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MINING, METALLURGICAL & CHEMICAL SECTION

THE COKE AND GAS INDUSTRY

IN

CANADA

1947



**OTTAWA
1949**

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THE COKE AND GAS INDUSTRY, 1947

Production from coke plants and from illuminating and fuel gas plants in Canada during 1947 was valued at \$72,832,722, an increase of 16.4 per cent over the \$62,582,475 of the previous year. Output included 3,514,151 tons of coke valued at \$39,339,891 at the works, 65,873,309 M cubic feet of gas valued at \$28,399,451, and by-products valued at \$5,093,380.

Thirty coke and gas works operated in 1947, 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 1 company in Ontario purchased water gas to be distributed for domestic or commercial use. 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 3,514,151 tons in 1947 compared with 3,363,109 tons in 1946 and 3,912,320 tons in 1945. By-product and bee-hive ovens produced 3,250,221 tons of coke in 1947 and gas retorts made 263,930 tons. In addition, 78,125 tons of petroleum coke were recovered in petroleum refineries and 13,997 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 132,406 tons were sold direct to domestic consumers, 1,910,036 tons were used in associated works operated by the producing companies; 410,799 tons were used by coke plants as fuel or to make water gas; 780,030 tons were sold direct to consumers for foundry and other uses (other than domestic); 499,887 tons were sold to dealers for resale, and 106,097 tons were sold for export. Total stocks of coke in the hands of producers amounted to 272,662 tons at the end of 1947.

Imports into Canada of coke made from coal decreased to 572,676 tons in 1947 from 900,833 tons in 1946, and exports increased to 106,552 tons from 49,192 tons. Imports of petroleum coke during this period increased to 259,429 tons from 221,678 tons and exports (including re-exports of imported coke) increased to 27,963 tons from 14,677 tons.

Manufactured gas, sold and used, amounted to 65,873,309 M cubic feet in 1947, including 49,957,600 M cubic feet from by-product ovens and 15,915,709 M cubic feet from gas plants. Sales of gas by the producers totalled 22,947,000 M cubic feet, of which 13,089,652 M cubic feet were from by-product ovens and 9,857,348 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 52,166 M cubic feet of (Pintsch) oil gas for lighting railway cars, 11,400,531 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 1947 was 570,328, the length of distributing mains was 4,062 miles, and the average calorific value of the gas sold ranged from 447 -540 B.T.U. per cubic foot.

Table 1 - DISTRIBUTION OF COKE AND GAS MANUFACTURING PLANTS, BY PROVINCES, 1947

Province	Coke Plants(x)	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	6	2	...	15
Manitoba	1	1	...	...	...	2
Alberta	1	...	...	...	...	1
British Columbia ...	2	1	...	1	...	4
CANADA	11	7	7	4	1	30

* - 9 by-product only; 1 bee-hive only; and 1 both by-product and bee-hive.

Note: This report was compiled by J. J. Parchelo, Statistician, Metal and Chemical Products.

Table 2 - PRINCIPAL STATISTICS OF THE COKE AND GAS INDUSTRY, 1942-1947

Year	Number of companies (★)	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>COKE (By-product and Bee-hive)</u>						
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
1947	14	3,115	7,110,583	5,709,507	34,294,862	58,211,622
<u>GAS (Retort and Water Gas)</u>						
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
1947	20	1,893	3,701,529	1,470,341	5,609,918	14,621,100
<u>TOTAL - Coke and Gas</u>						
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
1947	34	5,009	10,812,112	7,179,848	39,904,780	72,832,722

(★) 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; similarly, the number shown for retort and water gas producers includes 1 company which did not produce retort or water gas but which purchased water gas from the manufacturer 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 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947

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>1 9 4 6</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
<u>1 9 4 7</u>						
Nova Scotia and New Brunswick	3	470	1,128,870	809,269	4,232,472	7,546,343
Quebec	6	788	1,855,805	2,469,856	6,057,173	14,018,617
Ontario	18	3,036	6,349,822	3,323,634	26,270,806	44,309,703
Manitoba and Alberta	3	215	437,945	191,565	1,094,813	2,048,696
British Columbia ...	4	500	1,039,670	385,524	2,249,516	4,909,363
CANADA	34	5,009	10,812,112	7,179,848	39,904,780	72,832,722

