

CANADA  
DEPARTMENT OF MINES

Hon. SIR JAMES A. LOUGHEED, MINISTER; CHARLES CAMSELL, ACTING DEPUTY MINISTER

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MINES BRANCH  
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THE  
PRODUCTION OF COAL AND COKE  
IN  
CANADA

During the Calendar Year

1919  
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John McLeish, B.A.

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OTTAWA  
THOMAS MULVEY  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1921

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## COAL.

The term "production" in the text and tables of this report is used to represent the tonnage of coal actually sold, or used, by the producer, as distinguished from the term "output," which is applied to the total coal extracted from the mine, and which includes, in some cases, coal lost or unsaleable or coal carried into stock on hand at the end of the year.

The production of coal during 1919 was 13,681,218 short tons (12,215,373 long tons), valued at \$54,413,349, or an average of \$3.98 per ton, as compared with a production in 1918 of 14,977,926 short tons (13,373,148 long tons), valued at \$55,192,896, or an average of \$3.68 per ton, a decrease in production in 1919 of 1,296,708 tons, or 8.6 per cent.

The average number of men employed during 1919 was 27,198, and total wages paid \$34,826,363, as compared with an average of 25,419 men employed in 1918, and \$32,899,501 paid in wages.

The values of the production in 1917, 1918 and 1919 have for all provinces been furnished directly by the operators. In 1916 and previous year, however, complete returns of values were not received from all operators, and the values placed upon the coal production in the provinces of Nova Scotia and British Columbia were partially estimated, or assumed.

In 1886 Canada's consumption of coal was 3,480,111 tons, of which 46 per cent was obtained from Canadian coal mines and 54 per cent imported chiefly from the United States. The annual consumption per head of population was about three-quarters of a ton.

In 1919 the consumption of coal was 28,863,017 tons, in 1918 it was 34,771,832 tons, and in 1917, 33,123,785 tons. The percentage of the total derived from Canadian mines in 1919 was 40 and the percentage imported, 60. The consumption per capita during 1918 was over 4 tons, with a smaller rate of consumption in 1919. During the 33 years that have elapsed since 1886 Canada's coal consumption has increased practically tenfold in total tonnage and over 5 times in rate per head of population. But throughout this period the ratio of domestic to imported coal in the annual consumption has varied within quite narrow limits. The year of maximum proportion of contribution from Canadian sources was in 1903, when Canadian coal formed over 52 per cent of the total; the lowest proportion was in 1917, when only 37.2 per cent of the consumption originated in Canada. Throughout this period, too, exports of Canadian coal have not averaged more than 10 per cent of the quantity imported.

During the past three years the actual coal shortage in central Canada, due to conditions created by the war, and the threats of serious and dire consequences that might readily ensue, were that shortage to become acute, have served to draw public attention very strongly to a situation which the public records have shown to exist for many years. The fuel shortage has not only resulted in the imposition of abnormally high and possibly unjustifiable prices but has actually restricted in many instances industrial activity.

There is no actual shortage of coal resources in either the United States or in Canada, at least in so far as bituminous coal is concerned, so that the problem involved relates primarily to questions of production and distribution.

The Canadian coal-fields are situated in the extreme east and in the western provinces, while the great central provinces of Ontario and Quebec, the chief

centres of population, are more easily and, presumably, more economically supplied with coal from the nearer coal-fields of Pennsylvania and Ohio. Further, there is no anthracite coal in eastern Canada, which has grown dependent upon the anthracite output of Pennsylvania for that most desirable of the domestic fuels, since anthracite is not only the chief domestic or house fuel in Ontario, and Quebec, but is imported even into Nova Scotia coal districts, and has been largely used also in Manitoba and Saskatchewan.

In round numbers, Canada produced during 1919 about 13.5 million tons of coal, of which 2 million tons were exported, and imported 12.3 million tons of bituminous coal and 5 million tons of anthracite. During the previous year, 1918, we produced in round numbers 15 million tons, exported 8 million tons, and imported 16.8 million tons of bituminous coal, and 4.8 million tons of anthracite; thus, both production and imports were considerably reduced in 1919. Such a condition of international trade and dependence upon foreign supply attracted little attention during normal times.

Under the stress of war conditions when it became apparent that production would not meet demand action was taken both in the United States and in Canada to place the entire fuel situation under Government control. The regime of Canadian fuel control extended from June 11, 1917, to March 5, 1920.

In commenting on the policy of the United States with respect to the exportation of anthracite coal, the Fuel Controller, Mr. C. A. Magrath states.—<sup>1</sup>

"The Government (of the United States) has on different occasions appointed Committees to investigate the operations of these (anthracite mining) companies, and inquired into their methods of mining and their manner of conducting their business generally. But as far as the Fuel Controller is aware, nothing has ever developed in these investigations, which would indicate any desire on the part of the United States Administration to prohibit the exportation of anthracite. During the crisis just past, Canada was treated almost, if not absolutely, as an integral part of the union. Of course, it is within the realm of possibility that at some future date the United States might desire to retain their whole supplies of anthracite for the use of their own people. In such an eventuality, Canada would no doubt be given several years notice within which to arrange for replacing such supplies as are then being imported."

With respect to coal trade generally he states:—<sup>2</sup>

"The coal operators both in the East and the West should be encouraged as far as possible to make the most of the domestic markets and thereby decrease the amount of foreign coal imported.

"Under ideal conditions, however, there is a large market in Canada which Canadian producers have been unable to enter, owing to its distance from the coal fields, and this market, has, therefore, been supplied with foreign coal. To what extent this home market can in the future be served by the Canadian product is a problem that requires careful consideration."

The Fuel Controller's report constitutes a detailed and comprehensive analysis of the Canadian fuel situation.

### Production of Coal by Provinces, 1919

Province	Average No. of men Employed	Wages Paid	Production of Coal		Average Per Ton	Per cent of total Quantity
			Short tons	Value		
Nova Scotia.....	10,978	\$ 13,970,149	5,720,373	22,078,726	\$ 3.859	41.81
New Brunswick.....	565	503,263	179,103	794,761	4.422	1.31
Saskatchewan.....	487	467,436	380,169	820,522	2.158	2.78
Alberta.....	9,343	11,414,755	4,964,535	18,294,495	3.685	36.29
British Columbia.....	5,813	8,465,255	2,435,933	12,420,445	5.098	17.80
Yukon Territory.....	12	5,500	1,100	4,400	4.000	0.01
Total.....	27,198	34,826,363	13,681,218	54,413,349	3.977	100.00

<sup>1</sup>Final Report of the Fuel Controller, March, 1919—p. 41.

<sup>2</sup>Final Report of the Fuel Controller, March, 1919—p. 37.

## Production of Coal by Provinces, 1918

Province	Average No. of Men Employed	Wages Paid	Production of Coal			Per cent of Total Quantity
			Short Tons	Value	Average Per Ton	
		\$		\$	\$	
Nova Scotia.....	10,361	13,089,322	5,818,562	21,095,470	3.63	38.85
New Brunswick.....	576	631,323	268,212	1,331,710	4.97	1.79
Saskatchewan.....	460	423,392	346,847	722,148	2.08	2.31
Alberta.....	9,032	11,382,406	5,972,816	20,537,287	3.44	39.88
British Columbia.....	4,982	7,334,358	2,568,589	11,494,681	4.47	17.15
Yukon Territory.....	8	8,700	2,900	11,600	4.00	0.02
<b>Total.....</b>	<b>25,419</b>	<b>32,899,501</b>	<b>14,977,926</b>	<b>55,192,896</b>	<b>3.68</b>	<b>100.00</b>

## Comparison of Production, 1917 with 1918, and 1918 with 1919

Province	(i) Increase, or (d) Decrease			
	Years 1917 and 1918		Years 1918 and 1919	
	Short Tons	%	Short Tons	%
Nova Scotia.....	(d) 508,529	8.04	(d) 98,189	1.69
New Brunswick.....	(i) 79,117	41.84	(d) 89,104	33.22
Saskatchewan.....	(d) 8,598	2.42	(i) 33,322	9.61
Alberta.....	(i) 1,236,448	26.11	(d) 1,008,281	16.88
British Columbia.....	(i) 134,701	5.53	(d) 132,656	5.16
Yukon Territory.....	(d) 1,972	40.48	(d) 1,800	62.07
<b>Total for Canada.....</b>	<b>(i) 931,167</b>	<b>6.63</b>	<b>(d) 1,296,708</b>	<b>8.66</b>

The total production in 1919 included 111,324 tons of anthracite, or less than 1 per cent of the total; 10,642,902 tons of bituminous, or 77.8 per cent of the total, and 2,926,992 tons of lignite, or 21.4 per cent of the total.

The total production in 1918 included: 115,405 tons of anthracite, or less than 1 per cent of the total; 11,636,190 tons of bituminous, or 78 per cent of the total, and 3,226,331 tons of lignite, or over 21 per cent of the total.

The consumption of coal during the year included approximately 5,063,999 tons of anthracite, 20,872,026 tons of bituminous, and 2,926,992 tons of lignite.

The consumption of coal during 1918 included: 4,900,565 tons of anthracite, 26,644,936 tons of bituminous, and 3,226,331 tons of lignite.

The total output, production, and distribution of coal mined by provinces during 1919 and 1918 is shown in the following tables:—

## Production and Distribution of Coal Mined, by Provinces, 1919

(In short tons.)

	Nova Scotia	New Brunswick	Saskatchewan	Alberta	Yukon	British Columbia	Total
Sold in Canada.....	4,274,874	163,275	354,319	4,455,972	1,100	1,168,122	10,417,662
Sold for export to U.S.....	12,119	8,504	80	121,264		852,704	994,671
Sold for export to other countries.....	584,614						584,614
Total sales.....	4,871,607	171,779	354,399	4,577,236	1,100	2,020,826	11,996,947
Used by producers in making coke, steel, brick, etc.....	222,269		6,715	3,818		163,116	395,918
Used by producers for colliery consumption and by workmen.....	626,497	7,329	19,055	(a)383,481		251,991	1,288,353
Total used.....	848,766	7,329	25,770	387,299		415,107	1,684,271
Production*.....	5,720,373	179,108	380,169	4,964,535	1,100	2,435,933	13,681,218
Difference in stocks.....	+41,574	-870	+45	-51,742		-23,535	-34,537
Losses due to breakage or other causes.....	42,727	209	3,903	91,475	100	295,560	433,974
Total Output.....	5,804,674	178,438	384,117	5,004,268	1,200	2,707,958	14,080,655

\*Production is obtained by adding coal sold and coal used.

(a) Includes coal used in manufacture of briquettes.

## Production and Distribution of Coal Mined, by Provinces, 1918

(In short tons.)

	Nova Scotia	New Brunswick	Saskatchewan	Alberta	Yukon	British Columbia	Total
Sold in Canada.....	4,208,825	197,203	324,661	5,362,469	2,900	1,113,126	11,209,184
Sold for export to U.S.....	317,103	61,840		132,765		842,986	1,354,694
Sold for export to other countries.....	212,882					65,427	278,309
Total sales.....	4,738,810	259,043	324,661	5,495,234	2,900	2,021,539	12,842,187
Used by producers in making coke, steel, brick, etc.....	277,881		2,702	108,864		309,657	699,104
Used by producers for colliery consumption and by workmen.....	801,871	9,169	19,484	368,718		237,393	1,436,635
Total used.....	1,079,752	9,169	22,186	477,582		547,050	2,135,739
Production*.....	5,818,562	268,212	346,847	5,972,816	2,900	2,568,589	14,977,926
Difference in stocks....	-32,811	-2,481	+19	+10,333		+24,528	-412
Losses due to breakage or other causes.....	50,619	854	2,122	143,204		285,982	482,871
Total output.....	5,836,370	266,585	348,988	6,126,443	2,900	2,879,099	15,460,385

\*Production is obtained by adding coal sold and coal used.

## Distribution of Coal Mined during the Years 1914-15-16-17

(In short tons.)

	1914	1915	1916	1917
Sold in Canada.....	10,359,390	9,826,712	10,701,530	10,469,468
Sold for export to United States.....	1,181,536	1,330,718	1,451,075	1,301,881
Other countries.....	239,927	297,343	284,513	301,060
<b>Total sales.....</b>	<b>11,780,853</b>	<b>11,454,773</b>	<b>12,437,118</b>	<b>12,072,409</b>
Used by producers for the manufacture of coke.....	591,331	701,975	804,814	690,573
“ for colliery consumption, and by workmen.....	1,265,345	1,110,275	1,241,463	1,283,777
<b>Production.....</b>	<b>13,637,529</b>	<b>13,267,023</b>	<b>14,483,395</b>	<b>14,046,759</b>
Difference in stocks.....	-83,123	-99,294	-53,527	-7,760
Loss due to washing, breakage, or other causes.....	434,337	312,467	385,835	396,362
<b>Total output.....</b>	<b>13,988,743</b>	<b>13,480,196</b>	<b>14,815,703</b>	<b>14,435,361</b>

A record of the monthly production of coal by provinces is given in the following tables:—

In Nova Scotia, New Brunswick, British Columbia, and the Yukon this production is all bituminous coal; that of Saskatchewan is all lignite, while the production in Alberta includes the three classes, semi-anthracite, bituminous and lignite. A record of the monthly production of these three classes of coal in Alberta will be found in the section of this report dealing with that province.

### Monthly Production of Coal by Provinces, 1919

(In short tons.)

Months	Nova Scotia	New Brunswick	Saskatchewan	Alberta			British Columbia	Total
	(b)	(b)	(c)	(a)	(b)	(c)	(b)	
January.....	501,536	21,788	28,034	12,730	282,908	204,410	240,200	1,291,606
February.....	405,112	16,262	23,937	11,645	265,431	147,545	185,072	1,055,004
March.....	420,460	14,529	26,164	13,414	278,377	210,994	212,646	1,176,584
April.....	454,398	13,339	16,001	13,679	214,830	96,615	185,444	994,306
May.....	451,127	12,011	18,588	76	169,549	95,439	182,661	929,451
June.....	433,890	13,627	20,337	39	4,328	37,794	127,710	637,725
July.....	467,042	14,249	20,971	750	7,226	55,826	154,859	721,283
August.....	484,437	15,691	26,900	2,611	33,006	117,630	168,660	849,335
September.....	489,369	13,821	35,327	12,278	208,657	286,584	213,780	1,260,156
October.....	569,790	17,376	48,153	14,673	270,006	390,475	252,794	1,572,357
November.....	508,957	16,026	55,367	13,907	284,578	433,345	256,413	1,568,593
December.....	534,255	10,389	60,390	15,522	278,402	470,166	255,694	1,624,818
<b>Total.....</b>	<b>5,720,373</b>	<b>179,108</b>	<b>380,169</b>	<b>111,324</b>	<b>2,306,388</b>	<b>2,546,823</b>	<b>2,435,933</b>	<b>*13,681,218</b>

\*Includes 1,100 tons produced in the Yukon District, during third quarter.

(a) Anthracite. (b) Bituminous. (c) Lignite.

Statistics of the annual production of coal from 1881 to date are given in the following table.

The total production of coal in Canada from 1785 to 1919 has been 297,158,478 tons; of this amount Nova Scotia is credited with 177,539,045 tons, or 59.7 per cent of the total; British Columbia, 62,900,741 tons, or 21.17 per cent; Alberta, 51,072,492 tons, or 17.20 per cent; Saskatchewan, 3,906,587 tons, or 1.31 per cent; New Brunswick, 1,603,448 tons, or 0.5 per cent, and the Yukon Territory, 136,165 tons, or 0.05 per cent.

