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GOVERNMENT OF CANADA

THE COKE AND GAS INDUSTRY
1951



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THE COKE AND GAS INDUSTRY
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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries, **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50.
- II—The Manufacturing Industries, by Provinces
 - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢.
 - Section 2. Principal Statistics of Individual Industries, 75¢.
 - Section 3. Principal Statistics by Regional Distribution, 75¢.
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XV, Products of Petroleum and Coal. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢.
- B—The Coke and Gas Industry, 25¢.
- C—The Petroleum Products Industry, 25¢.

THE COKE AND GAS INDUSTRY

1951

Production from coke plants and illuminating and fuel gas plants in Canada was valued at \$110,609,519 in 1951, an increase of 5.7 per cent over the \$104,609,907 reported for 1950. Output included 3,931,626 tons of coke valued at \$59,848,832 at the works, 77,237,355 M cubic feet of gas valued at \$39,581,174, and by-products valued at \$11,179,513

Twenty-six coke and gas works operated in 1951 including 10 by-product and bee-hive plants, 9 retort coal and water gas plants, and 7 plants which distributed propane through the regular gas mains. Thirteen of these works were located in Ontario, 5 in Quebec, 4 in British Columbia, 2 in Nova Scotia and 1 each in Manitoba and Alberta. In addition to these producers, 1 company in Quebec and 3 in Ontario purchased gas to be distributed for domestic or commercial use. Data covering their operations have been included to round out the figures for the industry. Figures on the distribution of propane in cylinders are not included.

Output of coke from gas retorts, by-product and bee-hive ovens totalled 3,931,626 tons in 1951 compared with 3,964,676 tons in 1950 and 3,864,603 tons in 1949. By-product and bee-hive ovens produced 3,691,482 tons of coke in 1951 and gas retorts made 240,144 tons. In addition, 164,689 tons of petroleum coke were recovered in petroleum refineries and 13,673 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 107,348 tons were sold direct to domestic consumers; 2,305,886 tons were used in associated works operated by the producing companies; 387,340 tons

were used by coke plants as fuel or to make water gas; 807,704 tons were sold direct to consumers for foundry and other uses (other than domestic); 362,462 tons were sold to dealers for resale; and 151,253 tons were sold for export. Total stocks of coke in the hands of producers amounted to 148,128 tons at the end of 1951.

Imports into Canada of coke made from coal increased to 603,257 tons in 1951 from 337,904 tons in 1950, and exports (including re-exports of imported coke) decreased to 161,917 tons from 346,871 tons. Imports of petroleum coke during this period increased to 353,397 tons from 304,149 tons and exports (including re-exports of imported coke) decreased to 58,866 tons from 73,076 tons.

Manufactured gas, sold and used, amounted to 77,237,355 M cubic feet in 1951 including 55,594,920 M cubic feet from by-product ovens and 21,642,435 M cubic feet from gas plants. Sales of gas by the producers totalled 25,959,987 M cubic feet of which 15,694,922 M cubic feet were from by-product ovens and 10,265,065 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 44,002 M cubic feet of (Pintsch) oil gas for lighting railway cars, 17,642,679 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 as of December 31, 1951, was 579,031 and the length of distributing mains was 4,257 miles.

TABLE 1. Distribution of Coke and Gas Manufacturing Plants, by Provinces, 1951

Province	Coke plants ¹	Gas plants				Total
	By-product and bee-hive ovens	Retort coal gas only	Water gas only	Retort coal gas and water gas	Propane gas ²	
Nova Scotia	1	1	—	—	—	2
Quebec	1	1	1	—	2	5
Ontario	4	1	2	2	4	13
Manitoba	1	—	—	—	—	1
Alberta	1	—	—	—	—	1
British Columbia	2	—	—	1	1	4
Canada	10	3	3	3	7	26

1. 8 by-product only, 1 bee-hive only, and 1 both by-product and bee-hive.

2. Distributed through regular town or city gas mains; distribution in cylinders not included.

TABLE 2. Principal Statistics of the Coke and Gas Industry, 1947-1951

Year	Number of companies ¹	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	Net ³ value of production
			\$	\$	\$	\$	\$
COKE (By-product and bee-hive)							
1947	14	3,116	7,110,583	5,709,507	34,294,862	58,211,622	18,207,253
1948	12	3,241	8,413,757	6,805,745	47,403,740	79,760,295	25,565,810
1949	12	3,191	9,020,542	6,747,616	46,448,845	79,113,576	25,917,115
1950	12	3,164	9,036,053	8,169,467	50,172,731	66,937,374	28,595,176
1951	13	3,223	10,107,153	6,204,473	50,853,832	91,100,110	34,041,805
GAS (Retort and water gas)							
1947	20	1,893	3,701,529	1,470,341	5,609,918	14,621,100	7,540,841
1948	19 ²	1,942	4,290,625	1,409,344	7,477,057	17,247,399	8,360,998
1949	18 ²	1,948	4,620,682	1,275,825	7,614,227	17,820,930	8,930,878
1950	18 ²	1,957	4,831,719	1,260,792	7,889,371	17,672,533	8,522,370
1951	17	1,764	4,762,111	919,422	8,661,724	19,509,409	9,928,263
TOTAL - Coke and gas							
1947	34	5,009	10,812,112	7,179,848	39,904,780	72,832,722	25,748,094
1948	31 ²	5,183	12,704,382	8,215,089	54,885,797	97,027,694	33,926,808
1949	30 ²	5,139	13,641,224	8,023,441	54,063,072	96,934,506	34,847,993
1950	30 ²	5,121	13,867,772	9,430,259	58,062,102	104,609,907	37,117,546
1951	30 ²	4,987	14,869,264	7,123,895	59,515,556	110,609,519	43,970,068

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.

