

CANADA
DEPARTMENT OF MINES

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THE
PRODUCTION OF COAL AND COKE
IN
CANADA

During the Calendar Year

1914

*Advance Chapter of Annual Report on
the Mineral Production of Canada, 1914*



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CALENDAR YEAR 1914.**

(Tons used throughout this report are short tons of 2,000 pounds, except where otherwise stated.)

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COAL.

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

The total production of coal during 1914 was 13,637,529 short tons (12,176,365 long tons) valued at \$33,471,801, or an average of \$2.45 per ton. This coal was produced by 221 operating companies who employed an average of 27,571 men, and paid out in wages approximately \$19,060,011. The 1914 production, on comparison with that of 1913, which was 15,012,178 short tons (13,403,730 long tons) valued at \$37,334,940, shows a decrease of 1,374,649 tons, or 9.16 per cent. Compared with 1912 a decrease in production of 875,300 tons is shown; but the 1914 production is greater than that of any year prior to 1912. The values mentioned are partially estimated or assumed since complete returns have not been received with respect to amounts realized from coal sales. In the case of Nova Scotia an average value of \$2.50 per long ton is placed upon the total production, while for British Columbia an average value of \$3.50 per long ton is used. The values placed upon the Alberta production are those furnished by the operating companies.

The decrease of approximately 10 per cent in the production of 1914, as compared with that of 1913, is due chiefly to the unsettled industrial conditions existing generally throughout the Dominion, which were aggravated by the outbreak of the European war in August, and in a lesser degree to the decrease of ocean trade (particularly on the Pacific coast) during the first few months of the war, due to the presence of enemy cruisers on the high seas.

The total exports of domestic coal from Canada in 1914 were 1,423,126 tons valued at \$3,880,175 as compared with 1,562,020 tons valued at \$3,961,351 in 1913. There is also a small export of coal "not the produce of Canada".

The total imports of coal in 1914 were 14,721,057 tons valued at \$39,801,498, as compared with imports in 1913 of 18,201,953 tons valued at \$47,949,119.

The total consumption of coal in 1914 was 26,852,323 tons or 3.325 tons per capita, as compared with 31,582,545 tons, or 4.071 tons per capita in 1913.

According to statistics published by the Department of Railways and Canals, the total consumption of coal in locomotives for the year ending June 30, 1914, was 8,273,457 tons, as compared with a consumption of 9,045,625 tons for the previous year, a decrease of 8.5 per cent. The

consumption of oil for fuel in locomotives for the same year was 40,652,743 gallons, as compared with a consumption of 31,087,252 gallons for the previous year, an increase of 9,565,491 gallons or 30·7 per cent.

A statement prepared by the Department of Customs of "Imports of petroleum, crude, fuel, and gas oils ·8235 sp. gr. or heavier at 60°" into the Provinces of Manitoba, Saskatchewan, Alberta, and British Columbia, shows the aggregate imports for the fiscal years ending March 31, 1913, 1914, and 1915, to have been respectively, 82,589,680 gallons, 112,839,526 gallons, and 111,604,186 gallons.

These statements do not cover exactly the same periods, yet it would appear from the record given that only about one-third of the fuel oil imported is used in railway locomotives. Consequently the consumption of oil for fuel is evidently increasing very generally, and during the year ending March 31, 1915, fuel oil has probably displaced about 1,100,000 tons of coal of Nanaimo grade in the western markets, chiefly in British Columbia.

Almost all varieties of coal are produced in Canada. Bituminous coal constitutes by far the largest proportion of the annual production. Lignite only is produced in Saskatchewan, and in Alberta it forms a large proportion of the Province's production. Of anthracite there is an almost negligible amount, less than 200,000 tons annually from one mine, at Bankhead, Alberta.

Statistics of the production of coal by provinces in 1914 and 1913, and comparisons of 1914 production with that of 1913, and of the production of 1913 with that of 1912, are given in the tables following:—

Production of Coal by Provinces, 1914.

Province.	Average No. of men employed.	Wages paid.	PRODUCTION OF COAL.		Average value per ton.	Per cent of total quantity.
			Short Tons.	Value.		
		\$		\$	\$ cts.	
Nova Scotia.....	14,080	8,270,869	7,370,924	16,452,955	2 23	54.05
Alberta.....	7,334	5,912,718	3,683,015	9,350,392	2 54	27.01
British Columbia.....	5,541	4,503,283	2,239,799	6,999,374	3 12	16.42
Saskatchewan.....	336	200,578	232,299	374,245	1 61	1.70
New Brunswick.....	236	138,547	98,049	241,075	2 46	0.72
Yukon Territory.....	44	34,016	13,443	53,760	4 00	0.10
	27,571	19,060,011	13,637,529	33,471,801	2 45	100.00

Production of Coal by Provinces, 1913.

Province.	Average No. of men employed.	Wages paid.	PRODUCTION OF COAL.		Average value per ton.	Per cent of total quantity.
			Short Tons.	Value.		
		\$		\$	\$ cts.	
Nova Scotia.....	13,697	9,328,613	7,980,073	17,812,663	2 23	53.15
Alberta.....	7,509	6,811,372	4,014,755	10,418,941	2 59	26.75
British Columbia.....	6,162	5,587,145	2,714,420	8,482,562	3 12	18.08
Saskatchewan.....	350	205,970	212,897	358,192	1 68	1.42
New Brunswick.....	160	95,000	70,311	166,637	2 37	0.47
Yukon Territory.....	39	37,041	19,722	95,945	4 86	0.13
	27,917	22,065,141	15,012,178	37,334,940	2 49	100.00

Comparison of Production 1912 with 1913, and 1913 with 1914.

Province.	(i) INCREASE OR (d) DECREASE.			
	Years 1912 and 1913.		Years 1913 and 1914.	
	Tons.	Per cent.	Tons.	Per cent.
Nova Scotia.....	(i) 196,185	2.52	(d) 609,149	7.63
British Columbia.....	(d) 494,577	15.41	(d) 474,621	17.48
Alberta.....	(i) 774,178	23.89	(d) 331,740	8.26
Saskatchewan.....	(d) 12,445	5.52	(i) 19,402	9.11
New Brunswick.....	(i) 25,531	57.01	(i) 27,738	39.45
Yukon Territory.....	(i) 10,477	113.31	(d) 6,279	31.94
Total for Canada.....	(i) 499,349	3.44	(d) 1,374,649	9.16

These tables show a decreased production for each producing province, except the Provinces of New Brunswick and Saskatchewan, the combined production of which is only about 2.50 per cent of Canada's total production.

The proportions of the total production contributed by the different provinces are almost identical with the proportions they contributed in 1913. Nova Scotia with a production of 609,149 tons less than in 1913, (a decrease of 7.6 per cent) heads the list of producers with 54.05 per cent

of the total. Alberta, with a decrease of 331,740 tons from 1913 production (equivalent to 8.2 per cent) maintains its position gained in 1912 of being the second largest producer. Its 1914 production of 3,683,015 tons is the second largest in its history. British Columbia production was 17.4 per cent less than in 1913, being 2,239,799 tons, the smallest production since the year 1906. In this Province all factors which affected the Canadian production were operative. The Saskatchewan production of 232,299 tons is an increase of 9.11 per cent over the 1913 production, and the New Brunswick production of 98,049 tons is an increase of 39.45 per cent over that of the previous year.

The relative importance of the different provinces as coal producers for a number of years past is shown in the next table, in which is set forth the proportional contribution of each province to the total tonnage of coal produced in Canada. The coal-fields on the Atlantic sea-board still continue to produce more than half the total, although from 1910 onwards the combined production of the western provinces has only been a little less than 50 per cent of the total.

Province.	1874.	1890.	1900.	1905.	1910.	1911.	1912.	1913.	1914.
	%	%	%	%	%	%	%	%	%
Nova Scotia.....	91	71	62.9	65.5	50.25	62.35	53.94	53.62	54.77
New Brunswick.....			0.7	1.2	1.40	1.83	1.55	1.42	1.70
Saskatchewan*.....			5.4	10.8	22.42	13.34	22.33	26.75	27.01
Alberta*.....	8	25	31.0	22.4	25.80	22.45	22.12	18.08	16.42
British Columbia.....				0.1	0.13	0.03	0.06	0.13	0.10
Yukon Territory.....									

*Alberta and Saskatchewan were established as provinces on September 1, 1905. For the purpose of comparison, the coal production during the years previous to that date has been separated according to the present boundaries of these Provinces.

The following tables show the production and the distribution of coal mined by provinces during recent years. The 1914 sales for Canadian consumption were 10,359,390 tons, a decrease of 1,022,570 tons from the 1913 sales, the sales for export to the United States were 1,181,536 tons, a decrease of 73,865 tons from the 1913 sales, and the sales for export to other countries were 239,927 tons, a decrease of 23,262 tons from the 1913 sales. The total sales of Canadian coal were 11,780,853 tons as compared with 12,900,550 tons in 1913. Upwards of 591,331 tons were used by colliery operators in the manufacture of briquettes and coke, in steel plants, and in brick plants, etc., the exact figure for that made into briquettes not being available; 1,265,345 tons were used in the operation of collieries, and by workmen. The loss due to breakage, washing, unmarketable stock, etc., so far as returns were furnished, was 434,337 tons. To arrive at the total Canadian output for 1914 there must be deducted from the aggregate of Canadian coal sold and used 83,123 tons, the decrease in quantity of coal in stock on December 31, as compared with the quantity in stock on January 1, which gives 13,988,743 tons as the 1914 output.

Production and Distribution of Coal Mined, by Provinces, 1914.

	Nova Scotia.	New Brunswick.	Sas-katch-ewan.	Alberta.	Yukon.	British Columbia.	Total.
Sales in Canada.....	5,851,735	94,455	217,898	3,218,234	7,547	969,521	10,359,390
Sales for export to U.S. . .	399,533	1,185	.....	105,699	.....	675,119	1,181,536
Sales for export to other countries.....	239,927	.....	.....	.....	.....	.....	239,927
Total sales.....	6,491,195	95,640	217,898	3,323,933	7,547	1,644,640	11,780,853
Used by producers in making coke, steel, brick, etc.....	*145,915	.....	3,050	44,249	.....	398,117	†591,331
Used by producers for colliery consumption and by workmen.....	733,814	2,409	11,351	314,833	5,896	197,042	1,265,345
Total used.....	879,729	2,409	14,401	359,082	5,896	595,159	1,856,676
Production*.....	7,370,924	98,049	232,299	3,683,015	13,443	2,239,799	13,637,529
Stock on hand Jan. 1....	231,840	405	.....	68,741	4,623	19,666	325,275
Stock on hand Dec. 31..	138,774	1,596	6	53,545	4,645	43,586	242,152
Difference.....	-93,066	+ 1,191	+ 6	-15,196	+ 22	+23,920	-83,123
Losses due to breakage or other causes.....	170,184	.....	7,995	75,853	.....	180,305	434,337
Total output.....	7,448,042	99,240	240,300	3,743,672	13,465	2,444,024	13,988,743

*Production is obtained by adding coal sold and coal used. †Not complete.

Production and Distribution of Coal Mined, by Provinces, 1913.

	Nova Scotia.	New Brunswick.	Sas-katch-ewan.	Alberta.	Yukon.	British Columbia.	Total.
Sales in Canada.....	6,269,722	68,311	195,954	3,527,772	8,558	1,311,643	11,381,960
Sales for export to U.S. . .	417,035	.....	.....	139,536	10	698,820	1,255,401
Sales for export to other countries.....	263,189	.....	.....	.....	0	.....	263,189
Total sales.....	6,949,946	68,311	195,954	3,667,308	8,568	2,010,463	12,900,550
Used by producers in making coke, steel, brick, etc.....	307,060	.....	7,742	104,077	10,271	485,271	914,421
Used by producers for colliery consumption and by workmen.....	723,067	2,000	9,201	243,370	883	218,686	1,197,207
Total used.....	1,030,127	2,000	16,943	347,447	11,154	703,957	2,111,628
Production*.....	7,980,073	70,311	212,897	4,014,755	19,722	2,714,420	15,012,178
Stock on hand Jan. 1....	256,221	.....	.....	67,123	3,903	58,209	385,456
Dec. 31..	352,308	.....	.....	127,456	4,623	16,090	500,477
Difference.....	96,087	.....	.....	+ 60,333	+ 720	- 42,119	+ 115,021
Losses due to breakage or other causes.....	58,944	.....	6,748	114,448	0	225,539	405,679
Total output.....	8,135,104	.....	219,645	4,189,536	20,442	2,897,840	15,532,878

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

Distribution of Coal Mined During the Years 1909-10-11-12.