## Annual Production of Coal

Year	Short tons	Value	Average per ton	Year	Short tons	Value	Average per ton
1785-1880.....	16,426,253	\$28,190,518	\$ 1.72	1901.....	6,486,325	\$12,699,243	\$ 1.96
1881.....	1,537,106	2,688,621	1.75	1902.....	7,466,681	15,210,877	2.04
1882.....	1,848,148	3,248,446	1.76	1903.....	7,960,364	15,942,833	2.00
1883.....	1,818,684	3,109,635	1.71	1904.....	8,254,595	16,592,231	2.01
1884.....	1,984,959	3,593,831	1.81	1905.....	8,667,948	17,520,263	2.02
1885.....	1,920,977	3,417,807	1.78	1906.....	9,762,601	19,732,019	2.02
1886.....	2,116,653	3,739,840	1.77	1907.....	10,511,426	24,381,842	2.32
1887.....	2,429,330	4,338,206	1.81	1908.....	10,886,311	25,194,573	2.31
1888.....	2,602,552	4,674,140	1.80	1909.....	10,501,475	24,781,236	2.36
1889.....	2,658,303	4,894,287	1.84	1910.....	12,909,152	30,909,779	2.39
1890.....	3,084,682	5,676,247	1.84	1911.....	11,323,388	26,467,646	2.34
1891.....	3,577,749	7,019,425	1.96	1912.....	14,512,829	36,019,044	2.48
1892.....	3,287,745	6,363,757	1.94	1913.....	15,012,178	37,334,940	2.49
1893.....	3,783,499	7,359,080	1.95	1914.....	13,637,529	33,471,801	2.45
1894.....	3,847,070	7,429,468	1.93	1915.....	13,267,023	32,111,182	2.42
1895.....	3,478,344	6,739,153	1.94	1916.....	14,483,395	38,817,481	2.68
1896.....	3,745,716	7,226,462	1.93	1917.....	14,046,759	43,199,831	3.08
1897.....	3,786,107	7,303,597	1.93	1918.....	14,977,926	55,192,896	3.68
1898.....	4,173,108	8,224,288	1.97	1919.....	13,681,218	54,413,349	3.97
1899.....	4,925,051	10,283,497	2.09				
1900.....	5,777,319	13,742,178	2.38	Grand total...	297,158,478	709,305,549	2.39

## Exports of Canadian Coal.

Statistics of the exports of coal according to the Trade records are given in the following tables. The exports of Canadian coal in 1919 were 2,070,050 tons, valued at \$12,438,885, or an average of \$6.01 per ton, as compared with exports in 1918 of 1,817,195 tons, valued at \$9,405,423, or an average of \$5.18 per ton. Besides Canadian coal exported there is also a small export of coal not the produce of Canada.

## Annual Exports of Coal

(In short tons.)

Calendar year	Produce of Canada	Not the produce of Canada	Calendar year	Produce of Canada	Not the produce of Canada
1908.....	1,729,833	102,071	1914.....	1,423,126	83,137
1909.....	1,538,099	161,098	1915.....	1,766,543	59,690
1910.....	2,377,049	159,859	1916.....	2,135,359	62,783
1911.....	1,500,639	133,943	1917.....	1,733,156	47,328
1912.....	2,127,133	46,706	1918.....	1,817,195	67,486
1913.....	1,562,020	66,566	1919.....	2,070,050	56,988

## Imports of Coal

The total imports of coal of all classes in 1919 "entered for consumption" as per the published Trade reports were 17,308,837 tons, valued at \$61,160,799, as compared with total imports in 1918 of 21,678,587 tons, valued at \$71,650,584.

Imports of coal into Canada are subdivided into four classes as follows: anthracite, egg, grate, stove, and nut; anthracite: rice, barley and buckwheat; bituminous, round and run-of-mine; and bituminous slack such as will pass through a three-quarter-inch screen.

The imports of anthracite in 1919 included: 4,758,419 tons of egg, grate, stove and nut, valued at \$30,948,590, or an average of \$6.50 per ton, and 194,256



tons of rice, barley and buckwheat, valued at \$647,104, or an average of \$3.33 per ton, as compared with total imports in 1918 of 4,785,160 tons, valued at \$26,007,888, or an average of \$5.44 per ton. The imports of bituminous coal of all classes in 1919 were: 12,356,162 tons, valued at \$29,565,105, as against imports in 1918 of 16,893,427 tons, valued at \$45,642,696. The decrease in bituminous imports in 1919 as compared with 1918 was thus 4,537,265 tons, or 27 per cent.

The bituminous imports in 1919 included: bituminous round, and run-of-mine, 10,127,965 tons, valued at \$24,750,717, or an average of \$2.44 per ton, and bituminous slack, 2,228,197 tons, valued at \$4,814,388, or an average of \$2.16 per ton. The value of the imports during 1918 of bituminous, round and run-of-mine coal averaged \$2.73 per ton, and of bituminous slack, \$2.58 per ton.

The record of the exports of bituminous coal to Canada, as published in the Reports of Trade and Navigation at Washington, differs in some years considerably from the Canadian record, in partial explanation of which it should be noted that the Canadian record represents coal "entered for home consumption." This entry may be deferred several months from the actual time of import, thus causing a difference in the monthly and yearly record.

Furthermore it is understood that the United States record includes a certain amount of coal used for bunkering lake steamers which would not be included as an import into Canada. The United States record shows exports of bituminous coal to Canada during the twelve months ending December 1919, of 11,950,277 short tons, as against 18,134,328 tons in 1918, 18,118,879 tons in 1917, 13,260,181 tons in 1916, 9,356,889 tons in 1915, 10,271,409 tons in 1914, and 15,115,733 tons in 1913.

### Annual Imports of Coal, "Entered for Consumption"

Calendar year	Bituminous round and run of the mine (a)		Anthracite coal and anthracite dust (b)		Bituminous slack such as will pass through $\frac{3}{4}$ " screen (c)	
	Short tons	Value	Short tons	Value	Short tons	Value
1907.....	6,370,152	13,232,445	3,141,873	14,506,129	1,139,256	1,121,949
1908.....	6,025,574	12,516,748	3,160,110	14,478,536	1,111,811	1,355,677
1909.....	5,625,068	11,455,818	3,017,844	13,906,152	1,230,017	1,469,889
1910.....	5,966,466	11,919,341	3,266,235	14,735,062	1,365,281	1,795,598
1911.....	8,905,815	18,407,603	4,020,577	18,794,192	1,632,500	2,090,796
1912.....	8,491,840	16,846,727	4,184,017	20,080,388	1,919,953	2,550,922
1913.....	10,743,473	21,756,658	4,642,057	22,034,839	2,816,423	4,157,622
1914.....	7,776,415	14,954,321	4,435,010	21,241,924	2,509,632	3,605,253
1915.....	6,106,794	7,564,369	4,072,192	18,753,980	2,286,916	2,027,250
1916.....	9,504,552	12,368,679	4,570,815	22,216,363	3,505,236	3,704,624
1917.....	12,407,486	33,712,894	5,320,198	28,109,586	3,129,776	8,739,877
1918.....	13,656,360	37,291,057	4,785,160	26,007,888	3,237,067	8,351,639
1919.....	10,127,965	24,750,717	4,952,675	31,595,694	2,228,197	4,814,388

(a) Duty, 53 cents per ton.

(b) Coal, anthracite and anthracite coal dust, duty free.

(c) Duty, 14 cents per ton.

The following tables show the monthly imports of bituminous and anthracite coal since 1915.

The United States record of monthly exports to Canada is also included for comparison.

### Monthly Imports of Bituminous Coal into Canada,\* "Entered for Consumption"

(In short tons.)

	1915	1916	1917	1918	1919	1920
January.....	547,772	1,124,918	1,031,719	1,134,493	1,458,240	790,424
February.....	653,016	942,811	760,545	1,460,391	1,064,710	671,212
March.....	547,756	918,206	1,114,958	1,175,076	922,608	1,180,670
April.....	417,133	727,467	1,331,449	986,052	562,853	753,557
May.....	481,908	894,505	893,055	1,541,537	960,491	885,125
June.....	661,569	1,239,882	1,260,652	1,442,412	733,550	924,136
July.....	752,229	1,096,718	1,581,361	1,670,806	1,283,902	1,103,819
August.....	846,162	1,188,822	1,890,923	1,670,397	1,291,041	1,665,171
September.....	680,151	1,287,554	1,567,773	1,604,802	1,203,977	.....
October.....	900,450	1,314,286	1,582,797	1,545,320	1,355,577	.....
November.....	967,791	1,156,239	1,273,498	1,439,535	892,248	.....
December.....	937,773	1,118,380	1,248,532	1,222,606	620,965	.....
Total.....	8,393,710	13,009,788	15,537,262	16,893,427	12,356,162	.....

\*Compiled from the Monthly Reports on Trade of Canada, Ottawa.

### Monthly Imports of Anthracite Coal into Canada,\* "Entered for Consumption"

(In short tons.)

	1915	1916	1917	1918	1919	1920
January.....	270,396	295,578	300,836	279,688	399,676	335,908
February.....	213,797	340,347	277,179	246,960	347,866	296,736
March.....	175,813	381,032	436,567	424,030	170,754	439,334
April.....	361,195	194,402	318,782	362,291	209,958	260,122
May.....	477,522	372,264	347,390	465,561	461,701	329,684
June.....	415,344	513,528	551,105	401,450	431,874	473,829
July.....	341,380	513,858	559,094	382,207	534,488	561,567
August.....	346,689	429,699	665,071	461,651	592,550	591,932
September.....	338,272	433,203	533,203	479,284	563,306	.....
October.....	415,929	385,953	570,771	511,214	443,638	.....
November.....	370,384	383,103	413,200	364,605	379,430	.....
December.....	345,471	327,848	346,100	406,219	417,434	.....
Total.....	4,072,192	4,570,815	5,320,198	4,785,160	4,952,675	.....

\*Compiled from the Monthly Reports on Trade of Canada, Ottawa.

## Monthly Exports of Bituminous Coal from the United States to Canada\*

(In short tons.)

—	1915	1916	1917	1918	1919	1920
January.....	396,715	600,616	654,350	510,022	861,023	512,858
February.....	338,905	605,684	646,008	647,855	500,000	606,222
March.....	306,203	611,640	884,498	951,196	395,229	716,391
April.....	426,970	740,865	1,022,171	1,273,972	562,173	940,460
May.....	660,253	1,467,229	1,569,297	1,978,799	1,218,589	802,427
June.....	978,028	1,476,453	2,017,989	2,019,816	1,602,430	1,337,019
July.....	1,138,333	1,457,326	1,555,972	2,098,600	1,498,681	1,886,889
August.....	1,060,717	1,708,697	2,715,628	2,194,099	1,498,208	2,091,047
September.....	1,058,176	1,519,550	1,739,580	2,038,673	1,581,406	1,965,514
October.....	1,224,880	1,196,122	2,416,800	1,859,456	1,622,438	.....
November.....	1,082,855	1,023,924	1,504,946	1,550,245	377,038	.....
December.....	704,804	852,076	1,391,640	1,011,595	233,062	.....
Total.....	9,356,889	13,260,182	18,118,879†	18,134,328	11,950,277	.....

## Monthly Exports of Anthracite Coal from the United States to Canada\*

(In short tons.)

—	1915	1916	1917	1918 (a)	1919 (a)	1920 (a)
January.....	211,435	288,521	327,838	270,239	412,999	342,797
February.....	198,202	324,354	285,135	254,597	241,940	305,052
March.....	140,128	337,814	408,337	445,041	131,942	470,044
April.....	498,532	237,291	656,731	381,764	319,413	389,361
May.....	461,976	495,609	480,633	476,123	446,652	310,461
June.....	394,502	567,704	677,350	424,203	531,233	573,385
July.....	299,837	432,375	437,493	443,002	546,171	738,186
August.....	328,516	430,379	760,253	457,177	565,845	622,302
September.....	310,400	391,873	501,899	495,840	548,557	364,262
October.....	380,417	374,565	535,715	510,753	485,791	497,718
November.....	312,583	349,053	329,259	482,013	359,205	.....
December.....	316,281	326,776	606,663	327,056	386,850	.....
Total.....	3,852,810	4,556,374	6,007,306	4,967,808	4,976,598	.....

\*Compiled from the Monthly Summary of Foreign Commerce of the United States, Washington, D.C.  
(a) Total exports. Exports to Canada not separately stated, but will exceed 95 per cent of total exports.

## Consumption of Coal

The total consumption of coal in Canada, estimated on the basis of production, imports and exports was in 1919, 28,863,017 tons, which included 11,611,168 tons of Canadian coal and 17,251,849 tons of imported coal.

Statistics of the annual consumption are given in the following tables:—

### Consumption of Coal, 1915-16-17-18-19

(In short tons.)

	1915	1916	1917	1918	1919
Production.....	13,267,023	14,483,395	14,046,759	14,977,926	13,681,218
Exports of Canada.....	1,766,543	2,135,359	1,733,156	1,817,195	2,070,050
Home consumption of Canadian coal...	11,500,480	12,348,036	12,313,603	13,160,731	11,611,168
Imports.....	12,465,902	17,580,603	20,857,460	21,678,587	17,308,837
Exports not produce of Canada.....	59,690	62,783	47,328	67,486	56,988
Canadian consumption of imported coal	12,406,212	17,517,820	20,810,132	21,611,101	17,251,849
Total consumption of coal in Canada...	23,906,692	29,865,856	33,123,735	34,771,832	28,863,017

### Annual Consumption of Coal

(In short tons.)

Calendar Year	Canadian		Imported		Total	Per capita
	Short tons	%	Short tons	%		
1886.....	1,595,950	45.9	1,884,161	54.1	3,480,111	0.758
1887.....	1,848,365	45.7	2,192,260	54.3	4,040,625	0.871
1888.....	2,013,925	37.8	3,314,353	62.2	5,328,278	1.137
1889.....	1,992,988	44.4	2,490,931	55.6	4,483,919	0.946
1890.....	2,360,196	47.8	2,581,187	52.2	4,941,383	1.031
1891.....	2,606,490	46.7	2,980,222	53.3	5,586,712	1.153
1892.....	2,464,012	44.4	3,082,429	55.6	5,546,441	1.133
1893.....	2,823,187	47.6	3,110,462	52.4	5,933,649	1.198
1894.....	2,743,376	48.5	2,917,818	51.5	5,661,194	1.130
1895.....	2,467,109	45.7	2,933,752	54.3	5,400,861	1.066
1896.....	2,639,055	45.1	3,206,456	54.9	5,845,511	1.140
1897.....	2,799,977	47.3	3,124,485	52.7	5,924,462	1.143
1898.....	3,023,079	48.0	3,274,981	52.0	6,298,060	1.200
1899.....	3,631,882	47.0	4,092,361	53.0	7,724,243	1.454
1900.....	3,989,542	47.8	4,361,563	52.2	8,351,105	1.561
1901.....	4,912,664	50.5	4,810,213	49.5	9,722,877	1.810
1902.....	5,376,413	51.0	5,165,938	49.0	10,542,351	1.927
1903.....	6,005,735	52.2	5,491,870	47.8	11,507,605	2.055
1904.....	6,697,183	49.2	6,909,651	50.8	13,606,834	2.346
1905.....	7,032,661	48.9	7,343,880	51.1	14,376,541	2.362
1906.....	7,927,560	51.7	7,398,906	48.3	15,326,466	2.425
1907.....	8,617,352	45.0	10,549,503	55.0	19,166,855	2.947
1908.....	9,156,478	47.3	10,195,424	52.7	19,351,902	2.820
1909.....	8,913,376	47.9	9,711,826	52.1	18,625,202	2.682
1910.....	10,532,103	50.2	10,438,123	49.8	20,970,226	2.960
1911.....	9,822,749	40.5	14,424,949	59.5	24,247,698	3.384
1912.....	12,385,696	46.0	14,549,104	54.0	26,934,800	3.596
1913.....	13,460,153	42.6	18,132,387	57.4	31,592,545	4.071
1914.....	12,214,403	45.5	14,637,920	54.5	26,852,323	3.325
1915.....	11,500,480	48.1	12,406,212	51.9	23,906,692	3.015
1916.....	12,348,036	41.3	17,517,820	58.7	29,865,856	3.669
1917.....	12,313,603	37.2	20,810,132	62.8	33,123,735	3.962
1918.....	13,160,731	37.8	21,611,101	62.2	34,771,832	4.047
1919.....	11,611,168	40.2	17,251,849	59.8	28,863,017	.....

In connexion with the records of consumption it may be of interest to record the very large percentage of Canadian coal consumption used by railway locomotives. During the twelve months ending June 30, 1919, the tonnage of coal used by locomotives amounted to 9,141,023.

The quantity of coal consumed by railway locomotives in recent years, as compiled from "Railway Statistics," published by the Department of Railways and Canals, is as follows:—

### Annual Consumption of Coal by Railway Locomotives

(In short tons.)

