

CANADA  
DEPARTMENT OF MINES

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THE  
PRODUCTION OF COAL AND COKE  
IN  
CANADA

During the Calendar Year  
1920



OTTAWA  
F. A. ACLAND  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1921

### EXPLANATORY NOTE.

The accompanying Report on "The Production of Coal and Coke in Canada during the Calendar Year 1920" has been compiled by Mr. John Casey, in the Division of Mineral Resources and Statistics.

This Report is supplementary to the Annual Report on the Mineral Production of Canada; but is not included in that report, as it was in 1917 and previous years.

(Signed) **John McLeish,**

Chief, Division of Mineral  
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September 7, 1921.

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### COKE

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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 in stock on hand at the end of the year.

The production of coal during 1920 was 16,631,954 short tons (14,849,958 long tons), valued at \$80,693,723, or an average of \$4.85 per ton, as compared with a production in 1919 of 13,681,218 short tons (12,215,373 long tons), valued at \$54,413,349, or an average of \$3.98 per ton, an increase in production in 1920 of 2,950,736 tons, or 21.6 per cent.

The average number of men employed during 1920 was 29,387, and total wages paid \$49,171,238, as compared with an average of 27,198 men employed in 1919, and \$34,826,363 paid in wages.

From 1917 the values of the production for all provinces have been furnished directly by the operators. Previously, 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 1920 the consumption of coal was 32,731,521 tons, in 1919 it was 28,863,017, and in 1918, 34,771,832 tons. The percentage of the total derived from Canadian mines in 1920 was 43 and the percentage imported 57. 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 few 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 coalfields 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 1920 about 16.7 million tons of coal, of which 2.6 million tons were exported; and imported 13.9 million tons of bituminous coal and 4.9 million tons of anthracite. During the previous year, 1919, we produced, in round numbers, 13.5 million tons of coal, exported 2 million tons, and imported 12.3 million tons of bituminous coal and 5 million tons of anthracite.

### Production of Coal by Provinces, 1920

Province	No. of active operators	Average No. of men employed	Wages paid	Production of coal			Per cent of total quantity
				Short tons	Value	Average per ton	
			\$		\$	\$	
Nova Scotia.....	28	12,241	17,282,725	6,429,291	32,238,129	5.02	38.66
New Brunswick.....	14	476	584,344	166,048	1,055,286	6.36	1.00
Saskatchewan.....	63	453	582,964	343,475	819,320	2.38	2.06
Alberta.....	250	10,054	19,667,521	6,833,500	29,849,608	4.37	41.09
British Columbia.....	13	6,156	11,049,071	2,853,877	16,726,950	5.85	17.19
Yukon Territory.....	1	7	4,613	763	4,430	6.00	.....
Total.....	369	29,387	49,171,238	16,631,954	80,693,723	4.85	100.00

### Production of Coal by Provinces, 1919

Province	No. of active operators.	Average No. of men employed.	Wages paid	Production of coal			Per cent of total quantity
				Short tons	Value	Average per ton	
			\$		\$	\$	
Nova Scotia.....	24	10,978	13,970,149	5,720,373	22,078,726	3.859	41.81
New Brunswick.....	12	565	503,268	179,108	794,761	4.422	1.31
Saskatchewan.....	64	487	467,436	380,169	820,522	2.158	2.78
Alberta.....	255	9,343	11,414,755	4,964,535	18,294,495	3.685	36.29
British Columbia.....	14	5,813	8,465,255	2,435,933	12,420,445	5.098	17.80
Yukon Territory.....	1	12	5,500	1,100	4,400	4.000	0.01
Total.....	370	27,198	34,826,363	13,681,218	54,413,349	3.977	100.00

### Comparison of Production, 1920 with 1919

Province	(+ Increase, or (-) Decrease			
	Quantity		Value	
	Short tons	%	\$	%
Nova Scotia.....	+ 708,918	12.4	+10,159,403	46.0
New Brunswick.....	- 13,060	7.3	+ 260,525	32.8
Saskatchewan.....	- 36,694	9.7	- 1,202	0.1
Alberta.....	+ 1,868,065	37.6	+11,555,113	63.2
British Columbia.....	+ 422,944	17.4	+ 4,306,505	34.7
Yukon Territory.....	- 337	30.6	+ 30	0.7
Total for Canada.....	+ 2,950,736	21.6	+26,280,374	48.3

The total production in 1920 included 115,679 tons of anthracite, or about 1 per cent of the total; 12,865,851 tons of bituminous, or 77.4 per cent of the total, and 3,610,424 tons of lignite, or 21.7 per cent of the total.

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 consumption of coal during the year included approximately 5,036,992 tons of anthracite, 24,084,105 tons of bituminous, and 3,610,424 tons of lignite.

The consumption of coal during 1919 included: approximately 5,063,999 tons of anthracite, 20,872,026 tons of bituminous, and 2,926,992 tons of lignite.

The total output, production, and distribution of coal mined by provinces during 1920 and 1919 is shown in the following tables:—

### Production and Distribution of Coal Mined, by Provinces, 1920.

(In short tons)

	Nova Scotia	New Brunswick	Saskatchewan	Alberta	Yukon	British Columbia	Total
Sold in Canada.....	<i>b</i> 4,538,330	<i>b</i> 144,365	<i>c</i> 318,987	<i>d</i> 6,180,585	<i>b</i> 615	<i>b</i> 1,555,510	12,738,392
Sold for export to U.S.....	32,257	13,212	.....	132,918	.....	876,949	1,055,336
Sold for export to other countries.....	888,220	.....	.....	.....	.....	8,565	896,785
Total sales.....	5,458,807	157,577	318,987	6,313,503	615	2,441,024	14,690,513
Used by producers in making coke, steel, brick, etc.....	317,674	475	6,692	.....	.....	116,124	440,965
Used by producers for colliery consumption and by workmen.....	652,810	7,996	17,796	( <i>a</i> ) 519,997	148	301,729	1,500,476
Total used.....	970,484	8,471	24,488	519,997	148	417,853	1,941,441
Production*.....	6,429,291	166,048	343,475	6,833,500	763	2,858,877	16,631,954
Difference in stocks....	+1,637	-788	+79	-43,312	+100	-81,330	-123,614
Losses due to breakage or other causes.....	64,309	551	2,774	114,747	.....	332,670	515,051
Total output.....	6,495,237	165,811	346,228	6,904,935	863	3,110,217	17,023,391

\* Production is obtained by adding coal sold and coal used. *a* Includes coal used in manufacture of briquettes; *b* Bituminous; *c* Lignite; *d* Anthracite, bituminous and lignite.

### 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.....	<i>b</i> 4,274,874	<i>b</i> 163,275	<i>c</i> 354,319	<i>d</i> 4,455,972	<i>b</i> 1,100	<i>b</i> 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	( <i>a</i> ) 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	-879	+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; *b* Bituminous; *c* Lignite; *d* Anthracite, bituminous and lignite.