	1909.	1910.	1911.	1912.
Sales in Canada.....	7,468,880	8,956,450	8,559,952	10,572,365
Sales for export to United States.....	1,173,772	1,847,943	1,068,572	1,537,585
" other countries.....	171,388	291,273	280,235	314,410
Total sales.....	8,814,040	11,095,666	9,908,759	12,424,360
Used by producers for the manufacture of coke.....	752,976	759,703	452,354	870,885
" colliery consumption and workmen.....	934,459	1,053,783	962,275	1,217,584
Production.....	10,501,475	12,909,152	11,323,388	14,512,829
Stock on hand Jan. 1.....	202,432	200,019	265,046	314,742
" Dec. 31.....	219,569	263,666	307,755	282,069
Difference.....	+ 17,137	+ 63,647	+ 42,709	- 32,673
Loss due to washing, breakage, or other causes.....	154,162	243,716	182,567	167,291
Total output.....	10,672,774	13,216,515	11,548,664	14,647,447

Statistics of the annual production of coal in Canada from 1785 to date are given in the following table. The total production has been 226,702,157 tons. Of this amount Nova Scotia has produced 145,297,509 tons, or 64.09 per cent; British Columbia 50,812,657 tons, or 22.41 per cent; Alberta 27,478,901 tons or 12.12 per cent; Saskatchewan 2,302,719 tons or 1.02 per cent; New Brunswick 696,102 tons or 0.31 per cent, and Yukon Territory 114,269 tons or 0.05 per cent. It should be noted though, that, in spite of the adverse conditions, the 1914 production is the third largest in Canada's history, having been exceeded by that of 1912 and 1913 only. The total production averaged 1.688 tons per capita of population—as compared with 1.936 tons per capita in 1913.

Annual Production of Coal Showing the Increase or Decrease Each Year.

Year.	Tons.	Value.	Average value per ton.	Increase (i) or decrease (d) in tonnage.	Increase (i) or decrease (d) per cent.
		\$	\$ cts.		
1785 to 1873.....	*8,592,150				
1874.....	1,063,742	1,763,423	1 66		
1875.....	1,039,974	1,747,016	1 68	(d) 23,768	(d) 2-2
1876.....	994,762	1,729,546	1 74	(d) 45,212	(d) 4-3
1877.....	1,036,670	1,794,415	1 73	(i) 41,908	(i) 4-2
1878.....	1,089,744	1,941,285	1 78	(i) 53,074	(i) 5-1
1879.....	1,126,497	2,050,639	1 82	(i) 36,753	(i) 3-4
1880.....	1,482,714	2,657,194	1 79	(i) 356,217	(i) 31-6
1881.....	1,537,106	2,688,621	1 75	(i) 54,392	(i) 3-7
1882.....	1,848,148	3,248,446	1 76	(i) 311,042	(i) 0-2
1883.....	1,818,684	3,109,635	1 71	(d) 29,464	(d) 21-6
1884.....	1,984,959	3,593,831	1 81	(i) 166,275	(i) 9-1
1885.....	1,920,977	3,417,807	1 78	(d) 63,982	(d) 3-2
1886.....	2,116,653	3,739,840	1 77	(i) 195,676	(i) 10-2
1887.....	2,429,330	4,388,206	1 81	(i) 312,677	(i) 14-8
1888.....	2,602,552	4,674,140	1 80	(i) 173,222	(i) 7-1
1889.....	2,658,303	4,894,287	1 84	(i) 55,751	(i) 2-1
1890.....	3,084,682	5,676,247	1 84	(i) 426,379	(i) 16-0
1891.....	3,577,749	7,019,425	1 96	(i) 493,067	(i) 16-0
1892.....	3,287,745	6,363,757	1 94	(d) 290,004	(d) 8-1
1893.....	3,783,499	7,359,080	1 95	(i) 495,754	(i) 15-1
1894.....	3,847,070	7,429,468	1 93	(i) 63,571	(i) 1-7
1895.....	3,478,344	6,739,153	1 94	(d) 368,726	(d) 9-6
1896.....	3,745,716	7,226,462	1 93	(i) 267,372	(i) 7-7
1897.....	3,786,107	7,303,597	1 93	(i) 40,391	(i) 1-1
1898.....	4,173,108	8,224,288	1 97	(i) 387,001	(i) 10-2
1899.....	4,925,051	10,283,497	2 09	(i) 751,943	(i) 18-0
1900.....	5,777,319	13,742,178	2 38	(i) 852,268	(i) 17-3
1901.....	6,486,325	12,699,243	1 96	(i) 709,006	(i) 12-3
1902.....	7,466,681	15,210,877	2 04	(i) 780,356	(i) 15-1
1903.....	7,960,364	15,942,833	2 00	(i) 493,683	(i) 6-6
1904.....	8,254,595	16,592,231	2 01	(i) 294,231	(i) 3-7
1905.....	8,667,948	17,520,263	2 02	(i) 413,353	(i) 5-0
1906.....	9,762,601	19,732,019	2 02	(i) 1,094,653	(i) 12-6
1907.....	10,511,426	24,381,842	2 32	(i) 748,825	(i) 7-7
1908.....	10,886,311	25,194,573	2 31	(i) 374,885	(i) 3-5
1909.....	10,501,475	24,781,236	2 36	(d) 384,836	(d) 3-5
1910.....	12,909,152	30,909,779	2 39	(i) 2,407,677	(i) 22-93
1911.....	11,323,388	26,467,646	2 34	(d) 1,585,764	(d) 12-28
1912.....	14,512,829	36,019,044	2 48	(i) 3,189,441	(i) 28-04
1913.....	15,012,178	37,334,940	2 49	(i) 499,349	(i) 3-44
1914.....	13,637,529	33,471,801	2 45	(d) 1,374,649	(d) 9-16

*The total production for the years 1785 to 1873 is made up as follows:—

Nova Scotia (1785 to 1873).....	8,053,670 tons of 2,000 pounds.
British Columbia (1836 to 1873).....	538,480 " 2,000 "

Exports of Canadian Coal.

Statistics of the exports of coal, according to the records of the Department of Customs, are given in the following table. The exports of Canadian coal in 1914 were 1,423,126 tons, valued at \$3,880,175 or an average of \$2.73 per ton, as compared with exports in 1913 of 1,562,020 tons valued at \$3,961,351, or an average of \$2.54 per ton, and exports in 1912 of 2,127,133 tons valued at \$5,821,593 or an average of \$2.74 per ton. The 1914 exports, compared with those of 1913 show a decrease of 8.89 per cent in tonnage, and 2.04 per cent in value. Besides Canadian coal exported there is also a small export of "coal not the produce of Canada".

Annual Exports of Coal.

Calendar Year.	Produce of Canada.	Not the produce of Canada.	Calendar Year.	Produce of Canada.	Not the produce of Canada.
	Tons.	Tons.		Tons.	Tons.
1873.....	420,683	5,403	1894.....	1,103,694	89,786
1874.....	310,988	12,859	1895.....	1,011,235	96,836
1875.....	250,348	14,026	1896.....	1,106,661	116,774
1876.....	248,638	4,995	1897.....	986,130	101,848
1877.....	301,317	4,829	1898.....	1,150,029	99,189
1878.....	327,959	5,468	1899.....	1,293,169	101,004
1879.....	306,648	8,468	1900.....	1,787,777	62,776
1880.....	432,188	14,217	1901.....	1,573,661	53,894
1881.....	395,382	14,245	1902.....	2,090,268	23,453
1882.....	412,682	37,576	1903.....	1,954,629	27,138
1883.....	486,811	44,388	1904.....	1,557,412	27,308
1884.....	474,405	62,665	1905.....	1,635,287	86,792
1885.....	427,937	71,003	1906.....	1,835,041	44,758
1886.....	520,703	78,443	1907.....	1,894,074	101,778
1887.....	580,965	89,098	1908.....	1,729,833	102,071
1888.....	588,627	84,316	1909.....	1,588,099	161,098
1889.....	665,315	89,294	1910.....	2,377,049	159,859
1890.....	724,486	82,534	1911.....	1,500,639	133,943
1891.....	971,259	77,827	1912.....	2,127,133	46,706
1892.....	823,733	93,988	1913.....	1,562,020	69,566
1893.....	960,312	102,827	1914.....	1,423,126	83,137

A table showing the destination of coal exported during recent years follows.

Exports of Coal Produced During 1912-13-14.

Exported to	1912.			1913.			1914.		
	Tons.	Per cent.	Value.	Tons.	Per cent.	Value.	Tons.	Per cent.	Value.
			\$			\$			\$
Great Britain.....	59,302	2·8	202,151	12,098	0·8	39,103	25,576	1·8	86,674
United States.....	1,603,145	75·4	4,042,803	1,250,769	80·1	2,978,067	1,088,983	76·5	2,742,425
Newfoundland.....	167,519	7·9	482,194	220,147	14·1	653,346	174,921	12·2	523,728
Other countries.....	297,167	13·9	1,094,445	79,006	5·0	290,835	133,646	9·5	527,258
Total.....	2,127,133	100·0	5,821,593	1,562,020	100·0	3,961,351	1,423,126	100·0	3,880,175

These figures show a decrease of 12·9 per cent in exports to the United States, which, however, with an importation from Canada of 1,088,983 tons, took 76·5 per cent of Canada's exports. Exports to Newfoundland showed a decrease of 20·58 per cent. Those to Great Britain showed an increase of 111·4 per cent, the total for the year reaching 25,576 tons. Under exports to other countries of 133,646 tons is included 40,978 tons to Australia, as compared with 13,889 tons in 1913.

Imports of Coal.

The fact that the populous Provinces of Quebec and Ontario have no coal-fields and can secure most of their requirements more cheaply from the coal-fields of Pennsylvania, Ohio, and Virginia, than from Canadian coal-fields accounts for Canadian imports exceeding 50 per cent of Canada's annual coal consumption. The 1914 imports were 14,721,057 tons, a decrease from the 1913 imports of 3,480,896 tons.

Imports of coal into Canada are subdivided into three classes as follows: anthracite, including anthracite dust; bituminous, round and run of mine; and bituminous slack such as will pass through a $\frac{3}{4}$ -inch screen.

The imports of anthracite represent, practically, Canada's consumption of coal of this variety, as less than 200,000 tons is produced yearly by Canada's one anthracite coal mine at Bankhead, Alberta. The 1914 imports were 4,435,010 tons valued at \$21,241,924 an average of \$4.79 per ton, which is a decrease of 207,047 tons, or 4.46 per cent from the 1913 imports. In bituminous coal of all classes the imports were 10,286,047 tons valued at \$18,559,574, a decrease in quantity of 24.14 per cent. It may be noted here that the imports of bituminous coal of all classes (according to returns of the Customs Department) into Fort William and Port Arthur, and into the Provinces of Manitoba, Saskatchewan, Alberta, and British Columbia, for the fiscal years ending March 31, 1913, 1914, and 1915, were respectively 2,774,687 tons, 3,331,114 tons, and 1,854,559 tons. The imports for the last fiscal year for use west of Lake Superior are thus shown to be 44.32 per cent below those of the year previous, and are even 33.16 per cent below those of the fiscal year ending March 31, 1913.

The following table gives details of the imports of the different classes of coal into Canada from 1880 to 1914.

Annual Imports of Coal.