Year ending June 30	Anthracite	Bituminous	Total
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

### Nova Scotia

The production of coal in Nova Scotia in 1919 was 5,720,373 tons, as compared with a production in 1918 of 5,818,562 tons, showing a decrease of 98,189 tons, or 1.7 per cent.

The total sales of coal during 1919 were 4,871,607 tons, of which 4,274,874 tons were sold for consumption in Canada, 12,119 tons for export to the United States, 584,614 tons for export to Newfoundland and other countries.

The total quantity used by producers under colliery boilers, in coke ovens, and in steel plants was 848,766 tons, including 222,269 tons used in making coke, and for other commercial purposes, and 626,497 tons used in the operation of collieries, or by workmen.

A considerable tonnage of coal reported as sold for consumption in Canada is also used in the manufacture of coke, the total coal charged to coke ovens in the province during the year being 699,696 tons.

The Dominion Coal Company has for many years been the principal operator, the total production of this firm's collieries at Cape Breton and at Springhill being 3,837,787 tons, or over 67 per cent of the province's production, and equivalent to over 28 per cent of the total Canadian production. The Nova Scotia Steel and Coal Company produced 590,323 tons, the Acadia Coal Company 456,269 tons, the Inverness Railway and Coal Company 158,271 tons, the Maritime Coal, Railway and Power Company 185,296 tons, and the Intercolonial Coal Mining Company 207,650 tons.

Nova Scotia was the first province in Canada in which coal was mined and up to date has produced more coal than all the other provinces combined. The annual production reached a maximum in 1913, with a total of 7,980,073 tons. During the past three years, however, the production has fallen off nearly 30 per cent. As the war proceeded the loss of experienced miners through enlistment became heavy. The output was reduced and increasing demands for coal for local consumption and for bunkering overseas shipping soon absorbed the available coal that formerly went to the Montreal market.

For a number of years Nova Scotia mines, chiefly those of Cape Breton, had been shipping from 2,000,000 to 2,500,000 tons of coal to Montreal, and other Quebec markets, via the St. Lawrence. During the twelve months ending September, 1919, 386,022 tons of Nova Scotia coal were marketed in Quebec province, as against 150,582 tons in 1918; 339,374 tons in 1917; 1,114,337 tons in 1916, and 2,048,222 tons in 1915.

The quantity of coal marketed within the province increased from 2,467,000 tons in 1914 to 3,226,000 tons in 1917, but has fallen again to 2,814,000 tons in 1919.

The present distribution also shows a larger quantity of coal marketed in New Brunswick and in Newfoundland than before the war. The exports to the United States, which reached 596,000 tons in 1915, have fallen to 85,000 tons in 1919, whilst during the latter year 72,000 tons were shipped to European markets.

# Coal Production by Companies, in Nova Scotia, 1919

(In short tons.)

	Total Sales	Used			Production <sup>2</sup>	Stocks		Losses <sup>3</sup>	Output
		For Coke <sup>1</sup>	Colliery Consumption	Workmen		Jan. 1	Dec. 31		
<i>Inverness County—</i>									
Inverness Ry. and Coal Co.....	122,104		28,818	7,349	158,271	4,548	691	581	154,995
Port Hood Collieries, Ltd.....	31,643		2,193	820	34,656		13		34,669
St. Rose Mine (G. W. Evans).....	204		97	92	393		7		342
Chimney Corner Mine (S. J. Doucet).....	796				796		33		765
Anglo Coal Co., Ltd.....	22,919		403	461	23,783		2,238		26,021
	177,666		31,511	8,722	217,899	4,639	2,949	581	216,790
<i>Cape Breton County—</i>									
Indian Cove Coal Co., Ltd.....	18,445		872	3,660	22,977				22,977
Dominion Coal Co., Ltd.....	3,018,990	26,179	291,824	63,336	3,400,329	11,664	50,308	19,181	3,458,154
Nova Scotia Steel and Coal Co., Ltd.....	341,196	193,306	32,774	23,047	590,323	645	6,637	20,766	617,081
Bras d'Or Coal Co., Ltd.....	45,352		997	703	47,052	769			46,283
	3,423,983	219,485	326,467	90,746	4,060,681	13,078	56,945	39,947	4,144,495
<i>Pictou County—</i>									
Acadia Coal Co., Ltd.....	413,800		24,270	18,199	456,269	243	179		456,205
Milford Mining Co.....	20,642		2,772		23,414				23,414
Greenwood Coal Co., Ltd.....	42,737		2,985	794	46,516	84	63		46,495
Intercolonial Coal Mining Co., Ltd.....	174,686	2,784	22,697	7,483	207,650	584	600		207,666
Lanark Engineering Co.....	18,762		1,663	203	20,628				20,628
	670,627	2,784	54,387	26,679	754,477	911	842		754,408
<i>Cumberland County—</i>									
Central Coal Co.....	1,877		210		2,087	14		31	2,104
Maritime Coal, Ry. and Power Co., Ltd.....	176,135		4,555	4,606	185,296	4,270	648	1,172	182,846
Twin Seam Coal Co., Ltd.....	6,081		240	200	6,471				6,471
Dominion Coal Co., Ltd. (Springhill).....	361,966		63,212	12,280	437,458	2,948	6,134	10	440,654
Minudie Coal Co., Ltd.....	36,914		1,600		38,514			986	39,500
The Emmerson Coal Co., Ltd.....	8,025		300	120	8,445				8,445
The Sterling Coal Co.....	6,334		212	223	7,269	84			7,185
Fundy Mining Co.....	651				651				651
Royal Coal Co., Ltd.....	405				405				405
Export Coal Co., Ltd.....	493		212	15	720				720
	599,331		70,541	17,444	687,316	7,316	6,782	2,199	688,981
<b>Total.....</b>	<b>4,871,607</b>	<b>222,269</b>	<b>482,906</b>	<b>143,591</b>	<b>5,720,873</b>	<b>25,944</b>	<b>67,518</b>	<b>42,727</b>	<b>5,804,674</b>

<sup>1</sup>Includes also coal used by producers for steel making and other purposes.    <sup>2</sup>Production is obtained by adding sales and coal used.    <sup>3</sup>Complete records of losses are not furnished by all producers.

## Coal Production by Companies, in Nova Scotia, 1918

(In short tons.)

	Total Sales	Used			Production <sup>2</sup>	Stocks		Losses <sup>3</sup>	Output
		For Coke <sup>1</sup>	Colliery Consumption	Workmen		Jan. 1	Dec. 31		
<i>Inverness County—</i>									
Inverness Ry. and Coal Co.....	185,042		36,723	7,615	229,379	596	250		229,033
Port Hood Collieries, Ltd.....	4,031		454	201	4,686		29		4,715
St. Rose Mine (G. W. Evans).....	216		107	20	344				344
Chimney Corner Mine (S. J. Doucet).....	503				503			83	586
	189,792		37,284	7,836	234,912	596	279	83	234,678
<i>Cape Breton County—</i>									
Indian Cove Coal Co., Ltd.....	12,100		71	83	12,254				12,254
Dominion Coal Co., Ltd.....	3,278,578		318,136	66,136	3,663,020	26,952	11,664	16,633	3,664,366
Nova Scotia Steel and Coal Co., Ltd.....	95,585	275,336	129,167	30,078	530,162	1,620	645	33,106	562,297
Bras d'Or Coal Co., Ltd.....	54,421		1,107	835	56,367	447			55,915
	3,440,684	275,336	448,651	97,132	4,261,803	29,019	12,309	49,739	4,294,832
<i>Pictou County—</i>									
Acadia Coal Co., Ltd.....	268,562		35,030	14,821	318,414	7,828	243		310,829
Milford Mining Co.....	17,055		1,903	438	19,396			169	19,565
Greenwood Coal Co., Ltd.....	52,692		2,664	1,162	56,517	307	84		56,295
Intercolonial Coal Mining Co., Ltd.....	165,191	2,545	23,439	7,697	198,872	1,423	584		198,032
	503,500	2,545	63,036	24,118	593,199	9,558	911	169	584,721
<i>Cumberland County—</i>									
Central Coal Co.....	1,161		181	14	1,358		15	4	1,376
Maritime Coal, Ry. and Power Co., Ltd.....	170,667		28,566	4,822	204,054				204,054
Twin Seam Coal Co., Ltd.....	6,021		239	112	6,371				6,372
Dominion Coal Co., Ltd. (Springhill).....	339,568		67,450	13,120	420,138	9,896	2,948		413,190
Minudie Coal Co., Ltd.....	21,109		4,590		25,698	235		624	26,087
Strathcona Coal Mine (A. W. Pugsley).....	19,153		1,120	392	20,665				20,665
The Sterling Coal Co.....	17,495		423	305	18,223				18,222
Fundy Mining Co.....	6,743		91	262	7,096	11	42		7,128
Royal Coal Co., Ltd.....	3,815			208	4,023				4,023
Atlantic Coal Co., Ltd.....	1,613				1,613				1,613
Fenwick Coal Co., Ltd.....	17,489		1,799	120	19,409				19,409
	604,834		104,459	19,355	728,648	10,142	3,005	628	722,139
<b>Total.....</b>	<b>4,738,810</b>	<b>277,881</b>	<b>653,430</b>	<b>148,441</b>	<b>5,818,562</b>	<b>49,315</b>	<b>16,504</b>	<b>50,619</b>	<b>5,836,370</b>

<sup>1</sup>Includes also coal used by producers for steel making and other purposes. losses are not furnished by all producers.

<sup>2</sup>Production is obtained by adding sales and coal used.

<sup>3</sup>Complete records of



## Output, Sales, Colliery Consumption, and Production of Coal in Nova Scotia

Calendar Year	Output	Sold or used	Colliery consumption	Production*	Price per ton of 2,240 lbs.	Value of production
	Tons of 2,000 pounds					
					\$ cts.	\$
1785 to 1873.....				8,053,670	1 75	12,583,860
1874.....	977,446	839,022	133,932	972,954	1 75	1,520,240
1875.....	874,905	791,610	139,003	930,613	1 75	1,454,084
1876.....	794,804	710,312	127,443	837,755	1 75	1,308,991
1877.....	848,396	769,513	110,702	880,215	1 75	1,375,339
1878.....	863,075	776,732	99,262	875,904	1 75	1,368,741
1879.....	882,863	771,259	94,961	866,220	1 75	1,353,469
1880.....	1,156,635	1,069,218	108,451	1,177,669	1 75	1,840,108
1881.....	1,259,183	1,159,216	120,834	1,280,050	1 75	2,000,079
1882.....	1,529,708	1,400,200	124,747	1,524,947	1 75	2,382,730
1883.....	1,503,259	1,453,226	125,383	1,578,609	1 75	2,466,576
1884.....	1,556,011	1,413,048	130,781	1,543,829	1 75	2,412,233
1885.....	1,514,470	1,405,051	142,939	1,547,990	1 75	2,418,735
1886.....	1,682,924	1,538,506	159,512	1,698,018	1 75	2,653,152
1887.....	1,871,330	1,702,046	156,550	1,858,596	1 75	2,904,057
1888.....	1,989,263	1,765,895	176,336	1,942,231	1 75	3,034,735
1889.....	1,967,032	1,741,720	177,107	1,918,827	1 75	2,998,167
1890.....	2,222,081	2,000,444	180,589	2,181,033	1 75	3,407,864
1891.....	2,290,158	2,071,938	195,981	2,207,919	1 75	3,543,624
1892.....	2,175,913	1,963,286	196,103	3,159,389	1 75	3,374,046
1893.....	2,489,807	2,214,848	230,076	2,444,924	1 75	3,820,194
1894.....	2,520,707	2,308,231	219,751	2,527,982	1 75	3,949,970
1895.....	2,239,727	2,008,270	216,875	2,225,145	1 75	3,476,790
1896.....	2,537,706	2,202,447	216,132	2,508,579	1 75	3,919,655
1897.....	2,020,835	2,290,032	203,522	2,493,554	1 75	3,896,179
1898.....	2,584,175	2,375,661	187,519	2,563,180	1 75	4,004,970
1899.....	3,209,296	2,950,067	198,755	3,148,822	2 00	5,622,898
1900.....	3,694,646	3,358,585	264,051	3,623,536	2 50	8,088,256
1901.....	4,279,557	3,820,462	337,606	4,158,068	1 75	6,496,982
1902.....	5,292,538	4,736,614	424,702	5,161,316	2 00	9,216,636
1903.....	5,841,429	5,113,607	539,731	5,653,338	2 00	10,095,246
1904.....	5,747,823	5,097,949	498,292	5,596,241	2 00	9,993,288
1905.....	5,821,622	5,167,476	479,107	5,646,583	2 00	10,083,184
1906.....	6,546,191	5,704,307	516,198	6,220,505	2 00	11,108,044
1907.....	6,468,563	5,864,406	489,727	6,354,133	2 25	12,764,999
1908.....	6,805,489	5,851,761	645,690	6,652,539	2 25	13,364,476
1909.....	5,718,871	5,066,912	585,177	5,652,089	2 25	11,354,643
1910.....	6,515,162	5,723,681	607,461	6,431,142	2 25	12,919,705
1911.....	7,125,551	6,358,080	646,340	7,004,420	2 25	14,071,379
1912.....	7,834,724	7,052,573	731,315	7,783,888	2 50	17,374,750
1913.....	8,135,104	7,257,006	723,067	7,980,073	2 50	17,812,663
1914.....	7,448,042	6,637,110	733,814	7,370,924	2 50	16,452,955
1915.....	7,513,739	6,818,773	644,597	7,463,370	2 50	16,659,308
1916.....	6,911,995	6,236,439	675,701	6,912,140	3 00	18,514,667
1917.....	6,345,335	5,599,489	727,602	6,327,091	3 44	19,410,737
1918.....	5,836,370	5,016,691	801,871	5,818,562	4 06	21,095,470
1919.....	5,804,674	5,069,876	626,497	5,720,373	4 32	22,078,726
Total.....				177,539,045		364,047,589

\*This production is obtained by adding sales and colliery consumption.

## Coal Trade by Counties in Nova Scotia, Calendar Years since 1906

(In short tons.)

Calendar Year	Cumberland		Pictou		Cape Breton		Other Counties		Total	
	Raised	Sold*	Raised	Sold*	Raised	Sold*	Raised	Sold*	Raised	Sold*
1906.....	659,734	566,308	769,496	657,310	4,804,407	4,221,293	312,554	259,396	6,546,191	5,704,307
1907.....	534,047	445,288	840,533	729,043	4,698,147	4,346,180	395,836	343,895	6,468,563	5,864,406
1908.....	662,157	530,648	849,802	678,025	4,840,653	4,267,346	452,877	375,742	6,305,489	5,851,761
1909.....	494,919	403,371	748,860	599,743	4,081,333	3,723,135	398,759	340,663	5,718,871	5,066,912
1910.....	350,363	288,706	714,846	588,878	5,035,800	4,571,347	414,153	374,950	6,515,162	5,823,681
1911.....	538,296	436,125	833,956	691,852	5,405,355	4,917,902	347,944	312,201	7,125,551	6,358,080
1912.....	716,914	595,138	765,678	641,890	6,039,296	5,530,765	312,836	284,780	7,834,724	7,052,573
1913.....	675,544	553,845	817,177	694,659	6,313,275	5,709,995	329,108	298,507	8,135,104	7,257,006
1914.....	702,496	572,765	681,356	571,063	5,767,566	5,266,733	296,624	226,549	7,448,042	6,637,110
1915.....	736,794	620,667	581,226	508,145	5,920,670	5,486,292	275,049	203,669	7,513,739	6,818,773
1916.....	685,517	578,914	612,611	528,480	5,317,756	4,874,793	296,111	254,252	6,911,995	6,236,439
1917.....	711,164	603,633	725,992	635,523	4,680,650	4,176,581	227,529	183,752	6,345,335	5,599,439
1918.....	722,139	604,834	584,721	506,045	4,294,832	3,716,020	234,678	189,792	5,836,370	5,016,691
1919.....	688,981	599,331	754,408	673,411	4,144,495	3,643,468	216,790	177,666	5,804,674	5,093,876

\*Sales include coal used for making coke and steel.

