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**CANADA**

**DEPARTMENT OF TRADE AND COMMERCE**

**DOMINION BUREAU OF STATISTICS**

**+++ *Census of Industry* +++**

**MINING, METALLURGICAL & CHEMICAL STATISTICS**



**THE COKE AND GAS INDUSTRY**

**IN**

**CANADA**

**1946**



**OTTAWA  
1946**

**Price 25 cents**



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### THE COKE AND GAS INDUSTRY, 1946

Production from coke plants and from illuminating and fuel gas plants in Canada during 1946 was valued at \$62,582,475, a decline of 9.4 per cent from the \$68,483,305 of the previous year. Output included 3,363,109 tons of coke valued at \$32,676,130 at the works, 61,065,424 M cubic feet of gas valued at \$25,931,069, and by-products valued at \$3,975,276.

Thirty coke and gas works operated in 1946, including 11 by-product and bee-hive plants, 18 retort coal and water gas plants, and 1 butane gas plant. Fifteen of these works were located in Ontario, 4 in British Columbia, 5 in Quebec, 2 in Manitoba, 2 in Nova Scotia, 1 in New Brunswick and 1 in Alberta. In addition to these producers, 1 company in Quebec and 2 in Ontario purchased coke-oven gas and distributed it for domestic or commercial use, and data covering their operations have been included to round out the figures for the industry.

Output of coke from gas retorts, by-products and bee-hive ovens totalled 3,363,109 tons in 1946 compared with 3,912,320 tons in 1945 and 4,017,696 tons in 1944. By-product and bee-hive ovens produced 3,098,189 tons of coke in 1946 and gas retorts made 264,920 tons. In addition, 69,615 tons of petroleum coke were recovered in petroleum refineries and 18,598 tons of pitch coke in coal tar distillation plants.

Data on the distribution of coke (except petroleum and pitch coke) by the producers show that 189,271 tons were sold direct to domestic consumers; 1,324,909 tons were used in associated works operated by the producing companies; 399,158 tons were used by coke plants as fuel or to make water gas; 677,427 tons were sold direct to consumers for foundry and other uses (other than domestic); 801,337 tons were sold to dealers for resale, and 43,388 tons were sold for export. The total distribution was 3,392,102 tons, including imports by the producers of 40,000 tons. Total stocks of coke in the hands of producers amounted to 363,987 tons at the end of 1946.

Imports into Canada of coke made from coal decreased to 900,833 tons in 1946 from 1,244,398 tons in 1945, and exports increased to 49,192 tons from 38,665 tons. Imports of petroleum coke during this period increased to 221,678 tons from 192,122 tons and exports (including re-exports of imported coke) decreased to 14,677 tons from 22,314 tons.

Manufactured gas, sold and used, amounted to 61,065,424 M cubic feet in 1946, including 45,595,212 M cubic feet from by-product ovens and 15,470,212 M cubic feet from gas plants. Sales of gas by the producers totalled 22,503,927 M cubic feet, of which 12,951,689 M cubic feet were from by-product ovens and 9,552,238 M cubic feet were from gas works. Most of the remaining gas was used as fuel in the producing plants or in their associated metallurgical works. These figures do not include 53,365 M cubic feet of (Pintsch) oil gas for lighting railway cars, 11,511,941 M cubic feet of still gas recovered at petroleum refineries, nor iron blast furnace gas and producer gas which was recovered and used by the producers but for which no records are available.

The number of customers served with manufactured illuminating and fuel gas in 1946 was 548,033, the length of distributing mains was 2,948 miles, and the average calorific value of the gas sold ranged from 450-570 B.T.U. per cubic foot.

Table 1 - DISTRIBUTION OF COKE AND GAS MANUFACTURING PLANTS, BY PROVINCES, 1946

Province	Coke Plants(★)	Gas Plants				TOTAL
	By-product and bee-hive ovens	Retort coal gas only	Water gas only	Retort coal gas and water gas	Butane gas	
Nova Scotia .....	1	1	...	...	...	2
New Brunswick .....	...	1	...	...	...	1
Quebec .....	1	1	1	1	1	5
Ontario .....	5	2	5	3	...	15
Manitoba .....	1	1	...	...	...	2
Alberta .....	1	...	...	...	...	1
British Columbia ..	2	1	...	1	...	4
CANADA .....	11	7	6	5	1	30

(★) 9 by-product only; 1 bee-hive only, and 1 both by-product and bee-hive.



Table 2 - SIZE OF ESTABLISHMENTS ACCORDING TO QUANTITY OF COAL CHARGED TO OVENS OR RETORTS, 1946

Coal Used	Number of plants (★)	Total coal for gas making
Less than 5,000 tons .....	5	11,412
5,001-15,000 .....	4	48,778
15,001-100,000 .....	4	216,990
100,001-500,000 .....	5	1,086,227
Over 500,000 .....	4	3,081,293
TOTAL (★) .....	22	4,444,700

(★) Does not include 6 plants which distributed water gas only, and 1 plant which distributed butane gas only.

Table 3 - PRINCIPAL STATISTICS OF THE COKE AND GAS INDUSTRY, 1941-1946

Year	Number of companies (★)	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
COKE (By-product and Bee-hive)						
1941 .....	13	2,488	4,073,482	3,611,421	20,505,807	39,999,164
1942 .....	13	2,536	4,462,503	3,809,802	23,083,418	43,858,560
1943 .....	14	2,718	5,112,660	4,138,202	27,293,247	48,478,935
1944 .....	14	3,056	6,032,037	5,470,044	32,610,820	56,902,563
1945 .....	14	3,018	6,058,717	5,476,808	32,533,770	55,515,287
1946 .....	14	3,022	6,047,865	4,854,787	29,643,102	48,796,229
GAS (Retort and Water Gas)						
1941 .....	18	1,802	2,458,621	950,169	3,402,071	10,819,556
1942 .....	18	1,865	2,819,400	1,063,414	4,211,087	11,929,931
1943 .....	19	1,663	2,842,938	940,708	5,141,420	12,421,663
1944 .....	20	1,691	2,908,576	1,008,767	5,198,433	12,673,152
1945 .....	20	1,739	2,954,391	1,046,745	5,212,712	12,968,018
1946 .....	20	1,939	3,300,348	1,419,383	5,066,057	13,786,246
TOTAL - Coke and Gas						
1941 .....	31	4,290	6,532,103	4,561,590	23,907,878	50,818,720
1942 .....	31	4,401	7,281,903	4,873,216	27,294,505	55,788,491
1943 .....	33	4,381	7,955,598	5,078,910	32,434,667	60,900,598
1944 .....	34	4,747	8,940,613	6,478,811	37,809,253	69,575,715
1945 .....	34	4,757	9,013,108	6,523,553	37,746,482	68,483,305
1946 .....	34	4,961	9,348,213	6,274,170	34,709,159	62,582,475

(★) The number shown for by-product and bee-hive ovens includes 3 companies which did not produce coke or gas but which purchased coke-oven gas from the manufacturers and distributed it to customers. Data for employees, capital, etc., for these distributing companies are included in the industry totals but duplication in gas purchases and sales as between producers and distributors has been eliminated.