## Distribution of Coal Mined during the Years 1915-16-17-18

(In short tons)

	1915	1916	1917	1918
Sold in Canada.....	9,826,712	10,701,530	10,469,468	11,209,184
Sold for export to United States.....	1,330,718	1,451,075	1,301,881	1,354,694
Other countries.....	297,343	284,513	301,060	278,809
<b>Total sales.....</b>	<b>11,454,773</b>	<b>12,437,118</b>	<b>12,072,409</b>	<b>12,842,187</b>
Used by producers for the manufacture of coke.....	701,975	804,814	690,573	699,104
Used by producers for colliery consumption, and by workmen.....	1,110,275	1,241,463	1,283,777	1,436,635
<b>Production.....</b>	<b>13,267,023</b>	<b>14,483,395</b>	<b>14,046,759</b>	<b>14,977,926</b>
Difference in stocks.....	-99,294	-53,527	-7,760	-412
Losses due to washing, breakage, or other causes.....	312,467	385,835	396,362	482,871
<b>Total output.....</b>	<b>13,480,196</b>	<b>14,815,703</b>	<b>14,435,361</b>	<b>15,460,385</b>

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

The total production of coal from 1785 to 1920 was 313,790,432 tons; of this amount Nova Scotia is credited with 183,968,336 tons, or 58.62 per cent of the total; British Columbia, 65,759,618 tons, or 20.96 per cent; Alberta, 57,905,992 tons, or 18.46 per cent; Saskatchewan, 4,250,062 tons, or 1.36 per cent; New Brunswick, 1,769,496 tons, or 0.56 per cent; and the Yukon Territory, 136,928 tons, or 0.04 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	16,592,281	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	4,388,206	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.....	11,823,388	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	1920.....	16,631,954	80,693,723	4.85
1900.....	5,777,319	13,742,178	2.38				
				Grand total...	313,790,432	789,999,272	2.52

## 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 1920 were 2,558,174 tons, valued at \$18,014,899, or an average of \$7.04 per ton, as compared with exports in 1919 of 2,070,050 tons, valued at \$12,438,885, or an average of \$6.01 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	1915.....	1,766,543	59,690
1909.....	1,588,099	161,098	1916.....	2,135,359	62,783
1910.....	2,377,049	159,859	1917.....	1,733,156	47,328
1911.....	1,500,639	133,943	1918.....	1,817,195	67,486
1912.....	2,127,133	46,706	1919.....	2,070,050	56,988
1913.....	1,562,020	66,566	1920.....	2,558,174	84,801
1914.....	1,423,126	83,137			

### Imports of Coal

The total imports of coal of all classes in 1920 "entered for consumption" as per the published Trade reports, were 18,742,542 tons, valued at \$98,033,598, as compared with total imports in 1919 of 17,308,937 tons, valued at \$61,160,799.

Imports of coal into Canada are sub-divided 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 1920 included: 4,401,516 tons of egg, grate, stove and nut, valued at \$35,317,815, or an average of \$8.02 per ton, and 479,797 tons of rice, barley and buckwheat, valued at \$1,455,536, or an average of \$3.03 per ton, as compared with imports in 1919 of 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. The total imports of bituminous coal of all classes in 1920 were: 13,861,229 tons, valued at \$61,260,247, as against imports in 1919 of 12,356,162 tons, valued at \$29,565,105. The increase in bituminous imports in 1920 as compared with 1919 was thus 1,505,067 tons, or 12.2 per cent.

The bituminous imports in 1920 included: bituminous round, and run-of-mine, 11,548,475 tons, valued at \$50,808,626, or an average of \$4.40 per ton, and bituminous slack, 2,312,754 tons, valued at \$10,451,621, or an average of \$4.52 per ton. The value of the imports during 1919 of bituminous round and run-of-mine coal averaged \$2.44 per ton, and of bituminous slack \$2.16 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, 1920, of 16,220,880 short tons, as against 11,950,277 tons in 1919, 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.

### Imports of Coal 'Entered for Consumption,' 1919 and 1920

	1919			1920		
	Tons	Value	Ave. per ton	Tons	Value	Ave. per ton
		\$	\$ cts.		\$	\$ cts.
<i>Imports of Anthracite:—</i>						
Egg, grate, stove and nut.....	4,758,419	30,948,590	6 50	4,401,516	35,317,815	8 02
Rice, barley and buckwheat.....	194,256	647,104	3 33	479,797	1,455,536	3 03
	4,952,675	31,595,694	6 38	4,881,313	36,773,351	7 53
<i>Imports of Bituminous:—</i>						
Round and run-of-mine.....	10,127,965	24,750,717	2 44	11,548,475	50,808,626	4 40
Slack.....	2,228,197	4,814,388	2 16	2,312,754	10,451,621	4 52
	12,356,162	29,565,105	2 39	13,861,229	61,260,247	4 42
Total Imports.....	17,308,837	61,160,799	.....	18,742,542	98,033,598	.....

### 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 $\frac{1}{4}$ " 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.....	5,625,063	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	1,365,231	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	21,756,653	4,642,057	22,034,839	2,816,423	4,157,022
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	2,027,256
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
1920.....	11,548,475	50,808,626	4,881,313	36,773,351	2,312,754	10,451,621

(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 1916, as compiled from "Trade of Canada" reports.

The United States record of monthly exports to Canada is also included for comparison. These are compiled from the "Foreign Commerce of the United States" reports.

## 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	1,565,171
September.....	680,151	1,287,554	1,567,773	1,604,802	1,203,977	1,265,694
October.....	900,450	1,314,286	1,582,797	1,545,320	1,355,577	1,686,495
November.....	967,791	1,156,239	1,273,498	1,439,535	892,248	1,403,649
December.....	937,773	1,118,380	1,248,532	1,222,606	626,965	1,631,277
Total.....	8,393,710	13,009,788	15,537,262	16,893,427	12,356,162	13,681,229

\*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	270,688	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	209,953	260,122
May.....	477,522	372,264	347,390	465,561	461,701	329,684
June.....	415,344	513,523	551,105	401,450	431,874	473,829
July.....	341,380	513,858	559,994	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	470,284	563,306	379,107
October.....	415,929	385,953	570,771	511,214	443,638	421,826
November.....	370,384	383,103	413,200	364,605	379,430	419,403
December.....	345,471	327,848	346,100	406,219	417,434	371,865
Total.....	4,072,192	4,570,815	5,320,198	4,785,160	4,952,675	4,881,313

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

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

(In short tons)

—	1916	1917	1918	1919	1920	1921
January.....	600,616	654,350	510,022	861,023	514,072	1,318,821
February.....	605,634	646,008	647,855	500,000	606,222	704,323
March.....	611,640	884,498	951,196	395,229	716,391	662,544
April.....	740,865	1,022,171	1,273,972	562,173	940,460	789,137
May.....	1,467,229	1,569,297	1,978,799	1,218,589	802,427	1,259,156
June.....	1,476,453	2,017,989	2,019,816	1,602,430	1,337,019	.....
July.....	1,457,326	1,555,972	2,093,600	1,493,681	1,886,889	.....
August.....	1,708,697	2,715,628	2,194,099	1,493,208	2,091,047	.....
September.....	1,519,550	1,739,580	2,038,673	1,581,406	1,965,514	.....
October.....	1,196,122	2,416,800	1,859,456	1,622,438	2,234,212	.....
November.....	1,023,924	1,504,946	1,550,245	377,038	1,634,498	.....
December.....	852,076	1,391,640	1,011,595	233,062	1,492,129	.....
Total.....	13,260,132	18,118,879	18,134,328	11,950,277	16,220,880	.....

\*Compiled from the Monthly Summary of Foreign Commerce of the United States, Washington, D.C.

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

(In short tons)

—	1916	1917	1918 (a)	1919 (a)	1920 (a)	1921 (a)
January.....	288,521	327,838	270,239	412,999	342,797	324,061
February.....	324,354	285,135	254,597	241,940	305,052	326,984
March.....	337,814	408,337	445,041	131,942	470,044	344,893
April.....	237,291	656,731	381,764	319,413	389,151	412,758
May.....	495,609	480,633	476,123	446,652	310,461	486,425
June.....	567,764	677,350	424,203	531,233	573,385	.....
July.....	432,375	437,493	443,002	546,171	738,186	.....
August.....	430,379	760,253	457,177	565,845	622,302	.....
September.....	391,873	501,899	495,840	548,557	364,262	.....
October.....	374,565	535,715	510,753	485,791	497,718	.....
November.....	349,053	329,259	482,013	359,205	373,257	.....
December.....	326,776	606,663	327,056	386,850	417,134	.....
Total.....	4,556,374	6,007,306	4,967,808	4,976,598	5,403,749	.....

\*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 into Canada estimated on the basis of production, imports and exports was in 1920, 32,731,521 tons, which included 14,073,780 tons of Canadian coal and 18,657,741 tons of imported coal.