## Distribution of Coal Sold by Nova Scotia Producers

Markets	Fiscal year ending September 30											
	1914		1915		- 1916		1917		1918		1919	
	Short tons	Per cent	Short tons	Per cent	Short tons	Per cent	Short tons	Per cent	Short tons	Per cent	Short tons	Per cent
Nova Scotia—												
Transported by land.....	2,099,186	30.40	1,976,943	30.65	2,673,866	40.23	2,707,719	47.01	2,579,188	49.91	2,299,147	46.03
"          "          sea.....	368,551	5.34	392,340	6.08	491,591	7.40	518,763	9.01	510,846	9.89	515,097	10.31
Total Nova Scotia.....	2,467,737	35.74	2,369,283	36.73	3,165,457	47.63	3,226,482	56.02	3,090,034	59.80	2,814,244	56.34
New Brunswick.....	762,150	11.04	675,693	10.48	865,238	13.02	994,741	17.27	988,521	19.13	846,532	16.95
Prince Edward Island.....	107,275	1.55	93,171	1.45	92,876	1.40	115,548	2.01	87,431	1.69	87,865	1.76
Quebec.....	2,667,372	38.63	2,048,222	31.76	1,114,337	16.77	339,374	5.89	150,583	2.92	386,022	7.73
Newfoundland.....	252,660	3.66	233,735	3.63	281,259	4.23	264,914	4.60	245,487	4.75	304,897	6.10
United States.....	336,741	4.88	596,606	9.25	509,773	7.67	383,152	6.65	301,370	5.83	84,910	1.70
St. Pierre.....	9,673	0.14	11,729	0.18	6,485	0.10	6,768	0.11	6,043	0.12	16,117	0.32
Bunker coal.....	278,645	4.04	383,273	5.94	604,601	9.10	428,929	7.45	289,351	5.60	375,642	7.53
For time chartered boats.....	20,787	0.30	18,968	0.29	.....	.....	.....	.....	.....	.....	.....	.....
Loss at sea.....	.....	.....	9,427	0.15	392	.....	.....	.....	8,283	0.16	6,429	0.13
Other countries.....	1,312	0.02	8,749	0.14	5,338	0.08	335	.....	.....	.....	72,148	1.44
Total.....	6,904,352	100.00	6,448,856	100.00	6,645,756	100.00	5,760,243	100.00	5,167,103	100.00	4,994,806	100.00

## Number and Classes of Workmen in the Coal Mines of Nova Scotia. Year ended September 30, 1919

Company	Average days pit worked per Month	Average Daily Force					Transportation, Upkeep and Repairs	Total Workmen	Total Horses
		Surface	Under-ground	Cutting Coal	Total Colliery Men	Total Colliery Day			
Dominion Coal Co.....	23-9	869	3,235	811	4,915	1,409,620	1,772	6,687	480
Nova Scotia Steel and Coal Co.....	22	307	808	492	1,607	424,250	105	1,712	124
Bras d'Or Coal Company.....	18	19	19	52	90	19,450	2	92	16
Indian Cove Coal Company.....	20	8	6	27	41	9,840	3	44	6
Anglo Coal Co.....	23-5	16	34	16	66	18,612	4	70	
Inverness Railway and Coal Company.....	17-8	115	260	180	555	118,550	160	715	32
Port Hood Collieries.....	20	19	30	23	72	17,300	8	80	3
S. J. Doucet (Chimney Corner).....	18-5	4	2	3	9	1,450	1	10	1
E. L. Thorne (Trustee) St. Rose.....	10	1	2	2	5	600		5	
Acadia Coal Company.....	21	240	408	506	1,154	290,810	61	1,215	62
Intercolonial Coal Mining Co.....	25	117	161	159	437	131,100	36	473	27
Greenwood Coal Company.....	19-5	28	26	66	120	28,134	4	124	
Alexander Sutherland (Milford).....	24	8	7	24	39	10,450	2	41	
Cumberland Railway and Coal Co.....	24-3	213	344	237	794	231,530	13	807	49
Maritime Coal, Railway and Power Co.....	23-3	91	234	145	470	132,032	10	480	6
Minudie Coal Co.....	15-2	16	65	35	116	21,158	14	130	1
Twin Seam Coal Co.....	20-5	5	8	6	19	4,560	3	22	
Eastern Coal Co.....	6-5	5	4	6	15	1,170	2	17	
Emerson Coal Co.....	18	10	10	25	45	9,720	1	46	3
Sterling Coal Co.....	12-5	12	13	24	49	7,350	1	50	6
Fenwick Coal Co.....	6	40	9	20	69	4,965	6	75	
Central Coal Co.....	23	2	1	8	11	3,035	1	12	
Fundy Coal Co. (Sherwood & Swanson, Trustees)	4-6	4	5	7	16	885	2	18	
.....		2,149	5,691	2,874	10,714	2,896,571	2,211	12,925	816

## New Brunswick

The production of coal in New Brunswick in 1919 was 179,108 tons, as against 268,212 tons in 1918, showing a decrease of 89,104 tons, or 33 per cent.

Through the courtesy of the operators the department is permitted to publish a record of the production from individual properties, as shown in the accompanying tables:—

## Production of Coal in New Brunswick, 1919

(In short tons.)

	Time in operation	Total sales	*Total for colliery use	Total production
Avon Coal Co., Ltd., Newcastle Creek.....	10 mos.	16,143	1,143	17,286
Coakley, Jer., Minto.....	5 mos.	612		612
Grand Lake Coal Co., Ltd., Minto.....	26 days.	744		744
King, G. H., Chipman.....		9,688	263	9,951
Minto Coal Co., Ltd., Minto.....	290 days.	91,299	2,518	93,817
Northfield Coal Co., Ltd., Minto.....	4 mos.	1,261		1,261
Ridge Coal Co., Ltd., Newcastle Bridge.....	304 days.	5,392	408	5,800
Rothwell Coal Co., Ltd., Rothwell.....	8 mos.	6,255	682	6,937
Sheffield Coal Co., Ltd., Minto.....		15,266	1,550	16,816
Taylor, A. D., Minto.....	233 days.	9,453	560	10,013
Welton Harvey, Minto.....	12 mos.	14,001		14,001
All others.....		1,665	205	1,870
Total New Brunswick.....		171,779	7,329	179,108

\*Includes consumption under boilers, etc., and coal used by workmen.

## Production of Coal in New Brunswick, 1918

(In short tons.)

	Days in operation	Total sales	*Total for colliery use	Total production
Avon Coal Co., Ltd., Newcastle Creek.....	299	13,635	1,589	15,224
Coakley, Jer., Minto.....	10 mos.	1,720		1,720
Dean Coal Co., Adamsville.....	4 mos.	477	72	549
Grand Lake Coal Co., Ltd., Minto.....	289	12,991	200	13,191
Kelley Coal Co., Ltd., Minto.....	156	1,302	105	1,407
King, G. H., Chipman.....	12 mos.	15,994	223	16,217
Minto Coal Co., Ltd., Minto.....	310	124,531	2,615	127,146
Northfield Coal Co., Ltd., Minto.....		3,886	80	3,966
Ridge Coal Co., Ltd., Newcastle Bridge.....	12 mos.	1,857	655	2,512
Robinson, A. G., Salmon Harbour.....	2 mos.	162	28	190
Rothwell Coal Co., Ltd., Rothwell.....	305	29,997	2,674	32,671
Sheffield Coal Co., Ltd., Minto.....	147	6,534	694	7,228
Smith & Merrithew, Ltd., Minto.....	10 mos.	4,457		4,457
Welton Harvey, Minto.....	12 mos.	39,922		39,922
All others.....		1,578	234	1,812
Total New Brunswick.....		259,043	9,169	268,212

\*Includes consumption under boilers, etc., and coal used by workmen.

## Annual Production of Coal in New Brunswick

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
		\$	\$ cts.			\$	\$ cts.
1887.....	10,040	23,607	2 35	1904.....	9,112	18,224	2 00
1888.....	5,730	11,050	1 93	1905.....	29,400	58,800	2 00
1889.....	5,673	11,733	2 07	1906.....	34,076	68,152	2 00
1890.....	7,110	13,850	1 95	1907.....	34,584	77,814	2 25
1891.....	5,422	11,030	2 03	1908.....	60,000	135,000	2 25
1892.....	6,768	9,375	1 39	1909.....	49,029	98,496	2 25
1893.....	6,200	9,837	1 59	1910.....	55,455	110,910	2 00
1894.....	6,469	10,264	1 59	1911.....	55,781	111,562	2 00
1895.....	9,500	14,250	1 50	1912.....	44,780	89,560	2 00
1896.....	7,500	11,250	1 50	1913.....	70,311	166,637	2 37
1897.....	6,000	9,000	1 50	1914.....	98,049	241,075	2 46
1898.....	6,160	9,240	1 50	1915.....	127,391	309,612	2 43
1899.....	10,528	15,792	1 50	1916.....	143,540	389,016	2 69
1900.....	10,000	15,000	1 50	1917.....	189,095	708,010	3 74
1901.....	17,630	51,857	2 94	1918.....	268,212	1,331,710	4 97
1902.....	18,795	39,680	2 11	1919.....	179,108	794,761	4 42
1903.....	16,000	40,000	2 50				
				Total.....	1,603,448	5,013,154	

The coal-producing areas include the Grand Lake coal-fields in Queens and Sunbury counties, and the Beersville area in Kent county. In the Grand Lake area the coal seams, which vary in thickness from 20 to 32 inches, are found at a depth of from 30 to 60 feet below the surface.

## Saskatchewan

The coal deposits of Saskatchewan furnish coal of the lignite variety only, and the production in 1919 from 64 collieries was 380,169 tons, valued at \$820,522, as compared with 346,847 tons, valued at \$722,148 in 1918, an increase of 33,322 tons, or 9.6 per cent.

The 1919 production included 354,399 tons of coal sold and 25,770 tons used by producers for colliery consumption, by workmen, or in brick-making.

The output of coal comes chiefly from the vicinity of Estevan, located on the Souris river, near the southeastern corner of the province. Coal deposits exist for 75 or 100 miles in a northwest-southeast direction along the Souris river, on Big Muddy creek, draining Willowbunch lake and on the south branch of the Saskatchewan river, about 100 miles southwest of Saskatoon.

The annual production and the production by the principal operators in 1919 and 1918 is shown in the following tables:—

### Production of Coal in Saskatchewan in 1919, by Principal Operators

(In short tons.)

Name of Company	Time in operation	Total sales	Total for colliery use*	Total production
Anderson, Niels, Estevan.....	138 days	1,615		1,615
Bienfait Commercial Co., Ltd., Bienfait.....	12 mos.	40,079	1,661	41,740
Bienfait Mine (The) Bienfait.....	12 mos.	65,992	2,487	68,479
Crescent Collieries, Ltd.....	7 mos.	11,944	630	12,574
Eidsness Bros., Gladmar.....		1,812		1,812
Estevan Coal and Brick Co., Ltd., Estevan.....	283 days	10,450	152	10,602
Heuvel, Henry V., Hart.....	5 mos.	1,168		1,168
Inter-Provincial Coal Co., Ltd., Roche Percée.....	7 mos.	2,315	36	2,351
Dempsey, Wm., Shaunavon.....	2 mos.	3,180		3,180
McNeil & Brooks, Estevan.....	12 mos.	1,456		1,456
Manitoba and Saskatchewan Coal Co., Ltd., Estevan	201 days	61,133	5,959	67,142
Nicholson, H., Estevan.....	259 days	7,000	124	7,124
Parkinson, Geo., Estevan.....	12 mos.	4,419		4,419
Salaba, Jas.....		1,947	30	1,977
Shand Coal, Brick and Power Co., Ltd., Shand.....	12 mos.	19,455	2,340	21,795
Siddall, Edwin.....	10 mos.	1,016		1,016
Western Dominion Collieries, Ltd., Taylorton.....	213 days	109,910	5,577	115,487
Hamilton, H. A.....	76 days	1,340		1,340
All other operators (46).....		8,118	6,774	14,892
<b>Total Saskatchewan.....</b>		<b>354,399</b>	<b>25,770</b>	<b>380,169</b>

\*Includes consumption under boilers, etc., and coal used by workmen.

### Production of Coal in Saskatchewan in 1918, by Principal Operators

(In short tons.)

Name of Operator	Days in operation	Total sales	Total for colliery use*	Total production
Anderson, Niels, Estevan.....	116	1,041		1,041
Bienfait Commercial Co., Ltd., Bienfait.....	282	18,421	840	19,261
Bienfait Mine (The) Bienfait.....	244	63,473	2,449	65,922
Eidsness Bros., Gladmar.....	172	1,285		1,285
Estevan Coal and Brick Co., Ltd., Estevan.....	281	7,040	3,914	10,954
Heuvel, Henry V., Hart.....	12 mos.	1,521		1,521
Inter-Provincial Coal Co., Ltd., Roche Percée.....	297	4,407	80	4,487
Lilja & Dempsey, Shaunavon.....	257	2,261		2,261
McNeil & Brooks, Estevan.....		1,174	75	1,249
Manitoba & Saskatchewan Coal Co., Ltd., Estevan.....	227	69,628	5,741	75,369
Nicholson, H., Estevan.....	213	2,282		2,282
Parkinson, Geo., Estevan.....	12 mos.	3,660		3,660
Saskatchewan Colliery Co., Ltd., Roche Percée.....	6 mos.	2,500	100	2,600
Saskatchewan Coal, Brick & Power Co., Ltd., Shand.....	266	30,409	2,200	32,609
Western Dominion Collieries, Ltd., Taylorton.....	235	98,448	6,386	104,834
Wilson, Alex., Taylorton.....	3 mos.	1,304	25	1,329
All other operators (51).....		15,747	376	16,123
<b>Total Saskatchewan.....</b>		<b>324,661</b>	<b>22,186</b>	<b>346,847</b>

\*Includes consumption under boilers, etc., and coal used by workmen.

## Annual Production of Coal in Saskatchewan

Calendar Year	Short tons	Value	Average	Calendar Year	Short tons	Value	Average
			per ton				per ton
		\$	\$ cts.			\$	\$ cts.
1887.....	(a) 400	800	2 00	1906.....	108,398	164,146	1 51
1890.....	200	200	1 00	1907.....	151,232	252,437	1 67
1891.....				1908.....	150,556	253,790	1 69
1892.....	5,400	9,325	1 73	1909.....	192,125	296,339	1 54
1893.....	8,325	12,485	1 50	1910.....	181,156	293,923	1 62
1894.....	(b) 15,051	15,153	1 01	1911.....	206,779	347,248	1 68
1895.....	15,769	31,538	2 00	1912.....	225,342	368,135	1 63
1896.....	16,706	25,059	1 50	1913.....	212,897	358,192	1 68
1897.....	25,000	37,500	1 50	1914.....	232,299	374,245	1 61
1898.....	25,000	37,500	1 50	1915.....	240,197	365,246	1 52
1899.....	25,000	37,500	1 50	1916.....	281,300	441,836	1 57
1900.....	40,500	60,750	1 50	1917.....	355,445	662,451	1 86
1901.....	45,000	72,000	1 60	1918.....	346,847	722,148	2 08
1902.....	70,400	112,640	1 52	1919.....	380,169	820,522	2 158
1903.....	116,703	169,618	1 45				
1904.....	124,885	187,021	1 50	Total.....	3,906,587	6,682,081	.....
1905.....	107,596	152,334	1 42				

(a) From Turtle Mountain district, Manitoba.

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

*Lignite Utilization Board of Canada.*—During 1919 the Board continued the experimental investigations on the carbonizing and briquetting of Saskatchewan lignites and before the end of the year were sufficiently satisfied with the commercial feasibility of the project to prepare designs for a commercial plant and to arrange for the placing of contracts for a part of the equipment.

On September 1, 1920, the Board issued a special report to the Western Boards of Trade on the progress that had been made in its operations which included the following:—

## EXPERIMENTAL PROGRAMME.

"As previously announced the Board determined practically at the inception of its work to await the outcome of its experimental programme before committing itself to the investment of large sums of money in capital equipment which might afterwards prove unsuitable for the purpose intended." Having adopted this point of view it became increasingly evident during the summer of 1919 that the Board's future work and indeed the successful solution of the whole problem of the commercial briquetting of lignites, were absolutely dependent upon the result of the experimental programme prosecuted in Ottawa during the months of June, July, August and September, 1919. At the same time the Board wishes to record its great appreciation of the co-operation and assistance of the Mines Branch, Department of Mines.