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1945 and 1946

Province	Number of companies	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1945						
Nova Scotia and New Brunswick .....	3	462	928,259	764,443	4,641,513	7,895,026
Quebec .....	6	689	1,502,068	2,043,618	5,679,227	12,839,733
Ontario .....	18	2,970	5,388,380	3,059,935	25,086,610	42,190,328
Manitoba and Alberta	3	200	359,926	174,649	841,923	1,771,210
British Columbia ...	4	436	834,475	480,908	1,497,209	3,787,008
CANADA .....	34	4,757	9,013,108	6,523,553	37,746,482	68,483,305

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1945 and 1946 (Concluded)

Province	Number of com- panies	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
			\$	\$	\$	\$
<u>1946</u>						
Nova Scotia and New Brunswick .....	3	485	903,017	651,202	4,260,127	7,287,363
Quebec .....	6	804	1,701,154	1,997,956	5,364,339	12,573,914
Ontario .....	18	2,964	5,386,627	3,074,185	22,432,773	36,661,440
Manitoba and Alberta	3	205	375,679	181,472	881,025	1,799,440
British Columbia ...	4	503	981,736	369,355	1,770,895	4,260,318
CANADA .....	34	4,961	9,348,213	6,274,170	34,709,159	62,582,475

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1945 and 1946

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1945 and 1946

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
					\$	\$	\$	
1945								
Nova Scotia and New Brunswick .....	38	12	404	8	462	86,141	842,118	928,259
Quebec .....	214	61	413	1	689	670,772	831,296	1,502,068
Ontario .....	466	276	2,194	34	2,970	1,398,453	3,989,927	5,388,380
Manitoba and Alberta	40	22	138	...	200	102,481	257,445	359,926
British Columbia ...	57	13	366	...	436	154,637	679,838	834,475
CANADA .....	815	384	3,515	43	4,757	2,412,484	6,600,624	9,013,108
1946								
Nova Scotia and New Brunswick .....	33	12	440	...	485	88,686	814,331	903,017
Quebec .....	219	61	524	...	804	668,882	1,032,272	1,701,154
Ontario .....	484	271	2,208	1	2,964	1,558,505	3,828,122	5,386,627
Manitoba and Alberta	42	19	144	...	205	107,137	268,542	375,679
British Columbia ...	44	11	448	...	503	75,803	905,933	981,736
CANADA .....	822	374	3,764	1	4,961	2,499,013	6,849,200	9,348,213

Table 6 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (Number on pay-roll on the last day of each month)

Month	1945			1946		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	3,472	66	3,538	3,769	1	3,770
February .....	3,494	69	3,563	3,783	1	3,784
March .....	3,469	66	3,535	3,822	1	3,823
April .....	3,438	63	3,501	3,870	1	3,871
May .....	3,483	65	3,548	3,950	1	3,951
June .....	3,488	57	3,545	3,980	1	3,981
July .....	3,471	37	3,508	3,491	1	3,492
August .....	3,468	31	3,499	3,572	1	3,573
September .....	3,561	25	3,586	3,612	...	3,612
October .....	3,593	14	3,607	3,834	1	3,835
November .....	3,627	11	3,638	3,737	1	3,738
December .....	3,600	10	3,610	3,753	1	3,754
AVERAGE .....	3,515	43	3,558	3,764	1	3,765

Table 7 - FUEL AND ELECTRICITY USED, 1945 and 1946

Note: Includes fuel for boilers, benches, retorts, etc., but does not include coal, coke, etc., charged to ovens, retorts or water gas sets.

Kind	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Anthracite coal .....	ton	8	129	9	144
Bituminous coal - Canadian ...	ton	19,569	109,067	18,716	110,154
Imported ...	ton	22,266	173,811	18,634	68,294
Lignite coal - Canadian .....	ton	...	...	...	...
Coke .....	ton	281,026	1,999,735	289,481	2,450,199
Gasoline .....	Imp.gal.	122,223	33,983	124,298	34,514
Fuel oil .....	Imp.gal.	110,527	7,263	262,330	16,544
Gas--Manufactured (all made in users' works) .....	M cu. ft.	32,116,115	3,822,980	25,219,595	3,216,588
Other fuel .....	...	...	30,424	...	39,476
Electricity purchased .....	K.W.H.	66,008,124	346,161	62,329,218	338,257
TOTAL .....	...	...	6,523,553	...	6,274,170

Table 8 - POWER EQUIPMENT, 1945 and 1946

	Ordinarily in Use		in Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<b>1 9 4 5</b>				
Steam engines and turbines .....	184	9,852	106	6,042
Diesel engines .....	1	26	1	40
Gasoline, gas and oil engines (except Diesel) ..	26	1,145	12	405
Hydraulic turbines or water wheels .....	...	...	1	3
Total Primary .....	211	11,023	120	6,490
Electric motors run by purchased power .....	1,027	19,357	164	4,257
TOTAL .....	1,238	30,380	284	10,747
Electric motors run by primary units shown above	110	3,945	...	...
Stationary power boilers .....	75	17,093	37	14,216
Motor-generator sets .....	1	15	...	...
<b>1 9 4 6</b>				
Steam engines and turbines .....	184	10,328	103	5,791
Diesel engines .....	1	26	1	40
Gasoline, gas and oil engines (except Diesel) ...	24	1,099	11	380
Hydraulic turbines or water wheels .....	...	...	1	3
Total Primary .....	209	11,453	116	6,214
Electric motors run by purchased power .....	1,092	19,962	175	4,477
TOTAL .....	1,301	31,415	291	10,691
Electric motors run by primary units shown above	110	3,945	...	...
Stationary power boilers .....	75	17,093	30	13,146
Motor-generator sets .....	1	15	...	...