Fiscal Year.	BITUMINOUS COAL.		ANTHRACITE COAL AND ANTHRACITE DUST.		BITUMINOUS COAL DUST.	
	Tons.	Value.	Tons.	Value.	Tons.	Value.
		\$		\$		\$
1880.....	457,049	1,220,761	516,729	1,509,960	3,565	8,877
1881.....	587,024	1,741,568	572,092	2,325,937	337	666
1882.....	636,374	1,992,081	638,273	2,666,356	8	900
1883.....	911,629	2,996,198	734,891	3,344,936	8,154	10,082
1884.....	1,118,615	3,633,470	868,000	3,831,283	12,782	14,600
1885.....	1,011,875	3,197,539	910,324	3,909,844	20,185	20,412
1886.....	930,949	2,591,554	995,425	4,028,050	36,230	36,996
1887.....	1,149,792	3,126,225	1,100,165	4,423,062	31,401	33,178
1888.....	1,231,234	3,451,661	† 1,138,627	5,291,875	28,808	34,730
1889.....	1,248,540	3,235,171	1,201,705	5,199,481	39,980	47,139
1890.....	1,409,282	3,528,959	1,201,335	4,595,727	53,104	29,818
1891.....	1,598,855	4,060,896	1,399,067	5,224,452	60,127	36,130
1892.....	1,615,220	4,099,221	1,479,106	5,640,346	82,091	39,840
1893.....	1,603,154	3,967,764	1,500,550	6,355,285	109,585	44,474
1894.....	1,359,509	3,315,094	1,530,522	6,354,040	117,573	49,510
1895.....	1,444,928	3,321,387	1,404,342	5,350,627	181,318	52,221
1896.....	1,538,489	3,299,025	1,574,355	5,667,096	210,386	53,742
1897.....	1,543,476	3,254,217	1,457,295	5,695,168	225,562	59,609
1898.....	1,684,024	3,179,595	1,460,701	5,874,685	229,445	45,556
1899.....	2,171,358	3,691,946	1,745,460	6,490,509	276,547	44,717
1900.....	2,439,764	4,310,964	1,654,401	6,602,912	330,174	98,349
1901.....	2,516,392	4,956,025	1,933,283	7,923,950	414,432	275,559
1902.....	3,047,392	5,712,058	1,652,451	7,021,939	489,548	264,550
1903.....	3,511,412	7,776,717	1,456,713	7,028,664	550,883	420,317
1904.....	4,053,900	9,108,208	2,275,018	10,461,223	608,041	544,128
1905.....	4,176,274	8,002,896	2,604,137	12,093,371	650,261	343,456
1906.....	4,495,550	8,360,348	2,200,863	10,304,308	747,251	489,180
Calendar Year.	Bituminous round and run of the mine.				Bituminous slack such as will pass through a 3" screen.	
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	1,365,281	1,795,598
1911.....	8,905,815	18,407,603	4,020,577	18,794,192	1,632,500	2,090,796
1912.....	8,491,840	16,846,727	4,184,017	20,080,388	1,919,953	2,550,922
1913.....	a 10,743,473	21,756,658	(b) 4,642,057	22,034,839	(c) 2,816,423	4,157,622
1914.....	a 7,776,415	14,954,321	(b) 4,435,010	21,241,924	(c) 2,509,632	3,605,253

(a). Duty, 53 cents per ton. (b). Coal, anthracite, and anthracite coal dust; duty free. (c). Duty 14 cents per ton.

† In the anthracite column the imports show a very considerable increase in 1888 over 1887, an increase of over 94 per cent, the falling off again in 1889 being quite as remarkable. The average values per ton for the three years 1887, 1888, and 1889, were \$4.02, \$2.47, and \$4.03, respectively. Although a duty of 50 cents per ton on anthracite coal was removed May 13, 1887, it is hardly thought this would account for the changes indicated, and unless some error may possibly have crept into the Trade and Navigation report, no explanation is available.

Consumption of Coal.

The consumption of coal during 1914 was 26,852,323 tons, a decrease of 4,730,222 tons, or 14·98 per cent from the 1913 figures, and was almost the same as the 1912 consumption which was 26,934,800 tons. On an estimated population of 8,075,000 people, the per capita consumption during 1914 was 3·325 tons, as compared with 4·071 tons in 1913, and 3·596 tons in 1912.

Consumption of Coal 1913-1914.

	1913.		1914.	
	Tons.	Tons.	Tons.	Tons.
Production	15,012,178		13,637,529	
Exports of Canada	1,562,020		1,423,126	
Home consumption of Canadian coal		13,450,158		12,214,403
Imports	18,201,953		14,721,057	
Exports not produce of Canada	69,566		83,137	
Canadian consumption of imported coal		18,132,387		14,637,920
Total consumption of coal in Canada		31,582,545		26,852,323

Annual Consumption of Coal.

Calendar Year.	Can- adian.	Im- ported.	Total.	Per- centage Can- adian.	Per- centage Im- ported.	Con- sumption per capita.
	Tons.	Tons.	Tons.	%	%	Tons.
1886.....	1,595,950	1,884,161	3,480,111	45.9	54.1	0.758
1887.....	1,848,365	2,192,260	4,040,625	45.7	54.3	0.871
1888.....	2,013,925	3,314,353	5,328,278	37.8	62.2	1.137
1889.....	1,992,988	2,490,931	4,483,919	44.4	55.6	0.946
1890.....	2,360,196	2,581,187	4,941,383	47.8	52.2	1.031
1891.....	2,606,490	2,980,222	5,586,712	46.7	53.3	1.153
1892.....	2,464,012	3,082,429	5,546,441	44.4	55.6	1.133
1893.....	2,823,187	3,110,462	5,933,649	47.6	52.4	1.198
1894.....	2,743,376	2,917,818	5,661,194	48.5	51.5	1.130
1895.....	2,467,109	2,933,752	5,400,861	45.7	54.3	1.066
1896.....	2,639,055	3,206,450	5,845,511	45.1	54.9	1.140
1897.....	2,799,977	3,124,485	5,924,462	47.3	52.7	1.143
1898.....	3,023,079	3,274,981	6,298,060	48.0	52.0	1.200
1899.....	3,631,882	4,692,361	7,724,243	47.0	53.0	1.454
1900.....	3,989,542	4,361,563	8,351,105	47.8	52.2	1.561
1901.....	4,912,664	4,810,213	9,722,877	50.5	49.5	1.810
1902.....	5,376,413	5,165,938	10,542,351	51.0	49.0	1.927
1903.....	6,005,735	5,491,870	11,507,605	52.2	47.8	2.055
1904.....	6,697,183	6,909,651	13,606,834	49.2	50.8	2.346
1905.....	7,032,661	7,343,880	14,376,541	48.9	51.1	2.362
1906.....	7,927,560	7,398,906	15,326,466	51.7	48.3	2.425
1907.....	8,617,352	10,549,503	19,166,855	45.0	55.0	2.947
1908.....	9,156,478	10,195,424	19,351,902	47.3	52.7	2.820
1909.....	8,913,376	9,711,826	18,625,202	47.9	52.1	2.682
1910.....	10,532,103	10,438,123	20,970,226	50.2	49.8	2.960
1911.....	9,822,749	14,424,949	24,247,698	40.5	59.5	3.384
1912.....	12,385,696	14,549,104	26,934,800	46.0	54.0	3.596
1913.....	13,450,158	18,132,387	31,582,545	42.6	57.4	4.071
1914.....	12,214,403	14,637,920	26,852,323	45.5	54.5	3.325

Nova Scotia.

During 1914, twelve operating companies in Nova Scotia produced 7,370,924 tons, as compared with eleven companies operating in 1913, which produced 7,980,073 tons. The decrease in tonnage is 7.63 per cent.

The Dominion Coal Company continued as the largest operator, producing 5,250,748 tons, which is 71.23 per cent of the Province's production, and 38.5 per cent of the Canadian production.

The coal produced by Nova Scotia in 1914 was disposed of as follows: 5,851,735 tons was sold for consumption in Canada; 399,533 tons for export to the United States; 239,927 tons for export to other countries; 733,814 tons was used for colliery consumption, and by workmen; and 145,915 tons was used by colliery operators in making coke and in steelmaking; and a small quantity, not reported, was used in making briquettes. The quantity in stock at the close of the year was 93,066 tons less than at January 1. The sales show decreases ranging from 4 per cent to 9 per cent as compared with the 1913 sales.

The tonnage of coal absorbed in the manufacture of coke showed a remarkable decrease falling from 1,109,629 tons in 1913 to 595,868 tons in 1914¹ this decrease being due to the stagnation in the iron and steel industry.

Cape Breton maintained its position as the premier coal-producing county with 77.44 per cent of coal raised in the Province. Cumberland county raised 9.4 per cent, Pictou county 9.2 per cent, and other counties 4 per cent.

Tables giving statistics regarding the coal trade for the calendar year follow:—

¹ See tables of Coke Production.

Coal Production by Companies in Nova Scotia, 1914, in Short Tons.

	Total sales.	USED.			Production. ²	STOCKS.		Losses. ³	Output.
		For coke. ¹	Colliery consumption	Workmen.		Jan. 1.	Dec. 31.		
Inverness Ry. and Coal Co.....	225,807	742	31,216	7,374	265,139	1,942	2,604	30,823	296,624
Sydney Coal Co., Ltd.....	7,840		280	280	8,400	48			8,352
Dominion Coal Co., Ltd.....	4,412,463		314,939	61,642	4,789,044	206,289	89,971	129,518	4,802,244
Cape Breton Coal, Iron and Ry. Co.....	37,119		8,548	655	46,322	2,174	9,914		54,062
Nova Scotia Steel and Coal Co., Ltd.....	615,041	139,625	58,543	24,302	837,511	15,120	10,892	9,128	842,411
The Colonial Coal Co. Ltd.....	54,645		4,914	707	60,266	486	382	335	60,497
Acadia Coal Co. Ltd.....	382,879		46,596	12,714	442,189	2,000	1,536		441,725
Intercolonial Coal Mining Co.....	182,636	5,548	31,397	8,613	228,194	785	11,842	380	239,631
Maritime Coal Ry. and Power Co.....	126,377		26,788	3,349	156,514		2,856		159,370
Dominion Coal Co., Ltd. (Springhill).....	382,029		67,030	12,645	461,704	2,974	8,777		467,507
Minudie Coal Co., Ltd.....	61,965		8,644	2,367	72,976				72,976
Atlantic Grindstone Coal and Ry. Co.....	714		45	58	817	22			795
Royal Coal Co., Ltd.....	1,680		112	56	1,848				1,848
	6,491,195	145,915	599,052	134,762	7,370,924	231,840	138,774	170,184	7,448,042

¹Includes also coal used by producers for steel making and other purposes.

²Production is obtained by adding sales and coal used.

³Complete records of losses are not furnished by all producers.

Coal Production by Companies in Nova Scotia, 1913, in Short Tons.

	Total Sales.	USED.			Production. ²	Stocks.		Losses.	Output.
		For Coke. ¹	Colliery consumption.	Workmen.		Jan. 1.	Dec. 31.		
Inverness Ry. and Coal Co.....	291,086	7,421	21,631	7,475	327,613	478	1,942	31	329,108
Sydney Coal Co., Ltd.....	5,950		50	50	6,050	10	30		6,070
Dominion Coal Co., Ltd.....	4,773,766		333,990	59,790	5,167,546	239,579	326,919	52,961	5,307,847
Nova Scotia Steel and Coal Co., Ltd.....	572,835	282,176	30,733	19,277	905,021	8,960	15,120	1,481	912,662
The Colonial Coal Co., Ltd.....	71,943		4,863	1,207	78,013	1,238	486		77,261
Acadia Coal Co., Ltd.....	3,325		3,680	401	7,406		2,029		9,435
Intercolonial Coal Mining Co.....	521,717		69,461	13,677	604,855	3,040	2,000		603,815
Cumberland Ry. and Coal Co.....	155,479	17,463	33,385	7,034	213,361	784	785		213,362
Maritime Coal, Ry., and Power Co.....	145,880		22,881	3,115	171,876				171,876
Minudie Coal Co., Ltd.....	347,039		67,451	11,873	426,363	2,132	2,975		427,206
Atlantic Grindstone, Coal and Ry. Co.....	58,099		8,983	1,865	68,947			4,471	73,414
Riverside Mine (Eastern Coal Co., Ltd.)..	2,827		110	85	3,022		22		3,044
	6,949,946	307,060	597,218	125,849	7,980,073	256,221	352,308	58,944	8,135,104

¹ Includes also coal used by producers for steel making and other purposes.

² Production is obtained by adding sales and coal used.

³ Complete records of losses are not furnished by all producers.