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1946 and 1947

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
<hr/>								
1 9 4 6								
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
<hr/>								
CANADA	822	374	3,764	1	4,961	2,499,013	6,849,200	9,348,213
<hr/>								
1 9 4 7								
Nova Scotia and New Brunswick	55	12	403	...	470	156,374	972,496	1,128,870
Quebec	200	53	535	...	788	706,842	1,148,963	1,855,805
Ontario	512	267	2,254	3	3,036	1,829,056	4,520,766	6,349,822
Manitoba and Alberta	46	17	152	...	215	117,717	320,228	437,945
British Columbia ...	33	14	453	...	500	98,333	941,337	1,039,670
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CANADA	846	363	3,797	3	5,009	2,908,322	7,903,790	10,812,112

Table 5 - WAGE-EARNERS, BY MONTHS, 1946 and 1947 (Number on pay-roll on the last day of each month)

Month	1946			1947		
	Male	Female	TOTAL	Male	Female	TOTAL
January	3,769	1	3,770	3,773	3	3,776
February	3,783	1	3,784	3,779	3	3,782
March	3,822	1	3,823	3,753	3	3,756
April	3,870	1	3,871	3,689	3	3,692
May	3,950	1	3,951	3,778	3	3,381
June	3,980	1	3,981	3,763	3	3,766
July	3,491	1	3,492	3,787	3	3,790
August	3,572	1	3,573	3,935	3	3,938
September	3,612	...	3,612	3,875	3	3,878
October	3,834	1	3,835	3,860	3	3,863
November	3,737	1	3,738	3,791	3	3,794
December	3,753	1	3,754	3,781	3	3,784
AVERAGE	3,764	1	3,765	3,797	3	3,800

Table 6 - FUEL AND ELECTRICITY USED, 1946 and 1947

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	1946		1947	
		Quantity	Cost at works	Quantity	Cost at works
Anthracite coal	ton	9	144	9	176
Bituminous coal - Canadian ...	ton	18,716	110,154	23,094	156,486
Imported ...	ton	8,634	68,294	6,465	55,461
Lignite coal - Canadian	ton	...	...	...	...
Coke	ton	289,481	2,450,199	293,610	2,762,986
Gasoline	Imp.gal.	124,298	34,514	120,694	35,068
Fuel oil	Imp.gal.	262,330	16,544	338,060	31,984
Gas--Manufactured (all made in users' works)	M cu. ft.	25,219,595	3,216,588	25,272,402	3,739,731
Other fuel .....	...	...	39,476	...	35,427
Electricity purchased	K.W.H.	62,329,218	338,257	61,284,326	362,529
TOTAL .....	...	...	6,274,170	...	7,179,848

Table 7 - POWER EQUIPMENT, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1946				
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	...	...
1947				
Steam engines and turbines	180	10,190	106	5,680
Diesel engines	1	26	1	39
Gasoline, gas and oil engines (except Diesel) ..	29	1,634	9	363
Hydraulic turbines or water wheels .....	...	...	1	3
Total Primary	210	11,850	117	6,085
Electric motors run by purchased power	1,144	21,838	212	5,263
TOTAL	1,354	33,688	329	11,348
Electric motors run by primary units shown above	110	3,945	...	...
Stationary power boilers	74	17,378	34	13,128
Motor-generator sets	2	27 k.v.a.	...	...

Table 8 - MATERIALS USED IN COKE AND GAS PLANTS, 1946 and 1947

Material	Unit of measure	1946		1947	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal carbonized in ovens or retorts -					
(a) Canadian	ton	1,185,266	7,440,795	1,067,833	7,032,481
(b) Imported	ton	3,259,195	23,931,424	3,532,819	28,800,154
Bituminous coal for making water gas -					
(a) Canadian	ton	417	3,761	...	...
(b) Imported	ton	6,702	62,641	7,194	72,687
Coke for gas-making -					
(a) Purchased	ton	13,618	156,635	14,870	195,277
(b) Companies' own make	ton	105,386	976,502	111,187	1,082,795
Oil used for enriching water gas	Imp.gal.	13,126,351	1,062,785	15,056,941	1,373,064
Absorbing and wash oil	Imp.gal.	245,897	29,999	248,804	33,218
Caustic soda	lb.	1,040,063	24,064	1,023,401	24,375
Lime	ton	1,304	18,378	1,186	16,561
Water .....	...	...	47,017	...	47,797
Iron oxide	ton	9,385	69,899	10,090	77,440
Sulphuric acid, 66° Be	lb.	55,052,729	455,986	58,777,013	491,402
All other materials .....	...	...	429,273	...	657,529
TOTAL COST .....	...	...	34,709,159	...	39,904,780