Table 9 - MATERIALS USED IN COKE AND GAS PLANTS, 1945 and 1946

Material	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal carbonized in ovens or retorts -					
(a) Canadian .....	ton	1,136,436	6,509,235	1,185,266	7,440,795
(b) Imported .....	ton	3,996,049	22,248,759	3,259,195	23,931,424
Bituminous coal for making water gas -					
(a) Canadian .....	ton	...	...	417	3,761
(b) Imported .....	ton	6,764	57,532	6,702	62,641
Coke for gas-making -					
(a) Purchased .....	ton	10,759	120,273	13,618	156,635
(b) Companies' own make .....	ton	91,122	742,909	105,386	976,502



Table 9 - MATERIALS USED IN COKE AND GAS PLANTS, 1945 and 1946 (Concluded)

Material	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Oil used for enriching water gas .....	Imp.gal.	10,655,717	836,488	13,126,351	1,062,785
Absorbing and wash oil .....	Imp.gal.	275,792	36,117	245,897	29,999
Caustic soda .....	lb.	1,936,288	39,239	1,040,063	24,064
Lime .....	ton	1,849	26,087	1,304	18,378
Water .....	...	...	39,967	...	47,017
Iron oxide .....	ton	7,357	57,441	9,385	69,899
Sulphuric acid, 66°Bé .....	lb.	67,830,415	560,007	55,052,729	455,986
All other materials .....	...	...	472,388	...	429,273
TOTAL COST .....	...	...	37,746,482	...	34,709,159

Table 10 - MATERIALS USED IN COKE AND GAS PLANTS, BY AREAS, 1946

Material	Unit of measure	Eastern Provinces		Ontario		Western Provinces	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal carbonized in ovens and retorts -							
(a) Canadian .....	ton	743,845	4,659,341	49,983	476,948	391,438	2,304,506
(b) Imported .....	ton	530,906	4,168,324	2,727,454	19,755,700	835	7,400
Bituminous coal for making water gas -							
(a) Canadian .....	ton	...	...	178	1,735	239	2,026
(b) Imported .....	ton	239	2,509	6,463	60,132	...	...
Coke for gas-making -							
(a) Purchased .....	ton	4,139	46,945	7,528	90,431	1,951	19,259
(b) Companies' own make	ton	15,160	152,312	73,667	712,029	16,559	112,161
Oil used for enriching water gas .....	Imp.gal.	1,623,530	147,376	9,500,841	752,642	2,001,980	162,767
Absorbing and wash oil ...	Imp.gal.	81,914	11,468	124,863	15,419	39,120	3,112
Caustic soda .....	pound	448,583	13,584	591,480	10,480	...	...
Lime .....	ton	1,208	17,184	95	1,187	1	7
Water .....	ton	...	8,600	...	13,657	...	24,760
Iron oxide .....	ton	4,891	30,461	4,064	32,414	430	7,024
Sulphuric acid, 66°Bé ....	pound	19,832,875	167,253	35,219,854	288,733	...	...
All other materials .....	...	...	199,109	...	221,266	...	8,898
TOTAL COST .....	...	...	9,624,466	...	22,432,773	...	2,651,920

Table 11 - PRODUCTS MADE IN COKE AND GAS PLANTS, 1945 and 1946

Product	Unit of measure	1945		1946	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
Gas Made -					
Retort coal gas .....	M cu.ft.	12,661,741	...	9,744,357	...
Coke oven gas .....	M cu.ft.	49,313,480	...	42,471,460	...
Producer gas .....	M cu.ft.	2,031,124	...	1,337,275	...
Water gas .....	M cu.ft.	5,885,110	...	7,101,932	...
Propane and butane gas .....	M cu.ft.	130,394	...	118,012	...
TOTAL GAS MADE .....	M cu.ft.	70,021,849	...	60,773,036	...
Gas Sold or Used -					
Gas sold .....	M cu.ft.	21,551,189	19,916,643	22,503,927	20,916,981
Gas used in own coke or gas plants ...	M cu.ft.	20,999,668	2,656,833	18,299,361	2,302,714
Gas used in associated metallurgical works .....	M cu.ft.	24,531,485	2,160,752	18,257,178	1,662,323
Gas otherwise accounted for but not sold .....	M cu.ft.	328,489	125,693	222,902	63,358
Gas not accounted for .....	M cu.ft.	2,857,285	981,688	1,782,056	985,693
TOTAL GAS SOLD OR USED .....	M cu.ft.	70,268,116	25,841,609	61,065,424	25,931,069

Table 11 - PRODUCTS MADE IN COKE AND GAS PLANTS, 1945 and 1946 (Concluded)

Product	Unit of measure	1945		1946	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
<b>Coke Made -</b>					
Coke from by-product or bee-hive ovens	ton	3,332,578	34,210,045	2,857,600	29,005,738
Coke from gas retorts .....	ton	271,018	2,435,505	259,166	2,848,316
Coke breeze from by-product ovens ....	ton	272,033	940,017	240,589	782,211
Coke breeze from gas retorts .....	ton	36,691	86,424	5,754	39,865
TOTAL COKE .....	ton	3,912,320	37,671,991	3,363,109	32,676,130
<b>Other Products -</b>					
Tar .....	Imp.gal.	37,995,126	2,193,711	33,043,844	1,987,375
Ammonia liquor .....	lb. NH <sub>3</sub>	1,703,170	16,457	1,559,320	17,081
Ammonium sulphate .....	pound	78,573,124	1,140,273	60,949,463	865,322
Benzol .....	Imp.gal.	7,412,377	1,009,159	5,776,019	818,315
Toluol, xylol and naphthalene .....	Imp.gal.	1,675,115	558,279	671,922	188,086
All other products .....	...	...	51,826	...	99,097
GRAND TOTAL .....	...	...	68,483,305	...	62,582,475

Table 12 - PRODUCTS MADE IN COKE AND GAS PLANTS, BY AREAS, 1946

Product	Unit of measure	Eastern Provinces		Ontario		Western Provinces	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$		\$
<b>Gas Made -</b>							
Retort coal gas .....	M cu.ft.	5,626,650	...	3,877,172	...	240,535	...
Coke oven gas .....	M cu.ft.	13,024,094	...	26,045,628	...	3,401,738	...
Producer gas .....	M cu.ft.	1,337,275	...	...	...	...	...
Water gas .....	M cu.ft.	676,231	...	5,487,522	...	938,179	...
Propane gas .....	M cu.ft.	...	...	73,742	...	...	...
Butane gas .....	M cu.ft.	44,270	...	...	...	...	...
TOTAL GAS MADE .....	M cu.ft.	20,708,520	...	35,484,064	...	4,580,452	...
<b>Gas Sold or Used -</b>							
Gas sold .....	M cu.ft.	7,238,696	7,638,859	11,758,600	9,937,726	3,506,631	3,340,396
Gas used in own plants.	M cu.ft.	5,003,673	688,434	12,676,321	1,529,155	619,367	85,125
Gas used in associated metallurgical works..	M cu.ft.	8,851,443	636,730	9,264,299	1,018,219	146,436	7,374
Gas otherwise accounted for but not sold ....	M cu.ft.	162	170	222,697	63,123	43	65
Gas not accounted for .	M cu.ft.	497,446	195,837	984,015	599,825	300,595	190,031
TOTAL GAS SOLD OR USED.	M cu.ft.	21,591,420	9,160,030	34,905,932	13,148,048	4,573,072	3,622,991
<b>Coke Made -</b>							
Coke from by-product or bee-hive ovens .....	ton	826,418	8,578,340	1,790,335	18,324,840	240,847	2,102,558
Coke from gas retorts..	ton	52,015	616,659	197,920	2,135,183	9,231	96,474
Coke breeze from by-product ovens .....	ton	67,911	344,507	144,436	381,621	28,242	56,083
Coke breeze from gas retorts .....	ton	4,373	33,909	653	1,654	728	4,302
TOTAL COKE MADE ...	ton	950,717	9,573,415	2,133,344	20,843,298	279,048	2,259,417
<b>Other Products -</b>							
Tar .....	Imp.gal.	9,905,432	538,813	20,957,181	1,324,309	2,181,231	124,253
Other products .....	...	...	589,019	...	1,345,785	...	53,097
GRAND TOTAL .....	...	...	19,861,277	...	36,661,440	...	6,059,758