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

Calendar Year.	Output, tons, 2,240 lbs.	Sold or used, tons, 2,240 lbs.	Colliery consump- tion, tons, 2,240 lbs.	Production,* tons, 2,240 lbs.	Output, tons, 2,000 lbs.	Sold or used, tons, 2,000 lbs.	Colliery consump- tion, tons, 2,000 lbs.	Production,* tons, 2,000 lbs.	Price per ton, 2,240 lbs.	Value of production.
									\$ c.	\$
1872.....	880,950	785,914	110,341	896,255	986,664	880,224	123,582	1,003,806	1 75	1,568,446
1873.....	1,051,467	881,106	108,398	989,504	1,177,643	986,839	121,406	1,108,245	1 75	1,731,632
1874.....	872,720	749,127	119,582	868,709	977,446	839,022	133,932	972,954	1 75	1,520,240
1875.....	781,165	706,795	124,110	830,905	874,905	791,610	139,003	930,613	1 75	1,454,084
1876.....	709,646	634,207	113,788	747,995	794,804	710,312	127,443	837,755	1 75	1,308,991
1877.....	757,496	687,065	98,841	785,906	848,396	769,513	110,702	880,215	1 75	1,375,339
1878.....	770,603	693,511	88,627	782,138	863,075	776,732	99,262	875,994	1 75	1,368,741
1879.....	788,271	688,624	84,787	773,411	882,863	771,259	94,961	866,220	1 75	1,353,469
1880.....	1,032,710	954,659	96,831	1,051,490	1,156,635	1,069,218	108,451	1,177,669	1 75	1,840,108
1881.....	1,124,270	1,035,014	107,888	1,142,902	1,259,183	1,159,216	120,834	1,280,050	1 75	2,000,079
1882.....	1,365,811	1,250,179	111,381	1,361,560	1,529,708	1,400,200	124,747	1,524,947	1 75	2,382,730
1883.....	1,422,553	1,297,523	111,949	1,409,472	1,503,259	1,453,226	125,383	1,578,609	1 75	2,466,576
1884.....	1,389,295	1,261,650	116,769	1,378,419	1,556,011	1,413,048	130,781	1,543,829	1 75	2,412,233
1885.....	1,352,205	1,254,510	127,624	1,382,134	1,514,470	1,405,051	142,939	1,547,990	1 75	2,418,735
1886.....	1,502,611	1,373,666	142,421	1,516,087	1,682,924	1,538,506	159,512	1,698,018	1 75	2,653,152
1887.....	1,670,830	1,519,684	139,777	1,659,461	1,871,330	1,702,046	156,550	1,858,596	1 75	2,904,057
1888.....	1,776,128	1,576,692	157,443	1,734,135	1,989,263	1,765,895	176,336	1,942,231	1 75	3,034,735
1889.....	1,756,279	1,555,107	158,131	1,713,238	1,967,032	1,741,720	177,107	1,918,827	1 75	2,998,167
1890.....	1,984,001	1,786,111	161,240	1,947,351	2,222,081	2,000,444	180,589	2,181,033	1 75	3,407,864
1891.....	2,044,784	1,849,945	174,983	2,024,928	2,290,158	2,071,938	195,981	2,267,919	1 75	3,543,624
1892.....	1,942,780	1,752,934	175,092	1,928,026	2,175,913	1,963,286	196,103	2,159,389	1 75	3,374,046
1893.....	2,223,042	1,977,543	205,425	2,182,968	2,489,807	2,214,848	230,076	2,444,924	1 75	3,820,194
1894.....	2,250,631	2,060,920	196,206	2,257,126	2,520,707	2,308,231	219,751	2,527,982	1 75	3,949,970
1895.....	1,999,756	1,793,098	193,639	1,986,737	2,239,727	2,008,270	216,875	2,225,145	1 75	3,476,790
1896.....	2,292,675	2,046,828	192,975	2,239,808	2,537,706	2,202,447	216,132	2,508,579	1 75	3,919,355
1897.....	2,340,031	2,044,672	181,716	2,226,388	2,020,835	2,290,032	203,522	2,493,554	1 75	3,806,170
1898.....	2,262,656	2,121,126	187,428	1,288,554	2,584,175	2,375,661	187,519	2,563,180	1 75	4,004,970
1899.....	2,865,443	2,633,989	177,460	2,811,449	3,209,296	2,950,067	138,775	2,148,822	2 00	5,622,808
1900.....	3,298,791	2,998,737	236,563	3,235,300	3,694,646	3,358,585	264,051	3,623,536	2 50	8,088,250
1901.....	3,821,033	3,411,127	301,434	3,712,561	4,279,557	3,820,462	337,606	4,158,068	1 75	6,496,982
1902.....	4,725,480	4,229,120	379,198	4,608,318	5,292,538	4,736,614	424,702	5,161,316	2 00	9,216,636
1903.....	5,215,562	4,565,720	481,903	5,047,623	5,841,429	5,113,607	539,731	5,653,338	2 00	10,095,246
1904.....	5,131,985	4,551,740	144,904	4,996,644	5,747,823	5,097,949	498,292	5,596,241	2 00	9,993,288

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

Calendar Year.	Output tons, 2,240 lbs.	Sold or used, tons, 2,240 lbs.	Colliery consump- tion, tons, 2,240 lbs.	Production,* tons, 2,240 lbs.	Output, tons, 2,000 lbs.	Sold or used, tons, 2,000 lbs.	Colliery consump- tion, tons, 2,000 lbs.	Production*, tons, 2,000 lbs.	Price per ton, 2,240 lbs.	Value of production.
									\$ c.	\$
1905.....	5,197,877	4,613,818	427,774	5,041,592	5,821,622	5,167,476	479,107	5,646,583	2 00	10,083,184
1906.....	5,844,813	5,093,131	460,891	5,554,022	6,546,191	5,704,307	516,198	6,220,505	2 00	11,108,044
1907.....	5,775,503	5,236,077	437,256	5,673,333	6,468,563	5,864,406	489,727	6,354,133	2 25	12,764,999
1908.....	6,076,330	5,224,787	576,509	5,939,767	6,805,489	5,851,761	645,690	6,652,539	2 25	13,364,476
1909.....	5,106,135	4,524,029	522,479	5,046,508	5,718,871	5,066,912	585,177	5,652,089	2 25	11,354,643
1910.....	5,817,109	5,199,715	542,376	5,742,091	6,515,162	5,823,681	607,461	6,431,142	2 25	12,919,705
1911.....	6,362,099	5,676,857	577,089	6,253,946	7,125,551	6,358,080	646,340	7,004,420	2 25	14,071,379
1912.....	6,995,289	6,296,940	652,960	6,949,900	7,834,724	7,052,573	731,315	7,783,888	2 50	17,374,750
1913.....	7,263,485	6,479,469	645,596	7,125,065	8,135,104	7,257,006	723,067	7,980,073	2 50	17,812,663
1914.....	6,650,038	5,925,991	655,191	6,581,182	7,448,042	6,637,110	733,814	7,370,924	2 50	16,452,955

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

Coal Trade by Counties in Nova Scotia, in Short Tons, Calendar Years Since 1906.

Calendar Year.	CUMBERLAND.		PICTOU.		CAPE BRETON.		OTHER COUNTIES.		TOTAL.	
	Raised.	Sales.	Raised.	Sales.	Raised.	Sales.	Raised.	Sales.	Raised.	Sales
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	403,371	743,860	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

Sales include coal used for making coke and steel.

**Production and Sales of Coal by Companies, in Nova Scotia, Year Ending September 30, 1914,
in Short Tons.**

Name of company.	Output.	Sales.	Colliery consumption.	Supplied workmen.	On bank at close of year.	Difference on bank compared with 1912.	
						Increase.	Decrease.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Dominion Coal Co., Ltd.....	5,097,589	4,562,867	325,917	60,918	98,297	19,193	.....
Nova Scotia Steel & Coal Co., Ltd.....	890,262	797,017	54,116	26,217	44,395	12,912	.....
Cumberland Railway & Coal Co., Ltd.....	448,824	361,769	67,409	11,869	10,340	7,777	.....
Acadia Coal Co.....	511,269	443,240	53,716	13,079	3,137	1,233	.....
Maritime Coal, Railway & Power Co.....	160,376	142,679	13,230	3,180	1,288	1,288	.....
Inverness Railway & Coal Co.....	308,134	248,759	31,821	7,381	3,048	1,720	.....
Intercolonial Coal Co.....	247,441	200,483	29,424	8,090	10,300	9,444	.....
Sydney Coal Co.....	5,325	5,543	149	177	22	.....	44
Colonial Mining Co.....	63,587	56,872	5,661	1,054	.....	.....	.....
Minidie Coal Co.....	69,582	55,617	9,317	2,130	1,176	1,176	.....
Atlantic Grindstone & Coal Co.....	962	883	57	78	.....	.....	56
Cape Breton Coal, Iron & Railway Co.....	42,269	28,623	8,207	492	6,587	4,947	.....
Total.....	7,846,120	6,904,352	599,024	134,665	178,590	59,690	100

The statistics prepared and published by the Provincial Department of Mines cover the fiscal years ending September 30; the long ton of 2,240 pounds is used exclusively in these reports. A number of tables appearing in the Provincial report for the fiscal year 1914 are reproduced below, the figures having been changed to show tons of 2,000 pounds.

The table of "Distribution of Coal Sold" shows the consumption by Nova Scotia of coal produced within the Province in 1914 to have been only 35.74 per cent of the total production, as compared with 40.12 per cent the year previous. The tonnage shipped to the Province of Quebec during the same period increased from 33.85 per cent of the Province's production in 1913 to 38.63 per cent in 1914.

Output of Coal in Nova Scotia by Collieries, During Fiscal Years Ending September 30, 1912-13-14.

Colliery.	1912. Tons. of 2,000 lbs.	1913. Tons. of 2,000 lbs.	1914. Tons of 2,000 lbs.
<i>Cape Breton County.</i>			
Dominion Coal Company.....	4,852,198	5,285,968	5,097,589
Nova Scotia Steel and Coal Co.....	919,705	908,806	890,262
North Atlantic Collieries.....	4,819		
Cape Breton Coal, Iron and Railway Co.....	(a)	(a)	42,269
Sydney Coal Company.....	5,143	6,089	5,825
Colonial Mining Co.....	39,448	64,632	63,587
<i>Cumberland County.</i>			
Cumberland Railway and Coal Co.....	470,939	438,964	448,824
Maritime Coal, Railway, and Power Co., Chignecto.....	169,465	183,558	160,376
Minudie Coal Co.....	68,179	70,926	69,582
Atlantic Grindstone and Coal Co.....	163	3,040	962
<i>Pictou County.</i>			
Acadia Coal Co.....	492,213	570,501	511,269
Intercolonial Coal Co.....	272,616	217,512	247,441
<i>Inverness County.</i>			
Inverness Coal and Railway Co.....	324,469	318,387	308,134

Distribution of Coal Sold by Nova Scotia Producers.

Markets.	FISCAL YEARS ENDING SEPTEMBER 30.									
	1910.		1911.		1912.		1913.		1914.	
	Tons of 2,000 lbs.	Per cent.	Tons of 2,000 lbs.	Per cent.	Tons of 2,000 lbs.	Per cent.	Tons of 2,000 lbs.	Per cent.	Tons of 2,000 lbs.	Per cent.
Nova Scotia—										
Transported by land.....	1,681,052	30.65	2,007,192	32.25	2,197,213	31.76	2,530,566	34.88	2,099,186	30.40
" " sea.....	342,787	6.25	354,514	5.70	373,594	5.40	380,363	5.24	368,551	5.34
Total Nova Scotia.....	2,023,839	36.90	2,361,706	37.95	2,570,807	37.16	2,910,929	40.12	2,467,737	35.74
New Brunswick.....	594,288	10.84	606,582	9.74	732,411	10.59	724,239	9.98	762,150	11.04
Prince Edward Island.....	89,031	1.62	90,314	1.45	103,378	1.49	107,612	1.48	107,275	1.55
Quebec Province.....	2,001,382	36.49	2,315,971	37.22	2,418,086	34.95	2,456,416	33.85	2,667,372	38.63
Newfoundland.....	19,224	3.62	206,299	3.32	224,719	3.25	235,810	3.25	252,660	3.66
United States.....	325,548	5.93	372,177	5.98	462,035	6.68	524,262	7.23	336,741	4.88
St. Pierre.....	8,405	0.15	10,107	0.16	10,535	0.15	7,449	0.10	9,673	0.14
Bunker coal.....	243,807	4.45	229,243	3.68	265,142	3.83	262,278	3.62	278,645	4.04
Other countries.....			(a) 30,841	0.50	(b) 131,816	1.90	(c) 27,160	0.37	(d) 22,099	0.32
Total.....	5,484,524	100.00	6,223,240	100.00	6,918,929	100.00	7,256,155	100.00	6,904,352	100.00

	(a) Tons.	Per cent.	(b) Tons.	Per cent.	(c) Tons.	Per cent.	(d) Tons.	Per cent.
For time chartered boats.....	28,610	0.46	28,972	0.42	23,958	0.33	20,787	0.30
Other countries.....	2,231	0.04	102,844	1.48	3,202	0.04	1,312	0.02
	30,841	0.50	131,816	1.90	27,160	0.37	22,099	0.32