1. The number shown for by-product and bee-hive ovens includes 3 companies which did not produce coke or gas but which purchased gas from the manufacturers and distributed it to customers; similarly, the numbers 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, 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.

2. Includes firms which distributed propane gas through regular gas mains.

3. Gross value less cost of materials, fuel and electricity.

TABLE 3. Principal Statistics of the Coke and Gas Industry, by Provinces, 1950 and 1951

Province	Number of companies	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
			\$	\$	\$	\$
1950						
Newfoundland and Nova Scotia	3	521	1,400,043	849,900	7,152,291	12,860,586
Quebec	6	678	2,503,726	3,405,961	8,778,505	17,631,345
Ontario	15	3,082	8,323,015	4,392,758	38,241,919	65,240,739
Manitoba and Alberta	2	640	1,640,988	781,640	3,889,387	8,877,237
British Columbia	4					
Canada	30	5,121	13,867,772	9,430,259	58,062,102	104,609,907
1951						
Quebec	6	916	2,891,498	1,855,335	9,868,335	20,222,239
Ontario	16	2,975	8,916,748	3,629,582	38,542,416	67,358,509
British Columbia	4	414	1,111,629	472,941	2,866,904	7,000,027
Manitoba, Alberta and Nova Scotia	4	682	1,949,389	1,166,037	8,237,901	16,028,744
Canada	30	4,987	14,869,264	7,123,895	59,515,556	110,609,519

TABLE 4. Products Made in Coke and Gas Plants, 1950 and 1951

Product	Unit of measure	1950		1951	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
Gas made:					
Retort coal gas	M cu. ft.	10,744,310	—	13,781,843	—
Coke oven gas	"	52,695,066	—	51,326,888	—
Producer gas	"	1,406,331	—	1,047,589	—
Water gas	"	9,195,640	—	10,067,177	—
Propane, butane and oil gas	"	871,038	—	1,263,325	—
Total gas made	"	74,912,985	—	77,486,822	—
Gas sold or used:					
Gas sold	M cu. ft.	25,574,110	28,044,761	25,959,987	29,087,074
Gas used in own coke or gas plants	"	20,059,060	4,229,529	17,263,382	3,486,934
Gas used in associated works	"	27,132,277	4,786,213	31,036,873	5,307,912
Gas otherwise accounted for but not sold	"	393,457	182,319	391,181	209,070
Gas not accounted for	"	2,809,346	704,188	2,583,932	1,490,184
Total gas sold or used	"	75,968,250	37,947,010	77,237,355	39,581,174
Coke made:					
Coke from by-product or bee-hive ovens	ton	3,476,393	52,326,524	3,440,749	55,178,801
Coke from gas retorts	"	242,477	3,231,244	238,250	3,353,204
Coke breeze from by-product ovens	"	243,571	1,422,673	250,733	1,296,227
Coke breeze from gas retorts	"	2,235	3,580	1,894	20,600
Total coke	"	3,964,676	56,984,021	3,931,626	59,848,832
Other products:					
Tar	Imp. gal.	40,428,463	4,234,850	40,512,373	4,692,817
Ammonium sulphate	pound	81,796,934	1,582,734	76,161,730	1,606,175
Benzol	Imp. gal.	7,187,037	2,291,745	7,560,515	3,040,833
Toluol, xylol and naphthalene	Imp. gal.	1,707,322	634,781	1,830,041	803,691
All other products	—	—	934,766	—	1,035,997
Grand total	—	—	104,609,907	—	110,609,519