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

### Consumption of Coal, 1916-17-18-19-20

(In short tons)

—	1916	1917	1918	1919	1920
Production.....	14,483,395	14,046,759	14,977,926	13,681,218	16,631,954
Exports of Canada.....	2,135,359	1,733,156	1,817,195	2,070,050	2,558,174
Home consumption of Canadian coal...	12,348,036	12,313,603	13,160,731	11,611,168	14,073,780
Imports.....	17,580,603	20,857,460	21,678,587	17,308,837	18,742,542
Exports not produce of Canada.....	62,733	47,323	67,486	56,988	84,801
Canadian consumption of imported coal	17,517,820	20,810,132	21,611,101	17,251,849	18,657,741
Total consumption of coal in Canada...	29,865,856	33,123,735	34,771,832	28,863,017	32,731,521

## 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.....	3,980,542	47.8	4,361,563	52.2	8,351,105	1.661
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	5,491,370	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.....	9,727,660	51.7	7,398,906	48.3	15,226,466	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	3.334
1912.....	12,385,696	46.0	14,549,104	54.0	26,934,800	3.596
1913.....	13,450,158	42.6	18,132,387	57.4	31,582,545	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	.....
1920.....	14,073,780	43.0	18,657,741	57.0	32,731,521	.....

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 calendar year 1920, the tonnage of coal used by locomotives amounted to 10,332,915 tons.

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)

	Anthracite	Bituminous	Total
1911 (Year ending June 30).....	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 (Calendar year).....	4,430	9,136,593	9,141,023
1920 " ".....	3,143	9,329,191	9,332,334
1920 " ".....	4,270	10,328,645	10,332,915

## Nova Scotia

The production of coal in Nova Scotia in 1920 was 6,429,291 tons, as compared with a production in 1919 of 5,720,373 tons, showing an increase of 708,918 tons, or 12·4 per cent.

The total sales of coal during 1920 were 5,458,807 tons, of which 4,538,330 tons were sold for consumption in Canada, 32,257 tons for export to the United States, and 888,220 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 970,484 tons, including 317,674 tons used in making coke and for other commercial purposes, and 652,810 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 691,374 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 4,090,171 tons, or 63·6 per cent of the province's production, and equivalent to 24·6 per cent of the total Canadian production. The Nova Scotia Steel and Coal Company produced 677,389 tons, the Acadia Coal Company 582,739 tons, the Inverness Railway and Coal Company 221,108 tons, the Maritime Coal, Railway and Power Company 181,919 tons, the International Coal Mining Company 180,734 tons, and the Bras d'Or Coal Company, Limited, 125,967 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 few years, however, the production fell off. The 1920 production showed a substantial increase. 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 Québec markets, via the St. Lawrence. During the twelve months ending September, 1920, 269,585 tons of Nova Scotia coal were marketed in Québec province, as against 386,022 tons in 1919, 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 2,739,000 tons in 1920.

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 31,000 tons in 1920, whilst during the latter year 591,000 tons were shipped to European markets and 69,000 tons to Africa.

# Coal Production by Companies, in Nova Scotia, 1920

(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. ....	183,979		29,172	7,957	221,108	19,431	3,867		205,544
Port Hood Collieries, Ltd. ....	56,523		3,969	1,232	61,724				61,724
St. Rose Mine (G. W. Evans) .....	33		59		92	22	69	15	154
Chimney Corner Mine (S. J. Doucet).....	1,016		45		1,061				1,061
Anglo Coal Co., Ltd., (Victoria county).....	8,447		540	106	9,093	2,395	2,143	88	8,929
	249,998		33,785	9,295	293,078	21,848	6,079	103	277,412
<i>Cape Breton County—</i>									
Indian Cove Coal Co., Ltd. ....	49,894		1,337	451	51,682		31		51,713
Dominion Coal Co., Ltd. ....	3,196,880	31,592	308,884	72,665	3,610,021	50,308	63,213	29,011	3,651,937
Nova Scotia Steel and Coal Co., Ltd. ....	372,254	250,358	28,883	25,894	677,389	6,637	4,420	34,734	709,906
Bras d'Or Coal Co., Ltd. ....	123,993		885	1,089	125,967			397	126,364
Hiawatha Coal Co. and Coastal Coal Co. ....	8,720		1,175	34	9,929		3,996		13,925
	3,751,741	281,950	341,164	100,133	4,474,988	56,945	71,660	64,142	4,553,845
<i>Pictou County—</i>									
Acadia Coal Co., Ltd. ....	546,051		14,569	22,119	582,739	179	2,398		584,958
Milford Mining Co., and Lanark Eng. Co. ....	51,024		5,311	309	56,644				56,644
Greenwood Coal Co., Ltd. ....	55,713		4,505	1,038	61,256	63	220		61,413
Intercolonial Coal Mining Co., Ltd. ....	149,420	2,321	21,973	7,020	180,734	600	495		180,629
	802,208	2,321	46,358	30,486	881,373	842	3,113		883,644
<i>Cumberland County—</i>									
Valley Coal Co. ....	1,773		360		2,133				2,133
Maritime Coal, Ry. and Power Co., Ltd. ....	144,262	29,191	4,376	4,090	181,919				181,919
Twin Seam Coal Co., Ltd. ....	1,478		47	66	1,591				1,591
Dominion Coal Co., Ltd., (Springhill).....	401,890	4,212	60,217	13,831	480,150	6,134	6,143	64	480,223
Minudie Coal Co., Ltd. ....	45,211		3,413	1,478	50,102				50,102
The Emmerson Coal Co., Ltd. ....	14,659		890	650	16,199				16,199
The Sterling Coal Co. ....	23,309		397	414	24,120		11		24,131
Fundy Coal Co., Ltd. ....	4,937			245	5,182				5,182
Fenwick, Jubilee and Riverside Mines.....	13,151		475	430	14,056		400		14,456
Marsh Mine Coal Co., Ltd. ....	4,190		150	60	4,400				4,400
	654,860	33,403	70,325	21,264	779,852	6,134	6,554	64	780,336
<b>Total</b> .....	<b>5,458,807</b>	<b>317,674</b>	<b>491,632</b>	<b>161,178</b>	<b>6,429,291</b>	<b>85,769</b>	<b>87,406</b>	<b>64,309</b>	<b>6,495,237</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

## 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		763
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	3,453,154
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. ....	6,031		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. ....	6,834		212	223	7,269	84			7,183
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	688,951
<b>Total</b> .....	<b>4,871,607</b>	<b>222,269</b>	<b>482,906</b>	<b>143,591</b>	<b>5,720,373</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. 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





## 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	6,805,489	5,851,761
1909.....	494,919	408,371	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	588,678	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	5,599,489
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
1920.....	779,555	687,987	883,644	804,529	4,553,845	4,033,691	278,193	250,274	6,495,237	5,776,481

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

## Distribution of Coal Sold by Nova Scotia Producers

Markets	Fiscal year ending September 30											
	1915		1916		1917		1918		1919		1920	
	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.....	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	2,319,844	40.71
“ sea.....	392,340	6.08	491,591	7.40	513,763	9.01	510,846	9.89	515,097	10.31	418,775	7.35
Total Nova Scotia.....	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	2,738,619	48.06
New Brunswick.....	675,693	10.48	865,238	13.02	994,741	17.27	988,521	19.13	846,532	16.95	1,004,062	17.62
Prince Edward Island.....	93,171	1.45	92,376	1.40	115,548	2.01	87,431	1.69	87,865	1.76	103,578	1.82
Quebec.....	2,048,222	31.76	1,114,337	16.77	339,374	5.89	150,583	2.92	386,022	7.73	269,586	4.73
Newfoundland.....	233,735	3.63	281,259	4.23	264,914	4.60	245,487	4.75	304,897	6.10	333,127	5.85
United States.....	596,606	9.25	509,773	7.67	383,152	6.65	301,370	5.83	84,910	1.70	30,732	0.54
St. Pierre.....	11,729	0.18	6,485	0.10	6,768	0.11	6,043	0.12	16,117	0.32	11,390	0.20
Bunker coal.....	353,273	5.94	604,601	9.10	423,929	7.45	289,351	5.60	375,642	7.53	543,832	9.54
For time chartered boats.....	18,968	0.29									293	
Loss at sea.....	9,427	0.15	392				8,283	0.16	6,429	0.13		
Other countries.....	8,749	0.14	5,338	0.08	355				72,148	1.44	(a) 663,004	11.64
Total.....	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	5,698,273	100.00

(a) 591,055 tons to Europe; 68,774 to Africa; 2,817 to West Indies; 358 to Ontario.