**Number and Classes of Workmen Employed at Each Mine in Nova Scotia,
Year Ending September 30, 1914.**

Company.	UNDERGROUND.				SURFACE.				CONSTRUCTION.			TOTALS.		HORSES.		DAYS.
	Skilled labour.	Labourers.	Boys.	Days.	Skilled labour.	Labourers.	Boys.	Days.	Skilled labour.	Labourers.	Days.	Persons.	Days.	Above.	Below.		Pit days.
Dominion Coal Co.....	3,552	2,102	273	1,528,469	638	398	70	283,520				7,033	1,811,989	79	443	263
Nova Scotia Steel and Coal Co.....	1,069	959	260	616,270	161	246	29	129,114				2,724	745,364	10	72	281
Cumberland Railway and Coal Co.....	486	298	52	240,577	83	99	14	56,299	4	4	634	1,040	297,510	10	45	282
Acadia Coal Co.....	461	468	58	234,516	88	233	13	94,764				1,326	329,280	22	49	216
Intercolonial Coal Co.....	368	140	56	144,442	69	97	24	51,340			1,818	762	197,600	12	25	253
Joggins Mines.....	315	70	4	90,364	24	44	4	19,584	5	2	1,284	468	111,232		9	243
Chignecto Mines.....	50	7	3	5,980	4	7	3	1,810				74	7,790		1	139
Inverness Railway and Coal Co.....	316	164	25	133,071	49	70	16	35,421				640	168,492	4	39	263
Sydney Coal Co.....	8	4	...	2,715	2	2	...	1,202				16	3,917		1	2
Minudie Coal Co.....	148	24	16	41,423	34	26	10	18,784		1	872	263	61,079	4	3	222
Colonial Coal Co.....	76	24	...	26,720	20	17	...	9,274				137	35,994		18	254
Atlantic Grindstone and Coal Co.....	4	1	...	988	1	...	1	592				7	1,580		...	164
Cape Breton Coal, Iron and Railway Co.....	45	31	...	25,727	16	40	...	17,171	11	5	5,041	148	47,939	6	3	302
Totals.....	6,898	4,292	747	3,091,262	1,189	1,279	189	718,875	28	16	9,649	14,638	3,918,786	153	712	.....

New Brunswick.

From returns made by operators to the Mines Branch, the production of coal in New Brunswick in 1914 is computed as 98,049 tons. This figure exceeds the 1913 production by 27,738 tons, or 39.45 per cent.

Prior to 1914 the figures used in the Table of Annual Production were computed from statistics of coal shipments furnished by the New Brunswick Department of Public Works.

The coal-producing area is the Grand Lake coal-field in Queens and Sunbury counties. The chief operator is The Minto Coal Company, with a production in 1914 of 78,794 tons. The Rothwell Coal Company produced 12,898 tons, the Northfield Coal Company 5,965 tons, and A. J. McEvoy 392 tons.

Annual Production of Coal in New Brunswick.

Calendar Year.	Tons.	Value.	Value per ton.	Calendar Year.	Tons.	Value.	Value per ton.
		\$	\$ cts.			\$	\$ cts.
1887.....	10,040	23,607	2 35	1901.....	17,630	51,857	2 94
1888.....	5,730	11,050	1 93	1902.....	18,795	39,680	2 11
1889.....	5,673	11,733	2 07	1903.....	16,000	40,000	2 50
1890.....	7,110	13,850	1 95	1904.....	9,112	18,224	2 00
1891.....	5,422	11,030	2 03	1905.....	29,400	58,800	2 00
1892.....	6,768	9,375	1 39	1906.....	34,076	68,152	2 00
1893.....	6,200	9,837	1 59	1907.....	34,584	77,814	2 25
1894.....	6,469	10,264	1 59	1908.....	60,000	135,000	2 25
1895.....	9,500	14,250	1 50	1909.....	49,029	98,496	2 25
1896.....	7,500	11,250	1 50	1910.....	55,455	110,910	2 00
1897.....	6,000	9,000	1 50	1911.....	55,781	111,562	2 00
1898.....	6,160	9,240	1 50	1912.....	44,780	89,560	2 00
1899.....	10,528	15,792	1 50	1913.....	70,311	166,637	2 37
1900.....	10,000	15,000	1 50	1914.....	98,049	241,075	2 46

Saskatchewan.

The coal deposits of Saskatchewan furnish coal of the lignite variety only. As some of the physical characteristics of this lignite in its raw state prevent its successful and economical use, the yearly production of recent years shows only a slight increase, in no way comparable with the increase in population of the Province, and the consequent increased demand for fuel for heating, and for generation of power. The importance of devising better methods for utilizing this lignite, of which vast quantities exist in the adjacent Province of Alberta, as well as in the Province of Saskatchewan, has prompted both the Government of the Province of Saskatchewan, and the Fuel Testing Division of the Mines Branch, Ottawa, to undertake investigations of western lignites. The results of these investigations are now available.¹

¹"The carbonizing and briquetting of Lignite," by S. M. Darling, 1915. Investigation for the Government of the Province of Saskatchewan.

Results of the Investigation of Six Lignite Samples obtained from the Province of Alberta, by Haanel and Blizard, 1915. Mines Branch publication No. 331.

The 1914 production (from 27 separate collieries) amounted to 232,299 tons valued at \$374,245, an increase of 19,402 tons, or 9·1 per cent over the production of 1913. The total 1914 sales, amounting to 217,898 tons were sold for consumption in Canada, and 14,401 tons were used by producers for colliery consumption, by workmen, and in brick making.

The output of coal comes chiefly from the vicinity of Estevan, located on the Souris river, near the southeastern corner of the Province. Coal deposits exist for 75 or 100 miles in a northwest southeast direction along the Souris river, on Big Muddy creek draining Willowbunch lake (only lately reached by a branch line railway) and on the north branch of the Saskatchewan river about 100 miles southwest of Saskatoon.

Annual Production of Coal in Saskatchewan.

Calendar Year.	Tons.	Value.	Average value per ton.	Calendar Year.	Tons.	Value.	Average value per ton.
		\$	\$ cts.			\$	\$ cts.
1887.....	(a) 400	800	2 00	1902.....	70,400	112,640	1 52
1890.....	200	200	1 00	1903.....	116,703	169,618	1 45
1891.....				1904.....	124,885	187,021	1 50
1892.....	5,400	9,325	1 73	1905.....	107,596	152,334	1 42
1893.....	8,325	12,485	1 50	1906.....	108,398	164,146	1 51
1894.....	(b) 15,051	15,153	1 01	1907.....	151,232	252,437	1 67
1895.....	15,769	31,538	2 00	1908.....	150,556	253,790	1 69
1896.....	16,706	25,059	1 50	1909.....	192,125	296,339	1 54
1897.....	25,000	37,500	1 50	1910.....	181,156	293,923	1 62
1898.....	25,000	37,500	1 50	1911.....	206,779	347,248	1 68
1899.....	25,000	37,500	1 50	1912.....	225,342	368,135	1 63
1900.....	40,500	60,750	1 50	1913.....	212,897	358,192	1 68
1901.....	45,000	72,000	1 60	1914.....	232,299	374,245	1 61

(a) From Turtle Mountain district, Manitoba.

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

Alberta.

Lignite, bituminous, and anthracite coals are all produced in Alberta. Bituminous coal comprises over 50 per cent of the production; lignite, between 40 and 45 per cent, and anthracite, less than 5 per cent.

As mentioned in the notes on the Saskatchewan production, the vast tonnage of lignites available in the western provinces has prompted investigations with a view to the better utilization of these lignites. The results of the investigation of Alberta samples by the Fuel Testing Division of the Mines Branch, Ottawa, are now available.¹

In 1914 the total production of coal in Alberta, as computed from returns from operators, was 3,683,015 tons valued at \$9,350,392 or an average of \$2.54 per ton as compared with a production in 1913 of 4,014,755 tons, valued at \$2.59 per ton, a decrease in tonnage of 8·26 per cent.

This was the second largest year's production in the history of the Province, and as it exceeded the British Columbia production, Alberta maintained its position as the second largest coal-producing province.

¹ Results of the Investigation of Six Lignite Samples obtained from the Province of Alberta, by Haanel and Blizard, 1915, Mines Branch publication No. 331.

Many new operators are producing coal each year, and it is difficult to keep an accurate list of them. The figures of production as compiled by this Division, and by the Provincial Department of Public Works are not in exact agreement, though the differences are now comparatively small. There were 35 companies with a production of over 10,000 tons each, which contributed over 91 per cent of the 1914 production. Nine of these, with a production of over 100,000 tons each, contributed 64.6 per cent of the total.

As shown in tables on page 5, the 1914 sales for export to the United States were 105,699 tons, a decrease from 1913 exports of 24.24 per cent, and for domestic consumption 3,218,234 tons, a decrease of 8.77 per cent.

Tables of the production of coal by companies in 1914 and 1913, and of the annual production as compiled from the records of this Division, follow.

Production of Coal in Alberta, in 1914, by Principal Collieries.

Name of company.	Days in operation.	Total sales.	Total colliery consumption*	Total production.
Alberta Coal Mfg. Co., Cardiff.....	175	46,690	3,000	49,690
Battle River Collieries, Rosenroll.....	224	10,298	1,267	11,565
Brazeau Collieries, Ltd., Nordegg.....	290	153,011	2,311	155,322
Canada West Coal Co., Taber.....	87	45,744	15,064	60,808
Can. Coal & Coke Co., Ltd., Beaver Mines.....	112	28,055	5,323	33,378
" " " Lethbridge.....	151	98,381	13,065	111,446
" " " Pacific Pass.....	283	85,709	4,208	89,917
Canmore Coal Co., Ltd., Canmore.....	241	153,137	12,385	170,522
Can. Pacific Railway, Bankhead.....	237	(a) 151,513	(b) 34,657	186,170
" " Lethbridge No. 1.....	184	135,965	32,057	168,022
" " " No. 2.....	189	230,071	39,104	269,175
Capital Coal Co., Cardiff.....	179	33,363	1,591	34,954
Cardiff Collieries, Ltd., Cardiff.....	176	126,000	5,025	131,025
Chinook Coal Co., Canmore.....	191	59,771	8,710	68,481
City of Lethbridge Coal Mine, Lethbridge.....	261	11,323	.....	11,323
Davenport Coal Co., Burmis.....	70	10,560	647	11,207
Dawson Coal Co., Edmonton.....	249	21,340	650	21,990
Dobell Coal Co., Tofield.....	269	18,479	1,874	20,353
Edmonton Standard Coal Co., Edmonton.....	293	12,869	1,606	14,475
Franco-Can. Collieries Ltd., Frank.....	268	29,423	13,317	42,740
Georgetown Collieries Ltd. (The), Canmore.....	266	35,318	3,581	38,899
Hillcrest Collieries, Ltd., Hillcrest.....	211	203,308	10,672	213,980
Humberstone Coal Co., Clover Bar.....	285	69,000	5,600	74,600
International Coal & Coke Co., Coleman.....	226	(c) 218,543	21,049	239,592
Jasper Park Collieries, Ltd., Pochahontas.....	279	74,213	4,014	78,227
Leitch Colliery, Ltd., Passburg.....	243	57,401	4,024	61,425
McGillivray Ck. Coal & Coke Co., Coleman.....	252	184,965	5,646	190,611
Midland Collieries, Ltd., Drumheller.....	165	15,000	1,750	16,750
Mountain Park Coal Co., Ltd., Bickerdike.....	273	79,210	3,783	82,993
Newcastle Coal Co., Drumheller.....	211	60,000	950	60,950
Pembina Coal Co., Ltd., Evansburgh.....	276	31,896	6,920	38,816
Redcliff Brick & Coal Co., Redcliff.....	191	10,662	.....	10,662
Rock Springs Coal & Brick Co., Elcan.....	169	17,655	2,200	19,855
Rosedale Coal & Clay Products Co., Rosedale.....	203	21,211	1,777	21,388
Tofield Coal Co., Tofield.....	284	21,351	1,200	22,551
Twin City Coal Co., Edmonton.....	235	36,914	3,553	40,467
West Can. Collieries, Bellevue.....	228	389,960	16,471	406,431
" " Blairmore.....	38	18,931	1,117	20,048
Two other companies each producing over 10,000 tons.....	.....	51,440	7,815	59,255
All other companies each under 10,000 tons.....	.....	3,063,680	296,383	3,360,063
.....	.....	304,502	18,450	322,952
Total production, Alberta.....	.....	3,368,182	314,833	3,683,015

* Same as 1913 report.