TABLE 5. Products Made in Coke and Gas Plants, by Areas, 1951

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
			\$		\$		\$
Gas made:							
Retort coal gas	M cu. ft.	10,763,352	—	2,858,815	—	159,676	—
Coke oven gas	"	15,624,531	—	32,287,998	—	3,414,359	—
Producer gas	"	1,047,589	—	—	—	—	—
Water gas	"	1,468,886	—	6,148,123	—	2,450,168	—
Propane, butane and oil gas	"	156,722	—	930,620	—	175,983	—
Total gas made	"	29,061,080	—	42,225,556	—	6,200,186	—
Gas sold or used:							
Gas sold	M cu. ft.	8,239,149	9,183,775	13,447,033	15,170,154	4,273,805	4,733,145
Gas used in own plants	"	4,592,365	849,122	11,233,344	2,493,303	1,437,673	144,509
Gas used in associated works	"	15,553,776	1,539,253	15,192,866	3,753,771	292,231	14,888
Gas otherwise accounted for but not sold	"	73,972	85,289	315,264	121,350	1,945	2,431
Gas not accounted for	"	511,110	210,133	1,877,253	1,167,749	195,569	112,302
Total gas sold or used	"	28,970,372	11,867,572	42,065,760	22,706,327	6,201,223	5,007,275
Coke made:							
Coke from by-product or bee-hive ovens	ton	994,091	16,920,030	2,169,965	34,801,881	276,693	3,456,890
Coke from gas retorts	"	79,402	1,400,095	153,102	1,904,843	5,746	48,266
Coke breeze from by-product ovens	"	85,965	664,985	143,646	544,022	21,122	87,220
Coke breeze from gas retorts	"	750	19,050	129	696	1,015	254
Total coke made	"	1,160,208	19,004,760	2,466,842	37,251,442	304,576	3,592,630
Other products:							
Tar	Imp. gal.	13,578,333	1,451,811	23,818,523	2,906,825	3,115,517	334,181
Other products	—	—	1,970,649	—	4,493,915	—	22,132
Grand total	—	—	34,294,792	—	67,358,509	—	8,956,218

TABLE 6. Materials Used in Coke and Gas Plants, 1950 and 1951

Material	Unit of measure	1950		1951	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal carbonized in ovens or retorts:					
(a) Canadian	ton	1,297,912	10,142,559	1,290,745	10,069,874
(b) Imported	"	3,964,424	41,258,627	3,963,571	41,921,089
Bituminous coal for making water gas:					
(a) Canadian	—	—	—	—	—
(b) Imported	ton	3,576	46,792	3,510	44,469
Coke for gas-making:					
(a) Purchased	ton	13,070	230,280	11,530	208,808
(b) Companies' own make	"	144,316	1,624,519	145,392	1,895,549
Oil used for enriching water gas	Imp. gal.	17,349,708	2,052,535	18,526,065	2,203,951
Absorbing and wash oil	Imp. gal.	336,435	70,633	475,663	85,919
Caustic soda	lb.	1,301,671	39,966	1,534,078	44,469
Lime	ton	1,030	16,096	525	6,925
Water	—	—	63,312	—	56,985
Iron oxide	ton	11,624	114,138	10,310	105,709
Sulphuric acid, 100%	lb.	69,756,085	795,286	64,015,905	820,596
Propane	Imp. gal.	5,798,565	710,548	10,193,174	1,298,086
All other materials	—	—	256,808	—	753,107
Total cost	—	—	58,062,102	—	59,515,556

TABLE 7. Materials Used in Coke and Gas Plants, by Areas, 1951

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	881,739	7,295,871	—	—	409,006	2,774,003
(b) Imported	"	664,398	7,864,291	3,294,652	33,897,116	4,521	59,682
Bituminous coal for making water gas:							
(a) Canadian	—	—	—	—	—	—	—
(b) Imported	ton	—	—	3,510	44,489	—	—
Coke for gas-making:							
(a) Purchased	"	5,848	114,316	3,944	69,552	1,738	24,940
(b) Companies' own make	"	21,448	410,585	82,644	1,136,121	41,300	348,843
Oil used for enriching water gas	Imp. gal.	3,644,701	443,227	10,244,061	1,504,793	4,637,303	355,931
Absorbing and wash oil	Imp. gal.	110,999	22,384	202,810	51,050	161,854	12,485
Caustic soda	pound	953,211	29,325	580,867	15,144	—	—
Lime	ton	362	4,685	173	2,240	—	—
Water	—	—	5,487	—	32,929	—	18,569
Iron oxide	ton	5,193	40,768	4,201	45,630	916	19,311
Sulphuric acid, 100%	pound	22,306,694	289,318	41,709,211	531,278	—	—
All other materials	—	—	631,445	—	1,212,074	—	207,674
Total cost	—	—	17,151,702	—	38,542,416	—	3,821,438

TABLE 8. Production of Bee-Hive, By-Product and Gas Retort Coke¹, 1942-1951

Year	By-product and bee-hive coke		Gas retort coke		Total	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
	Short tons	\$	Short tons	\$	Short tons	\$
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	2,509,410	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
1948	3,678,818	51,298,584	266,958	3,364,867	3,945,776	54,663,451
1949	3,599,121	50,303,356	265,482	3,063,609	3,864,603	53,366,965
1950	3,719,964	53,749,197	244,712	3,234,824	3,964,676	56,984,021
1951	3,691,482	56,475,028	240,144	3,373,804	3,931,626	59,848,832

¹. Includes coke breeze.

