kept by coal producers or distributors in connection with this assistance and make such examination thereof as may be considered necessary or expedient.
- (6) The Minister of Mines and Resources be given the right to refuse approval in each and every application for assistance under this authority.
- (7) The Dominion Fuel Board be charged with the duty of administering this Order in Council and shall report to the Minister of Mines and Resources as to the amounts paid under the provisions thereof each year.
- (8) The authority herein provided shall become effective the first day of January, 1940.