(a) Briquettes 107,809; (b) Briquettes 1,261; (c) For manufacture of coke 44,249.

Production of Coal in Alberta, in 1913, by Principal Collieries.

Name of company.	Days in operation.	Total sales.	Total for colliery use.*	Total production.
Alberta Coal Mining Co., Cardiff.....	227	55,000	3,000	58,000
Canada West Coal Co., Taber.....	264	106,521	10,041	11,656
Can. Coal & Coke Co., Beaver Mines.....	216	72,869	3,742	76,611
" " Lethbridge.....	252	117,995	29,278	147,273
" " Pacific Pass.....	285	36,432	10,101	46,533
Canmore Coal Co., Ltd., Canmore.....	227	242,662	11,516	254,178
Canadian Pacific Ry., Dept. Nat. Res., Bankhead.....	290	(a) 162,899	(b) 35,276	198,175
" " Lethbridge.....	255	364,600	3,933	368,533
Capital Coal Co., Cardiff.....	202	34,374	1,090	35,464
Cardiff Collieries, Ltd., Cardiff.....	256	120,000	4,900	124,900
Chinook Coal Co., Canmore.....	282	65,242	4,859	70,101
City of Lethbridge Coal Mine, Lethbridge.....	237	11,641	.....	11,641
Coalbeck C. & Clay Prod. Co., Castor.....	235	10,950	165	11,115
Davenport Coal Co., Burmis.....	255	71,374	2,970	74,344
Dawson Coal Co., Edmonton.....	267	12,860	600	13,460
Diamond Coal Co., Ltd., Diamond City.....	119	16,952	1,603	18,555
Dobell Coal Co., Tofield.....	290	18,717	1,595	20,312
Edmonton Standard Coal Co., Edmonton.....	287	19,500	1,400	20,900
Great West Coal Co., Clover Bar.....	288	46,835	5,121	51,956
Hillcrest Collieries, Ltd., Hillcrest.....	289	310,732	11,737	322,469
Humberstone Coal Co., Clover Bar.....	240	22,608	1,125	23,733
International Coal and Coke Co., Coleman.....	297	(c) 387,030	26,536	413,566
Jasper Park Collieries, Ltd., Pochahontas.....	272	132,844	2,185	135,029
Keith & Fulton Coal Co., Clover Bar.....	249	10,239	25	10,264
Leitch Colliery, Ltd., Passburg.....	271	104,093	4,494	108,587
McGillivray Creek Coal and Coke Co., Coleman....	286	189,091	6,158	195,249
Newcastle Coal Co., Drumheller.....	.....	24,279	1,200	25,479
Ottewell Coal Co., Clover Bar.....	278	11,316	150	11,466
Pembina Coal Co., Ltd., Evansburgh.....	300	5,826	4,323	10,149
Rock Springs Coal and Brick Co., Elcan.....	190	16,500	2,300	18,800
Tofield Coal Co., Tofield.....	223	15,120	1,150	16,270
Twin City Coal Co., Ltd., Edmonton.....	280	60,985	5,618	66,603
West Canadian Collieries, Bellevue.....	270	426,756	7,301	434,057
" " Blairmore.....	278	159,870	4,202	164,072
Yellowhead Pass Coal and Coke Co., Ltd., via Bickerdike.....	297	27,772	2,327	30,099
Four other companies, each producing over 10,000 tons.....	.....	70,653	17,995	88,648
All other companies, each producing under 10,000 tons.....	.....	3,563,137	230,016	3,793,153
.....	.....	208,248	13,354	221,602
Total production, Alberta.....	.....	3,771,385	243,370	4,014,755

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

(a) " 129,493 tons of briquettes.

(b) " 1,275 " "

(c) " 104,012 tons for coke manufacturing.

Annual Production of Coal in Alberta.

Calendar Year.	Tons.	Value.		Average value per ton.	Calendar	Tons.	Value.		Average value per ton.
		\$	\$ cts.				\$	\$ cts.	
1887.....	74,152	157,577	2 13	1901.....	340,275	850,687	2 50		
1888.....	115,124	183,354	1 59	1902.....	402,819	960,601	2 38		
1889.....	97,364	179,640	1 85	1903.....	495,893	1,117,541	2 25		
1890.....	128,753	198,298	1 54	1904.....	661,732	1,404,524	2 12		
1891.....	174,131	437,243	2 51	1905.....	931,917	1,993,915	2 14		
1892.....	178,970	460,605	2 57	1906.....	1,246,360	2,614,762	2 10		
1893.....	230,070	586,260	2 55	1907.....	1,591,579	3,836,286	2 41		
1894.....	184,940	473,827	2 56	1908.....	1,685,661	4,127,311	2 45		
1895.....	169,885	382,526	2 25	1909.....	1,994,741	4,838,109	2 43		
1896.....	209,162	581,832	2 78	1910.....	2,894,469	7,065,736	2 44		
1897.....	242,163	630,408	2 60	1911.....	1,511,036	3,979,264	2 63		
1898.....	315,088	788,720	2 50	1912.....	3,240,577	8,113,525	2 50		
1899.....	309,600	774,000	2 50	1913.....	4,014,755	10,418,941	2 59		
1900.....	311,450	778,625	2 50	1914.....	3,683,015	9,350,392	2 54		

Statistics prepared by Mr. John T. Stirling, Chief Inspector of Coal Mines, in Alberta, covering coal mining operations in 1914 are given in the following tables. The output as given by Mr. Stirling is 3,821,739 tons. Sales for consumption in Alberta are stated as 2,352,184 tons, which is 61.5 per cent of the total production. In making briquettes 80,592 tons were used, and in making coke 44,249 tons. As compared with 1913 the Crowsnest Pass District production showed a decrease of 33 per cent, Calgary an increase of 37 per cent, Lethbridge a decrease of 19 per cent, and Edmonton an increase of 8.6 per cent.

Output of Coal in Alberta, 1914

Tons of 2,000 lbs.	Crownsnest pass.	Calgary.	Lethbridge.	Edmonton.	Total.
Sold for consumption in Alberta.....	948,803	515,107	196,522	691,752	2,352,184
Sold for consumption in other provinces.....	70,006	145,981	455,166	118,671	789,824
Sold for export to the United States..	102,116	2,853	1,118	.....	106,087
Total Sales.....	1,120,925	663,941	652,806	810,423	3,248,095
Used in making briquettes.....	.....	80,592	.....	.....	80,592
Used in making coke.....	44,249	.....	.....	.....	44,249
Used under colliery boilers.....	63,942	59,777	102,527	58,716	284,962
Difference in stocks.....	+ 10,396	+ 1,318	- 2,884	+ 1,088	+ 9,918
Slack put on waste heap.....	285	55,794	30,241	67,603	153,923
Total output.....	1,239,797	861,422	782,690	937,830	3,821,739

Output of Bituminous Coal in Alberta, 1914

Tons of 2,000 lbs.	Crownsnest pass.	Calgary.	Lethbridge.	Edmonton.	Total.
Sold for consumption in Alberta....	948,803	328,022	.....	286,945	1,563,770
Sold for consumption in other provinces.....	70,006	18,290	.....	23,065	111,361
Sold for export to the United States..	102,116	2,643	.....	.....	104,759
Total sales.....	1,120,925	348,955	.....	310,010	1,779,890
Used in making coke.....	44,249	.....	.....	.....	44,249
Used under colliery boilers.....	63,942	18,097	.....	15,408	97,447
Difference in stocks.....	+ 10,396	+ 448	.....	+ 644	+ 11,488
Slack put on waste heap.....	285	11,233	.....	8,775	20,293
Total.....	1,239,797	378,733	.....	334,837	1,953,367

Output of Anthracite Coal in Alberta, 1914

Tons of 2,000 lbs.	CALGARY DISTRICT.	
	Coal.	Briquettes.
Sold for consumption in Alberta.....	24,158	94,195
Sold for consumption in other provinces.....	19,456	14,693
Sold for export to the United States.....	210	30
Total sales.....	43,824	108,918
Used under colliery boilers.....	33,276	162
Used in making briquettes.....	80,592	.....
Difference in stock.....	+ 95	+ 2
Stock put on waste heap.....	13,184	.....
Total.....	170,971	109,082

Output of Lignite Coal in Alberta, 1914.

Tons of 2,000 lbs.	Crowsnest pass.	Calgary.	Lethbridge.	Edmonton	Total.
Sold for consumption in Alberta.....		162,927	196,522	404,807	764,256
Sold for consumption in other provinces.....		108,235	455,166	95,606	659,007
Sold for export to the United States.....			1,118		1,118
Total sales.....		271,162	652,806	500,413	1,424,381
Used under colliery boilers.....		8,404	102,527	43,308	154,239
Slack put on waste heap.....		31,377	30,241	58,828	120,446
Difference in stocks.....	+	775	- 2,884	+ 444	- 1,665
Total output.....		311,718	782,690	602,993	1,697,401

Output of Coal in Alberta by Districts, 1914.

District.	Number of persons employed.	Lignite.	Bituminous.	Anthracite.
Crowsnest Pass.....	1,939		1,208,342	
Pincher Creek.....	108		31,455	
Lethbridge.....	1,512	638,342		
Taber.....	399	121,033		
Bow Island.....	69	11,587		
Milk River.....	26	3,704		
Banff.....	826		221,382	170,971
Medicine Hat.....	177	38,445		
Okotoks.....	25	5,516		
Aldersyde.....	25	8,024		
Carstairs.....	15	590		
Carbon.....	28	7,972		
Trochu.....	24	5,309		
Drunheller.....	508	161,755		
Three Hills.....	84	8,283		
Lacombe.....	138	42,691		
Wetaskiwin.....	129	41,157		
Brazeau.....	342		157,351	
Edmonton.....	526	254,904		
St. Albert.....	67	10,420		
Tofield.....	95	49,056		
Cardiff.....	248	229,991		
Pembina.....	124	58,622		
Yellowhead Pass.....	581		253,647	
Jasper Park.....	155		81,190	
Total.....	8,170	1,697,401	1,953,367	170,971

Average Number of Persons Employed in Alberta Coal Mines.

Character of labour.	Bituminous.		Anthracite.		Lignite.		Total.	
	Above.	Below.	Above.	Below.	Above.	Below.	Above.	Below.
Supervision and clerical assistance.....	116	121	10	11	146	166	272	298
Miners and helpers.....	221	1,714	56	158	229	2,264	506	4,136
Mechanics or skilled labour.....	560	64	126	1	654	157	1,340	222
Other employees.....		733		60		603		1,396
Total.....	897	2,632	192	230	1,029	3,190	2,118	6,052

British Columbia.

In 1914 the total production of coal in British Columbia was 2,239,799 tons valued at \$6,999,374 as compared with 2,714,420 tons in 1913 valued at \$8,482,562, a decrease of over 17 per cent in tonnage. By districts the production was as follows: Crowsnest and East Kootenay 1,066,724 tons, a decrease of 21·8 per cent; Nicola and Princeton 155,392 tons, a decrease of 47·2 per cent, and Vancouver island 1,017,683 tons, an increase of 9·6 per cent.

As to the cause of the decrease from the 1913 production the Provincial Mineralogist in his annual report for 1914 says:—

“The decreased coal output is undoubtedly entirely attributable to the war, not acting directly but through the allied industries which serve as consumers of colliery products, an illustration of the interlocking modern commercial business.”

In the interior of the Province the immediate effect of the war was the closing of metal mines and smelters, owing to the disturbance of the metal markets. This cut off at once a large market for coal and resulted in lessened consumption of fuel by the railways.

On the coast, the war affected the coal production through the decrease of ocean trade caused by the presence of German cruisers on the Pacific. According to the Provincial Mineralogist, although a strike was “nominally in progress” on Vancouver island until August, this did not affect the production as much as in the previous year; and, as to the competition of California crude oil, for fuel, he says this “continued to be felt though not in a larger degree than in 1913.”

The 1914 production on comparison with that of recent years is seen to be the smallest since 1906. This is probably explained by the increasing use of crude oil for fuel, the 1914 importation of fuel oil into the four western provinces, as mentioned earlier in this report, having displaced approximately 1,100,000 tons of coal of Nanaimo grade. Had such an additional tonnage of coal been produced in 1914 the year's production would have been the largest on record.