## Number and Class of Workmen in the Coal Mines of Nova Scotia, Year ended September 30, 1920

	Days pit worked	Average Daily Force.							
		Surface	Under-ground	Cutting coal	Total colliery men	Total colliery days	Transportation, commercial upkeep repairs	Total workmen	Total horses
Dominion Coal Co.....	292.8	938	3,319	907	5,164	1,571,283	2,240	7,404	450
Nova Scotia Steel & Coal Co.....	297.5	300	662	540	1,502	466,992	129	1,631	129
Bras d'Or Coal Company.....	230	42	54	105	201	46,224	8	209	
Indian Cove Coal Company.....	313	14	11	39	64	20,036		64	3
Anglo Coal Company.....	300	18	8	22	48	14,400		48	
Inverness Railway & Coal Co.....	294	120	265	185	570	167,580	160	730	42
Port Hood Collieries, Ltd.....	288	19	56	58	133	38,304	8	141	5
A. W. Chisholm (Chimney Corner).....	143	2	5	4	11	1,564	1	12	2
St. Rose Mine (E. L. Thorne, Trustee).....	29	17	4	3	24	712			
Acadia Coal Co., Ltd.....	305	227	518	596	1,341	409,005	117	1,458	70
Intercolonial Coal Mining Co.....	306.5	135	158	158	451	138,264	22	473	28
Greenwood Coal Company.....	319.7	31	34	61	126	40,283	8	134	
Milford Mining Co.....	300	11	12	30	53	15,900	3	56	
Cumberland Railway & Coal Co.....	293	217	343	227	787	230,591	12	779	48
Maritime Coal, Railway & Power Co.....	295.8	103	182	185	470	139,052	10	480	
Minudie Coal Co.....	297	22	39	51	112	33,342	5	117	5
Provincial Mining Co.....	256	7	5	2	14	3,377	1	15	1
Emmerson Coal Co.....	236.8	10	9	27	46	10,892	2	48	2
Export Coal Company.....	197	15	10	20	45	8,884	5	50	
Sherwood & Swanson (Fundy Mine).....	100	10	12	10	32	3,200	3	35	1
Leander McAloney (Marsh Mine).....	80	4	6	7	17	1,385	6	23	
Sterling Coal Co.....	208	10	15	30	55	11,433	1	56	
Boston Coal Co.....	102	6	3	5	14	1,431	1	15	1
Kemptown Coal Co. (Riversdale C. & Ry. Co.).....	49	5	1	7	13	642	0	13	
Atlantic Coal Co.....	140	2	2	3	7	978	2	9	
		2,285	5,733	3,282	11,300	3,375,954	2,744	14,020	787

## New Brunswick

The production of coal in New Brunswick in 1920 was 166,048 tons as against 179,108 tons in 1919, showing a decrease of 13,060 tons, or 7.3 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, 1920

(In short tons)

	Time in operation	Total sales	*Total for colliery use	Total production
Avon Coal Co., Ltd., Newcastle Creek.....	299 days.	20,916	988	21,904
Grand Lake Coal Co., Ltd., Minto.....	Last 3 mos.	1,415	.....	1,415
Kelly Coal Co., Ltd., Minto.....	Last 5 mos.	1,630	225	1,855
<sup>b</sup> Miramichi Lumber Co. (3).....	12 mos.	28,157	1,080	29,237
Minto Coal Co., Ltd., Minto.....	313 days.	35,486	2,412	37,898
Ridge Coal Co., Ltd., Newcastle Bridge.....	309 days.	9,232	2,419	11,651
Rothwell Coal Co., Ltd., Rothwell.....	284 days.	11,253	460	11,713
Reade Construction Co., Ltd., Minto.....	179 days.	22,086	800	22,886
Welton, Harvey, Minto.....	249 days.	23,937	.....	23,937
<sup>a</sup> Welton & Henderson, Ltd., Minto (2).....	.....	3,465	87	3,552
Total New Brunswick.....	.....	157,577	8,471	166,048

<sup>a</sup> Formerly J. Coakley (1) and John Henderson (1). <sup>b</sup> Formerly G. H. King (1), A. D. Taylor (1), and Northfield Coal Co. (1).

## 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.

## 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	386,016	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	1920.....	166,048	1,055,286	6 36
				Total.....	1,769,496	6,068,440	

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 1920 from 63 collieries was 343,475 tons, valued at \$819,320, as compared with 380,169 tons, valued at \$820,522 in 1919, a decrease of 36,694 tons, or 9.7 per cent.

The 1920 production included 318,987 tons of coal sold and 24,488 tons used by producers for colliery consumption, by workmen, or in brickmaking.

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 principal operators in 1919 and 1920 is shown in the following tables:—

## Production of Coal in Saskatchewan in 1920, by Principal Operators

(In short tons)

Name of Company.	Labour		Time in operation	Total sales	Total for colliery use.*	Total production	Waste
	Above	Below					
Anderson, Niels, Estevan.....		5	5 mos.	1,738		1,738	318
Bienfait Commercial Co., Ltd., Bienfait.....	8	34	292 days	40,324	840	41,164	
Bienfait Mine (The), Bienfait.....	13	44	263 "	62,962	2,480	65,442	
Crescent Collieries, Ltd.....	17	18	280 "	33,818	1,165	34,983	
Eidsness Bros., Gladmar.....	1	2	9 mos.	1,565		1,565	
Estevan Coal & Brick Co., Ltd., Estevan.....	2	5	275 days	1,277	(a) 5,393	6,670	
Heuvel, Jno. V., Hart.....				1,734		1,734	
Dempsey, Wm., Shaunavon.....	1	3	12 mos.	2,793		2,793	
McNeil & Rooks, Estevan (abandoned June, 1920).....		4	4 "	746		746	373
Manitoba & Saskatchewan Coal Co., Ltd., Estevan.....	24	52	8 "	41,983	4,775	46,758	1,000
May, Chas., Bengough.....	1	5	6 "	973		1,011	337
Nicholson, H., Estevan.....	4	3	6 "	3,308	331	3,639	
Parkinson, Geo., Estevan.....		4	12 "	3,498	41	3,539	
Salaba, Jas.....				1,990		1,990	No record.
Shand Coal, Brick & Power Co., Ltd., Shand.....	8	19	197 days	13,375	(a) 4,122	17,497	
Siddall, Edwin.....	1	1	114 "	896		896	
Western Collieries Ltd., Roche Percée (New).....	(b) 4	10	Dev.	2,195		2,195	
Western Dominion Collieries, Ltd., Taylorton.....	32	71	220 days	85,936	5,229	91,165	
Hamilton, H. A., Riverside Mine, Taylorton.....	1	3	6 mos.	1,053		1,053	
All other operators (44).....	14	53		16,823	74	16,897	746
Total Saskatchewan.....	127	326		318,987	24,488	343,475	2,774

\*Includes consumption under boilers, etc., and coal used by workmen. (a) also includes coal for brick-making. (b) Development.

## 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	61,183	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	1,840		1,840
All other operators (46).....	76 days	8,118	6,774	14,892
Total Saskatchewan.....		354,399	25,770	380,169

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

## Annual Production of Coal in Saskatchewan

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
		\$	\$ cts.			\$	\$ cts.
1887.....	(a) 400	800	2 00	1906.....	108,308	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 16
1903.....	116,703	169,618	1 45	1920.....	343,475	819,320	2 39
1904.....	124,885	187,021	1 50				
1905.....	107,596	152,334	1 42	Total.....	4,250,062	7,501,401	

(a) From Turtle Mountain district, Manitoba.

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

## 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 1920 bituminous coal contributed 49.9 per cent of the total production, lignite, 47.8 per cent, and semi-anthracite, 2.3 per cent.

The total production of coal in Alberta in 1920 was 6,833,500 tons, valued at \$29,849,608, or an average of \$4.37 per ton, as compared with a production of 4,964,535 tons, valued at \$18,294,495, in 1919.