Table 9 - MATERIALS USED IN COKE AND GAS PLANTS, BY AREAS, 1947

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	623,141	4,243,902	5,554	52,956	439,138	2,735,623
(b) Imported	ton	583,433	5,130,794	2,947,649	23,647,474	1,737	21,886
Bituminous coal for making water gas -							
(a) Canadian	ton	...	...	...	...	...	...
(b) Imported	ton	162	1,782	6,697	67,123	335	3,782

Table 9 - MATERIALS USED IN COKE AND GAS PLANTS, BY AREAS, 1947 (concluded)

Material	Unit of measure	Eastern Provinces		Ontario		Western Provinces	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Coke for gas-making -							
(a) Purchased	ton	5,292	79,380	7,127	89,255	2,451	26,642
(b) Companies' own make	ton	16,661	181,385	68,060	700,646	26,466	200,764
Oil used for enriching							
water gas	Imp.gal.	1,928,951	190,623	10,156,907	898,077	2,971,083	284,364
Absorbing and wash oil ...	Imp.gal.	86,240	12,074	126,864	17,514	35,700	3,630
Caustic soda	pound	468,085	14,286	555,316	10,089	...	...
Lime	ton	1,105	15,788	81	765	...	8
Water .....	...	...	10,164	...	8,239	...	29,394
Iron oxide	ton	4,496	27,231	5,094	41,371	500	8,838
Sulphuric acid, 66° Be ...	pound	19,377,834	161,708	39,399,179	329,694	...	...
All other materials .....	...	...	220,528	...	407,603	...	29,398
TOTAL COST .....	...	...	10,289,645	...	26,270,806	...	3,344,329

Table 10 - PRODUCTS MADE IN COKE AND GAS PLANTS, 1946 and 1947

Product	Unit of measure	1946		1947	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
Gas Made -					
Retort coal gas	M cu.ft.	9,744,357	...	9,899,523	...
Coke oven gas	M cu.ft.	42,471,460	...	45,770,402	...
Producer gas	M cu.ft.	1,337,275	...	1,364,332	...
Water gas	M cu.ft.	7,101,932	...	7,768,204	...
Propane, butane and oil gas	M cu.ft.	118,012	...	208,215	...
TOTAL GAS MADE	M cu.ft.	60,773,036	...	65,010,676	...
Gas Sold or Used -					
Gas sold	M cu.ft.	22,503,927	20,916,981	22,947,000	22,435,440
Gas used in own coke or gas plants .	M cu.ft.	18,299,361	2,302,714	17,862,758	2,663,788
Gas used in associated metallurgical works	M cu.ft.	18,257,178	1,662,323	22,673,155	2,213,138
Gas otherwise accounted for but not sold	M cu.ft.	222,902	63,358	273,097	91,664
Gas not accounted for	M cu.ft.	1,782,056	985,693	2,117,299	995,421
TOTAL GAS SOLD OR USED	M cu.ft.	61,065,424	25,931,069	65,873,309	28,399,451
Coke Made -					
Coke from by-product or bee-hive ovens	ton	2,857,600	29,005,738	2,973,026	35,448,565
Coke from gas retorts	ton	259,166	2,848,316	261,080	2,964,387
Coke breeze from by-product ovens	ton	240,589	782,211	277,195	912,191
Coke breeze from gas retorts	ton	5,754	39,865	2,850	14,748
TOTAL COKE	ton	3,363,109	32,676,130	3,514,151	39,339,891
Other Products -					
Tar	Imp.gal.	33,043,844	1,987,375	32,575,317	2,548,138
Ammonia liquor	lb.NH ₃	1,559,320	17,081	1,482,835	14,828
Ammonium sulphate	pound	60,949,463	865,322	66,001,762	1,027,992
Benzol	Imp.gal.	5,776,019	818,315	5,780,254	1,124,537
Toluol, xylol and naphthalene	Imp.gal.	671,922	188,086	1,035,200	283,111
All other products .....	...	...	99,097	...	94,774
GRAND TOTAL .....	...	...	62,582,475	...	72,832,722