"It was clearly seen that the two most important items of research facing the Board were those of (a) carbonizing and (b) briquetting.

"(a) *Carbonizing.*—As mentioned in the previous report, the Board was forced reluctantly to the opinion that no commercial carbonization of lignite had ever been undertaken and thereupon set itself to devise a type of apparatus that would carbonize lignite under commercial conditions. This was successfully accomplished and during the months of July, August, September and October, experimental runs were made on the carbonizer in Ottawa. The net result of the experiments was that the board became convinced that the problem had practically been solved. This fact enabled the chairman to announce at the public meeting of the Board held in Winnipeg in October, 1919, that the board had decided to proceed with the erection of its main plant. Patents have been applied for on the design of the carbonizer in Canada, United States, Italy and Australia, and the Board believes that with the passage of time the carbonizer will prove a great value to the lignite industry in general.

"(b) *Briquetting.*—The difficulties confronting the Board on the question of briquetting were not so large as those of carbonizing, and yet the economic aspects were serious. It became apparent that the published results of briquetting experiments conducted by other investigators on anthracite were not at all applicable to the briquetting of carbonized lignite. As an example of this fact it may be noted that to produce a good briquette from carbonized lignite requires almost double the quantity of binder necessary to make a correspondingly good briquette from anthracite fines. This condition made it essential that the Board should know beyond peradventure the minimum amount of binder necessary to produce the first quality briquette in order to judge of the future cost of such a product. Owing to the almost complete absence of native binding material in the West and to their consequent high cost when imported, it became essential to cut down to the utmost the quantity of binder used.



"During the progress of the Board's investigations the following substances have been tried as binding agents:—

Coal tar pitches.  
 Hard wood tar pitches.  
 Lignite tars.  
 Sulphite liquor pitches.  
 Asphalts.  
 Petroleum pitches.  
 Cement.  
 Resins.  
 Starches.  
 Flour and flour screenings.  
 Water glass.  
 Waste straw jelly, etc.

"Fairly satisfactory briquettes have been made with almost all of the above and very good briquettes with some of them. In addition all sorts of combinations of the foregoing materials have been tried and as a result the Board feels after consideration of all factors that for the present the best briquette will be a straight coal tar pitch briquette or one made by substituting flour screenings for some of the coal tar pitch.

"The question of smokiness has been one of the important considerations of the Board, and the conclusion has been reached that in the meantime it is better to get a good briquette (physically) on the market than to delay the consummation of the Board's work by a further experimental programme on secondary heat treatments of coking devices. In any event the substitution of some parts of flour for coal tar pitch has a marked effect in reducing the total quantity of smoke. The Board also feels that it is better to get any reasonable lignite briquette on the market at the very earliest moment and afterwards attempt to improve its quality as regards smokiness.

The foregoing brief analysis of experimental programme will indicate to the reader the net result as far as the two principal objectives are concerned.

#### SITE.

"When the decision had been reached to proceed with the erection of its main plant the Board set itself to choose a satisfactory site, and made a careful examination of all features affecting the situation. As a result the Board decided to place the plant at a point about midway between the mines of the Manitoba and Saskatchewan Coal Company and of the Western Dominion Collieries. The advantages of such a position were:—

- i. An assured supply of raw material suitable for the Board's needs irrespective of weather conditions.
- ii. An ample supply of water suitable for the Board's purposes.

"After a long series of negotiations an agreement has been drawn up between the two mining companies and the Board by which the interests of the public are fully protected.

#### GENERAL PROGRAMME.

"The design of the plant was next completed, and competitive tenders called for, for its erection. The contract was awarded to Messrs. Smith Bros. & Wilson of Regina, and in spite of many adverse circumstances, good progress has been made. Owing, however, to extremely slow deliveries of material the Board wishes to record the fact that it will be quite impossible to have briquettes on the market by October, 1920. As an example of the difficulties the Board is facing, we have been in receipt of quotations for the supply of material with deliveries of from 12 to 32 weeks. This unprecedented situation has been the determining factor in the serious delay of the Board's programme.

#### PRESENT SITUATION.

"To date the Board has let contracts for the supply of all buildings and equipment, with the exception of water supply and drainage, carbonizers, piping and housing. Plans and specifications for the water supply and drainage are now ready and bids are to be returned to the Board on or before September 14th. Plans and specifications for the carbonizers will be ready to distribute to the public on September 13th. The piping layouts are being prepared at the present time in the Board's offices. Housing plans were deferred for some little time awaiting the settlement of the financial side of the question. The whole question of housing seems, however, to be now arranged, and the drawings and specifications are being hurried to completion."

### Alberta

Coal production in this province includes a small tonnage of semi-anthracite from the Bankhead mine at Banff, bituminous coals of excellent quality as well as a considerable tonnage of lignite coal.

In 1919 bituminous coal contributed 46.5 per cent of the total production, lignite 51.3 per cent, and semi-anthracite 2.2 per cent.

The total production of coal in Alberta in 1919 was 4,964,535 tons, valued at \$18,294,495, or an average of \$3.69 per ton, as compared with a production of 5,972,816 tons, valued at \$20,537,287, or an average of \$3.44 per ton in 1918.

There are many small operators in the province, the number reporting production in 1919 being 255. In 1919 there were 60 companies reporting a production in excess of 10,000 tons, and the aggregate production by these firms was 93.6 per cent of the total for the province. Thirteen mines reported a production exceeding 100,000 tons each, the largest operators being the West Canadian Collieries, Limited, with 537,271 tons from Bellevue and Greenhill collieries; the Canadian Pacific Railway, with a total of 397,487 tons from Bankhead, Lethbridge, and Taber; the North American Collieries, Limited, with 401,632 tons from Lovettville, Coalhurst, Evansburg, Dodds, and Drumheller; the Brazeau Collieries, Limited, with 282,544 tons from Nordegg; the Hillcrest Collieries, Limited, with 239,305 tons, and the Canmore Coal Company, with 201,748 tons.

Of the total production 4,577,236 tons were reported as sales, including 4,455,972 tons sold for consumption in Canada; 121,264 tons sold for export to the United States; 387,299 tons were used by producers, including coal charged to coke ovens, used for colliery operations, used for manufacture of briquettes, and used by workmen.

Alberta reached its highest production in 1918. The falling off of over 1,000,000 tons in 1919 is ascribed by the Chief Inspector of Mines for the province, in part to the accumulation at the end of 1918 of unusually large stocks in the hands of the trade or consumers. It will be noted also that less coal was shipped to points outside the province during the year 1919 than during the previous year. That portion of central Canada comprising the provinces of Saskatchewan, Manitoba, and Ontario west of the head of the Lakes, has been supplied annually with from 2,000,000 to 2,500,000 tons of coal imported from the United States. Restrictions on this supply during 1918 necessitated a larger consumption within the territory of Alberta coal. No doubt an effort will be made on the part of the Alberta producers to secure and retain an increasing proportion of this market. The maximum monthly production in Alberta shows a capacity of the mines of this province with present equipment, to produce at the rate of from 9,000,000 to 10,000,000 tons per annum.

The monthly production of anthracite, bituminous, and lignite coal during 1919, and the production of each of the larger collieries during 1919 and 1918 are shown in the following tables:—

# Monthly Production of Coal in Alberta, 1919

(In short tons.)

District	Operators reporting.	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Year
		Banff..... Anthracite	1	12,730	11,645	13,414	13,679	76	39	750	2,611	12,278	14,673	13,907
Crowsnest..... Bituminous	6	137,959	130,329	143,143	99,868	94,337	829	1,259	11,336	108,145	152,480	149,405	146,445	1,175,535
Canmore..... "	2	22,997	22,313	24,032	20,051	13,738	950	900	4,943	19,893	24,618	25,451	21,922	201,808
Brazeau..... "	3	38,974	33,509	38,717	30,116	28,218	1,952	2,767	2,807	31,584	34,781	30,778	34,770	308,973
Jasper Park..... "	2	23,589	21,735	21,245	20,959	3,321	108	62	62	2,287	9,534	22,409	20,357	145,668
Yellowhead Pass..... "	8	42,832	40,268	39,747	30,712	21,181	307	1,959	13,114	37,806	44,992	45,008	43,514	361,440
Mountain Park..... "	1	16,557	17,277	11,493	13,124	8,754	182	279	744	8,942	12,691	11,527	11,394	112,964
<b>Total Bituminous.....</b>	<b>22</b>	<b>282,908</b>	<b>265,431</b>	<b>278,377</b>	<b>214,830</b>	<b>169,549</b>	<b>4,328</b>	<b>7,226</b>	<b>33,006</b>	<b>208,657</b>	<b>279,096</b>	<b>284,578</b>	<b>278,402</b>	<b>2,306,388</b>
Pincher Creek..... Lignite	6	346	236	297	90	60	131	159	185	317	392	884	1,022	4,119
Lethbridge..... "	15	53,498	29,815	58,116	43,956	40,605	4,015	8,668	16,417	64,892	83,357	84,450	91,838	579,627
Magrath..... "	3	198	97	113	35	17	80	127	124	237	146	192	133	1,499
Milk River..... "	16	444	265	257	115	127	151	129	339	790	1,194	987	1,215	6,013
Taber..... "	10	5,527	3,387	5,728	1,994	2,403	1,146	1,997	5,628	12,925	18,141	19,919	22,368	101,163
Bow Island..... "	11	406	252	459	126	132	133	295	288	548	1,367	996	929	5,931
Medicine Hat..... "	5	858	888	823	297	325	613	913	1,130	2,532	3,988	3,852	3,976	20,195
Aldersyde..... "	8	628	376	533	211	249	288	367	424	941	1,435	1,137	1,176	7,765
High River..... "	4	55	26	32	13				3	33	64	100	132	458
Drumheller..... "	30	47,189	34,141	52,891	11,843	15,142	2,016	6,606	43,438	121,023	143,119	153,745	161,198	792,351
Big Valley..... "	4	5,375	1,921	2,642	1,214	254	200	173	2,699	3,754	4,856	5,405	6,166	34,659
Brooks..... "	6	732	618	776	150	272	361	392	406	896	1,727	1,484	1,144	8,958
Hanna..... "	19	1,908	1,416	2,360	406	667	1,171	1,218	818	1,738	4,622	4,046	5,190	25,560
Lacombe..... "	13	1,251	1,048	1,280	138	183	253	190	243	629	1,816	3,172	3,273	13,476
Trochu..... "	11	1,199	1,486	1,886	141	293	441	717	711	742	1,718	2,710	3,014	15,058
Three Hills..... "	8	1,249	999	2,794	333	499	188	1,000	1,605	2,282	3,925	4,916	5,555	25,345
Carbon..... "	4	239	271	359	26	30	245	314	209	274	514	609	652	3,742
Battle River..... "	17	1,741	1,952	1,471	0	10		20	22	197	1,080	2,234	2,782	11,509
Camrose..... "	7	5,401	5,387	6,330	1,881	1,886	5,716	6,416	6,710	6,878	9,826	12,765	14,214	83,410
Tofield..... "	5	5,323	5,208	5,116	2,549	3,399	4,539	4,399	4,775	7,706	10,024	18,822	22,651	95,011
Clover Bar..... "	9	21,322	19,784	26,071	9,196	11,493	8,835	10,635	18,657	28,976	40,352	45,864	50,822	292,007
Edmonton..... "	8	10,150	9,177	9,624	3,461	1,092	183	475	1,739	7,371	13,096	18,234	19,209	93,811
Namau..... "	5	1,830	1,403	942	245	267			16	335	1,102	1,666	2,049	9,855
Cardiff..... "	3	29,438	20,544	24,529	8,821	5,633			218	6,381	22,851	26,916	30,410	175,741
Wabamun..... "	3	834	555	703	1,871	1,840	2,395	4,219	3,665	3,963	4,719	3,995	4,714	32,973
Pembina..... "	1	6,633	6,038	4,862	7,503	9,061	4,694	6,397	7,161	10,224	15,044	14,245	14,334	106,196
Peace River..... "	1	136	255											391
<b>Total Lignite.....</b>	<b>232</b>	<b>204,410</b>	<b>147,545</b>	<b>210,994</b>	<b>96,615</b>	<b>95,439</b>	<b>37,794</b>	<b>55,826</b>	<b>117,630</b>	<b>286,584</b>	<b>390,475</b>	<b>433,345</b>	<b>470,166</b>	<b>2,546,823</b>
<b>Grand Total.....</b>	<b>255</b>	<b>500,048</b>	<b>424,621</b>	<b>502,785</b>	<b>325,124</b>	<b>265,064</b>	<b>42,161</b>	<b>63,802</b>	<b>153,247</b>	<b>507,519</b>	<b>684,244</b>	<b>731,830</b>	<b>764,090</b>	<b>4,964,535</b>

## Monthly Production of Coal in Alberta, 1918

(In short tons.)

District	Operators reporting.	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Year
		Banff..... Anthracite	1	11,358	11,722	12,533	12,773	10,927	8,732	9,932	9,006	8,611	8,211	4,947
Crowsnest..... Bituminous	5	128,554	123,229	136,751	148,166	142,178	149,113	147,071	133,656	133,943	121,759	104,606	121,636	1,595,662
Canmore..... "	1	23,969	23,697	23,521	26,219	22,705	24,464	25,477	22,953	23,981	24,758	21,472	11,529	274,745
Brazeau..... "	3	28,354	24,903	23,407	32,445	35,597	32,779	36,080	41,790	37,502	38,533	17,585	24,103	373,078
Jasper Park..... "	2	23,950	22,551	28,603	30,595	27,655	19,332	20,100	22,754	25,713	26,750	15,670	21,032	285,005
Yellowhead Pass..... "	6	21,543	16,661	19,334	21,262	21,813	24,362	29,033	33,613	34,228	39,437	21,066	30,043	312,395
Mountain Park..... "	1	13,817	13,080	13,203	12,256	10,830	10,639	11,585	10,371	8,849	12,608	8,735	11,069	137,042
Total Bituminous.....	18	240,187	224,421	244,819	270,943	260,778	260,689	269,346	270,137	264,216	263,845	189,134	219,412	2,977,927
Pincher Creek..... Lignite	8	449	478	281	205	186	237	357	301	291	502	588	494	4,369
Lethbridge..... "	13	81,012	76,923	71,001	59,894	55,814	60,903	66,100	70,933	64,523	73,261	55,165	72,702	808,231
Magrath..... "	3	89	62	24	7	13	6	25	28	92	110	151	141	748
Milk River..... "	17	617	566	387	246	321	364	379	402	600	833	950	648	6,378
Taber..... "	12	22,898	18,947	7,097	1,852	5,228	11,573	15,825	17,512	16,950	18,366	11,206	17,220	162,589
Bow Island..... "	14	605	531	391	308	438	331	362	357	505	1,143	1,119	643	6,733
Medicine Hat..... "	6	2,534	1,027	424	164	208	522	1,350	1,662	1,941	3,269	1,688	2,221	17,010
Aldersyde..... "	9	703	611	552	262	359	186	463	370	679	1,350	1,208	782	7,585
High River..... "	4	76	65	50	24	19	25	20	7	29	123	100	67	610
Drumheller..... "	28	89,388	14,192	28,793	7,749	38,445	93,705	119,753	123,987	99,772	79,143	75,196	85,117	855,240
Big Valley..... "	4	4,238	3,542	3,105	1,198	1,977	2,331	2,208	2,170	2,296	3,558	4,078	3,776	34,477
Brooks..... "	7	1,053	979	777	231	472	466	1,016	471	1,274	2,269	1,336	1,138	11,482
Hanna..... "	20	3,234	2,811	1,957	526	1,184	1,407	1,623	1,074	2,162	4,801	5,087	3,300	29,166
Lacombe..... "	16	2,595	2,065	1,599	288	497	209	304	455	551	1,538	1,737	1,297	13,135
Trochu..... "	13	3,250	2,813	831	328	302	659	816	1,006	1,039	1,541	2,368	1,909	16,862
Three Hills..... "	6	3,508	3,311	1,076	395	1,326	2,163	2,711	2,435	1,959	2,366	2,776	1,760	25,786
Carbon..... "	8	522	612	295	121	333	446	445	351	345	663	666	353	5,152
Battle River..... "	15	2,215	2,382	725	37	35	25	25	40	137	1,129	2,394	1,982	11,126
Camrose..... "	7	10,688	8,651	3,712	1,647	1,476	1,866	2,509	2,143	3,048	5,183	6,028	7,628	54,579
Tofield..... "	3	13,974	7,524	4,038	2,256	2,431	2,783	3,769	5,647	5,001	6,040	7,866	5,770	67,699
Clover Bar..... "	9	42,576	30,008	16,396	7,642	9,875	18,777	20,220	17,702	19,947	22,844	25,597	25,077	256,661
Edmonton..... "	9	17,845	13,556	7,402	4,894	4,618	7,155	8,215	4,047	6,930	9,924	10,977	10,158	105,721
Namoo..... "	4	2,797	2,885	1,185	790	871	919	1,222	1,266	1,303	2,140	1,557	2,342	19,279
Cardiff..... "	3	38,165	27,094	13,603	9,662	13,252	17,131	14,128	13,145	21,417	24,893	17,440	28,226	238,156
Wabamun..... "	3	2,226	2,331	1,370	487	530	1,253	1,098	1,330	1,684	1,671	2,639	2,342	18,961
Pembina..... "	1	13,727	8,629	2,828	1,902	6,896	8,444	6,561	10,390	10,231	14,176	10,314	7,651	101,749
Total Lignite.....	242	358,894	232,595	169,899	103,115	147,106	233,891	271,504	279,231	64,766	233,446	250,291	284,746	2,879,484
Grand total.....	261	610,439	468,738	427,251	386,831	418,811	503,312	550,782	558,374	537,593	555,502	444,372	510,811	5,972,816