There are many small operators in the province—the number reporting production in 1920 being 250. There were 65 companies reporting a production in excess of 10,000 tons, and the aggregate production by these firms was 96.3 per cent of the total for the province. Seventeen mines reported a production exceeding 100,000 tons each, the largest operators being the West Canadian Collieries, Limited, with 756,640 tons from Bellevue and Greenhill collieries; the Canadian Pacific Railway, with a total of 555,212 tons from Bankhead, Lethbridge, and Taber; the North American Collieries, Limited, with 552,016 tons from Lovettville, Coalhurst, Evansburg, Dodds, and Drumheller; the Brazeau Collieries, Limited, with 411,990 tons from Nordegg; the Hillcrest Collieries, Limited, with 331,857 tons; the McGillivray Creek Coal and Coke Company, Limited, with 330,980 tons; the International Coal and Coke Company, Limited, with 300,852 tons; the Canmore Coal Company, with 275,447 tons; and the Oliphant Munson Collieries, Ltd., with 244,633 tons.

Of the total production 6,313,503 tons were reported as sales, including 6,180,585 tons sold for consumption in Canada, and 132,918 tons sold for export to the United States; 519,997 tons were used by the producers for colliery operations, the manufacture of briquettes, and for workmen.

The falling-off of over 1,000,000 tons in 1919 was 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 had 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. An effort was made on the part of the Alberta producers to secure and retain an increasing proportion of this market. In view of this it is not surprising that the 1920 production reflected this effort by attaining its maximum record.

The production of anthracite, bituminous, and lignite coal during 1919, and the production of each of the larger collieries during 1920 and 1919 are shown in the following tables:—



## Production of Coal in Alberta by Districts

(In short tons)

District.	1917		1918		1919		1920	
	Production	%	Production	%	Production	%	Production	%
Banff..... Anthracite	108,225	2.29	115,405	1.93	111,324	2.24	155,679	2.28
Crowsnest..... Bituminous	1,188,456	25.09	1,595,662	26.72	1,175,535	23.68	1,769,807	25.90
Canmore..... "	196,947	4.16	274,745	4.60	201,808	4.07	275,447	4.03
Brazeau..... "	266,823	5.63	373,078	6.25	308,973	6.22	453,787	6.64
Jasper Park..... "	248,733	5.25	285,005	4.77	145,668	2.93	173,813	2.54
Yellowhead Pass..... "	159,182	3.36	312,395	5.23	361,440	7.28	505,714	7.40
Mountain Park..... "	139,164	2.94	137,042	2.29	112,964	2.28	232,304	3.40
Total Bituminous.....	2,199,305	46.43	2,977,927	49.86	2,306,388	46.46	3,410,872	49.91
Pincher Creek..... Lignite	4,652	0.10	4,369	0.07	4,119	.....	6,238	.....
Lethbridge..... "	614,017	12.96	808,231	13.53	579,627	11.68	831,111	12.16
Magrath..... "	936	0.02	748	0.01	1,499	.....	895	.....
Milk River..... "	8,047	0.18	6,378	0.11	6,013	.....	6,046	.....
Taber..... "	157,373	3.32	162,589	2.72	101,163	2.04	122,091	1.79
Bow Island..... "	6,043	0.13	6,733	0.11	5,931	.....	4,820	.....
Medicine Hat..... "	13,975	0.30	17,010	0.29	20,195	.....	13,261	.....
Aldersyde..... "	7,076	0.15	7,585	0.13	7,765	.....	8,081	.....
High River..... "	1,126	0.02	610	0.01	458	.....	1,722	.....
Drumheller..... "	631,767	13.34	855,240	14.32	792,351	15.96	1,178,183	17.24
Big Valley..... "	26,753	0.56	34,477	0.58	34,659	0.70	47,594	0.70
Brooks..... "	9,233	0.19	11,482	0.19	8,958	.....	12,744	.....
Hanna..... "	25,670	0.54	29,166	0.49	25,560	0.51	30,651	0.45
Lacombe..... "	16,097	0.34	13,135	0.22	13,476	.....	14,175	.....
Trochu..... "	15,023	0.32	16,862	0.28	15,058	.....	13,380	.....
Three Hills..... "	22,457	0.47	25,786	0.43	25,345	0.51	33,763	0.49
Carbon..... "	4,301	0.09	5,152	0.09	3,742	.....	7,993	.....
Battle River..... "	9,862	0.21	11,126	0.19	11,509	.....	11,872	.....
Camrose..... "	56,625	1.20	54,579	0.91	83,410	1.68	69,836	1.02
Tofield..... "	68,806	1.45	67,699	1.13	95,011	1.91	53,550	0.78
Clover Bar..... "	256,208	5.41	256,661	4.30	292,007	5.88	341,666	5.00
Edmonton..... "	121,080	2.56	105,721	1.77	93,811	1.89	96,583	1.41
Namoo..... "	18,195	0.38	19,279	0.32	9,855	.....	15,921	.....
Cardiff..... "	237,861	5.02	238,156	3.99	175,741	3.54	174,344	2.55
Wabamun..... "	13,534	0.29	18,961	0.32	32,973	.....	29,087	.....
Pembina..... "	81,911	1.73	101,749	1.70	106,196	2.14	140,988	2.06
Peace River..... "	210	.....	.....	.....	391	.....	.....	.....
Total Lignite.....	2,428,838	51.28	2,879,484	48.21	2,546,823	51.30	3,266,949	47.81
Grand Total.....	4,736,368	100.00	5,972,816	100.00	4,964,535	100.00	6,833,500	100.00

## Production of Coal in Alberta, in 1920, by Principal Collieries.

(In short tons)

Name of Company and Mine Address	Labour		Time in operation	Total sales	Total colliery consumption	Total production	Waste
	Above ground	Below ground					
Alberta Block Coal Co., Ltd., Drumheller.....	33	120	243 days	122,632	6,220	128,852	
Alberta Coal Mining Co., Ltd. (The), Cardiff.....	19	51	202 "	51,322	3,600	54,922	
Atlas Coal Co., Ltd., Drumheller.....	45	22	247½ "	60,674	5,289	65,963	
Banner Coal Co., Cardiff.....	11	37	213 "	34,731	1,598	36,329	
Bellevue Collieries, Ltd., Bellevue.....	26	41	244 "	44,642	4,476	49,118	
Big Valley Coal Co., Big Valley.....	15	42	259 "	42,971	600	43,571	
Blackstone Coal, Limited, Blackstone Mine.....	49	10	221 "	33,564		33,564	
Blue Diamond Coal Co., Ltd., Brule.....	113	164	246 "	118,447	77,973	126,420	
Brazeau Collieries, Ltd., Nordegg.....	178	375	268½ "	404,095	7,895	411,990	
Brookdale Collieries, Ltd., Lovettville.....	12	18	218 "	15,613		15,613	
Bush Mine Coal Co., Beverly.....	18	55	272 "	68,661	1,550	70,211	
Cadomin Coal Co., Ltd., Coalspur.....	46	67	8 mos.	66,126	2,132	68,258	
Canada West Coal Co., Ltd., Taber.....	33	164	223 days	74,080	16,305	90,385	10,193
Canadian Dinant Coal Co., Ltd., Dinant.....	11	20	12 mos.	22,400	1,296	23,696	
Canadian Pacific Railway—							
Bankhead Mine.....	160	117	305 days	31,727	(a) 123,952	155,679	14,627
Galt Mines, Lethbridge.....	200	500	278 "	352,077	46,427	398,504	2,000
Canmore Coal Co., Ltd., Canmore.....	108	213	291 "	258,226	17,221	275,447	
Cardiff Collieries, Ltd., Cardiff.....	24	52	252 "	76,683	6,410	83,093	1,146
Chinook Coal Co., Ltd., Commerce.....	56	128	12 mos.	87,835	24,367	112,202	
City of Lethbridge Coal Mine, Lethbridge.....	1	7	273 days	11,524		11,524	
Clover Bar Coal Mine Co., Ltd., Clover Bar.....	11	29	271 "	28,444	4,230	32,674	
Dawson Coal Co., Ltd. (The), Edmonton.....	7	16	244 "	12,182	2,740	14,922	
Dobell Coal Co., Ltd. (The), Tofield.....	20		311 "	28,488	36	28,524	4,273
Donkin Stevens Co. (Twin City Mine), Edmonton, S.....	27	38	12 mos.	22,245	5,111	27,356	
Drumheller Land Co. (The), Drumheller.....	22	52	219½ days	31,907	3,199	35,106	
Edmonton Collieries, Ltd., Edmonton.....	10	32	264 "	24,594	908	25,502	
Elgin Coal Co., Ltd., Drumheller.....	11	20	132 "	11,264	96	11,360	
Ellis Coal Co., Ltd., Three Hills.....	8	22	225 "	20,473	1,891	22,364	1,725
Excelsior Collieries, Ltd., Drumheller.....	9	18	218 "	14,242	574	14,816	1,934
Federal Coals, Ltd., Lethbridge.....	21	54	284 "	38,563	2,064	40,627	
Foothill Collieries, Ltd., Lovettville.....	20	26	281½ "	29,665	2,106	31,771	
Fraser-McKay Collieries, Ltd., Clover Bar.....	7	20	262 "	17,011	245	17,256	1,110
Great West Coal Co., Ltd. (The), Clover Bar.....	49	85	254 "	91,361	8,949	100,310	
Great West Coal Co. (Star Mine), Aerial.....	16	47	181 "	30,220	1,322	31,542	2,350
Hamilton Coal Co., Wayne.....	7	15	229 "	13,787	997	14,784	1,454
Hillcrest Collieries, Ltd., Hillcrest.....	102	300	280 "	314,306	17,551	331,857	
Humberstone Coal Co., Beverly.....	30	85	245 "	71,693	10,169	81,862	
Hy-Grade Coal Co., Drumheller.....	20	42	226 "	61,980	370	62,350	
International Coal & Coke Co., Ltd., Coleman.....	135	221	306 "	279,130	21,722	300,852	
Jasper Park Collieries, Ltd., Pochontas.....	93	154	293 "	100,377	5,507	105,884	5,912