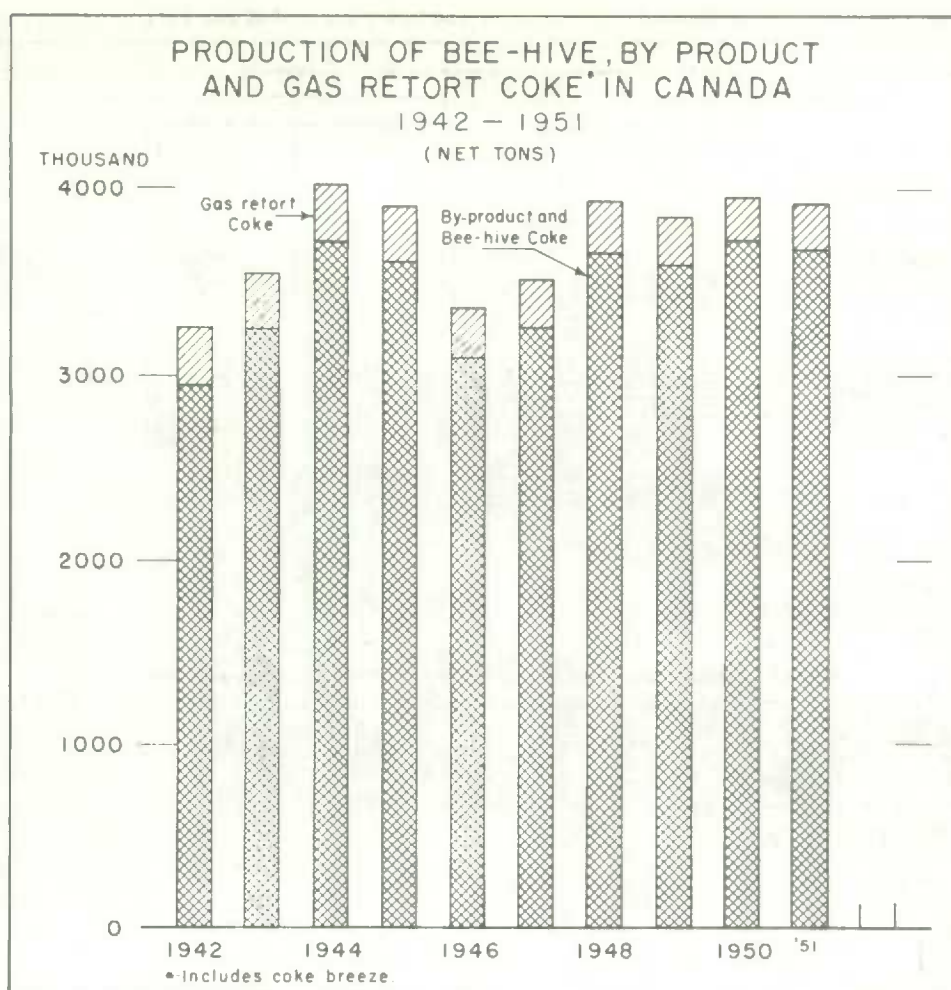


TABLE 9. Production of Bee-Hive, By-Product and Gas Retort Coke, by Provinces, 1942-1951

Year	Newfoundland, Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		Canada	
	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	\$
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, 844	25, 748, 633	308, 482	2, 773, 591	3, 514, 151	39, 339, 891
1948	1, 058, 351	14, 640, 521	2, 621, 405	36, 959, 687	266, 020	3, 063, 243	3, 945, 776	54, 663, 451
1949	1, 060, 007	15, 332, 632	2, 467, 081	34, 228, 730	337, 515	3, 805, 603	3, 864, 603	53, 366, 965
1950	1, 108, 634	16, 726, 922	2, 536, 975	36, 746, 944	319, 067	3, 510, 155	3, 964, 676	56, 984, 021
1951	1, 160, 208	19, 004, 760	2, 466, 842	37, 251, 442	304, 576	3, 592, 630	3, 931, 626	59, 848, 832

Note. Newfoundland not included prior to 1949.

TABLE 10. Bee-Hive, By-Product and Gas Retort Coke Sold and Used by Producers During 1950 and 1951, and Stocks on Hand at End of Year

	Own make		Purchased	
	Coke	Breeze	Coke	Breeze
Short tons				
1950				
Coke actually used by reporting companies:				
In coke or gas plant (for fuel, water gas and producer gas).....	338,281	38,741	13,982	5,244
In iron blast furnaces.....	2,002,573	—	—	—
In other associated works.....	60,969	65,462	—	—
Coke sold:				
(a) Direct to consumers:				
For domestic use.....	218,277	18,308	125	—
For other uses (except next item).....	506,614	158,552	19,753	1,918
(b) To other makers of coke or gas.....	12,748	—	—	—
(c) To dealers for resale.....	406,384	34,950	365	90
(d) For export.....	277,906	61,302	—	—
Total sold or used.....	3,824,352	377,315	34,225	7,252
Stocks of coke on hand at the end of 1950.....	92,861	51,970	8,925	6,621
1951				
Coke actually used by reporting companies:				
In coke or gas plant (for fuel, water gas and producer gas).....	324,050	39,602	10,945	12,743
In iron blast furnaces.....	2,093,871	545	71,823	34
In other associated works.....	85,037	53,451	495	630
Coke sold:				
(a) Direct to consumers:				
For domestic use.....	93,469	13,827	52	—
For other uses (except next item).....	598,062	128,670	52,553	976
(b) To other makers of coke or gas.....	26,781	—	662	—
(c) To dealers for resale.....	309,413	53,049	—	—
(d) For export.....	129,489	21,764	—	—
Total sold or used.....	3,660,172	310,908	136,530	14,383
Stocks of coke on hand at the end of 1951.....	110,366	26,365	6,585	4,812

Note. The above figures on consumption and sales by the producers include 15,184 tons of imported coke in 1950 and 41,988 tons in 1951. Duplication because of interplant sales has been eliminated in each year.