Table 13 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, 1936-1946 (short tons)

Year	By-product and bee-hive coke		Gas retort coke		T O T A L	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$		\$
1936 .....	2,147,810	14,343,959	256,983	2,366,049	2,404,793	16,710,008
1937 .....	2,334,556	16,283,370	235,829	2,182,698	2,750,385	18,466,068
1938 .....	2,120,588	14,599,384	231,415	2,295,683	2,352,003	16,895,067
1939 .....	2,147,210	14,517,186	262,885	2,246,331	2,410,095	16,763,517
1940 .....	2,725,873	19,574,651	289,521	2,363,210	3,015,394	21,937,861
1941 .....	2,847,624	22,484,595	298,091	2,403,428	3,145,715	24,888,023
1942 .....	2,966,983	25,004,065	298,566	2,707,608	3,265,549	27,711,673
1943 .....	3,243,747	28,841,420	308,026	2,498,558	3,551,773	31,339,978
1944 .....	3,712,404	35,270,739	305,292	2,509,419	4,017,696	37,780,158
1945 .....	3,604,611	35,150,062	307,709	2,521,929	3,912,320	37,671,991
1946 .....	3,098,189	29,787,949	264,920	2,888,181	3,363,109	32,676,130

Table 14 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY PROVINCES, 1936-1946 (short tons)

Year	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		C A N A D A	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$		\$		\$
1936 .....	775,275	4,655,468	1,441,833	10,807,611	187,690	1,246,929	2,404,793	16,710,008
1937 .....	853,122	5,548,042	1,504,334	11,522,965	212,929	1,395,061	2,570,385	18,466,068
1938 .....	754,975	5,040,400	1,365,571	10,339,065	231,457	1,515,602	2,352,003	16,895,067
1939 .....	802,072	5,583,317	1,379,942	9,712,164	228,081	1,468,036	2,410,095	16,763,517
1940 .....	1,040,999	7,582,337	1,732,303	12,842,138	242,092	1,413,386	3,015,394	21,937,861
1941 .....	1,029,028	8,038,506	1,832,109	14,985,196	284,578	1,864,321	3,145,715	24,888,023
1942 .....	1,127,797	9,258,034	1,839,593	16,328,365	298,159	2,125,274	3,265,549	27,711,673
1943 .....	1,068,679	9,038,173	2,178,743	20,044,820	304,351	2,256,985	3,551,773	31,339,978
1944 .....	1,093,939	9,961,967	2,626,186	25,489,173	297,571	2,329,018	4,017,696	37,780,158
1945 .....	1,070,377	9,928,449	2,577,051	25,662,496	264,892	2,082,046	3,912,320	37,671,991
1946 .....	950,717	9,573,415	2,133,344	20,843,298	279,048	2,259,417	3,363,109	32,676,130

Table 15 - BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE SOLD AND USED BY PRODUCERS DURING 1945 and 1946 and STOCKS ON HAND AT END OF YEAR

	OWN MAKE		PURCHASED	
	Coke	Breeze	Coke	Breeze
	(Short tons)			
<u>1945</u>				
Coke actually used by reporting companies -				
In coke or gas plant (for fuel, water gas and producer gas) .....	287,379	65,458	10,442	14,248
In iron blast furnaces .....	1,355,810	...	169,781	...
In other associated works .....	60,275	116,355	...	...
Coke sold -				
(a) Direct to consumers:				
For domestic use .....	137,425	32,779	1,459	...
For other uses .....	486,918	59,638	11,731	341
(b) To dealers for resale .....	1,089,123	12,185	77,293	...
(c) For export .....	30,140	2,584	...	...
TOTAL SOLD OR USED .....	3,447,070	288,999	270,706	14,589
Stocks of coke on hand at the end of 1945..	60,060	168,642	2,706	5,382

Table 15 - BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE SOLD AND USED BY PRODUCERS DURING 1945 and 1946 and STOCKS ON HAND AT END OF YEAR (Concluded)

	Own Make		Purchased	
	Coke	Breeze	Coke	Breeze
	(Short tons)			
<u>1946</u>				
Coke actually used by reporting companies -				
In coke or gas plant (for fuel, water gas and producer gas) .....	340,265	29,050	10,420	19,423
In iron blast furnaces .....	1,123,011	...	77,806	...
In other associated works .....	45,696	78,396	...	...
Coke sold -				
(a) Direct to consumers:				
For domestic use .....	119,474	19,455	19,425	30,917
For other uses .....	421,164	73,495	63,659	817
(b) To dealers for resale .....	793,080	8,257	...	...
(c) For export .....	38,242	3,245	...	1,901
TOTAL SOLD OR USED .....	2,880,932	211,898	171,310	53,058
Stocks of coke on hand at the end of 1946 ..	168,062	188,239	2,809	4,877

NOTE: The above figures on consumption and sales by the producers include 59,000 tons in 1945 and 44,000 tons of imported coke in 1946. Duplication because of interplant sales has been eliminated in each year.

Table 16 - COAL CARBONIZED, COKE PRODUCED, AND DISTRIBUTION OF COKE BY MANUFACTURERS, 1946

	Bee-hive and by-product plants	Gas retort plants (tons)	Total for coke producing plants
Coal carbonized -			
Canadian .....	1,133,972	51,711	1,185,683
Imported .....	2,924,164	341,733	3,265,897
TOTAL .....	4,058,136	393,444	4,451,580
Coke made -			
Coke .....	2,857,600	259,166	3,116,766
Breeze .....	240,589	5,754	246,343
TOTAL .....	3,098,189	264,920	3,363,109
Coke yield .....	76.3	67.4	75.5
Coke used in coke or gas plants -			
Coke .....	141,696	208,989	350,685
Breeze .....	43,611	4,862	48,473
TOTAL .....	185,307	213,851	399,158
Coke used in associated works -			
Coke .....	1,211,484	35,029	1,246,513
Breeze .....	78,391	5	78,396
TOTAL .....	1,289,875	35,034	1,324,909
Coke sold direct to consumers for domestic use -			
Coke .....	111,789	27,110	138,899
Breeze .....	47,037	3,335	50,372
TOTAL .....	158,826	30,445	189,271
Coke sold direct to consumers for other uses -			
Coke .....	602,777	338	603,115
Breeze .....	73,598	714	74,312
TOTAL .....	676,375	1,052	677,427
Coke sold to dealers for resale -			
Coke .....	781,521	11,559	793,080
Breeze .....	8,257	...	8,257
TOTAL .....	789,778	11,559	801,337
Coke sold for export .....	43,388	...	43,388
TOTAL COKE SOLD AND USED - Coke .....	2,849,267	283,025	3,132,292
Breeze .....	250,894	8,916	259,810
TOTAL .....	3,100,161	291,941	3,392,102
Stocks on December 31, 1946 - Coke .....	150,717	20,154	170,871
Breeze .....	191,816	1,300	193,116
TOTAL .....	342,533	21,454	363,987

NOTE: The above figures on consumption and sales include 40,000 tons of imported coke.