Table 11 - PRODUCTS MADE IN COKE AND GAS PLANTS, BY AREAS, 1947

		Eastern Provinces		Ontario		Western Provinces	
Product	Unit of measure	Quantity	Gross selling value at works	Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$		\$
Gas Made -							
Retort coal gas	M cu.ft.	5,590,396	...	4,075,074	...	234,053	...
Coke oven gas	M cu.ft.	14,157,149	...	28,591,752	...	3,021,501	...
Producer gas	M cu.ft.	1,364,332	...	...	...	...	...
Water gas	M cu.ft.	820,057	...	5,523,454	...	1,424,693	...
Propane, butane and oil gas	M cu.ft.	46,093	...	160,366	...	1,756	...
TOTAL GAS MADE	M cu.ft.	21,978,027	...	38,350,646	...	4,682,003	...
Gas Sold or Used -							
Gas sold	M cu.ft.	7,442,683	7,790,851	11,787,278	10,865,652	3,717,039	3,778,937
Gas used in own plants	M cu.ft.	5,656,302	839,528	11,624,488	1,747,895	581,968	76,365
Gas used in associated metallurgical works .	M cu.ft.	9,312,836	706,736	13,214,319	1,499,102	146,000	7,300
Gas otherwise accounted for but not sold	M cu.ft.	2,586	1,495	270,438	90,023	73	146
Gas not accounted for.	M cu.ft.	410,369	174,033	1,474,218	692,787	232,712	128,601
TOTAL GAS SOLD OR USED	M cu.ft.	22,824,776	9,512,643	38,370,741	14,895,459	4,677,792	3,991,349
Coke Made -							
Coke from by-product or bee-hive ovens	ton	809,723	9,751,608	1,888,973	23,051,570	274,330	2,645,387
Coke from gas retorts..	ton	48,343	660,245	203,781	2,225,881	8,956	78,261
Coke breeze from by-product ovens	ton	72,211	396,707	180,571	470,148	24,413	45,336
Coke breeze from gas retorts	ton	1,748	9,107	319	1,034	783	4,607
TOTAL COKE MADE	ton	932,025	10,817,667	2,273,644	25,748,633	308,482	2,773,591
Other Products -							
Tar	Imp.gal.	8,718,626	617,126	21,493,440	1,763,673	2,363,251	167,339
Other products .....	...	...	617,524	...	1,901,938	...	25,780
GRAND TOTAL .....	...	...	21,564,960	...	44,309,703	...	6,958,059

Table 12 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE (x), 1938 -1947

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 \$
	(short tons)		(short tons)		(short tons)	
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
1947	3,250,221	36,360,756	263,930	2,979,135	3,514,151	39,339,891

(x) Includes coke breeze.

Table 13 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY PROVINCES, 1938-1947

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
	(short tons)	\$	(short tons)	\$	(short tons)	\$	(short tons)	\$
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
1947	932,025	10,817,667	2,273,644	25,748,633	308,482	2,773,591	3,514,151	39,339,891

Table 14 - BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE SOLD AND USED BY PRODUCERS DURING 1946 and 1947, and STOCKS ON HAND AT END OF YEAR

	Own Make		Purchased	
	Coke	Breeze	Coke	Breeze
	(Short tons)			
<u>1 9 4 6</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
<u>1 9 4 7</u>				
Coke actually used by reporting companies -				
In coke or gas plant (for fuel, water gas and producer gas)	343,361	31,432	14,881	21,125
In iron blast furnaces	1,690,176	...	97,227	...
In other associated works	46,710	75,923	...	...
Coke sold -				
(a) Direct to consumers:				
For domestic use	109,476	20,088	352	2,490
For other uses	616,537	106,042	41,220	16,231
(b) To dealers for resale	462,900	14,898	21,114	975
(c) For export	78,241	27,672	...	184
TOTAL SOLD OR USED	3,347,401	276,055	174,794	41,005
Stocks of coke on hand at the end of 1947..	61,796	192,309	12,002	6,555

Note: The above figures on consumption and sales by the producers include 44,000 tons in 1946 and 50,000 tons of imported coke in 1947. Duplication because of interplant sales has been eliminated in each year.