Production of Coal in Alberta, in 1920, by Principal Collieries—*Concluded.*

Name of Company and Mine Address	Labour		Time in operation	Total sales	Total colliery consumption	Total production	Waste
	Above ground	Below ground					
Jewell Collieries, Ltd., Wayne.....	19	44	221 days	52,018	1,150	53,168	.....
Lakeside Coals, Ltd., Wabamun.....	14	39	12 mos.	28,372	700	29,072	.....
Lethbridge Coal Co., Ltd., Lethbridge.....	10	18	211 days	12,063	86	12,149	3,550
Marcus Collieries, Ltd., Clover Bar.....	15	67	258 "	19,069	2,100	21,169	.....
McGillivray Creek Coal & Coke Co., Ltd., Coleman.....	107	280	298 "	317,144	13,836	330,980	.....
McPeak, P. J., Edmonton.....	7	33	255 "	22,322	2,864	25,186	.....
Midland Collieries, Ltd., Midlandvale.....	34	115	239 "	87,928	5,100	93,028	7,500
Mountain Park Coal Co., Ltd., Mountain Park.....	71	181	298 "	162,165	11,648	173,813	.....
Newcastle Coal Co., Ltd., Drumheller.....	21	61	131 "	58,241	1,350	59,591	.....
Newcastle Junior Mining Co., Ltd., Drumheller.....	6	10	122 "	10,098	.....	10,098	.....
North American Collieries, Ltd.—							
Pacific Pass, Lovettville (now abandoned).....	42	64	5 mos.	35,083	5,279	40,362	1,620
Pembina, Evansburgh.....	64	91	290 days	132,217	8,771	140,988	5,998
Monarch, Drumheller.....	54	154	267 "	113,257	7,110	120,367	7,257
Lethbridge, Coalhurst (Kipp).....	121	285	280 "	229,616	20,683	250,299	16,288
Oliphant-Munson Collieries, Ltd., Oliphant Mines.....	177	.....	268 "	238,659	5,974	244,633	.....
Ottewell Coal Co., Ltd., Clover Bar.....	7	13	266 "	12,142	.....	12,142	.....
Premier Coal Co., Ltd., Drumheller.....	12	46	193 "	36,011	1,273	37,284	.....
Regal Collieries, Ltd., Taber.....	15	43	110 "	14,631	3,711	18,342	907
Rock Springs Coal and Brick Co., Ltd., Elcan.....	.....	.....	.....	.....	.....	.....	.....
Rosedale Coal and Clay Products, Ltd., Rosedale.....	54	106	234 days	119,998	2,179	122,177	.....
Rose Deer Coal Mining Co., Ltd., Wayne.....	37	120	212 "	86,382	6,475	92,857	8,576
Saunders-Alberta Collieries, Ltd., Saunders.....	20	27	283 "	19,123	889	20,012	.....
Saunders Creek Collieries, Ltd., Saunders.....	18	40	234½ "	19,575	1,891	21,466	.....
Scranton Coal Co., Ltd., Drumheller.....	20	56	199 "	34,739	3,562	38,301	.....
Spicer Coal Co., Ltd., Dinart.....	11	24	235 "	23,809	760	24,569	1,063
Tofield Coal Co., Ltd., Tofield.....	33	.....	12 mos.	21,552	1,150	22,702	.....
West Canadian Collieries—							
Bellevue.....	113	278	288 days	354,835	17,883	372,718	.....
Greenhill.....	103	223	261½ "	375,043	8,879	383,922	.....
Western Commercial Co., Ltd., Wayne.....	49	129	196 "	73,255	5,666	78,921	5,015
Western Gem Mining Co., Ltd., Drumheller.....	16	62	247½ "	82,290	1,368	83,658	.....
Yellowhead Coal Co., Ltd., Coalspur.....	42	65	12 mos.	57,115	1,390	58,505	.....
Total (65).....	3,095	6,153		6,068,714	510,825	6,579,539	104,507
All other operators (185).....	184	622		244,789	9,172	253,961	240
Total, Alberta.....	3,279	6,775		6,313,503	519,997	6,833,500	114,747

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



## 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.	40,782	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
Blue Diamond Coal Co., Ltd.....	164 "	96,681	4,179	100,860
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	14,883		14,883
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., Pocahontas.....	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., Coleman.....	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	80,133
Pembina, Evansburgh.....	250 "	98,275	7,921	106,198
Regal, Dodds.....	9 mos.	13,413		13,416
Monarch, Drumheller.....	119 days	32,953	3,154	36,107
Lethbridge, Coalhurst (Kipp).....	187 "	150,849	14,929	165,778
Olipphant-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., Elcan.....	174 "	13,283	1,943	15,226
Rosedale Coal and Clay Products Co., Ltd., Rosedale.....	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
Scranton 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

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

Production of Coal in Alberta in 1919, by Principal Collieries—*Concluded*

Name of Company and Mine Address	Time in operation	Total sales	Total colliery consumption	Total production
West Canadian Collieries.—				
Bellevue.....	209½ days	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 (61).....		4,304,719	382,676	4,747,395
All other operators (194).....		212,517	4,623	117,140
Total, Alberta.....		4,577,236	387,299	4,964,535