Table 17 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY MONTHS, 1942-1946 (In 000's of short tons)

Month	1942	1943	1944	1945	1946
January .....	278	232	345	341	316
February .....	253	250	331	314	299
March .....	287	276	356	342	338
April .....	270	268	338	326	283
May .....	277	278	343	333	275
June .....	270	266	328	324	294
July .....	275	308	322	329	203
August .....	274	314	328	329	199
September .....	269	326	320	318	195
October .....	278	349	331	310	271
November .....	269	339	329	384	320
December .....	265	345	347	362	370
TOTAL .....	3,265	3,551	4,018	3,912	3,363
Monthly Average ..	272	296	335	326	280

Table 18 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, 1937-1946

Year	Bee-hive and by-product ovens		Gas retorts		T O T A L
	Canadian	Imported	Canadian	Imported (★)	
	(tons)				
1937 .....	1,106,706	2,106,960	48,109	318,175	3,579,950
1938 .....	960,492	1,917,995	48,403	301,124	3,228,014
1939 .....	1,020,585	1,871,975	56,393	325,255	3,274,208
1940 .....	1,336,172	2,357,492	82,499	344,786	4,120,949
1941 .....	1,352,112	2,506,770	82,103	380,859	4,321,844
1942 .....	1,383,171	2,624,343	104,823	359,554	4,471,891
1943 .....	1,173,469	3,109,602	53,546	443,986	4,780,603
1944 .....	1,165,464	3,682,097	55,811	413,339	5,316,711
1945 .....	1,081,924	3,587,065	54,512	415,748	5,139,249
1946 .....	1,133,972	2,924,164	51,711	341,733	4,451,580

(★) Includes 2,392 tons used in making water gas in 1937; 3,650 tons in 1938; 2,882 tons in 1939; 2,699 tons in 1940; 3,522 tons in 1941; 4,030 tons in 1942; 5,104 tons in 1943; 4,756 tons in 1944; 6,764 tons in 1945, and 6,702 tons in 1946.

Table 19 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, BY PROVINCES, 1937-1946

Year	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		T O T A L
	Canadian	Imported	Canadian	Imported (★)	Canadian	Imported	
	(Tons)						
1937 .....	853,949	338,861	6,028	2,060,077	294,838	26,197	3,579,950
1938 .....	673,625	345,319	3,200	1,858,798	335,270	11,802	3,228,014
1939 .....	733,972	352,236	9,260	1,843,570	333,746	1,424	3,274,208
1940 .....	1,071,156	355,024	...	2,344,726	347,515	2,528	4,120,949
1941 .....	1,020,956	397,814	...	2,489,684	413,259	131	4,321,844
1942 .....	1,051,828	502,626	...	2,481,271	436,166	...	4,471,891
1943 .....	798,824	702,291	...	2,851,297	428,191	...	4,780,603
1944 .....	826,305	670,997	...	3,389,976	394,970	34,463	5,316,711
1945 .....	783,347	645,787	...	3,340,357	353,089	16,669	5,139,249
1946 .....	743,845	531,145	50,161	2,733,917	391,677	835	4,451,580

(★) See footnote to Table 18.



Table 20 - PRODUCTION OF PETROLEUM COKE, 1937-1946

Year	Made for Own Use		Made for Sale		T O T A L	
	Tons	Selling Value at works \$	Tons	Selling value at works \$	Tons	Selling value at works \$
1937 .....	2,381	8,942	59,634	371,198	62,015	380,140
1938 .....	634	1,547	63,375	388,753	64,009	390,300
1939 .....	4,238	18,253	62,094	370,936	66,332	389,189
1940 .....	4,876	25,328	63,458	416,262	68,334	441,590
1941 .....	3,138	21,774	67,702	471,564	70,840	493,338
1942 .....	8,950	63,411	64,461	464,326	73,411	527,737
1943 .....	7,141	49,310	74,634	535,853	81,775	585,163
1944 .....	1,651	10,997	71,158	507,166	72,809	518,163
1945 .....	7,260	36,269	59,559	472,933	66,819	509,202
1946 .....	4,172	19,345	65,443	343,761	69,615	363,106

NOTE: Petroleum coke is not included in coke production figures given for the coke and gas industry.

Table 21 - TOTAL PRODUCTION OF COKE (Including Petroleum and Pitch Coke) IN CANADA, 1943-1946

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
<u>1 9 4 3</u>						
Coke and gas industry .....	Tons	557,696	510,983	2,178,743	304,351	3,551,773
	\$	3,971,707	5,066,466	20,044,820	2,256,985	31,339,078
Petroleum refining industry	Tons	273	1,122	78,897	1,483	81,775
	\$	696	8,938	567,100	8,429	585,163
Pitch coke .....	Tons	5,054	638	11,781	522	17,995
	\$	46,689	6,076	88,497	6,673	147,935
TOTAL .....	Tons	563,023	512,743	2,269,421	306,356	3,651,543
	\$	4,019,092	5,081,480	20,700,417	2,272,087	32,073,076
<u>1 9 4 4</u>						
Coke and gas industry .....	Tons	588,338	505,601	2,626,186	297,571	4,017,696
	\$	4,946,366	5,015,601	25,489,173	2,329,018	37,780,158
Petroleum refining industry	Tons	300	3,337	67,364	1,808	72,809
	\$	841	20,021	484,756	12,545	518,163
Pitch coke .....	Tons	3,856	987	8,311	635	13,789
	\$	31,658	9,333	60,925	6,403	108,319
TOTAL .....	Tons	592,494	509,925	2,701,861	300,014	4,104,294
	\$	4,978,865	5,044,955	26,034,854	2,347,966	38,406,640
<u>1 9 4 5</u>						
Coke and gas industry .....	Tons	576,283	494,094	2,577,051	264,892	3,912,320
	\$	5,077,112	4,851,337	25,662,496	2,081,046	37,671,991
Petroleum refining industry	Tons	236	1,347	62,837	2,399	66,819
	\$	784	8,351	490,049	10,018	509,202
Pitch coke .....	Tons	4,074	1,252	11,819	650	17,795
	\$	27,852	9,017	85,143	6,956	128,968
TOTAL .....	Tons	580,593	496,693	2,651,707	267,941	3,996,934
	\$	5,105,748	4,868,705	26,237,688	2,098,020	38,310,161
<u>1 9 4 6</u>						
Coke and gas industry .....	Tons	498,079	452,638	2,133,344	279,048	3,363,109
	\$	5,044,676	4,528,739	20,843,298	2,259,417	32,676,130
Petroleum refining industry	Tons	374	2,907	63,754	2,580	69,615
	\$	1,627	12,645	335,526	13,308	363,106
Pitch coke .....	Tons	7,947	1,184	8,780	687	18,598
	\$	72,410	8,290	63,035	7,906	151,641
TOTAL .....	Tons	506,400	456,729	2,205,878	282,315	3,451,322
	\$	5,118,713	4,549,674	21,241,859	2,280,631	33,190,877