Table 15 - COAL CARBONIZED, COKE PRODUCED, AND DISTRIBUTION OF COKE BY MANUFACTURERS, 1947

	Bee-hive and by-product plants	Gas retort plants (tons)	Total for coke producing plants
Coal carbonized -			
Canadian	1,030,659	37,174	1,067,833
Imported	3,183,285	386,728	3,570,013
TOTAL	4,213,944	423,902	4,637,846
Coke made -			
Coke	2,973,026	261,080	3,234,106
Breeze	277,195	2,850	280,045
TOTAL	3,250,221	263,930	3,514,151
Coke yield % ..	77.1	62.0	75.8
Coke used in coke or gas plants -			
Coke	154,681	203,561	358,242
Breeze	46,824	5,733	52,557
TOTAL	201,505	209,294	410,799
Coke used in associated works -			
Coke	1,798,299	35,814	1,834,113
Breeze	75,923	...	75,923
TOTAL	1,874,222	35,814	1,910,036
Coke sold direct to consumers for domestic use -			
Coke	85,954	23,874	109,828
Breeze	19,753	2,825	22,578
TOTAL	105,707	26,699	132,406
Coke sold direct to consumers for other uses -			
Coke	657,468	289	657,757
Breeze	121,651	622	122,273
TOTAL	779,119	911	780,030
Coke sold to dealers for resale -			
Coke	480,255	3,759	484,014
Breeze	15,873	...	15,873
TOTAL	496,128	3,759	499,887
Coke sold for export -			
Coke	78,214	27	78,241
Breeze	27,856	...	27,856
TOTAL	106,070	27	106,097
TOTAL COKE SOLD AND USED -			
Coke	3,254,871	267,324	3,522,195
Breeze	307,880	9,180	317,060
TOTAL	3,562,751	276,504	3,839,255
Stocks on December 31, 1947 - Coke	40,573	33,225	73,798
Breeze	198,690	174	198,864
TOTAL	239,263	33,399	272,662

Note: The above figures on consumption and sales include 50,000 tons of imported coke.

Table 16 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY MONTHS, 1943-1947

Month	1943	1944	1945	1946	1947
	(000's of short tons)				
January	232	345	341	316	338
February	250	331	314	299	289
March	276	356	342	338	308
April	268	338	326	283	282
May	278	343	333	275	285
June	266	328	324	294	270
July	308	322	329	203	267
August	314	328	329	199	276
September	326	320	318	195	286
October	349	331	310	271	280
November	339	329	384	320	297
December	345	347	362	370	336
TOTAL	3,551	4,018	3,912	3,363	3,514
Monthly Average	296	335	326	280	293

Table 17 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, 1938-1947

Year	Bee-hive and by-product ovens		Gas retorts		T O T A L
	Canadian	Imported	Canadian	Imported (x)	
			(tons)		
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
1947	1,030,659	3,183,285	37,174	356,728	4,607,846

(x) 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; 6,702 tons in 1946, and 7,194 tons in 1947.

Table 18 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, BY PROVINCES, 1938-1947

Year	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		T O T A L
	Canadian	Imported	Canadian	Imported (x)	Canadian	Imported	
					(Tons)		
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	836	4,451,580
1947	623,141	583,595	5,554	2,954,346	439,138	2,072	4,607,846

(x) See footnote to Table 17.

Table 19 - PRODUCTION OF PETROLEUM COKE, 1938-1947

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
					\$	
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
1947	1,089	7,075	77,036	591,140	78,125	598,215

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

Table 20 - TOTAL PRODUCTION OF COKE (Including Petroleum and Pitch Coke) IN CANADA, 1944-1947

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
1 9 4 4						
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

Table 20 - TOTAL PRODUCTION OF COKE (Including Petroleum and Pitch Coke) IN CANADA, 1944-1947 (concluded)

		Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
<u>1945</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>1946</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
<u>1947</u>						
Coke and gas industry	Tons	469,927	462,098	2,273,644	308,482	3,514,151
	\$	5,104,537	5,713,130	25,748,633	2,773,591	39,339,891
Petroleum refining industry	Tons	392	1,270	72,471	3,992	78,125
	\$	1,027	7,366	568,185	21,637	598,215
Pitch coke	Tons	3,002	691	10,018	286	13,997
	\$	33,604	8,397	98,190	4,154	144,345
TOTAL	Tons	473,321	464,059	2,356,133	312,760	3,606,273
	\$	5,139,168	5,728,893	26,415,008	2,799,382	40,082,451

Table 21 - APPARENT CONSUMPTION OF COKE (Including Petroleum and Pitch Coke) IN CANADA, BY PROVINCES, 1941 - 1947