## Annual Production of Coal in Alberta

Calendar Year	Short tons	Value	Average per ton	Calendar Year	Short tons	Value	Average per ton
		\$	\$			\$	\$
1886.....	34,220	81,112	1.88	1904.....	661,732	1,404,524	2.12
1887.....	74,152	157,577	2.13	1905.....	931,917	1,993,915	2.14
1888.....	115,124	183,354	1.59	1906.....	1,246,360	2,614,762	2.10
1889.....	97,364	179,640	1.85	1907.....	1,591,579	3,836,286	2.41
1890.....	123,753	198,298	1.54	1908.....	1,685,661	4,127,311	2.45
1891.....	174,131	437,243	2.51	1909.....	1,994,741	4,838,109	2.43
1892.....	178,970	460,605	2.57	1910.....	2,894,469	7,065,736	2.44
1893.....	230,070	586,260	2.55	1911.....	1,511,036	3,979,264	2.63
1894.....	184,940	473,827	2.56	1912.....	3,240,577	8,113,525	2.50
1895.....	169,885	382,526	2.25	1913.....	4,014,755	10,418,941	2.59
1896.....	209,162	581,832	2.78	1914.....	3,653,015	9,350,392	2.54
1897.....	242,163	630,408	2.60	1915.....	3,360,818	8,283,079	2.46
1898.....	315,088	787,720	2.50	1916.....	4,559,054	11,386,577	2.50
1899.....	309,600	774,000	2.50	1917.....	4,736,368	14,153,685	2.99
1900.....	311,450	778,625	2.50	1918.....	5,972,816	20,537,287	3.44
1901.....	340,275	850,687	2.50	1919.....	4,964,535	18,294,495	3.68
1902.....	402,819	960,601	2.38	1920.....	6,833,500	29,849,608	4.37
1903.....	495,893	1,117,541	2.25				
				Total.....	57,905,992	169,869,352	

## Disposition of the Total Output of Coal and Briquettes of Alberta—Calendar Year 1920

(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	Quebec	United States	Railroad		Making Briquettes	Under Colliery Boilers					
Domestic.....	1,370,595	54,116	1,134,280	456,404	13,281	30	37,803	.....	211,488	22,528	81,412	18,436	4,283	3,359,308		
Bituminous.....	266,225	69,675	171,209	143,202	630	.....	115,415	2,506,507	137,097	11,993	10,295	13,015	212	3,419,021		
Anthracite.....	10,382	5,059	4,657	1,356	.....	.....	302	10,048	93,228	1,556	14,627	40,929	.....	130,594		
<b>Total.....</b>	<b>1,647,202</b>	<b>128,850</b>	<b>1,310,146</b>	<b>600,962</b>	<b>13,911</b>	<b>30</b>	<b>153,610</b>	<b>2,516,555</b>	<b>378,893</b>	<b>36,077</b>	<b>106,334</b>	<b>72,380</b>	<b>4,495</b>	<b>6,908,923</b>		
Briquettes.....	81,606	2,706	10,897	6,484	.....	.....	.....	72,453	35	555	.....	361	.....	101,922		

## 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)

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	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.....	8,862	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	.....	460	.....	70,033	
Coke.....	129	113	63	263	.....	.....	568	.....	.....	.....	.....	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.

### British Columbia

The production of coal in British Columbia in 1920 was 2,858,877 tons, as compared with 2,435,933 tons in 1919, an increase of 422,944 tons, or 17.4 per cent.

Of the total production in 1920, 2,441,024 tons were reported as sales, including 1,555,510 tons sold for consumption in Canada, 876,949 tons sold for export to the United States, and 8,565 tons to other countries. There were 417,853 tons used by the producers, including 116,124 tons for making coke and 301,729 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 779,915 tons; the Canadian Western Fuel Company, with 740,363 tons; and the Canadian Collieries (Dunsmuir) Limited, with 674,618 tons. These three companies contributed 76.8 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, 1920

(In short tons)

Coal.	Vancouver Island	Nicola and Princeton	Crowsnest and East Kootenay	Total
Sold for consumption in Canada.....	1,173,050	154,207	228,253	1,555,510
Sold for export to United States.....	339,703	1,639	535,607	876,949
Sold for export to other countries.....	8,565			8,565
<b>Total sales.....</b>	<b>1,521,318</b>	<b>155,846</b>	<b>763,860</b>	<b>2,441,024</b>
Used by operator for making coke, etc.....		2,277	113,847	116,124
Used for colliery consumption, etc.....	225,993	9,535	66,201	301,729
<b>Production.....</b>	<b>1,747,311</b>	<b>167,658</b>	<b>943,908</b>	<b>2,858,877</b>
Per cent.....	61.1	5.9	33.0	100.0
<b>Output.....</b>	<b>1,993,370</b>	<b>170,131</b>	<b>946,716</b>	<b>3,110,217</b>

#### 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 by operator for making coke, etc.....	62,353		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	100.0
<b>Output.....</b>	<b>1,915,129</b>	<b>168,993</b>	<b>623,836</b>	<b>2,707,958</b>



## Coal Production by Collieries in British Columbia, 1920

(In short tons)

Colliery	Sold				Used		Production	Lost in washing, etc.	Stocks		Output
	In Canada	To United States	To other countries	Total	Making coke, etc.	Under colliery boilers; workmen			First of year	Last of year	
1. Harwood.....	104,953	37,116	2,073	144,142	.....	47,591	191,733	36,717	23,610	8,031	212,871
No. 1 Mine.....	188,217	69,940	3,907	262,064	.....	63,397	325,461	21,916	26,988	4,419	324,808
Reserve and Wakosiah.....	130,873	46,284	2,585	179,742	.....	43,527	223,269	9,708	487	.....	232,490
2. East Wellington No. 1 (Jingle Pot) <i>a</i> .....	5,124	.....	.....	5,124	.....	1,173	6,297	152	.....	.....	6,449
3. Wellington.....	103,724	52,323	.....	156,047	.....	17,424	173,471	47,586	2,717	1,633	219,973
Comox.....	311,908	104,470	.....	416,378	.....	12,709	429,087	83,688	12,720	5,569	510,624
No. 5 South Wellington.....	67,747	.....	.....	67,747	.....	4,313	72,060	29,086	.....	.....	101,146
4. South Wellington Mines.....	68,355	15,991	.....	84,346	.....	17,942	102,288	15,097	12,577	1,343	106,151
5. Granby.....	162,867	9,096	.....	171,963	.....	12,893	184,856	68,351	32,485	5,911	226,633
6. Lantzville (Grant).....	29,282	4,483	.....	33,765	.....	5,024	38,789	12,596	.....	840	52,225
7. Michel.....	83,276	78,546	.....	161,822	113,847	20,674	296,343	.....	.....	.....	296,343
Coal Creek.....	65,571	379,082	.....	444,653	.....	38,919	483,572	.....	109	134	483,597
8. Corbin.....	79,406	77,979	.....	157,385	.....	6,608	163,993	.....	3,674	6,457	166,776
9. Middlesboro.....	92,278	.....	.....	92,278	.....	5,727	98,005	.....	40	150	98,115
10. Inland (Coal Hill).....	33,252	.....	.....	33,252	.....	1,831	35,083	2,380	100	100	37,463
11. Princeton.....	17,140	1,639	.....	18,779	2,277	1,977	23,033	393	436	26	23,016
12. Coalmont and Ashman collieries.....	11,537	.....	.....	11,537	.....	.....	11,537	.....	.....	.....	11,537
	1,555,510	876,949	8,565	2,441,024	116,124	301,729	2,858,877	332,670	115,943	34,613	3,110,217

1. Canadian Western Fuel Company.
2. Vancouver-Nanaimo Coal Co. *a*.
3. Canadian Collieries (Dunsmuir), Ltd.
4. Pacific Coast Coal Mines, Ltd.
5. Granby Consolidated Mg., S., & Power Co., Ltd.

6. Nanoose Wellington 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 & Land Co., Ltd.
12. { Coalmont Collieries, Ltd., and  
    T. Gillespie at Telkwa.

*a* Abandoned April, 1920.



## 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	348,509
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	22,950		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		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 Mfg., 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.