Table 22 - APPARENT CONSUMPTION OF COKE (Including Petroleum and Pitch Coke) IN CANADA, BY PROVINCES, 1940 - 1946

	Prince Edward Island, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
	(Tons)				
Apparent consumption - 1940 .....	584,966	608,280	2,455,112	236,186	3,884,544
1941 .....	597,817	612,146	2,609,137	272,927	4,092,027
1942 .....	641,878	699,083	2,734,286	292,561	4,367,808
1943 .....	559,018	821,422	3,096,692	297,555	4,774,687
1944 .....	573,496	724,087	3,419,438	270,904	4,987,925
<b>1945</b>					
Production .....	580,593	496,693	2,651,707	267,941	3,996,934
Add decline or deduct increase in producers' stocks .....	+20,597	+15,584	+24,753	+2,810	+63,744
	601,190	512,277	2,676,460	270,751	4,060,678
Add - Imports entered for consumption	195	320,397	1,085,342	30,838	1,436,772
	601,385	832,674	3,761,802	301,589	5,497,450
Deduct - Exports and re-exports .....	4,252	2,488	20,872	33,373	60,985
APPARENT CONSUMPTION .....	597,133	830,186	3,740,930	268,216	5,436,465
<b>1946</b>					
Production .....	506,400	456,729	2,205,878	282,315	3,451,322
Add decline or deduct increase in producers' stocks .....	-16,738	-6,804	-110,649	+2,540	-131,651
	489,662	449,925	2,095,229	284,855	3,319,671
Add - Imports entered for consumption	206	186,990	915,455	20,205	1,122,856
	489,868	636,915	3,010,684	305,060	4,442,527
Deduct - Exports and re-exports .....	4,839	2,713	14,533	42,173	64,258
APPARENT CONSUMPTION .....	485,029	634,202	2,996,151	262,887	4,378,269

NOTE: The imports "Entered for consumption" represent tonnages cleared from customs' ports. The tonnages under this heading differ slightly from actual imports.

Table 23 - QUANTITY OF COKE IN THE HANDS OF THE PRODUCERS AT THE END OF 1945 and 1946

Province	1945			1946			Difference 1946 from 1945
	Petroleum refineries	Coke and gas plants	TOTAL	Petroleum refineries	Coke and gas plants	TOTAL	
	(Tons)						
Nova Scotia .....	...	3,083	3,083	...	19,821	19,821	+16,738
New Brunswick .....	...	4	4	...	4	4	...
Quebec .....	95	16,640	16,735	512	23,027	23,539	+6,804
Ontario .....	1,768	189,231	190,999	4,503	297,145	301,648	+110,649
Manitoba .....	...	1,744	1,744	...	2,558	2,558	+814
Saskatchewan .....	2,456	...	2,456	3,687	...	3,687	+1,231
Alberta .....	...	...	...	...	...	...	...
British Columbia ...	70	26,108	26,178	161	21,432	21,593	-4,585
TOTAL .....	4,389	236,810	241,199	8,863	363,987	372,850	+131,651

NOTE: No data for producers' stocks of pitch coke.

Table 24 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL AREAS, 1942-1946

	Prince Edward Island, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
	(Tons)				
<b>1942</b>					
Furnace charges .....	510,725	49,312	1,763,242	93,722	2,417,011
Manufacturing material .....	...	298,191	273,354	62,695	634,240
Industrial fuel .....	36,441	53,980	285,675	21,736	397,832
Available for other uses (mostly domestic) .....	94,712	297,600	412,015	114,408	918,735
APPARENT CONSUMPTION ...	641,878	699,083	2,734,286	292,561	4,367,808

Table 24 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL AREAS, 1942-1946 (Concluded)

	Prince Edward Island, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
	(Tons)				
<u>1943</u>					
Furnace charges .....	395,883	47,895	1,710,724	90,560	2,245,062
Manufacturing material .....	...	423,107	328,123	70,404	821,639
Industrial fuel .....	35,878	60,443	284,987	21,974	403,282
Available for other uses (mostly domestic) .....	126,225	286,984	705,147	114,528	1,232,854
APPARENT CONSUMPTION .....	557,986	818,429	3,028,986	297,466	4,702,837
<u>1944</u>					
Furnace charges .....	407,131	49,737	1,721,222	73,357	2,251,447
Manufacturing material .....	...	311,837	318,885	40,872	671,594
Industrial fuel .....	35,645	119,079	533,542	114,913	803,179
Available for other uses (mostly domestic) .....	130,720	243,434	845,789	41,762	1,261,705
APPARENT CONSUMPTION .....	573,496	724,087	3,419,438	270,904	4,987,925
<u>1945</u>					
Furnace charges .....	399,902	57,346	1,660,489	67,435	2,185,172
Manufacturing material .....	...	248,836	393,397	50,425	692,658
Industrial fuel .....	37,187	127,127	526,765	110,627	801,706
Available for other uses (mostly domestic) .....	160,044	396,877	1,160,279	39,729	1,756,929
APPARENT CONSUMPTION .....	597,133	830,186	3,740,930	268,216	5,436,465
<u>1946</u>					
Furnace charges .....	340,476	53,328	1,306,918	72,695	1,773,417
Manufacturing material .....	1,481	176,138	278,143	20,812	476,574
Industrial fuel .....	23,058	116,119	429,801	114,450	683,428
Available for other uses (mostly domestic) .....	120,014	288,617	981,289	54,930	1,444,850
APPARENT CONSUMPTION .....	485,029	634,202	2,996,151	262,887	4,378,269

NOTES: 1. Figures showing the tonnages of coke available for domestic or other uses are obtained by difference and include the coke used for purposes other than specified in these tables.

2. No allowance has been made for changes during the year in stocks of coke held by dealers or users.

3. No allowance has been made for interprovincial shipments of coke.

Table 25 - SALES(a) OF PETROLEUM COKE IN CANADA FOR FUEL PURPOSES, 1940-1946

Areas and Year	Fuel for domestic and industrial heating (b)	Inventory on December 31, including stocks at refineries
	(Tons)	
1940 .....	44,392	183,579
1941 .....	39,150	3,985
1942 .....	29,480	1,986
1943 .....	18,868	6,466
1944 .....	25,616	6,580
1945 .....	59,855	21,202
1946 - Maritimes .....	374	...
Quebec .....	122,616	71,609
Ontario .....	141,018	44,221
Western provinces .....	2,616	696
Canadian .....	105,907	35,995
Imported .....	160,717	80,531
TOTAL FOR 1946 .....	266,624	116,526

(a) As reported by coal dealers, distributors and importers.