TABLE 11. Coal Carbonized, Coke Produced, and Distribution of Coke by Manufacturers, 1951

	Bee-hive and by-product plants	Gas retort plants	Total for coke- producing plants
Tons			
Coal carbonized:			
Canadian.....	1,246,399	44,346	1,290,745
Imported.....	3,649,826	313,745	3,963,571
Total.....	4,896,225	358,091	5,254,316
Coke made:			
Coke.....	3,440,749	238,250	3,678,999
Breeze.....	250,733	1,894	252,627
Total.....	3,691,482	240,144	3,931,626
Coke yield..... %	75.5	67.0	74.8
Coke used in coke or gas plants:			
Coke.....	161,350	173,645	334,995
Breeze.....	51,713	632	52,345
Total.....	213,063	174,277	387,340
Coke used in associated works:			
Coke.....	2,179,622	71,604	2,251,226
Breeze.....	53,941	719	54,660
Total.....	2,233,563	72,323	2,305,886
Coke sold direct to consumers for domestic use:			
Coke.....	86,241	7,280	93,521
Breeze.....	13,158	669	13,827
Total.....	99,399	7,949	107,348
Coke sold direct to consumers for other uses (except next item):			
Coke.....	650,615	—	650,615
Breeze.....	129,646	—	129,646
Total.....	780,261	—	780,261

Note. The above figures on consumption and sales include 41,988 tons of imported coke.

TABLE 11. Coal Carbonized, Coke Produced, and Distribution of Coke by Manufacturers, 1951 - Concluded

	Bee-hive and by-product plants	Gas retort plants	Total for coke- producing plants
	Tons		
Coke sold to other makers of coke or gas:			
Coke	27,443	—	27,443
Breeze	—	—	—
Total	27,443	—	27,443
Coke sold to dealers for resale:			
Coke	309,337	76	309,413
Breeze	53,049	—	53,049
Total	362,386	76	362,462
Coke sold for export:			
Coke	129,489	—	129,489
Breeze	21,764	—	21,764
Total	151,253	—	151,253
Total coke sold and used:			
Coke	3,544,097	252,605	3,796,702
Breeze	323,271	2,020	325,291
Total	3,867,368	254,625	4,121,993
Stocks on December 31, 1951:			
Coke	81,316	35,635	116,951
Breeze	31,066	111	31,177
Total	112,382	35,746	148,128

Note. The above figures on consumption and sales include 41,988 tons of imported coke.

TABLE 12. Production of Bee-Hive, By-Product and Gas Retort Coke, by Months, 1947-1951

Month	1947	1948	1949	1950	1951
	000's of short tons				
January	338	323	352	348	342
February	289	291	317	286	312
March	308	334	349	328	335
April	282	317	336	318	322
May	285	326	348	332	328
June	270	321	327	333	318
July	267	335	296	336	314
August	276	339	307	334	322
September	286	327	310	331	306
October	280	348	310	342	336
November	297	335	296	334	334
December	336	349	317	343	363
Total	3,514	3,945	3,865	3,965	3,932
Monthly average	293	329	322	330	328

TABLE 13. Bituminous Coal Charged to Coke Ovens and Gas Retorts, 1942-1951

Year	Bee-hive and by-product ovens		Gas retorts		Total ¹
	Canadian	Imported	Canadian	Imported	
	Tons				
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
1948	1,121,980	3,706,469	37,492	381,564	5,247,505
1949	1,260,833	3,507,758	32,106	384,643	5,185,340
1950	1,266,305	3,647,907	31,608	340,103	5,285,923
1951	1,246,399	3,649,826	44,346	317,255	5,257,826

1. Includes 4,030 tons used in making water gas in 1942; 5,104 tons in 1943; 4,756 tons in 1944; 6,764 tons in 1945; 6,702 tons in 1946; 7,194 tons in 1947; 11,579 tons in 1948; 11,194 tons in 1949; 3,576 tons in 1950 and 3,510 tons in 1951.

TABLE 14. Bituminous Coal Charged to Coke Ovens and Gas Retorts, by Provinces, 1942-1951

	Newfoundland, Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		Total ¹
	Canadian	Imported	Canadian	Imported	Canadian	Imported	
	Tons						
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
1947	623,141	583,595	5,554	2,954,346	439,138	2,072	4,607,846
1948	776,953	621,807	—	3,455,973	382,519	10,253	5,247,505
1949	801,960	613,395	—	3,275,205	490,979	3,801	5,185,340
1950	867,423	604,818	—	3,378,232	430,490	4,960	5,285,923
1951	881,739	664,398	—	3,298,162	409,006	4,521	5,257,826

1. See footnote to Table 13.

Note. Newfoundland not included prior to 1949.