## Production of Coal in Alberta, in 1919, by Principal Collieries.

(In short tons)

Name of Company, and Mine address	Time in operation	Total sales	Total colliery consumption	Total production
Alberta Block Coal Co., Ltd., Drumheller.....	183 days	77,386	4,155	81,541
Alberta Coal Mining Co., Ltd., (The Cardiff).....	175 "	54,749	2,927	57,676
Atlas Coal Co., Ltd., Drumheller.....	180 "	47,198	3,655	50,853
Banner Coal Co., Cardiff.....	8 mos.	40,732	1,430	42,212
Bellevue Collieries, Ltd., Bellevue.....	126 days	11,857	1,366	13,223
Big Valley Coal Co., Big Valley.....	311 "	30,661	645	31,306
Brazeau Collieries, Ltd., Nordegg.....	216 "	276,698	5,846	282,544
Brookdale Collieries, Ltd., Lovettville.....	89 "	12,815	404	13,219
Bush Mine Coal Co., Beverly.....	223 "	48,441	1,230	49,671
Cadomin Coal Co., Ltd., Coalspur.....	225 "	157,850	1,165	159,015
Canada West Coal Co., Ltd., Taber.....	143 "	39,833	12,492	52,325
Canadian Pacific Railway— Bankhead Mine.....		19,156	(a) 92,168	111,324
Galt Mines, Lethbridge.....	196 days	241,454	43,716	285,170
Canmore Coal Co., Ltd., Canmore.....	210 "	184,728	17,020	201,748
Cardiff Collieries, Ltd., Cardiff.....	200½ "	70,802	5,051	75,853
Chinook Coal Co., Ltd., Commerce.....	203 "	61,253	16,990	78,243
City of Lethbridge Coal Mine, Lethbridge.....	272½ "	11,844		11,844
Clover Bar Coal Mine Co., Ltd., Clover Bar.....	7 mos.	13,583	1,984	15,567
Dawson Coal Co., Ltd., (The) Edmonton.....	177 days	14,833		14,833
Dinant Coal Co., Ltd., Dinant.....	260 "	22,626	968	23,594
Dobell Coal Co., Ltd., (The) Tofield.....	313 "	39,657	36	39,693
Drumheller Land Co., (The) Drumheller.....	178 "	29,587	2,880	32,467
Edmonton Collieries, Ltd., Edmonton.....	249 "	18,216		18,216
Ellis Coal Co., Ltd., Three Hills.....	242 "	16,613	2,032	18,645
Federal Coals Ltd., Lethbridge.....	270 "	22,511	1,356	23,867
Fraser-McKay Collieries, Ltd., Clover Bar.....	290 "	21,753	285	22,038
Great West Coal Co., Ltd., (The) Clover Bar.....	265½ "	86,927	6,989	93,916
Great West Coal Co., (Star Mine), Aerial.....	157 "	33,153	941	34,094
Hamilton Coal Co., Wayne.....	9 mos.	15,309	530	15,839
Hillcrest Collieries, Ltd., Hillcrest.....	222 days	226,463	12,842	239,305
Humberstone Coal Co., Beverly.....	194 "	57,201	5,932	63,133
Hy-Grade Coal Co., Drumheller.....	219 "	39,858	226	40,084
International Coal & Coke Co., Ltd., Coleman.....	180 "	158,240	15,432	173,672
Jasper Park Collieries, Ltd., Jasper.....	158 "	41,106	3,702	44,808
Jewell Collieries, Ltd., Wayne.....	134 "	20,256	528	20,784
Lakeside Coals, Ltd., Wabamun.....	216 "	31,328	1,589	32,917
Marcus Collieries, Ltd., Clover Bar.....	265 "	21,996	1,684	23,680
McGillivray Creek Coal & Coke Co., Ltd., Cole- man.....	212 "	202,521	8,357	210,878
McPeak, P. J., Edmonton.....	222 "	17,539	1,688	19,227
Midland Collieries, Ltd., Midlandvale.....	163 "	58,800	4,625	63,425
Mountain Park Coal Co., Ltd., Mountain Park.....	219 "	103,848	9,116	112,964
Newcastle Coal Co., Ltd., Drumheller.....	126 "	47,805	1,245	49,050
North American Collieries, Ltd.— Pacific Pass, Lovettville.....	217½ "	72,008	8,130	80,138
Pembina, Evansburgh.....	250 "	98,275	7,921	106,196
Regal, Dodds.....	9 mos.	13,413		13,413
Monarch, Drumheller.....	119 days	32,953	3,154	36,107
Lethbridge, Coalhurst (Kipp).....	187 "	150,849	14,929	165,778
Oliphant-Munson Collieries, Ltd., Oliphant Mines.....		88,703	985	89,688
Ottewell Coal Co., Ltd., Clover Bar.....	280 days	11,000	200	11,200
Premier Coal Co. Ltd., Drumheller.....	5 mos.	24,119	738	24,857
Redcliff Brick and Coal Co., Redcliff.....	180 days	15,674		15,674
Regal Collieries, Ltd., Taber.....	171 "	22,992	3,536	26,528
Rock Springs Coal and Brick Co., Ltd., Elean.....	174 "	13,283	1,943	15,226
Rosedale Coal and Clay Products Co., Ltd., Elean.....	166 "	75,947	1,946	77,893
Rose Deer Coal Mining Co., Ltd., Wayne.....	151 "	75,200	4,624	79,824
Round Hill Collieries, Ltd., Roundhill.....	243 "	20,350	175	20,525
Saunders Creek Collieries, Ltd., Saunders.....	264 "	20,330	1,004	21,334
Serantone Coal Co., Drumheller.....	165 "	44,074	2,467	46,541
Spicer Coal Co., Ltd., Dinant.....	171 "	16,950	446	17,396
Tofield Coal Co., Ltd., Tofield.....	249 "	52,763	800	53,563
Twin City Coal Co., Ltd., Edmonton South.....	174 "	30,819	5,072	35,891
West Canadian Collieries: Bellevue.....	200½ "	290,094	12,690	302,784
Greenhill.....	201½ "	228,815	5,672	234,487
Western Commercial Co., Ltd., Wayne.....	131 "	57,432	4,260	61,692
Western Gem Mining Co., Ltd., Drumheller.....	181 "	47,421	1,500	48,921
Yellowhead Coal Co., Ltd., Coalspur.....	7 mos.	15,288	1,078	16,366
Total (60).....		4,268,038	378,497	4,646,535
All other operators (195).....		309,198	8,802	318,000
Total, Alberta.....		4,577,236	387,299	4,964,535

(a) Includes coal used in the manufacture of briquettes, a large portion having been lifted from waste heap

## Production of Coal in Alberta, in 1918, by Principal Collieries

(In short tons)

Name of Company, and Mine address	Days in operation	Total sales	Total colliery consumption*	Total production
Alberta Block Coal Co., Ltd., Drumheller.....	215	83,243	4,473	87,716
Alberta Coal Mining Co., Ltd., (The) Cardiff.....	242	68,599	3,600	72,199
Atlas Coal Mining Co., Ltd., Drumheller.....	195	42,526	2,974	45,500
Big Valley Collieries, Big Valley.....	285	30,004	600	30,604
Banner Coal Co., Ltd., Cardiff.....	12mos.	53,515	2,125	55,640
Blue Diamond Coal Co., Ltd., Brule Mines.....	288	184,989	3,750	188,739
Brazeau Collieries, Ltd., Nordegg.....	277,	350,192	6,024	356,216
Bush Mine Coal Co., Beverly.....	255	26,244	1,124	27,368
Cadomin Coal Co., Ltd., Coalspur.....	293	119,269	1,320	120,589
Canada West Coal Co., Ltd., Taber.....	245	86,118	17,311	103,429
Canadian Pacific Railway:—				
Bankhead Mine.....	304	31,101	(a) 84,304	115,405
Galt No. 3, Lethbridge.....	298	91,733	14,580	106,363
Galt No. 6, Lethbridge.....	303	230,945	24,035	254,980
Canmore Coal Co., Ltd., Canmore.....	288	258,339	16,406	274,745
Cardiff Collieries, Ltd., Cardiff.....	226	102,306	8,011	110,317
Chinook Coal Co., Ltd., Commerce.....	295	85,653	19,701	105,354
City of Lethbridge Coal Mine, Lethbridge.....	277½	12,573	.....	12,573
Clover Bar Coal Co., Ltd., Clover Bar.....	220	13,715	2,287	15,972
Dawson Coal Co., Ltd., (The) Edmonton.....	253	16,609	2,020	18,629
Dobell Coal Co., Ltd., (The) Tofield.....	283	30,802	960	31,762
Drumheller Land Co., (The) Drumheller.....	224	45,178	2,880	48,059
Ellis Coal Co., Ltd., Three Hills.....	197	20,094	1,891	21,985
Edmonton Collieries, Ltd., Clover Bar.....	280	11,825	927	12,752
Federal Coals, Limited, Lethbridge.....	275	27,316	1,298	28,614
Franco-Canadian Collieries, Ltd., Frank.....	141	37,138	7,305	44,443
Fraser-MacKay Collieries, Ltd., Clover Bar.....	247	13,541	1,105	13,646
Great West Coal Co., Ltd., (The) Clover Bar.....	255	66,311	5,319	71,630
Great West Coal Co., Ltd., Aerial, (Star mine).....	220	45,274	1,083	46,357
Hamilton Coal Co., Ltd., Wayne.....	.....	15,000	270	15,270
Hillcrest Collieries, Ltd., Hillcrest.....	290	240,658	12,762	253,420
Humberstone Coal Co., Beverly.....	206	85,212	9,730	94,942
International Coal and Coke Co., Ltd., Coleman.....	300	178,767	(b) 73,642	252,409
Jasper Park Collieries:—				
Jasper Mine.....	269	67,338	5,284	72,622
Miette Mine.....	205	23,493	151	23,644
Keith and Fulton Coal Co., Clover Bar.....	171	10,848	.....	10,848
Lakeside Coals Limited, Wabamun.....	218	17,959	980	18,939
McGillivray Ck. Coal and Coke Co., Ltd., Coleman.....	296	268,154	9,246	277,400
McPeak, P. J., Ltd., Edmonton.....	257	19,919	2,178	22,097
Midland Collieries, Ltd., Midlandvale.....	219	73,123	4,800	77,923
Mountain Park Coal Co., Ltd., Mountain Park.....	293	126,549	10,493	137,042
Newcastle Coal Co., Ltd., Drumheller.....	185	52,417	1,640	54,057
North American Collieries, Ltd.:—				
Pacific Pass Colliery, Lovettville.....	264	73,067	8,891	81,958
Pembina Colliery, Evansburgh.....	230	94,558	7,191	101,749
Regal Colliery, Dodds.....	125	10,200	10	10,210
Monarch Colliery, Drumheller.....	184	38,295	5,547	43,842
Lethbridge Colliery, Coalhurst (Kipp).....	298	230,959	19,469	250,428
Olipphant-Munson Collieries, Ltd., Olipphant Mines.....	268	66,147	1,443	67,590
Peerless Coal Co., Ltd., Wayne.....	208	13,835	505	14,340
Premier Coal Co., Ltd., Drumheller.....	165	34,130	507	34,637
Redcliff Brick and Coal Co., Ltd., Redcliff.....	231	14,574	.....	14,574
Regal Collieries, Limited, Taber.....	277,	21,814	2,766	24,580
Rock Springs Coal and Brick Co., Ltd., Eloan.....	235	20,760	2,273	23,033
Rosedale Coal and Clay Products Co., Ltd., Rosedale.....	194	104,770	1,673	106,443
Rose Deer Coal Mfg. Co., Ltd., Wayne.....	177	89,972	5,004	94,976
Round Hill Collieries, Ltd., Roundhill.....	249	16,160	429	16,589
Scranton Coal Co., Ltd., Drumheller.....	196	24,614	2,027	26,641
Spicer Coal Co., Ltd., (The) Dinant.....	230	13,984	695	14,679
Saunders Creek Domestic & Steam Coal Co., Saunders.....	.....	15,995	466	16,461
Sturgeon Consolidated Collieries, Ltd., Namao.....	255½	15,907	420	16,327
Tofield Coal Co., Ltd., Tofield.....	269	32,544	1,400	33,944
Trusts and Guarantee Co., Ltd., Diamond City Mine.....	12mos.	33,663	5,750	39,413
Twin City Coal Co., Ltd., Edmonton South.....	263	49,876	6,939	56,815
Carried forward.....				

(a) Includes 55,402 used in making briquettes. There were 99,103 tons of briquettes sold, and 1,095 tons used in colliery consumption and sold to workmen. (b) Including 53,462 tons used in manufacturing coke.

## Production of Coal in Alberta in 1918, by Principal Collieries—*Concluded.*

Name of Company, and Mine address.	Days in operation	Total sales	Total colliery consumption*	Total production
<b>West Canadian Collieries:—</b>				
Bellevue.....	302	419,963	14,899	434,862
Greenhill.....	297	327,579	5,549	333,128
Western Commercial Co., Ltd., Wayne.....	195	87,401	4,983	92,384
Western Gem Mfg. Co., Ltd., Drumheller.....	221	48,122	4,535	52,660
Yellowhead Coal Co., Ltd., Coalspur.....	278	37,984	2,424	40,408
Total (61).....		5,301,513	473,357	5,774,870
All other Operators (200).....		193,721	4,225	197,946
Total, Alberta.....		5,495,234	477,582	5,972,816

\*Included consumption under boilers, etc., and coal used by workmen.