The consumption of British Columbia coal is confined to the Province and to the adjacent States of Montana and Washington. In 1914 the sales for domestic consumption were 43 per cent of the production, and those for export 30 per cent of the total, coke manufacture absorbed 18 per cent, and 9 per cent was used around collieries and by workmen. The domestic consumption in 1914 fell off 26 per cent from that of 1913 and the consumption for coke-making 18 per cent, while sales for export to the United States showed a decrease of only 3·3 per cent.

The three largest operators were the Crowsnest Pass Coal Company with 867,891 tons, the Canadian Collieries (Dunsmuir), Limited, with 433,889 tons, and the Western Fuel Company with 340,676 tons. These three companies contributed over 73 per cent of the Province's production. In all there were eleven operating companies.

There is a wide variation in the prices realized on coal sales in different parts of the Province. In East Kootenay as low a price as \$2.25 per long ton is paid, while on Vancouver island the price may reach \$4.50. For purposes of this report a value of \$3.50 is assumed.

Coal Production by Districts in British Columbia, 1914.

Coal.	Vancouver Island.	Nicola and Princeton.	Crowsnest and East Kootenay.	Total.
	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada.....	674,928	134,995	159,598	969,521
Sold for export to United States.....	236,004	3,006	436,109	675,119
Sold for export to other countries.....				
Total sales.....	910,932	138,001	595,707	1,644,640
Used for making coke or brick.....			398,117	398,117
Used for colliery consumption, etc.....	106,751	17,391	72,900	197,042
Production.....	1,017,683	155,392	1,066,724	2,239,799

Coal Production by Districts in British Columbia, 1913.

Coal.	Vancouver Island.	Nicola and Princeton.	Crowsnest and East Kootenay.	Total.
	Tons.	Tons.	Tons.	Tons.
Sold for consumption in Canada.....	715,259	276,528	319,856	1,311,643
Sold for export to United States.....	107,885		590,935	698,820
Sold for export to other countries.....				
Total sales.....	823,144	276,528	910,791	2,010,463
Used for making coke or brick.....			485,271	485,271
Used for colliery consumption, etc.....	104,736	17,903	96,047	218,686
Production.....	927,880	294,431	1,492,109	2,714,420

Coal Production by Collieries in British Columbia, in 1914, in Short Tons.

Colliery	SALES.			Used in making coke.	Used under colliery boilers. etc.	Production	Lost in washing, etc.	Stocks		Output.
	In Canada.	To United States.	Total.					First of year.	Last of year.	
1. Protection, No. 1.....	149,677	140,711	290,388		49,505	339,893		290	7,699	347,302
Northfield and Reserve.....	248	40	288		495	783		295	44	532
2. New East Wellington.....	100,294	8,111	108,405		10,793	119,198		4,279	5,099	120,018
3. Ladysmith (Wellington).....	88,396	16,953	105,349		9,352	114,701		830	4,738	144,722
Cumberland (Comox).....	247,616	54,005	301,621		17,567	319,188	115,386	11,656	19,180	442,098
4. Fiddick, Richardson, Squash and Morden.....	88,697	16,184	104,881		19,039	123,920		1,148	2,434	146,322
5. Michel.....	39,857	71,720	111,577	93,882	18,466	223,925			1,312	225,237
Coal Creek.....	60,423	304,231	364,654	237,790	41,522	643,966		105	2,714	646,575
6. Hosmer.....	39,109		39,109	66,445	10,048	115,602	17,064	330	0	132,336
7. Corbin.....	20,209	60,158	80,367		2,864	83,231				83,231
8. Middlesboro.....	58,491		58,491		9,796	68,287		688	366	67,965
9. Inland.....	57,782		57,782		2,952	60,734				60,734
10. Princeton.....	14,862	2,806	17,668		3,523	21,191	626	45	0	21,772
11. Other mines.....	3,860	200	4,060		1,120	5,180				5,180
Total.....	969,521	675,119	1,644,640	398,117	197,042	2,239,799	180,305	19,666	43,586	2,444,024

1. Western Fuel Co.
2. Vancouver-Nanaimo Coal Mining Co.
3. The Canadian Collieries (Dunsmuir), Ltd.
4. Pacific Coast Collieries, Ltd.
5. Crownst Pass Coal Co., Ltd.
6. The Hosmer Mines Ltd.
(Can. Pac. Railway, Dept. of Natural Resources).

7. Corbin Coal and Coke Co., Ltd.
8. Nicola Valley Coal and Coke Co., Ltd.
9. Inland Coal and Coke Co., Ltd.
10. Princeton Coal and Land Co., Ltd.
11. {Coalmont Collieries, Ltd.
{Pacific Coast Colliery Co. of B. C.

Coal Production by Collieries in British Columbia, in 1913, in Short Tons.

Colliery.	SALES.			Used in making coke.	Used under colliery boilers, etc.	Production.	Lost in washing, etc.	Stocks.		Output.
	In Canada.	To United States.	Total.					First of year.	Last of year.	
1. Protection, No. 1.....	133,702	34,557	168,259		25,785	194,044		1,525	290	192,809
Northfield.....	17,909	22,390	40,299		13,388	53,687		56	294	53,925
2. New East Wellington.....	89,665	21,861	111,526		5,650	117,176	3,098	4,594	1,182	116,862
3. Ladysmith (Wellington).....	47,474	520	47,994		6,344	54,338	9,732	102	830	64,798
4. Cumberland (Comox).....	348,680	27,882	376,562		39,566	416,128	144,397	3,115	11,656	569,066
4. Fiddick and Richardson.....	75,197	675	75,872		13,279	89,151	43,102	46,182	650	86,721
5. Suquash.....	2,632		2,632		724	3,356		875		2,481
5. Michel.....	143,490	476,397	619,887	261,313	43,017	924,217		115	105	924,207
Coal Creek.....	50,703	55,737	106,440	113,299	22,547	242,286		115	0	242,171
6. Hosmer.....	106,162		106,162	110,659	27,260	244,081	21,856	778	330	265,489
7. Corbin.....	19,501	58,801	78,302		3,223	81,525				81,525
8. Diamond Vale.....	6,700		6,700		435	7,135				7,135
9. Middlesboro.....	114,221		114,221		12,878	127,099		483	622	127,238
10. Inland.....	127,040		127,040		1,769	128,809				128,809
11. Princeton.....	26,765		26,765		2,810	29,575	3,354	269	51	32,711
12. Other mines.....	1,802		1,802		11	1,813			80	1,893
Total.....	1,311,643	698,820	2,010,463	485,463	218,686	2,714,420	225,539	58,209	16,090	2,897,840

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Western Fuel Co. 2. Vancouver-Nanaimo Coal Mining Co. 3. The Canadian Collieries (Dunsmuir), Ltd. 4. Pacific Coast Collieries, Ltd. 5. Crownsnest Pass Coal Co., Ltd. 6. The Hosmer Mines, Ltd.
(Can. Pac. Railway, Dept of Natural Resources.) | <ol style="list-style-type: none"> 7. Corbin Coal and Coke Co., Ltd. 8. Diamond Vale Collieries, Ltd. 9. Nicola Valley Coal and Coke Co., Ltd. 10. Inland Coal and Coke Co., Ltd. 11. Princeton Coal and Land Co., Ltd. 12. {United Empire Coal Co., Ltd.
Coalmont Collieries
Grand Trunk, B. C. Coal Co. |
|---|---|

Annual Production of Coal in British Columbia.

Calendar Year.	Output, tons, 2,240 lbs.	Home consumption, tons, 2,240 lbs.	Sold for export, tons, 2,240 lbs.	PRODUCTION*.		Price per ton, 2,240 lbs.	Value.
				Tons, 2,240 lbs.	Tons, 2,000 lbs.		
1836-52....	10,000				11,200	4 00	40,000
1852-59....	25,398				28,446	4 00	101,592
1859†.....	1,989				2,228	4 00	7,956
1860.....	14,247				15,957	4 00	56,988
1861.....	13,774				15,427	4 00	55,096
1862.....	18,118				20,292	4 00	72,472
1863.....	21,345				23,906	4 00	85,380
1864.....	28,632				32,068	4 00	114,528
1865.....	32,819				36,757	4 00	131,276
1866.....	25,115				28,129	4 00	100,460
1867.....	31,239				34,988	4 00	124,956
1868.....	44,005				49,286	4 00	176,020
1869.....	35,080				40,098	4 00	143,208
1870.....	29,843				33,424	4 00	119,372
1871-2-3....	148,459				166,274	4 00	593,836
1874.....	81,547	25,023	56,038	81,061	90,788	3 00	243,183
1875.....	110,145	31,252	66,392	97,644	109,361	3 00	292,932
1876.....	139,192	17,856	†122,329	140,185	157,007	3 00	420,555
1877.....	154,052	24,311	115,381	139,692	156,455	3 00	419,076
1878.....	170,846	26,166	164,682	190,848	213,750	3 00	572,544
1879.....	241,301	40,294	192,096	232,390	260,277	3 00	697,170
1880.....	267,595	46,513	225,849	272,362	305,045	3 00	817,086
1881.....	228,357	40,191	189,323	229,514	257,056	3 00	688,542
1882.....	282,139	56,161	232,411	288,572	323,201	3 00	865,716
1883.....	213,299	64,786	149,567	214,353	240,075	3 00	643,059
1884.....	394,070	87,388	306,478	393,866	441,130	3 00	1,181,598
1885.....	365,596	95,227	237,797	333,024	372,987	3 00	999,072
1886.....	326,636	85,987	249,205	335,492	375,415	3 00	1,005,576
1887.....	413,360	99,216	334,839	434,055	486,142	3 00	1,302,165
1888.....	489,301	115,953	365,714	481,667	539,467	3 00	1,445,001
1889.....	579,830	124,574	443,675	568,249	636,439	3 00	1,704,747
1890.....	678,140	177,075	508,270	685,345	767,586	3 00	2,056,035
1891.....	1,029,097	202,697	806,479	1,009,176	1,130,277	3 00	3,027,528
1892.....	826,335	196,223	640,579	836,802	937,218	3 00	2,510,406
1893.....	978,294	207,851	768,917	976,768	1,093,980	3 00	2,930,304
1894.....	1,012,953	165,776	827,642	993,418	1,112,628	3 00	2,980,254
1895.....	939,654	188,349	756,334	944,683	1,058,045	3 00	2,834,049
1896.....	894,882	261,984	634,238	896,222	1,003,769	3 00	2,688,666
1897.....	802,296	290,310	619,860	910,170	1,019,390	3 00	2,730,510
1898.....	1,136,485	375,423	752,863	1,128,286	1,263,680	3 00	3,384,858
1899.....	1,306,324	526,058	751,711	1,277,769	1,431,101	3 00	3,833,307
1900.....	1,590,178	685,667	914,184	1,599,851	1,791,833	3 00	4,799,553
1901.....	1,691,557	799,666	914,163	1,713,829	1,919,488	3 00	5,141,487
1902.....	1,641,626	837,871	776,809	1,614,680	1,808,441	3 00	4,844,040
1903.....	1,450,663	947,499	549,449	1,496,948	1,676,581	3 00	4,490,844
1904.....	1,685,698	1,129,465	533,593	1,663,058	1,862,625	3 00	4,989,174
1905.....	1,736,696	1,089,667	647,343	1,737,010	1,945,452	3 00	5,211,030
1906.....	1,899,076	1,236,476	679,829	1,916,305	2,146,262	3 00	5,748,915
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	966,963	2,865,176	3,208,997	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

From 1836 to 1873, inclusive, the output is taken as production.

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

†Two months only.

Yukon.

As in 1914 there were two producing companies, the Five Fingers Coal Company, operating at Tantalus, and the Northern Light, Power and Coal Company, on Coal creek. The combined output was 13,443 tons, a decrease of 31.8 per cent.

Annual Production of Coal in Yukon Territory.

Calendar Year.	Tons.	Value.	Average value per ton.
		\$	\$ cts .
1901.....	*5,864	86,230	14 70
1902.....	4,910	37,280	7 59
1903.....	1,849	29,584	16 00
1904.....			
1905.....	7,000	21,000	3 00
1906.....	7,000	28,000	4 00
1907.....	15,000	60,000	4 00
1908.....	3,847	21,158	5 50
1909.....	7,364	49,502	6 72
1910.....	16,185	110,925	6 85
1911.....	2,840	12,780	4 50
1912.....	9,245	44,958	4 86
1913.....	19,722	95,945	4 86
1914.....	13,443	53,760	4 00

*Part of this production was mined in 1900.