TABLE 15. Production of Petroleum Coke, 1942-1951

Year	Made for own use		Made for sale		Total	
	Tons	Selling value at works	Tons	Selling value at works	Tons	Selling value at works
		\$		\$		\$
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
1948	8,225	83,357	79,213	1,018,475	87,438	1,101,832
1949	33,461	239,138	83,908	879,096	117,369	1,118,234
1950	34,104	240,082	88,087	900,521	122,191	1,140,603
1951	44,085	450,212	120,604	1,223,962	164,689	1,674,174

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

TABLE 16. Total Production of Coke (Including Petroleum and Pitch Coke) in Canada, 1948-1951

		Newfoundland, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	Canada
1948						
Coke and gas industry	Tons	603,330	455,021	2,621,405	266,020	3,945,776
	\$	7,788,769	6,851,752	36,959,687	3,063,243	54,663,451
Petroleum refining industry	Tons	654	8,517	74,633	3,634	87,438
	\$	2,603	85,595	990,195	23,439	1,101,832
Pitch coke	Tons	2,769	1,587	13,119	125	17,600
	\$	50,971	28,160	232,548	1,998	313,677
Total	Tons	606,753	465,125	2,709,157	269,779	4,050,814
	\$	7,842,343	6,965,507	38,182,430	3,088,680	56,078,960
1949						
Coke and gas industry	Tons	602,361	457,646	2,467,081	337,515	3,864,603
	\$	8,107,654	7,224,978	34,228,730	3,805,603	53,366,965
Petroleum refining industry	Tons	861	33,585	80,554	2,369	117,369
	\$	3,444	235,095	864,742	14,953	1,118,234
Pitch coke	Tons	5,045	2,391	9,416	123	16,975
	\$	96,980	46,529	183,279	2,375	329,163
Total	Tons	608,267	493,622	2,557,051	340,007	3,998,947
	\$	8,208,078	7,506,602	35,276,751	3,822,931	54,814,362

Note. Newfoundland not included prior to 1949.

TABLE 16. Total Production of Coke (Including Petroleum and Pitch Coke) in Canada, 1946-1951 - Concluded

		Newfoundland, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	Canada
1950						
Coke and gas industry	Tons	640,101	468,533	2,536,975	319,067	3,964,676
	\$	8,897,620	7,829,302	36,746,944	3,510,155	56,984,021
Petroleum refining industry	Tons	887	34,348	83,177	3,779	122,191
	\$	3,548	240,436	872,956	23,663	1,140,603
Pitch coke	Tons	5,707	1,263	9,660	97	16,727
	\$	102,156	19,094	151,545	1,541	274,336
Total	Tons	646,695	504,144	2,629,812	322,943	4,103,594
	\$	9,003,324	8,088,832	37,771,445	3,535,359	58,398,960
1951						
Coke and gas industry	Tons	655,962	504,246	2,466,842	304,576	3,931,626
	\$	9,850,022	9,154,738	37,251,442	3,592,630	59,848,832
Petroleum refining industry	Tons	735	45,207	101,464	17,283	164,689
	\$	3,087	455,156	1,085,585	130,346	1,674,174
Pitch coke	Tons	5,371	1,403	6,874	25	13,673
	\$	103,660	29,870	128,964	638	263,132
Total	Tons	662,068	550,856	2,575,180	321,884	4,109,988
	\$	9,956,769	9,639,764	38,465,991	3,723,614	61,786,138

Note. Newfoundland not included prior to 1949.

TABLE 17. Apparent Consumption of Coke (Including Petroleum and Pitch Coke) in Canada, by Provinces, 1943-1951

	Atlantic provinces	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	Canada
Tons					
Apparent consumption:					
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
1946	485,029	634,202	2,996,151	262,887	4,378,269
1947	498,922	675,932	2,939,625	283,335	4,397,814
1948	586,233	710,424	3,133,343	272,109	4,702,109
1949	585,382	683,879	2,807,488	280,785	4,357,534
1950					
Production	646,695	504,144	2,629,812	322,943	4,103,594
Add decline or deduct increase in producers' stocks	+ 29,967	+ 49,213	+ 94,220	- 11,239	+ 162,161
	676,662	553,357	2,724,032	311,704	4,265,755
Add - Imports entered for consumption	201	216,039	405,956	20,058	642,254
	676,863	769,396	3,129,988	331,762	4,908,009
Deduct - Exports and re-exports	4,098	9,401	333,422	73,032	419,953
Apparent consumption	672,765	759,995	2,796,566	258,730	4,488,056
1951					
Production	662,068	550,856	2,575,180	321,884	4,109,988
Add decline or deduct increase in producers' stocks	- 8,005	- 4,710	+ 45,646	- 4,146	+ 28,785
	654,063	546,146	2,620,826	317,738	4,138,773
Add - Imports entered for consumption	24	272,436	657,671	26,624	956,755
	654,087	818,582	3,278,497	344,362	5,095,528
Deduct - Exports and re-exports	3,387	16,812	114,284	86,300	220,783
Apparent consumption	650,700	801,770	3,164,213	258,062	4,874,745

Note. 1. The imports "Entered for consumption" represent tonnages cleared from customs' ports. The tonnages under this heading differ slightly from actual imports.