## Annual Production of Coal in Alberta

Calendar Year	Short Tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
		\$	\$			\$	\$
1886.....	43,220	81,112	1.88	1903.....	495,893	1,117,541	2.25
1887.....	74,152	157,577	2.13	1904.....	661,732	1,404,524	2.12
1888.....	115,124	183,354	1.59	1905.....	931,917	1,993,915	2.14
1889.....	97,364	179,640	1.85	1906.....	1,246,360	2,614,762	2.10
1890.....	128,753	198,298	1.54	1907.....	1,591,579	3,836,286	2.41
1891.....	174,131	437,243	2.51	1908.....	1,685,661	4,127,311	2.45
1892.....	178,970	460,605	2.57	1909.....	1,994,741	4,838,109	2.43
1893.....	230,070	586,260	2.55	1910.....	2,894,469	7,065,736	2.44
1894.....	184,940	473,827	2.56	1911.....	1,511,036	3,979,264	2.63
1895.....	169,885	382,526	2.25	1912.....	3,240,577	8,113,525	2.50
1896.....	209,162	581,832	2.78	1913.....	4,014,755	10,418,941	2.59
1897.....	242,163	630,408	2.60	1914.....	3,683,015	9,350,392	2.54
1898.....	315,088	787,720	2.50	1915.....	3,360,818	8,283,079	2.46
1899.....	309,600	774,000	2.50	1916.....	4,559,054	11,386,577	2.50
1900.....	311,450	778,625	2.50	1917.....	4,736,368	14,153,685	2.99
1901.....	340,275	850,687	2.50	1918.....	5,972,816	20,537,237	3.44
1902.....	402,819	960,601	2.38	1919.....	4,964,535	18,294,495	3.68
				Total.....	51,072,492	140,019,744	

## Disposition of the Total Output of Coal, Briquettes and Coke of Alberta—Calendar Year 1919

(From Annual Report of the Mines Branch of the Province of Alberta.)

	Sold for Consumption in						Total Sales	Used			Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and waste but not lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States		Making Briquettes	Making Coke	Under Colliery Boilers					
Domestic.....	1,219,070	33,111	865,698	270,467	248	6,696	2,395,290			162,364	17,664	57,105	11,067	10,347	2,611,009
Bituminous.....	1,763,178	-57,267	245,714	42,547	60	114,409	2,223,175			92,095	6,898	8,517	4,844	54	2,325,787
Anthracite.....	8,882	5,083	3,917	1,276		107	19,245	27,950		25,377	364	12,842	162		85,616
<b>Total.....</b>	<b>2,991,110</b>	<b>95,461</b>	<b>1,115,329</b>	<b>314,290</b>	<b>308</b>	<b>121,212</b>	<b>4,637,710</b>	<b>27,950</b>		<b>279,836</b>	<b>24,926</b>	<b>78,464</b>	<b>16,073</b>	<b>10,401</b>	<b>5,022,412</b>
Briquettes.....	47,856	4,122	12,287	5,671		70	70,006			33	454				70,033
Coke.....	129	113	63	263			568						460	568	

The bituminous coal shown in these tables as being sold for consumption in Alberta includes coal sold to railway companies for the use of locomotives, a considerable percentage of which was probably used in other provinces.

## Disposition of the Total Output of Coal, Briquettes and Coke of Alberta—Calendar Year 1918

(From Annual Report of the Mines Branch of the Province of Alberta.)

	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States	Total Sales	Making Briquettes	Making Coke	Under Colliery Boilers	Lifted from Stock	Slack put on Waste Heap	Total output for year including slack
Domestic.....	1,205,419	26,849	1,091,544	387,728	444	3,154	2,715,138			194,148	3,802	129,577	3,035,061
Bituminous.....	2,219,794	69,163	273,195	120,132	185	130,062	2,812,551		53,462	109,668	8,778	15,431	2,982,334
Anthracite.....	14,941	5,177	7,700	3,308		40	31,166	55,402		28,837	327	16,147	131,225
<b>Total.....</b>	<b>3,440,154</b>	<b>101,189</b>	<b>1,372,439</b>	<b>511,168</b>	<b>629</b>	<b>133,276</b>	<b>5,558,855</b>	<b>55,402</b>	<b>53,462</b>	<b>332,653</b>	<b>12,907</b>	<b>161,155</b>	<b>6,148,620</b>
Briquettes.....	71,519	4,368	16,060	7,710			99,657			26		In stock	100,470
Coke.....	232	31,225	232	870		102	32,661					787	32,868

The bituminous coal shown in these tables as being sold for consumption in Alberta includes coal sold to railway companies for the use of locomotives, a considerable percentage of which was probably used in other provinces.



## British Columbia

The production of coal in British Columbia in 1919 was 2,435,933 tons, as compared with 2,568,589 tons in 1918, a decrease of 132,656 tons, or 5·2 per cent.

Of the total production in 1919, 2,020,826 tons were reported as sales, including 1,168,122 tons sold for consumption in Canada; 852,704 tons sold for export to the United States; 415,107 tons were used by producers, including 163,116 tons for making coke and 251,991 tons for the operation of collieries and by workmen.

The production and distribution of the collieries on Vancouver island, of the Crowsnest district, and of the interior at Nicola and Princeton, are shown separately in the following tables.

The three largest operators in the province were: the Crowsnest Pass Coal Company, with a total production of 541,312 tons; the Canadian Collieries (Dunsmuir), Limited, with 758,641 tons; and the Canadian Western Fuel Company, with 643,520 tons. These three companies contributed 79·8 per cent of the province's production.

Coal production in British Columbia reached a maximum in 1910, with a total of 3,330,745 tons. In the following year the production fell to 2,542,532 tons and the average production during the past nine years has been slightly less—2,532,000 tons. Previous to 1895 practically 80 per cent of the coal production was sold for export. The development of metallurgical and industrial activity, however, during the following fifteen years, greatly increased the home consumption, while the actual tonnage sold for export has not shown any marked change during thirty years.

### Coal Production by Districts in British Columbia, 1919

(In short tons)

Coal	Vancouver Island	Nicola and Princeton	Crowsnest and East Kootenay	Total
Sold for consumption in Canada.....	949,234	145,583	73,305	1,168,122
Sold for export to United States.....	427,103	7,068	418,533	852,704
Sold for export to other countries.....	nil	.....	nil	.....
<b>Total sales.....</b>	<b>1,376,337</b>	<b>152,651</b>	<b>491,838</b>	<b>2,020,826</b>
Used for making coke.....	82,353	.....	100,763	163,116
Used for colliery consumption, etc.....	186,083	13,421	52,487	251,991
<b>Production.....</b>	<b>1,624,773</b>	<b>166,072</b>	<b>645,088</b>	<b>2,435,933</b>
Per cent.....	66·7	6·8	26·5	100·00
<b>Output.....</b>	<b>1,915,129</b>	<b>168,993</b>	<b>623,836</b>	<b>2,707,958</b>

### Coal Production by Districts in British Columbia, 1918

(In short tons)

Coal	Vancouver Island	Nicola and Princeton	Crowsnest and East Kootenay	Total
Sold for consumption in Canada.....	858,511	167,819	36,796	1,113,126
Sold for export to United States.....	446,468	13,234	383,284	842,986
Sold for export to other countries.....	65,427	.....	.....	65,427
<b>Total sales.....</b>	<b>1,370,406</b>	<b>181,053</b>	<b>470,080</b>	<b>2,021,539</b>
Used for making coke.....	44,993	.....	264,664	309,657
Used for colliery consumption, etc.....	154,772	16,780	65,841	237,393
<b>Production.....</b>	<b>1,570,171</b>	<b>197,833</b>	<b>800,585</b>	<b>2,568,589</b>
Per cent.....	61·1	7·7	31·2	100·0

## Coal Production by Collieries in British Columbia, 1919

(In short tons)

Colliery	Sold				Used		Production	Lost in washing, etc.	Stocks		Output
	In Canada	To United States	To other countries	Total	Making coke	Under colliery boilers, etc.			First of year	Last of year	
1. Harwood.....	115,931	63,922		179,853		31,976	211,829	32,328	6,813	23,610	260,954
No. 1 Mine.....	175,926	102,317		278,243		62,041	340,284	28,390	38,155	26,987	357,506
Reserve and Wakesiah.....	46,695	25,747		72,442		18,965	91,407	6,611	3,519	487	94,986
2. East Wellington No. 1 (Jingle Pot).....	34,852	758		35,610		6,587	42,197				42,197
3. Wellington Extension Mine, Ladysmith.....	186,268	71,131		257,399	261	21,888	279,548	70,357	4,050	2,714	348,569
Comox Mines, Cumberland.....	313,554	124,538		438,092	26,674	14,327	479,093	130,892	4,202	12,676	618,459
4. South Wellington Mines.....	40,610	23,950		64,560		18,753	83,313	11,061	20,989	358	73,743
5. Granby.....	24,421	3,010		27,431	35,418	10,022	72,871	11,307	4,214	12,974	92,938
6. Grant.....	10,976	11,730		22,706		1,525	24,231	1,536	118	128	25,777
7. Michel.....	15,616	85,873		101,489	76,080	16,043	193,612				193,612
Coal Creek.....	28,950	262,972		291,922	24,683	31,095	347,700		4,875	110	342,935
8. Corbin.....	28,739	69,688		98,427		5,349	103,776		20,160	3,673	87,289
9. Middlesboro.....	81,236			81,236		5,753	86,989		175	40	86,854
10. Inland (Coal Hill).....	41,470			41,470		1,679	43,149	1,800	100	100	44,949
11. Princeton.....	15,625	2,035		17,660		5,940	23,600	1,278	95	73	24,856
12. Coalmont.....	4,403	5,033		9,436			9,436				9,436
13. Ashman.....	2,200			2,200		48	2,248				2,248
14. Merritt.....	650			650			650				650
	1,168,122	852,704		2,020,826	163,116	251,991	2,435,933	295,560	107,465	83,930	2,707,958

1. Canadian Western Fuel Company.
2. British Columbia Coal Mining Co.
3. Canadian Collieries (Dunsmuir), Ltd.
4. Pacific Coast Coal Mines, Ltd.
5. Granby Consolidated Mg., S., & Power Co., Ltd.

6. Nanoose Collieries, Ltd.
7. Crow's Nest Coal Co., Ltd.
8. Corbin Coal and Coke Co., Ltd.
9. Middlesboro Collieries, Ltd.

10. Fleming Coal Co., Ltd.
11. Princeton Coal and Land Co., Ltd.
12. Coalmont Collieries, Ltd.
13. Telkwa Collieries Co.
14. Merritt Collieries, Ltd.

# Coal Production by Collieries in British Columbia, 1918

(In short tons)

Colliery	Sold				Used		Production	Lost in washing, etc.	Stocks		Output
	In Canada	To United States	To other countries	Total	Making coke	Under colliery boilers, etc.			First of year	Last of year	
1. Harwood.....	146,562	75,476	7,729	229,767	.....	8,710	238,477	16,912	6,201	6,813	256,001
No. 1 Mine.....	204,764	110,797	11,343	326,904	.....	66,417	393,321	13,968	1,158	38,155	444,286
Reserve.....	59,024	30,425	3,115	92,564	.....	20,850	113,414	4,144	1,611	3,519	119,466
2. East Wellington No. 1 (Jingle Pot).....	5,176	5,240	.....	10,416	.....	4,664	15,080	.....	.....	676	16,078
3. Wellington Extension Mine, Ladysmith..	164,742	28,638	.....	193,380	76	17,742	211,198	61,231	997	4,050	275,482
Comox Mines, Cumberland.....	214,133	141,166	43,240	398,539	44,917	13,114	456,570	144,948	2,750	4,202	602,970
4. South Wellington Mines.....	37,283	40,627	.....	77,910	.....	20,777	98,687	18,508	25,109	459	92,545
5. Granby.....	13,899	.....	.....	13,899	.....	787	14,686	.....	.....	4,307	18,993
6. Grant.....	12,928	14,099	.....	27,027	.....	1,711	28,738	3,522	.....	.....	32,260
7. Michel.....	16,274	67,514	.....	83,788	126,539	20,854	231,131	.....	.....	.....	231,131
Coal Creek.....	35,764	240,642	.....	276,406	138,125	36,164	450,695	.....	72	136	450,759
8. Corbin.....	34,758	75,128	.....	109,886	.....	8,823	118,709	20,160	.....	.....	138,869
9. Middlesboro.....	106,448	.....	.....	106,448	.....	7,263	113,711	.....	140	175	113,746
10. Inland (Coal Hill).....	35,184	.....	.....	35,184	.....	2,317	37,501	515	.....	146	38,162
11. Princeton.....	22,653	11,780	.....	34,433	.....	7,200	41,633	1,752	167	95	43,313
12. Coalmont.....	2,890	1,454	.....	4,344	.....	.....	4,344	.....	.....	.....	4,344
13. Ashman.....	644	.....	.....	644	.....	.....	644	.....	.....	.....	644
	1,113,126	842,986	65,427	2,021,539	309,657	237,393	2,568,589	235,982	38,205	62,733	2,879,099

1. Canadian Western Fuel Company.
2. British Columbia Coal Mining Co.
3. Canadian Collieries (Dunsmuir), Ltd.
4. Pacific Coast Coal Mines, Ltd.
5. Granby Consolidated Mg., S., & Power Co., Ltd.

6. Nanoose Collieries, Ltd.
7. Crow's Nest Coal Co., Ltd.
8. Corbin Coal and Coke Co., Ltd.
9. Middlesboro Collieries, Ltd.

10. Fleming Coal Co., Ltd.
11. Princeton Coal and Land Co., Ltd.
12. Coalmont Collieries, Ltd.
13. Telkwa Collieries Co.

## Annual Production of Coal in British Columbia

Calendar Year	Output	Home consumption	Sold for export	Production*		Price per long ton	Value
				Long tons.	Short tons		
1836 to 1873.....	480,785				538,480	\$ cts.	\$
1874.....	81,547	25,023	56,038	81,061	90,788	3 00	1,923,140
1875.....	110,145	31,252	66,392	97,644	109,361	3 00	243,183
1876.....	139,192	17,856	122,329	140,185	157,007	3 00	292,932
1877.....	154,052	24,311	115,381	139,692	156,455	3 00	420,555
1878.....	170,846	26,166	164,682	190,848	213,750	3 00	419,076
1879.....	241,301	40,294	192,066	232,390	260,277	3 00	572,544
1880.....	267,395	46,513	225,849	272,362	305,045	3 00	697,170
1881.....	228,357	40,191	189,323	229,514	257,056	3 00	817,036
1882.....	282,139	56,161	232,411	288,572	323,201	3 00	688,542
1883.....	213,209	64,786	149,567	214,353	240,075	3 00	865,716
1884.....	394,070	87,388	306,478	393,866	441,130	3 00	943,059
1885.....	365,596	95,227	237,797	333,024	372,987	3 00	1,181,598
1886.....	326,636	85,987	249,205	335,192	375,415	3 00	999,072
1887.....	413,360	99,216	334,839	434,055	486,142	3 00	1,005,576
1888.....	489,301	115,953	365,714	481,667	539,467	3 00	1,302,165
1889.....	579,830	124,574	443,675	568,249	636,439	3 00	1,445,001
1890.....	678,140	177,075	508,270	685,345	767,586	3 00	1,704,747
1891.....	1,029,097	202,697	806,479	1,009,176	1,130,277	3 00	2,056,035
1892.....	826,335	196,223	640,579	836,802	937,218	3 00	3,027,528
1893.....	978,294	207,851	768,917	976,768	1,093,980	3 00	2,510,406
1894.....	1,012,953	165,776	827,642	993,418	1,112,628	3 00	2,930,304
1895.....	939,654	188,349	756,334	944,683	1,058,045	3 00	2,980,254
1896.....	894,882	261,934	634,238	896,222	1,003,769	3 00	2,834,049
1897.....	802,296	290,310	619,860	910,170	1,019,390	3 00	2,688,666
1898.....	1,136,485	375,423	752,863	1,128,286	1,263,680	3 00	2,730,510
1899.....	1,306,324	526,058	751,711	1,277,769	1,431,101	3 00	3,384,858
1900.....	1,590,178	685,607	914,184	1,599,851	1,791,833	3 00	3,833,307
1901.....	1,691,557	799,666	914,163	1,713,829	1,919,488	3 00	4,799,553
1902.....	1,641,026	837,871	776,809	1,614,680	1,808,441	3 00	5,141,487
1903.....	1,450,663	947,499	549,449	1,496,948	1,676,581	3 00	4,844,040
1904.....	1,685,698	1,129,465	533,593	1,663,058	1,862,625	3 00	4,490,844
1905.....	1,736,696	1,089,667	647,343	1,737,010	1,945,452	3 00	4,989,174
1906.....	1,899,076	1,236,476	679,829	1,916,305	2,146,262	3 00	5,211,030
1907.....	2,219,602	1,438,402	673,114	2,111,516	2,364,898	3 50	5,748,915
1908.....	2,111,931	1,486,511	597,157	2,083,668	2,333,708	3 50	7,390,306
1909.....	2,388,196	1,585,232	741,667	2,326,899	2,606,127	3 50	7,292,838
1910.....	3,152,207	1,798,873	1,175,007	2,973,880	3,330,745	3 50	8,144,147
1911.....	2,304,794	1,657,422	612,696	2,270,118	2,542,532	3 50	10,408,580
1912.....	2,857,345	1,898,213	966,963	2,865,176	3,208,997	3 50	7,945,413
1913.....	2,587,857	1,799,043	623,946	2,423,589	2,714,420	3 50	10,028,116
1914.....	2,182,164	1,397,036	602,785	1,999,821	2,239,799	3 50	8,482,562
1915.....	1,962,817	1,191,219	653,078	1,844,297	2,065,613	3 50	6,999,374
1916.....	2,487,012	1,463,152	844,045	2,307,197	2,584,061	3 50	8,075,190
1917.....	2,375,745	1,380,325	792,789	2,173,114	2,433,888	3 70	6,455,041
1918.....	2,570,624	1,482,300	811,083	2,293,383	2,568,589	5 01	8,075,190
1919.....	2,417,820	1,413,597	761,343	2,174,940	2,435,933	5 71	8,235,716
Total.....				56,161,375	62,900,741		192,794,531

\*This production is obtained by adding "Home Consumption" and "Sold for Export."  
 †52,935 tons of this amount were reported as sales without the division into "Home Consumption" and "Sold for Export."