COKE.

Both domestic and imported coal is used in the manufacture of coke in Canadian coke-oven plants. In 1914, 1,038,235 tons of domestic, and 503,312 tons of imported coal were used to produce an output of 1,015,253 tons of coke showing a return of 0.658 tons of coke per ton of coal charged. Coke from by-product ovens comprised 67 per cent of the total.

In 1913 there were 1,698,912 tons of domestic coal, and 549,001 tons of imported coal used to produce an output of 1,517,133 tons of coke. The coke output of 1914 showed, therefore, a decrease of 33 per cent.

The amount of coke sold or used by coke producers was 1,023,860 tons, a decrease of 33.1 per cent. Besides the tonnage sold or used by producers, there was imported during the calendar year 553,046 tons of coke. The exports totalled 67,838 tons. The Canadian consumption for 1914 was therefore 1,509,068 tons, a decrease of 30.97 per cent from 1913. This is the smallest consumption since 1909, the consumption of recent years having been as follows: 1,285,228 tons in 1908, 1,449,369 tons in 1909, 1,581,832 tons in 1910, 1,677,188 tons in 1911, 1,981,832 tons in 1912, and 2,186,170 tons in 1913.

For the first time in its history Ontario led in production with 386,314 tons, all of which was produced by the Algoma Steel Corporation.

At the close of the year there were 2,298 ovens idle, and only 797 in operation.

Coke Production, 1914.

Province.	Coal charged to ovens.	Output of coke.	STOCK ON HAND.		Coke sold or used.	Per cent of total prod.	Value of sales, etc.
			Jan. 1.	Dec. 31.			
	Tons.	Tons.	Tons.	Tons.	Tons.	%	\$
Nova Scotia.....	595,868	345,880	3,386	5,877	343,289	33.53	1,118,614
Ontario.....	(a)503,312	377,514	11,753	2,953	386,314	37.73	1,352,099
Alberta.....	44,249	28,541	518	0	29,059	2.84	116,236
British Columbia.....	398,118	263,318	4,977	3,097	265,198	25.90	1,071,565
Total.....	1,541,547	1,015,253	20,634	12,027	1,023,860	100.00	3,658,514

(a) All imported coal.

Coke Production, 1913.

Province.	Coal charged to ovens.	Output of coke.	STOCK ON HAND.		Coke sold or used.	Per cent of total prod.	Value of sales, etc.
			Jan. 1.	Dec. 31.			
	Tons.	Tons.	Tons.	Tons.	Tons.	%	\$
Nova Scotia.....	1,109,629	720,526	4,898	3,386	722,038	47.17	2,352,153
Ontario.....	(a) 549,001	411,643	19,397	11,753	419,287	27.40	1,991,613
Alberta.....	104,012	65,104	2,817	518	67,403	4.41	269,612
British Columbia.....	485,271	319,860	6,814	4,903	321,771	21.02	1,306,218
Total.....	2,247,913	1,517,133	33,926	20,560	1,530,499	100.00	5,919,596

(a) All imported coal.

Distribution of Coke Production, 1914.

	Nova Scotia.	Ontario.	Alberta.	British Columbia.	Total.
Sold in Canada.....	4,647	595	28,984	204,231	238,457
Sold for export.....				60,831	60,831
Total sales.....	4,647	595	28,984	265,062	299,288
Used by maker in blast furnace or otherwise.....	338,642	385,719	75	136	724,572
Total sold or used.....	343,289	386,314	29,059	265,198	1,023,860
Number of ovens in operation December 31....	238	55	0	504	797
Number of ovens idle December 31.....	710	155	367	1,066	2,298
Number of ovens building December 31.....	0	0	0	0	0

Annual Production of Coke.

Calendar Year.	Tons.	Value.	Value per ton.	Calendar Year.	Tons.	Value.	Value per ton.
		\$	\$ cts.			\$	\$ cts.
1886.....	35,396	101,940	2 88	1901.....	365,531	1,228,225	3 36
1887.....	40,428	135,951	3 36	1902.....	502,043	1,519,185	3 03
1888.....	45,373	134,181	2 96	1903.....	561,318	1,734,404	3 09
1889.....	54,539	155,043	2 84	1904.....	554,083	2,032,048	3 66
1890.....	56,450	166,298	2 95	1905.....	700,488	2,436,211	3 48
1891.....	57,084	175,592	3 08	1906.....	782,055	2,863,503	3 66
1892.....	56,135	160,249	2 85	1907.....	842,003	3,583,468	4 26
1893.....	61,078	161,790	2 65	1908.....	858,257	3,449,361	4 02
1894.....	58,044	148,551	2 56	1909.....	862,011	3,484,393	4 04
1895.....	53,356	143,047	2 68	1910.....	902,715	3,462,872	3 84
1896.....	49,619	110,257	2 22	1911.....	935,651	3,630,410	3 88
1897.....	60,686	176,457	2 91	1912.....	1,411,229	5,164,331	3 66
1898.....	87,600	286,000	3 26	1913.....	1,530,499	5,919,596	3 87
1899.....	100,820	350,022	3 47	1914.....	1,023,860	3,658,514	3 55
1900.....	157,134	649,140	4 13				

Annual Production of Coke by Provinces.

Calendar Year.	NOVA SCOTIA.		ONTARIO.		BRITISH COLUMBIA.		ALBERTA.	
	Tons.	Value.	Tons.	Value.	Tons.	Value.	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			189,573	846,310		
1904.....	275,927	808,022			257,172	1,148,090	20,984	78,936
1905.....	386,366	1,054,712			269,256	1,202,035	44,866	179,464
1906.....	476,364	1,540,976			236,205	1,054,485	69,486	268,042
1907.....	524,110	1,688,070			241,572	1,049,432	76,321	297,595
1908.....	505,929	1,658,151			276,683	1,482,191	75,645	309,019
1909.....	492,992	1,608,092			281,786	1,509,567	87,233	366,734
1910.....	508,058	1,655,775	24,685	148,110	248,394	1,172,675	121,578	486,312
1911.....	557,554	1,814,977	259,554	1,318,303	82,327	350,879	36,216	146,251
1912.....	625,918	1,840,129	379,854	1,709,343	299,773	1,190,832	105,684	424,027
1913.....	722,038	2,352,153	419,287	1,991,613	321,771	1,306,218	67,403	269,612
1914.....	343,289	1,118,614	386,314	1,352,099	265,198	1,071,565	29,059	116,236

Annual Exports of Coke.

Calendar Year.	Tons.	Value.	Calendar Year.	Tons.	Value.
		\$			\$
1897.....	2,987	6,078	1906.....	37,003	168,571
1898.....	3,774	8,394	1907.....	70,617	320,357
1899.....	5,557	18,726	1908.....	58,708	248,759
1900.....	41,529	131,278	1909.....	74,067	329,051
1901.....	57,505	176,990	1910.....	57,971	250,715
1902.....	62,568	180,920	1911.....	9,852	39,823
1903.....	32,608	135,957	1912.....	57,744	252,763
1904.....	102,463	345,031	1913.....	68,235	308,410
1905.....	116,071	509,908	1914.....	67,838	306,117

Annual Imports of Oven Coke.

Fiscal Year.	Tons.	Value.	Fiscal Year.	Tons.	Value.
		\$			\$
1880.....	3,837	19,353	1898.....	135,060	347,040
1881.....	5,492	26,123	1899.....	141,284	362,826
1882.....	8,157	36,670	1900.....	187,878	506,839
1883.....	8,943	38,588	1901.....	308,786	680,138
1884.....	11,207	44,518	1902.....	267,142	842,815
1885.....	11,564	41,391	1903.....	256,723	1,222,756
1886.....	11,858	39,756	1904.....	221,050	765,123
1887.....	15,110	56,222	1905.....	371,593	807,842
1888.....	25,487	102,334	1906.....	480,222	1,311,375
1889.....	29,557	91,902	1907*.....	400,536	1,132,680
1890.....	36,564	133,344	1908.....	619,269	2,166,036
1891.....	38,533	177,605	1909.....	466,292	1,136,624
1892.....	43,499	194,429	1910.....	702,053	1,695,603
1893.....	41,821	156,277	1911.....	763,114	1,887,493
1894.....	42,864	176,996	1912.....	641,903	1,637,091
1895.....	43,235	149,434	1913.....	710,109	2,023,253
1896.....	61,612	203,826	1914†.....	708,777	2,060,914
1897.....	83,330	267,540			

*For nine months only.

†Duty free.

In Nova Scotia the Stellarton and Londonderry plants were idle throughout the year, but coke was made at Sydney, Sydney Mines, and Westville.

In Ontario, the Atikokan Iron Company's plant at Port Arthur was idle throughout the year. The whole production of the Province came, therefore, from the Algoma Steel Corporation's plant at Sault Ste. Marie.

In Alberta, the plants at Lille and Passburg were idle, and one at Coleman was in operation part of the year.

In British Columbia, coke was made by the Crowsnest Pass Coal Company at Fernie and Michel, and by Hosmer Mines, Limited, at Hosmer.

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.

In Nova Scotia at the close of 1914 there were 238 ovens in operation and 710 idle. The Dominion Iron and Steel Company had only 208 of its 620 ovens in operation. All these ovens are of the Otto-Hoffman by-product type, from which are recovered tar, sulphate of ammonia, and gas. The gas is used in the Company's steel plant operations, and the sulphate of ammonia in the crystallized state is disposed of to the trade. The crude tar is sold to the Dominion Tar and Chemical Company, who have a plant close at hand for the separation of a variety of coal-tar products. The Nova Scotia Steel and Coal Company's Bernard ovens were idle at the close of the year, but its 30 Bauer ovens were in operation. The surplus gas from the Bauer ovens is used in generating steam for general colliery use, while that from the Bernard ovens is used for the production of steam for the power generating plant. All other ovens in the Province were idle at the end of the year.

In Ontario, the Atikokan Iron Company's 100 Beehive ovens at Port Arthur were idle throughout the year, but the Algoma Steel Company's 110 Koppers Regenerative By-product ovens at Sault Ste. Marie were in operation most of the year, though 55 were idle on December 31. At the Sault Ste. Marie plant, crude tar, crystallized sulphate of ammonia, and gas, are recovered. The tar is sold to the Dominion Tar and Chemical Company, who have a plant close at hand for the separation of coal-tar products. The sulphate of ammonia is sold in the open market and the surplus gas is used in the Company's steel plant operations.

In Alberta, all of the Western Canadian Collieries' 50 Bernard ovens at Lille, all of the Leitch Collieries' 101 Mitchell rectangular ovens at Passburg, and some of the International Coal and Coke Company's 216 Beehive ovens at Coleman, were idle throughout the year. There were none in operation on December 31.

In British Columbia too, the coke trade was adversely affected though not to the same extent as in Alberta and Nova Scotia. At the end of the year the Crowsnest Pass Coal Company had 50 of its 454 Beehive ovens

at Fernie idle, and 386 of its 486 at Michel idle; its 240 Beehive ovens at Carbonado have been idle for some years. The 240 Beehive ovens of Hosmer Mines, Limited, at Hosmer, were idle throughout the year, as were also those of the Canadian Collieries (Dunsmuir) Limited, at Comox, on Vancouver island.

The exports for 1914 were 67,838 tons, all from British Columbia. This was a slight decrease from 1913 when the exports were 68,235 tons.

Coke Oven By-products.

As in 1913, coke oven by-products were recovered only at Sydney, N.S., and Sault Ste. Marie, Ontario. The 1914 recoveries were as follows: 5,714,172 gallons tar and 8,572 tons of sulphate of ammonia. In 1913 the recoveries were 8,371,600 gallons of tar, and 10,608 tons of sulphate of ammonia.

Annual Production of Coke Oven By-products.

Year.	Tar.	Sulphate of ammonia.	Year.	Tar.	Sulphate of ammonia.
	Gals.	Tons of 2,000 lbs.		Gals.	Tons of 2,000 lbs.
1901.....	2,662,612	1,614	1908.....	4,450,166	3,342
1902.....	4,094,135	2,393	1909.....	4,016,824	3,416
1903.....	3,281,249	3,207	1910.....	3,963,591	3,491
1904.....	1,649,197	1,773	1911.....	6,464,155	7,124
1905.....	3,407,784	2,500	1912.....	8,428,896	11,289
1906.....	3,725,723	2,364	1913.....	8,371,600	10,608
1907.....	4,424,615	1,738	1914.....	5,714,172	8,572