## 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		
						\$ cts.	\$
1836 to 1873.....	480,785				538,480		
1874.....	81,547	25,023	56,038	81,061	90,788	4 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	150,455	3 00	420,555
1878.....	170,846	26,166	164,682	190,848	213,750	3 00	419,076
1879.....	241,301	40,294	192,096	232,390	260,277	3 00	572,544
1880.....	267,595	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	817,086
1882.....	282,139	56,161	232,411	288,572	323,201	3 00	688,542
1883.....	213,299	64,786	149,567	214,353	240,075	3 00	865,715
1884.....	394,070	87,388	306,478	393,866	441,130	3 00	643,059
1885.....	365,596	95,227	237,797	333,024	372,987	3 00	1,181,592
1886.....	326,636	85,987	249,205	335,192	375,415	3 00	999,078
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	767,589	3 00	1,704,747
1891.....	1,029,097	202,697	806,479	1,009,176	1,130,277	3 00	2,056,635
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	261,984	634,238	896,222	1,003,769	3 00	2,834,049
1897.....	802,296	290,310	619,890	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	685,667	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.....	1,641,626	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	7,390,306
1908.....	2,111,931	1,486,511	597,157	2,083,668	2,333,708	3 50	7,292,838
1909.....	2,388,196	1,585,232	741,667	2,326,899	2,606,127	3 50	8,144,147
1910.....	3,152,207	1,798,873	1,175,007	2,973,880	3,330,745	3 50	10,408,580
1911.....	2,304,794	1,657,422	612,696	2,270,118	2,542,532	3 50	7,945,413
1912.....	2,857,345	1,898,213	966,903	2,865,176	3,208,907	3 50	10,028,116
1913.....	2,587,357	1,799,643	623,946	2,423,589	2,714,420	3 50	8,482,562
1914.....	2,182,164	1,397,036	602,785	1,999,821	2,239,799	3 50	6,999,374
1915.....	1,962,817	1,191,219	653,078	1,844,297	2,065,613	3 50	6,455,041
1916.....	2,487,012	1,463,152	844,045	2,307,197	2,584,061	3 50	8,455,190
1917.....	2,375,745	1,380,325	792,789	2,173,114	2,433,888	3 70	8,075,190
1918.....	2,570,624	1,482,300	811,083	2,293,333	2,568,589	5 01	8,235,716
1919.....	2,417,820	1,413,597	761,343	2,174,940	2,435,933	5 71	11,494,681
1920.....	2,776,979	1,761,931	790,638	2,552,569	2,858,877	6 55	12,420,445
Total.....				58,713,944	65,769,618		209,521,481

\* 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 1920 was reported as 763 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 50	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	1920.....	763	4,430	6 00
				Total.....	136,928	752,880	.....

\* 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 1920, 957,945 tons of domestic and 1,089,024 tons of imported coal were charged to coke ovens, from which was obtained an output of 1,306,644 tons of coke, thus averaging 63.8 tons of coke per ton of coal charged. Coke from by-product ovens comprised 87.3 per cent of the total.

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.

The amount of coke sold or used by the producers in 1920 was 1,327,180 tons, as compared with 1,133,680 tons in 1919, an increase of 193,500 tons.

In addition to the tonnage sold or used, there were imported during 1920, 586,406 tons of coke, while the exports totalled 39,536 tons. The Canadian consumption in 1920 was, therefore, 1,874,050 tons, an increase of 371,705 tons. The consumption of oven coke during recent years has been as follows: 2,178,318 tons in 1916, 2,192,373 tons in 1917, 2,386,722 tons in 1918, and 1,502,345 tons in 1919.

## Coke Production, 1920

(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.....	721,374	428,298	13,552	12,232	420,618	32.37	4,340,986
Ontario.....	*1,089,024	726,728	25,852	6,334	746,246	56.23	8,163,613
British Columbia..	236,571	151,618	349	651	151,316	11.40	2,002,075
Total.....	2,046,969	1,306,644	39,753	19,217	1,327,180	100.00	14,515,674

\*All imported coal.

## 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.....	699,696	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.

## Distribution of Coke Production, 1920

(In short tons)

	Nova Scotia	Ontario	British Columbia	Total
Sold in Canada.....	4,406	55,727	40,161	100,294
Sold for export.....			35,524	35,524
Total sales.....	4,406	55,727	75,685	135,818
Used by maker in blast furnace or otherwise.....	425,212	690,519	75,631	1,191,362
Total sold or used.....	429,618	746,246	151,316	1,327,180
Number of ovens in operation Dec. 31.....	120	240	300	660

## 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	935,651	3,630,410	3.88
1912.....	2,053,807	1,406,028	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	5,919,506	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	1,200,766	64.7	8,671	38,904	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
1920.....	2,046,969	1,306,644	63.8	39,753	19,217	1,327,180	14,515,674	10.94

## 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.....	935,651	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	5,919,506	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
				1920.....	1,327,180	14,515,674	10.94

## 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	121,573	486,312	248,394	1,172,675
1911.....	557,554	1,814,977	259,554	1,318,303	36,216	146,251	82,327	350,379
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	1,306,213
1914.....	343,289	1,118,614	386,314	1,352,099	29,059	116,236	265,198	1,071,565
1915.....	585,873	1,905,766	285,251	1,141,004	23,326	95,304	275,523	1,116,506
1916.....	654,433	2,617,732	472,507	2,008,155	41,950	167,800	300,851	1,255,725
1917.....	643,757	3,218,785	389,043	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
1920.....	429,618	4,349,986	746,246	8,163,613			151,316	2,002,075

## 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.....	379,213	30.1	879,066	69.9	1,258,284
1919.....	124,241	10.7	1,036,229	89.3	1,160,470
1920.....	166,368	12.7	1,140,276	87.3	1,306,644

## Annual Exports of Coke

Calendar Year	Short tons	Value	Calendar Year	Short tons	Value
		\$			\$
1897.....	2,987	6,078	1909.....	74,067	329,051
1898.....	3,774	8,394	1910.....	57,971	250,715
1899.....	5,557	18,726	1911.....	9,862	39,823
1900.....	41,529	131,278	1912.....	57,744	252,763
1901.....	57,505	176,990	1913.....	68,235	308,410
1902.....	62,568	180,920	1914.....	67,838	306,117
1903.....	32,608	135,957	1915.....	35,869	160,053
1904.....	102,463	345,031	1916.....	48,539	221,334
1905.....	116,071	509,908	1917.....	23,595	137,318
1906.....	37,003	168,571	1918.....	29,612	223,629
1907.....	70,617	320,357	1919.....	14,709	129,703
1908.....	58,708	243,759	1920.....	39,536	390,161

## Annual Imports of Oven Coke

Calendar Year	Short tons	Value	Calendar Year	Short tons	Value
		\$			\$
1907.....	624,649	2,206,084	1914.....	553,046	1,585,259
1908.....	426,971	1,135,125	1915.....	637,857	1,608,464
1909.....	661,425	1,508,627	1916.....	757,116	2,229,078
1910.....	737,088	1,908,725	1917.....	970,106	6,517,260
1911.....	751,339	1,843,248	1918.....	1,165,590	8,975,445
1912.....	628,174	1,702,856	1919.....	383,374	2,405,740
1913.....	723,906	2,180,830	1920.....	586,406	6,458,596

The Nova Scotia coke was made at Sydney and Sydney Mines.

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 all year.

In British Columbia coke was made by the Crow's Nest Pass Coal Company at Michel, and by the Granby Consolidated Mining and Smelting Company at Anyox. The ovens at Fernie and Union Bay were not operated.

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 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 1920 included 14,026,172 gallons of tar; 19,934 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	1911.....	6,464,155	7,124
1902.....	4,094,135	2,393	1912.....	8,423,896	11,289
1903.....	3,281,249	3,207	1913.....	8,371,600	10,608
1904.....	1,649,197	1,773	1914.....	5,714,172	8,572
1905.....	3,407,784	2,500	1915.....	7,365,931	10,448
1906.....	3,725,723	2,364	1916.....	9,012,202	11,040
1907.....	4,424,615	1,738	1917.....	8,277,078	9,941
1908.....	4,450,166	3,342	1918.....	8,009,327	10,825
1909.....	4,016,824	3,416	1919.....	12,394,249	11,765
1910.....	3,963,591	3,491	1920.....	14,026,172	19,934

The imports of sulphate of ammonia in 1920 were reported as 312.3 tons, valued at \$31,531, as against imports in 1919 of 101.7 tons, valued at \$12,129.

Exports of sulphate of ammonia during the twelve months ending December 31, 1920, were 18,329 tons, valued at \$1,896,660, as compared with exports in 1919 of 18,488 tons, valued at \$1,821,880.