(b) Consisting mostly of amounts used as fuel by refineries.



Table 26 - PRODUCTION AND SALES OF MANUFACTURED GAS BY THE COKE AND GAS INDUSTRY, 1936-1946

Year	From By-product and Gas Plants			Production of still gas from petroleum refineries
	Production ( $\pm$ )	S a l e s		
		Quantity	Income from sales	
M cu.ft.	M cu.ft.		M cu.ft.	
1936 .....	44,345,358	15,321,832	15,163,664	6,083,549
1937 .....	46,009,633	15,289,839	14,732,531	6,199,110
1938 .....	42,932,721	15,198,068	15,001,142	6,486,618
1939 .....	41,632,773	14,936,902	14,562,246	7,802,666
1940 .....	55,112,521	15,392,723	14,803,049	8,706,834
1941 .....	57,728,803	16,931,434	15,888,723	9,971,268
1942 .....	68,839,292	18,913,230	17,316,135	7,643,715
1943 .....	74,731,346	20,403,544	18,609,364	10,086,340
1944 .....	82,337,655	21,101,351	19,392,362	10,601,455
1945 .....	70,021,849	21,551,189	19,916,643	10,614,582
1946 .....	60,773,036	22,503,927	20,916,981	11,511,941

(\*) Does not include blast furnace gas and producer gas which are recovered and used by the producers but for which no records are available.

Table 27 - SALES OF MANUFACTURED AND NATURAL GAS IN CANADA, 1945 and 1946 (As reported by Distributors)

	1 9 4 5			1 9 4 6		
	Number of customers	Quantity sold	Revenue from sales	Number of customers	Quantity	Revenue from sales
		M cu.ft.	\$		M cu.ft.	\$
<b>Manufactured Gas -</b>						
Domestic .....	493,307	12,720,922	13,928,374	507,717	12,365,931	13,997,670
House heating ...	6,217	1,679,796	914,981	6,404	1,746,316	958,361
Industrial .....	3,356	5,109,828	2,996,984	3,619	4,622,445	2,582,478
Commercial .....	29,619	3,893,848	3,429,237	30,160	3,741,153	3,362,839
Miscellaneous ...	114	48,423	49,040	133	16,319	88,224
TOTAL .....	532,613	23,452,817	21,318,616	548,033	22,492,164	20,989,572
<b>Natural Gas -</b>						
Domestic .....	194,098	16,875,164	7,975,469	203,941	17,398,813	8,082,941
Industrial .....	1,162	8,375,151	1,930,013	1,196	7,711,571	1,774,132
Commercial .....	11,728	8,276,943	2,164,934	12,646	7,834,497	2,094,600
Miscellaneous ...	482	404,328	36,011	453	241,264	108,540
TOTAL .....	207,470	33,931,586	12,106,427	218,236	33,186,145	12,060,213
TOTAL --ALL GAS ...	740,083	57,384,403	33,425,043	766,269	55,678,309	33,049,785

NOTE: The sales figures for manufactured gas as recorded in this table differ slightly from those given in Table 26 because they represent sales by distributing companies to consumers. Some petroleum refinery gas was treated and distributed by the natural gas companies.

Table 28 - PRODUCTION OF CRUDE COAL TAR, BY PROVINCES, 1944-1946

Province	1 9 4 4	1 9 4 5	1 9 4 6
	(Imperial gallons)		
Nova Scotia and New Brunswick .....	7,977,607	7,892,890	6,437,817
Quebec .....	3,648,345	3,498,476	3,467,615
Ontario .....	24,760,068	24,530,863	20,957,181
Manitoba .....	497,186	479,013	473,564
British Columbia .....	1,024,729	1,593,884	1,707,667
CANADA .....	37,907,935	37,995,126	33,043,844

Table 29 - PRODUCTION, IMPORTS AND EXPORTS OF AMMONIUM SULPHATE, 1936-1946

Year	Production (★)		Imports		Exports	
	Tons	\$	Tons	\$	Tons	\$
1936 .....	98,483	1,883,088	5,729	148,956	83,835	1,802,818
1937 .....	87,621	1,782,364	3,230	82,440	56,485	1,212,258
1938 .....	119,520	2,590,994	5,911	156,540	77,191	1,637,204
1939 .....	129,865	3,107,977	3,217	94,854	109,260	2,508,364
1940 .....	115,679	3,217,268	355	13,506	72,485	2,172,049
1941 .....	98,662	3,156,880	57	4,951	59,480	2,147,613
1942 .....	116,796	3,776,372	5,044	185,608	79,236	2,908,266
1943 .....	196,404	6,176,623	39	2,653	141,080	4,794,695
1944 .....	209,578	6,387,397	105	13,117	167,497	5,505,115
1945 .....	221,499	7,255,308	104	12,576	181,189	6,179,877
1946 .....	197,823	5,856,906	64	6,016	155,447	5,218,549

(★) Includes output of synthetic ammonium sulphate in the Fertilizer Industry.

## DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1946

Names of Firms and Location of Plants	Coke and gas making equipment, including reserve equipment (Rated annual capacity in tons of coal carbonized or in cubic feet of gas produced given in brackets).
<b>1. COKE PLANTS</b>	
<b>By-product Ovens</b>	
Dominion Steel and Coal Corp. Ltd., Sydney, N.S.	<u>In Use</u> - 180 Koppers horizontal ovens (813,000 tons)
Montreal Coke & Manufacturing Co., (Quebec Hydro-Electric Commission) (b) 435 St. Patrick St., Ville La Salle, Quebec	<u>In Use</u> - 59 Koppers Becker type horizontal ovens (560,275 tons); 4 Koppers Kerpely Ring type producers (12,702,000 M cu.ft.) <u>In Reserve or Idle</u> - 5 Water Gas sets (8,000,000 M cu.ft.)
Algoma Steel Corporation Ltd. (Great Northern Gas Co. Ltd.) (b) Sault Ste. Marie, Ontario	<u>In Use</u> - 103 Wilputte ovens (660,000 tons) and 141 Koppers ovens (1,121,500 tons)
Hamilton By-product Coke Ovens, Ltd. (United Gas & Fuel Co. Ltd.)(b) Hamilton, Ontario	<u>In Use</u> - 25 Semet-Solvay ovens (175,000 tons), and 35 Wilputte ovens (240,000 tons); 1 Carbureted Water Gas Set (1,095,000 M cu.ft.); 2 Propane Vaporizers (600,000 M cu.ft.)
Ontario Coke Ovens Division, Hamilton By-Product Coke Ovens, Ltd., Hamilton, Ontario	<u>In Use</u> - 54 Curran-Knowles Sole Flue Type (328,500 tons) <u>In Reserve or Idle</u> - 4 Galusha Cleveland Ohio Producers (6,307 M cu.ft.)
Public Utilities Commission, Owen Sound, Ontario	<u>In Use</u> - 3 Curran-Knowles ovens (12,775 tons)
Steel Company of Canada, Limited, Hamilton, Ontario	<u>In Use</u> - 80 Wilputte ovens (641,232 tons)
Winnipeg Electric Company (b) Elec. Railway Chambers, Sutherland Ave. and Gladstone St., Winnipeg, Manitoba	<u>In Use</u> - 17 Koppers Becker type horizontal ovens (84,500 tons) <u>In Reserve or Idle</u> - 1 Western Gas water gas set (1,460,000 M cu.ft.)
B.C. Electric Power & Gas Co. Ltd. (a) (b) Keefer St., and Carrall St., Vancouver, B.C.	<u>In Use</u> - 45 intermittent Chamber ovens (131,604 tons); 3 internal and 3 external mechanical producers for chamber oven plants; 40 continuous vertical retorts (766,500 M cu.ft.); 2 water gas generators (1,095,000 M cu.ft.) 1 C.W. Gas generator (365,000 M cu.ft.)