## Yukon

Coal production in the Yukon district in 1919 was reported as 1,100 tons, all the product of the Tantalus Mine of the Five Fingers Coal Company, near Whitehorse.

## Annual Production of Coal in Yukon Territory

Calendar year	Short tons	Value	Average per ton	Calendar year	Short tons	Value	Average per ton
		\$	\$ cts.			\$	\$ cts.
1901.....	*5,864	86,230	14 70	1911.....	2,840	12,780	4 50
1902.....	4,910	37,280	7 59	1912.....	9,245	44,958	4 86
1903.....	1,849	29,584	16 00	1913.....	19,722	95,945	4 86
1904.....				1914.....	13,443	53,760	4 00
1905.....	7,000	21,000	3 00	1915.....	9,724	38,896	4 00
1906.....	7,000	28,000	4 00	1916.....	3,300	13,200	4 00
1907.....	15,000	60,000	4 00	1917.....	4,872	29,232	†6 00
1908.....	3,847	21,158	5 50	1918.....	2,900	11,600	4 00
1909.....	7,364	49,502	6 72	1919.....	1,100	4,400	4 00
1910.....	16,185	110,925	6 85	Total.....	136,165	748,450	

\*Part of this production was mined in 1900.

†Value not reported, but estimated.

## Coke

The accompanying statistics cover only the production of coke in by-product and beehive coke oven plants and do not include retort coke recovered by gas companies.

Both domestic and imported coal are used in the manufacture of coke in Canadian coke oven plants.

In 1919, 854,835 tons of domestic and 1,025,706 tons of imported coal were charged to coke ovens, from which was obtained an output of 1,160,470 tons of coke, thus averaging 0.617 tons of coke per ton of coal charged. Coke from by-product ovens comprised 89 per cent of the total.

In 1918, 1,348,232 tons of domestic coal, and 635,010 tons of imported coal were charged to coke ovens, from which was obtained an output of 1,258,284 tons of coke, thus averaging 0.634 tons of coke per ton of coal charged. Coke from by-product ovens comprised 70 per cent of the total.

The amount of coke sold or used by producers in 1919 was 1,133,680 tons, as compared with 1,250,744 tons in 1918, a slight decrease.

In addition to the tonnage sold or used by producers, there were imported during 1919, 383,374 tons of coke, while the exports totalled 14,709 tons. The Canadian consumption in 1919 was, therefore, 1,502,345 tons, a decrease of 37 per cent. The consumption of oven coke during recent years has been as follows: 1,285,228 tons in 1908; 1,449,369 tons in 1909; 1,581,832 tons in 1910; 1,677,188 tons in 1911; 1,981,832 tons in 1912; 2,186,170 tons in 1913; 1,509,068 tons in 1914; 1,772,461 tons in 1915; 2,178,318 tons in 1916; 2,192,373 tons in 1917; and 2,386,722 tons in 1918.

## Coke Production, 1919

(In short tons)

Province	Coal charged to ovens	Coke output	Stock on hand		Coke sold or used	Per cent of total production	Value of coke sold or used
			Jan. 1	Dec. 31			
Nova Scotia.....	609,696	394,744	3,034	13,552	383,253	33.82	\$ 3,939,906
Ontario.....	*1,025,706	667,081	9,281	26,856	649,506	57.29	4,886,662
Alberta.....			565		565	0.04	3,602
British Columbia..	155,139	98,645	2,164	453	100,356	8.85	890,217
Total.....	1,880,541	1,160,470	15,044	40,861	1,133,680	100.00	9,720,387

\*All imported coal.

## Coke Production, 1918

(In short tons)

Province	Coal charged to ovens	Coke output	Stock on hand		Coke sold or used	Per cent of total production	Value of coke sold or used
			Jan. 1	Dec. 31			
Nova Scotia.....	985,113	581,870	1,597	3,034	580,433	46.41	\$ 5,966,609
Ontario.....	* 635,010	431,970	2,424	9,307	425,087	33.99	3,300,127
Alberta.....	53,462	32,801	505	652	32,654	2.61	213,884
British Columbia..	309,657	211,643	3,300	2,373	212,570	16.99	1,554,575
Total.....	1,983,242	1,258,284	7,826	15,366	1,250,744	100.00	\$ 11,035,195

\*All imported coal.

## Distribution of Coke Production, 1919

(In short tons)

	Nova Scotia	Ontario	Alberta	British Columbia	Total
Sold in Canada.....	1,629	109,961	565	71,305	183,460
Sold for export.....				9,109	9,109
Total sales.....	1,629	109,961	565	80,414	192,569
Used by maker in blast furnace or otherwise.....	381,624	539,545		19,942	941,111
Total sold or used.....	383,253	649,506	565	100,356	1,133,680
Number of ovens in operation Dec. 31...	86	240		261	587

## Coke Production

(In short tons)

Year	Coal charged to ovens	Coke output	% Recovery per charge	Stock on hand		Coke sold or used	Value of coke sold or used	Average price
				Jan. 1	Dec. 31			
1910.....	1,373,793	901,269	65.6	19,216	17,770	902,715	\$3,462,872	3.84
1911.....	1,409,844	954,388	67.7	17,826	36,560	935,951	3,630,410	3.88
1912.....	2,053,807	1,406,023	68.5	39,073	33,872	1,411,229	5,164,331	3.66
1913.....	2,247,913	1,517,133	67.5	33,926	20,560	1,530,499	5,919,596	3.87
1914.....	1,541,547	1,015,253	65.9	20,634	12,027	1,023,860	3,658,514	3.55
1915.....	1,856,393	1,200,760	64.7	8,671	38,964	1,170,473	4,258,580	3.64
1916.....	2,134,911	1,448,782	67.9	38,934	17,975	1,469,741	6,049,412	4.12
1917.....	1,928,923	1,231,865	63.9	22,653	7,827	1,245,862	6,662,581	5.35
1918.....	1,983,242	1,258,284	63.4	7,826	15,366	1,250,744	11,035,195	8.82
1919.....	1,880,541	1,160,470	61.7	15,044	40,861	1,133,680	9,720,387	8.57

## Annual Production of Coke

Calendar Year	Short Tons	Value	Average per Ton	Calendar Year	Short Tons	Value	Average per Ton
1886.....	35,396	\$ 101,940	\$2.88	1903.....	561,318	\$1,734,404	\$3.09
1887.....	40,428	135,951	3.36	1904.....	554,083	2,032,048	3.66
1888.....	45,373	134,181	2.96	1905.....	700,488	2,436,211	3.48
1889.....	54,539	155,043	2.84	1906.....	782,055	2,863,503	3.66
1890.....	56,450	166,298	2.95	1907.....	842,003	3,583,468	4.26
1891.....	57,084	175,592	3.08	1908.....	858,257	3,449,361	4.02
1892.....	56,135	160,249	2.85	1909.....	862,011	3,484,393	4.04
1893.....	61,078	161,790	2.65	1910.....	902,715	3,462,872	3.84
1894.....	58,044	148,551	2.56	1911.....	935,951	3,630,410	3.88
1895.....	53,356	143,047	2.68	1912.....	1,411,229	5,164,331	3.66
1896.....	49,619	110,257	2.22	1913.....	1,530,499	5,919,596	3.87
1897.....	60,686	176,457	2.91	1914.....	1,023,860	3,658,514	3.55
1898.....	87,600	286,000	3.26	1915.....	1,170,473	4,258,580	3.64
1899.....	100,820	350,022	3.47	1916.....	1,469,741	6,049,412	4.12
1900.....	157,134	649,140	4.13	1917.....	1,245,862	6,662,581	5.35
1901.....	365,531	1,228,225	3.36	1918.....	1,250,744	11,035,195	8.82
1902.....	502,043	1,519,185	3.03	1919.....	1,133,680	9,720,387	8.57

## Annual Production of Coke by Provinces

Calendar Year	Nova Scotia		Ontario		Alberta		British Columbia	
	Short Tons	Value	Short Tons	Value	Short Tons	Value	Short Tons	Value
		\$		\$		\$		\$
1897.....	41,532	90,950					19,154	85,507
1898.....	48,400	111,000					39,200	175,000
1899.....	62,459	178,767					38,361	171,255
1900.....	61,767	223,395					95,367	425,745
1901.....	222,694	590,560					142,837	637,665
1902.....	363,330	899,930					138,713	619,255
1903.....	371,745	888,094					189,753	846,310
1904.....	275,927	808,022			20,984	78,936	257,172	1,148,090
1905.....	386,366	1,054,712			44,866	179,464	269,256	1,202,035
1906.....	476,364	1,540,976			69,486	268,042	236,205	1,054,485
1907.....	524,110	1,688,070			76,321	297,595	241,572	1,049,432
1908.....	505,929	1,658,151			75,645	309,019	276,683	1,482,191
1909.....	492,992	1,608,092			87,233	366,734	281,786	1,509,567
1910.....	508,058	1,655,775	24,685	148,110	121,578	486,312	248,394	1,122,675
1911.....	557,554	1,814,977	259,554	1,318,303	36,216	146,251	82,327	350,879
1912.....	625,918	1,840,129	379,854	1,709,343	105,684	424,027	299,773	1,190,832
1913.....	722,038	2,352,153	419,287	1,991,613	67,403	269,612	321,771	1,306,218
1914.....	343,289	1,118,614	386,314	1,352,090	29,059	116,236	265,198	1,071,565
1915.....	585,873	1,905,766	285,251	1,141,004	23,826	95,304	275,523	1,116,506
1916.....	654,453	2,617,732	472,507	2,008,155	41,950	167,800	300,851	1,255,725
1917.....	643,757	3,218,785	389,048	2,155,326	31,649	181,982	181,408	1,106,488
1918.....	580,433	5,966,609	425,087	3,300,127	32,654	213,884	212,570	1,554,575
1919.....	383,253	3,939,906	649,506	4,886,662	565	3,602	100,356	890,217

## Output of Coke Showing Beehive and By-Product Coke Separately

(In short tons)

Calendar Year	Beehive	%	By-Product	%	Total
1909.....	471,045	54.0	400,682	46.00	871,727
1910.....	491,378	54.5	409,891	45.5	901,269
1911.....	242,311	25.4	712,077	74.6	954,388
1912.....	402,054	28.6	1,003,974	71.4	1,406,028
1913.....	498,501	32.9	1,018,632	67.1	1,517,133
1914.....	322,701	31.8	692,552	68.2	1,015,253
1915.....	391,380	32.6	809,386	67.4	1,200,766
1916.....	443,460	30.6	1,005,322	69.4	1,448,782
1917.....	317,399	25.8	914,466	74.2	1,231,865
1918.....	379,218	30.1	879,066	69.9	1,258,284
1919.....	124,241	10.7	1,036,229	89.3	1,160,470

## Annual Exports of Coke

Calendar Year	Short Tons	Value	Calendar Year	Short Tons	Value
		\$			\$
1897.....	2,987	6,078	1908.....	58,708	248,759
1898.....	3,774	8,394	1909.....	74,067	329,051
1899.....	5,557	18,726	1910.....	57,971	250,715
1900.....	41,529	131,278	1911.....	9,852	39,823
1901.....	57,505	176,990	1912.....	57,744	252,763
1902.....	62,568	180,920	1913.....	68,235	308,410
1903.....	32,008	135,957	1914.....	67,838	306,117
1904.....	102,463	345,031	1915.....	35,869	160,053
1905.....	116,071	509,908	1916.....	48,539	221,334
1906.....	37,003	168,571	1917.....	23,595	137,318
1907.....	70,617	320,357	1918.....	29,612	223,629
			1919.....	14,709	129,703



## Annual Imports of Oven Coke

Calendar Year	Short Tons	Value	Calendar Year	Short Tons	Value
		\$			\$
1907.....	624,649	2,206,084	1913.....	723,906	2,180,830
1908.....	426,971	1,135,125	1914.....	553,046	1,585,259
1909.....	661,425	1,508,627	1915.....	637,857	1,608,464
1910.....	737,088	1,908,725	1916.....	757,116	2,229,078
1911.....	751,389	1,843,248	1917.....	970,106	6,517,260
1912.....	628,174	1,702,856	1918.....	1,165,590	8,975,445
			1919.....	383,374	2,405,740

The Nova Scotia coke was made at Sydney and Sydney Mines, the ovens formerly operated at Westville being idle throughout the year.

In Ontario the production came from the Algoma Steel Corporation plant at Sault Ste. Marie, and from the new ovens operated by the Steel Company of Canada, at Hamilton, Ont.

In Alberta the coke oven plants at Lille, Passburg and Coleman were idle.

In British Columbia coke was made by the Crow's Nest Pass Coal Company at Fernie and Michel, the Canadian Collieries (Dunsmuir), Limited, at Union Bay, and the Granby Consolidated Mining and Smelting Company at Anyox.

The coke production of the eastern provinces is used almost entirely in the iron and steel industry, while that of the western provinces is used chiefly by the copper and lead smelters, finding a market in the United States as well as in Canada.

### Coke Oven By-Products

The coke-oven plants at the Dominion Iron and Steel Company, at Sydney, N.S.; Sault Ste. Marie, and Hamilton, Ont.; and Anyox, B.C., are by-product plants, and the recoveries of coke oven by-products in 1919 included 12,394,249 gallons of tar; 11,765 tons of sulphate of ammonia, together with important quantities of benzol, toluol, and solvent naphtha and naphthalene.

### Annual Production of Coke Oven By-Products

Year	Tar	Sulphate of Ammonia	Year	Tar	Sulphate of Ammonia
	Gallons	Short Tons		Gallons	Short Tons
1901.....	2,662,612	1,614	1910.....	3,963,591	3,491
1902.....	4,094,135	2,393	1911.....	-6,464,155	7,124
1903.....	3,281,249	3,207	1912.....	8,428,896	11,289
1904.....	1,649,197	1,773	1913.....	8,371,600	10,608
1905.....	3,407,784	2,500	1914.....	5,714,172	8,572
1906.....	3,725,723	2,364	1915.....	7,865,931	10,448
1907.....	4,424,615	1,738	1916.....	9,012,202	11,040
1908.....	4,450,166	3,342	1917.....	8,277,078	9,941
1909.....	4,016,824	3,416	1918.....	8,009,327	10,825
			1919.....	12,394,249	11,765

The imports of sulphate of ammonia in 1919 were reported as 203,408 pounds, valued at \$12,129, as against imports in 1918 of 8,427 pounds, valued at \$1,273; imports in 1917 of 566,969 pounds valued at \$26,062, imports in 1916 of 239,096 pounds, valued at \$9,672; imports in 1915 of 503,158 pounds, valued at \$14,637; and imports in 1914 of 763,597 pounds valued at \$21,335.

Exports of sulphate of ammonia during the twelve months ending December 31, 1919, were 18,488 tons, valued at \$1,821,880, as compared with exports in 1918 of 8,696 tons, valued at \$1,027,558. The exports during previous years have not been separately recorded.