2. Newfoundland not included prior to 1949.

TABLE 18. Quantity of Coke in the Hands of the Producers at the End of 1950 and 1951

Province	1950			1951			Difference 1951 from 1950	
	Petroleum refineries	Coke and gas plants	Total	Petroleum refineries	Coke and gas plants	Total		
Tons								
Newfoundland	}	—	11, 272	11, 272	—	19, 277	19, 277	+ 8, 005
Nova Scotia		—	—	—	—	—	—	—
New Brunswick		—	—	—	—	—	—	—
Quebec	1, 234	22, 693	23, 927	1, 234	27, 403	28, 637	+ 4, 710	
Ontario	17, 092	95, 265	112, 357	—	66, 711	66, 711	- 45, 646	
Manitoba	—	1, 997	1, 997	—	2, 622	2, 622	+ 625	
Saskatchewan	135	—	135	82	—	82	- 53	
Alberta	—	—	—	609	374	983	+ 983	
British Columbia	—	29, 150	29, 150	—	31, 741	31, 741	+ 2, 591	
Total	18, 461	160, 377	178, 838	1, 925	148, 128	150, 053	- 28, 785	

Note. No data available on producers' stocks of pitch coke.

TABLE 19. Sales of Coke of All Kinds by Retail Fuel Dealers, Calendar Years, 1950 and 1951

	1950	1951
Tons		
(a) By areas		
Newfoundland	—	—
Prince Edward Island	4,334	3,131
Nova Scotia	31,738	24,956
New Brunswick	15,086	12,544
Total Atlantic provinces	51,158	40,631
Montreal area	118,237	113,492
Quebec area	4,991	5,756
Kingston area	4,185	2,983
Northern area (northern Quebec and northeastern Ontario)	15,648	8,589
Ottawa area	30,685	27,471
Toronto area	169,077	79,390
Western area	9,591	3,607
Windsor area	70,386	39,748
Total Quebec and Ontario	422,800	281,036
Manitoba	49,070	41,023
Saskatchewan	451	630
Alberta	—	—
British Columbia	—	—
Total Western provinces	49,521	41,653
Canada	523,479	363,320
(b) By selected cities		
Halifax	9,021	5,310
Saint John	1,470	1,105
Montreal	104,342	87,890
Quebec	2,462	1,726
Toronto	62,941	24,860
Hamilton	45,761	26,935
Ottawa (including Hull)	21,560	20,867
Windsor	23,965	13,285
Winnipeg	48,731	40,533
Regina	177	131
Saskatoon	3	—

Note. The above amounts were used chiefly for heating homes and other buildings.

TABLE 20. Sales¹ of Petroleum Coke in Canada, 1950 and 1951

Area and year	For domestic and industrial heating	For manufacturing purposes, as material	Total
Tons			
1951			
Atlantic provinces	—	—	—
Quebec	2,260	245,414	247,674
Ontario	73,080	247,292	320,372
Manitoba	—	—	—
Saskatchewan	259	—	259
Alberta and Northwest Territories	—	—	—
British Columbia and Yukon	302	8	310
Total, 1951	75,901	492,714	568,615
Total, 1950	103,481	346,294	449,775

1. As reported by refiners and distributors.

TABLE 21. Inventories of Petroleum Coke in Canada, as at December 31, 1950 and 1951

Area and year	Held by suppliers ¹	Held by consumers ²	Total
Tons			
1951			
Atlantic provinces	—	—	—
Quebec	—	118,429	118,429
Ontario	6,439	65,073	71,512
Manitoba	—	—	—
Saskatchewan	—	—	—
Alberta and Northwest Territories	—	—	—
British Columbia and Yukon	—	1	—
Total, 1951	6,439	183,503	189,942
Total, 1950	10,850	174,277	185,127

1. Suppliers = refiners and distributors.

2. Consumers = industrial users.

TABLE 22. Production and Sales of Manufactured Gas by the Coke and Gas Industry, 1942-1951

Year	From by-product and gas plants			Production of still gas from petroleum refineries
	Production ¹	Sales		
		Quantity	Income from sales	
	M cu. ft.	M cu. ft.	\$	M cu. ft.
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	65,010,676	22,947,000	22,435,440	11,400,531
1948	74,267,658	24,606,638	25,581,734	12,020,328
1949	71,188,140	24,687,925	27,205,696	12,982,436
1950	74,912,985	25,574,110	28,044,761	15,112,661
1951	77,486,822	25,959,987	29,087,074	17,642,679

1. Does not include blast furnace gas and producer gas which were recovered and used by the producers but for which no records are available.