	Prince Edward Island, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
(Tons)					
Apparent consumption - 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
1945	597,133	830,186	3,740,930	268,216	5,436,465
<u>1946</u>					
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
<u>1947</u>					
Production	473,321	464,059	2,356,133	312,760	3,606,273
Add decline or deduct increase in producers' stocks	+14,293	+2,165	+76,953	+1,462	+94,873
	487,614	466,224	2,433,086	314,222	3,701,146
Add - Imports entered for consumption	14,232	212,279	571,300	34,478	832,289
	501,846	678,503	3,004,386	348,700	4,533,435
Deduct - Exports and re-exports	2,924	2,571	64,761	65,365	135,621
APPARENT CONSUMPTION	498,922	675,932	2,939,625	283,335	4,397,814

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

Table 22 - QUANTITY OF COKE IN THE HANDS OF THE PRODUCERS AT THE END OF 1946 and 1947

Province	1 9 4 6			1 9 4 7			Difference 1947 from 1946
	Petroleum refineries	Coke and gas plants	TOTAL	Petroleum refineries	Coke and gas plants	TOTAL	
(Tons)							
Nova Scotia .....	...	19,821	19,821	...	5,524	5,524	-14,297
New Brunswick .....	...	4	4	...	8	8	+ 4
Quebec	512	23,027	23,539	442	20,932	21,374	-2,165
Ontario	4,503	297,145	301,648	3,333	221,362	224,695	-76,953
Manitoba .....	...	2,558	2,558	...	4,434	4,434	+ 1,876
Saskatchewan	3,687	...	3,687	1,540	...	1,540	-2,147
Alberta .....	...	...	...	...	...	...	...
British Columbia ...	161	21,432	21,593	...	20,402	20,402	-1,191
TOTAL	8,863	363,987	372,850	5,315	272,662	277,977	-94,873

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

Table 23 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL AREAS, 1943 - 1946

	Prince Edward Island, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	CANADA
(Tons)					
1 9 4 3					
Furnace charges	395,885	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	286,994	705,147	114,528	1,232,854
APPARENT CONSUMPTION	557,986	818,429	3,028,986	297,466	4,702,837
1 9 4 4					
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
1 9 4 5					
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
1 9 4 6					
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 24 - SALES OF COKE BY RETAIL FUEL DEALERS, CALENDAR YEARS, 1946 and 1947

	1 9 4 6	1 9 4 7
	(Tons)	
(a) <u>By Areas</u>		
Prince Edward Island	9,175	5,009
Nova Scotia	61,447	45,888
New Brunswick	23,470	11,106
TOTAL MARITIMES	94,092	62,003
Montreal area	149,002	134,747
Quebec area	7,237	5,083
Kingston area	21,212	7,912
Northern area (Northern Quebec and Northeastern Ontario)	13,051	19,881
Ottawa area	60,354	41,770
Toronto area	602,201	244,623
Western area (Northwestern Ontario)	17,819	14,286
Windsor area	184,107	91,810
TOTAL QUEBEC AND ONTARIO	1,054,983	560,112
Manitoba	52,189	55,563
Saskatchewan	373	875
Alberta	28	...
British Columbia	Not available	Not available
TOTAL WESTERN PROVINCES	52,590	56,438
CANADA	1,201,665	678,553

(b) By Selected Cities

Halifax	29,580	22,762
Saint John	8,802	1,922
Montreal	128,334	118,121
Quebec	4,392	2,518
Toronto	277,513	92,834
Hamilton	95,139	51,193
Winnipeg	50,561	53,812
Regina	193	423
Saskatoon	57	87
Calgary	28	...
Edmonton .....	...	...

Table 25 - SALES (a) OF PETROLEUM COKE IN CANADA, 1946 and 1947

Area and Year	For Domestic and Industrial heating	For Manufacturing Purposes, as Material (Short Tons)	T O T A L
1 9 4 7			
Maritimes	412	...	412
Quebec	1,371	171,052	172,423
Ontario	23,500	106,670	130,170
Manitoba	3,662	21	3,683
Saskatchewan	1,786	...	1,786
Alberta and Northwest Territories	...	...	...
British Columbia and Yukon	97	2	99
TOTAL, 1947	30,828	277,745	308,573
TOTAL, 1946	24,193	242,431	266,624

(a) As reported by Refiners and Distributors.