**NOTE:** Names of gas distributing companies in brackets.

(a) Indicates carbureted water gas was distributed.

(b) Indicates coke oven gas was distributed for domestic and commercial use.

## Directory of Firms in the Coke and Gas Industry, 1946 (Continued)

Names of Firms and Location of Plants	Coke and gas making equipment, including reserve equipment (Rated annual capacity in tons of coal carbonized or in cubic feet of gas produced given in brackets)
<b>1. COKE PLANTS (Concluded)</b>	
<u>Beehive Ovens</u>	
International Coal & Coke Co. Ltd., Coleman, Alta.	<u>In Use</u> - 77 beehive ovens (81,070 tons) <u>In Reserve or Idle</u> - 27 beehive ovens (28,430 tons)
Crow's Nest Pass Coal Co. Ltd., Michel, B.C.	<u>In Use</u> - 230 beehive ovens (128,000 tons); 20 by-product ovens (80,000 tons) <u>In Reserve or Idle</u> - 608 beehive ovens (340,000 tons)
<b>2. ILLUMINATING AND FUEL GAS PLANTS</b>	
<u>Retort Coal Gas and Carbureted Water Gas</u>	
Nova Scotia Light & Power Company Limited (b) Halifax, N.S.	<u>In Use</u> - 16 Glover-West continuous vertical retorts (18,000 tons)
New Brunswick Power Company (b) Saint John, N.B.	<u>In Use</u> - 12 Russell horizontal retorts (3,786 tons) <u>In Reserve or Idle</u> - 6 Russell horizontal retorts (1,550 tons)
Shawinigan Chemicals Ltd., Shawinigan Falls, Quebec	11 chemical type coking stokers of own design (330,000 tons)
City of Sherbrooke Gas and Electricity Dept. (a) Sherbrooke, Quebec	<u>In Use</u> - 1 Western Gas water gas set (146,000 M cu.ft.)
Quebec Power Company (Gas Division) (b) Quebec, Quebec	<u>In Use</u> - 12 Woodall-Duckham vertical continuous retorts (25,300 tons); 1 U.Y.I. (1,000 M cu.ft.) <u>In Reserve or Idle</u> - 1 Western Gas water gas set (1,250 M cu.ft.); 1 U.Y.I. water gas set (1,000 M cu.ft.)
Board of Light & Heat Commission (b) Guelph, Ontario	<u>In Use</u> - 8 Glover-West vertical continuous retorts (12,000 tons); 1 Shell Lowe carbureted water gas set (350 M cu.ft.) <u>In Reserve or Idle</u> - 2 Glover-West vertical ovens (3,000 tons); 1 Shell Lowe carbureted water gas set.
Brockville Public Utilities Commission (a) Brockville, Ontario	<u>In Use</u> - 2 Water Gas sets (500,000 M cu.ft.)
Consumers Gas Company of Toronto (a)(b) 19 Toronto St., Toronto, Ontario	<u>In Use</u> - 104 Glover-West vertical retorts (190,000 tons) 220 Drakes Ltd. horizontal retorts (112,420 tons); 8 Lowe Principal water gas sets.
Belleville Public Utilities Commission (b) Belleville, Ont.	<u>In Use</u> - 4 Glover-West continuous vertical retorts (5,475 tons)
Ontario Shore Gas Co. Ltd. (a), Oshawa, Ontario	<u>In Use</u> - 1 water gas set <u>In Reserve or Idle</u> - 1 water gas set.
Peterborough Utilities Commission (a) Peterborough, Ontario	<u>In Use</u> - 1 Merrifield Pearson water gas set (90,000 M cu.ft.) <u>In Reserve or Idle</u> - 1 Merrifield Pearson water gas set (70,000 M cu.ft.)



## Directory of Firms in the Coke and Gas Industry, 1946 (Concluded)

Names of Firms and Location of Plants	Coke and gas making equipment, including reserve equipment (Rated annual capacity in tons of coal carbonized or in cubic feet of gas produced given in brackets)
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2. ILLUMINATING AND FUEL GAS PLANTS (Concluded)Retort Coal Gas and Carbureted Water Gas (Concluded)

Public Utilities Commission (a), Kingston, Ontario	<u>In Use</u> - 1 Merrifield-Westcott water gas set (300,000 M cu.ft.) <u>In Reserve or Idle</u> - 1 Merrifield-Westcott water gas set (150,000 M cu.ft.)
Public Utilities Commission (a)(b) Kitchener, Ontario	<u>In Use</u> - 3 horizontal retorts (3,900 tons); 1 water gas set (219,000 M cu.ft.) <u>In Reserve or Idle</u> - 2 horizontal retorts (2,600 tons); 1 water gas set (219,000 M cu.ft.)
Ottawa Light, Heat & Power Co. Ltd. (a) 56 Sparks St., Ottawa, Ontario	<u>In Use</u> - 1 carbureted blue gas set (547,500 M cu.ft.); <u>In Reserve or Idle</u> - 1 carbureted blue gas set (547,000 M cu.ft.)
Public Utility Commission (b), Stratford, Ontario	<u>In Use</u> - 12 horizontal retorts (5,000 tons) <u>In Reserve or Idle</u> - 6 horizontal retorts (2,500 tons)
Victoria Gas Company, Ltd. (a)(b), Victoria, B.C.	<u>In Use</u> - 16 Glover-West vertical retorts (16,352 tons); 1 Humphrey & Glasgow water set (500 M cu.ft.); 1 water gas set (500 M cu.ft.)
Corporation City of Nelson (b), Nelson, B.C.	<u>In Use</u> - 8 horizontal retorts (1,500 tons)

Propane Gas

City Gas and Electric Corporation, Ltd., Three Rivers, Quebec

(a) Indicates that carbureted water gas was distributed.

(b) Indicates that retort coal gas was distributed to customers.

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