Table 26 - INVENTORIES OF PETROLEUM COKE IN CANADA, AS AT DECEMBER 31, 1946 - 1947

Area and Year	Held by Suppliers(a)	Held by Consumers(b) (Short tons)	TOTAL
<u>1947</u>			
Maritimes .....	...	1	1
Quebec	525	101,591	102,116
Ontario	3,821	36,930	40,751
Manitoba .....	...	2	2
Saskatchewan	1,592	...	1,592
Alberta and Northwest Territories	...	...	...
British Columbia and Yukon	442	...	442
TOTAL, 1947	6,380	138,524	144,904
TOTAL, 1946	2,768	113,758	116,526

(a) Suppliers = Refiners and Distributors.

(b) Consumers = Industrial Users.

Table 27 - PRODUCTION AND SALES OF MANUFACTURED GAS BY THE COKE AND GAS INDUSTRY, 1938-1947

Year	From By-product and Gas Plants			Production of still gas from petroleum refineries M cu.ft.
	Production (*) M cu.ft.	S a l e s		
		Quantity M cu.ft.	Income from sales \$	
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
1947	65,873,309	22,947,000	22,435,440	11,400,531

(*) 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 28 - SALES OF MANUFACTURED AND NATURAL GAS IN CANADA, 1946 and 1947 (As reported by Distributors)

	1946			1947		
	Number of customers	Quantity sold M cu.ft.	Revenue from sales \$	Number of customers	Quantity sold M cu.ft.	Revenue from sales \$
Manufactured Gas -						
Domestic	507,717	12,365,931	13,997,670	530,823	12,750,330	14,863,605
House heating	6,404	1,746,316	958,361	5,427	2,013,451	1,161,374
Industrial	3,619	4,622,445	2,582,478	8,122	4,813,764	3,259,044
Commercial	30,160	3,741,153	3,362,839	25,833	3,580,431	3,276,999
Miscellaneous	133	16,319	88,224	123	15,883	64,537
TOTAL	548,033	22,492,164	20,989,572	570,328	23,173,859	22,625,559
Natural Gas -						
Domestic	203,941	17,398,813	8,082,941	195,555	19,561,089	8,936,875
Industrial	1,196	7,711,571	1,774,132	1,232	11,486,678	2,063,933
Commercial	12,646	7,834,497	2,094,600	13,146	8,637,814	2,296,257
Miscellaneous (x) .	453	241,264	108,540	441	148,830	30,508
TOTAL	218,236	33,186,145	12,060,213	210,374	39,834,411	13,327,573
TOTAL -- ALL GAS .	766,269	55,678,309	33,049,785	780,702	63,008,270	33,953,132

NOTE: The sales figures for manufactured gas as recorded in this table differ slightly from those given in Table 27 because they represent sales by distributing companies to consumers. Some petroleum refinery gas was treated and distributed by the natural gas companies.

(x) Includes some free customers.

Table 29 - PRODUCTION OF CRUDE COAL TAR, BY PROVINCES, 1945-1947

Province	1 9 4 5	1 9 4 6	1 9 4 7
		(Imperial gallons)	
Nova Scotia and New Brunswick	7,892,890	6,437,817	5,218,655
Quebec	3,498,476	3,467,615	3,499,971
Ontario	24,530,863	20,957,181	21,493,440
Manitoba	479,013	473,564	450,631
British Columbia	1,593,884	1,707,667	1,912,620
CANADA	37,995,126	33,043,844	32,575,317

Table 30 - PRODUCTION, IMPORTS AND EXPORTS OF AMMONIUM SULPHATE, 1938-1947

Year	Production (a)		Imports		Exports	
	Tons	\$	Tons	\$	Tons	\$
1938	119,520	2,590,994	5,911	156,540	77,191	1,697,204
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
1947	196,825	6,614,419	124	12,371	158,975	5,356,757

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

DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1947

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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1. COKE PLANTS

By-Product Ovens

Dominion Steel and Coal Corp. Ltd., Sydney, N.S.	In Use - 180 Koppers horizontal ovens (813,000 tons)
Montreal Coke & Manufacturing Co., (Quebec Hydro-Electric Commission)(b) 435 St. Patrick St., Ville LaSalle, Quebec	In Use - 74 Koppers Becker type horizontal ovens (560,275 tons) 4 Koppers Kerpely Ring type producers (12,702,000 M cu.ft.) In Reserve or Idle - 5 Water Gas sets (8,000,000 M cu.ft.)
Algoma Steel Corporation Ltd. (Great Northern Gas Co. Ltd.)(b) Sault Ste. Marie, Ontario	In Use - 103 Wilputte ovens (660,000 tons) and 141 Koppers ovens (1,101,425 tons)
Hamilton By-product Coke Ovens, Ltd. (United Gas & Fuel Co. Ltd.) Hamilton, Ontario	In Use - 25 Semet-Solvay ovens (175,000 tons), and 35 Wilputte ovens (240,000 tons); 1 Carbureted Water Gas set (900,000 M cu.ft.); 3 Propane Vaporizers (900,000 M cu.ft.)
Ontario Coke Ovens Division, Hamilton By-Product Coke Ovens, Ltd., Hamilton, Ontario	In Use - 54 Curran-Knowles Sole Flue Type (328,500 tons) In Reserve or Idle - 4 Calusha Cleveland Ohio Producers (6,307 M cu.ft.)
Public Utilities Commission, Owen Sound, Ontario	In Use - 3 Curran-Knowles ovens (12,775 tons)

DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1947 (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.)
1. COKE PLANTS (concluded)	
<u>By-product Ovens</u>	
Steel Company of Canada, Limited, Hamilton, Ontario	<u>In Use</u> - 141 Wilputte ovens (850,000 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> - 33 Intermittent Chamber ovens (96,320 tons); 3 Internal and 3 External mechanical producers for chamber oven plants; 2 water gas generators (1,095,000 M cu.ft.); 1 C.W. Gas Unit (1,642,000 M cu.ft.) <u>In Reserve or Idle</u> - 40 continuous vertical retorts (47,000 tons); 1 C.W. Gas generator (365,000 M cu.ft.)
<u>Beehive Ovens</u>	
International Coal & Coke Co. Ltd., Coleman, Alta.	<u>In Use</u> - 104 beehive ovens (109,500 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> - 194 beehive ovens (106,700 tons); 20 by-product ovens (80,000 tons) <u>In Reserve or Idle</u> - 644 beehive ovens (354,000 tons)
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.	
2. <u>ILLUMINATING AND FUEL GAS PLANTS</u>	
<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 (4,057 tons) <u>In Reserve or Idle</u> - 6 Russell horizontal retorts (1,550 tons)
Shawinigan Chemicals Ltd., Shawinigan Falls, Quebec	8 chemical type coking stokers of own design (240,000 tons)
City of Sherbrooke Gas and Electricity Dept. (a) Sherbrooke, Quebec	<u>In Use</u> - 1 Lowe 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 Western Gas water gas set (1,700 M cu.ft.); 2 U.G.I. water gas sets (2,700 M cu.ft.)

DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1947 (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)
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2. ILLUMINATING AND FUEL GAS PLANTS (concluded)

Retort Coal Gas and Carbureted Water Gas (concluded)

Board of Light & Heat Commission (a)(b) Guelph, Ontario	<u>In Use</u> - 6 Glover-West vertical continuous retorts (10,000 tons); 1 Shell Lowe carbureted water gas set (300 M cu.ft.) <u>In Reserve or Idls</u> - 2 Glover-West vertical ovens (3,600 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); 10 Lowe Principal water gas sets (8,212 M cu.ft.)
Belleville Public Utilities Commission (b) Belleville, Ontario	<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 (500 M cu.ft.) <u>In Reserve or Idle</u> - 1 water gas set (250 M cu.ft.)
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.)
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), Kitchener, Ontario; (Public Utilities Commission)(a), Waterloo, Ontario.	<u>In Use</u> - 1 Merrifield water gas set (361,350 M cu.ft.) <u>In Reserve or Idle</u> - 1 Merrifield water gas set (361,350 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)
The Manitoba Power Commission (b), Brandon, Manitoba	<u>In Use</u> - 24 Retorts (27,740 tons)
Victoria Gas Company, Ltd. (a)(b), Victoria, B.C.	<u>In Use</u> - 16 Glover-West vertical retorts (16,352 tons); 1 Power Gas Corp. Water Gas set (468,000 M cu.ft.) <u>In Reserve or Idle</u> - 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> - 10 horizontal retorts (2,150 tons) <u>In Reserve or Idle</u> - 4 horizontal retorts (850 tons)

Propane Gas

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

NOTE: Name of gas distributing companies in brackets.

(a) Indicates that carbureted water gas was distributed.

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

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