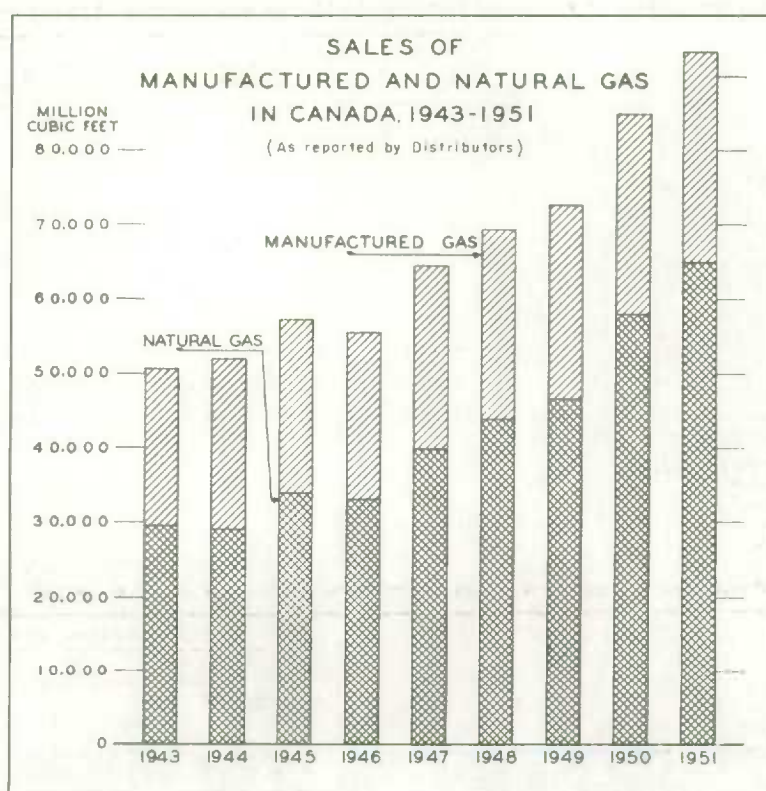
TABLE 23. Sales of Manufactured and Natural Gas in Canada, 1950 and 1951 (As Reported by Distributors)

	1950			1951		
	Number ¹ of customers	Quantity sold M cu. ft.	Revenue from sales \$	Number ¹ of customers	Quantity sold M cu. ft.	Revenue from sales \$
Manufactured gas:						
Domestic	539,364	14,499,352	18,205,192	537,543	14,587,802	18,473,587
House heating	6,714	2,314,322	1,804,858	7,203	2,460,905	1,977,681
Industrial	4,412	4,325,510	3,737,047	4,341	4,052,784	3,596,356
Commercial	29,928	5,864,220	5,683,000	29,903	7,023,620	6,185,901
Miscellaneous	79	26,997	37,347	41	15,245	32,457
Total	580,497	27,030,401	29,467,444	579,031	28,140,356	30,265,982
Natural gas:						
Domestic	219,944	26,486,948	13,378,162	228,905	28,442,376	14,808,492
Industrial	1,797	17,896,661	4,067,603	1,824	21,868,514	4,296,502
Commercial	20,776	13,517,487	4,133,355	20,853	14,605,649	4,442,500
Miscellaneous ²	478	197,194	59,291	493	139,714	72,034
Total	242,993	58,098,290	21,638,411	252,075	65,056,253	24,219,528
Total — all gas	823,490	85,128,691	51,105,855	831,106	93,196,609	54,485,510

1. As of December 31.

2. Includes some free customers.

Note. The sales figures for manufactured gas as recorded in this table differ slightly from those given in table 22 because they represent sales by distributing companies to consumers. Some petroleum refinery gas was treated and distributed by the natural gas companies.

**TABLE 24. Sales¹ of Manufactured and Natural Gas in Canada, 1943-1951 (As Reported by Distributors)**

Year	Manufactured gas		Natural gas		Total — all gas	
	Quantity sold M cu. ft.	Revenue from sales \$	Quantity sold M cu. ft.	Revenue from sales \$	Quantity sold M cu. ft.	Revenue from sales \$
1943	21,084,246	19,257,782	29,670,251	10,952,603	50,754,497	30,210,385
1944	22,937,279	21,801,519	29,183,056	10,869,285	52,120,335	31,670,804
1945	23,452,817	21,318,616	33,931,586	12,106,427	57,384,403	33,425,043
1946	22,492,164	20,989,572	33,186,145	12,060,213	55,678,309	33,049,785
1947	24,666,532	23,649,051	39,834,411	13,327,573	64,500,943	36,976,624
1948	25,611,699	27,092,779	43,804,674	15,361,093	69,416,373	42,453,872
1949	25,913,268	28,674,995	46,757,549	17,466,250	72,670,817	46,141,245
1950	27,030,401	29,467,444	58,098,290	21,638,411	85,128,691	51,105,855
1951	28,140,356	30,265,982	65,056,253	24,219,528	93,196,609	54,485,510

1. See footnote to table 23.

TABLE 25. Production of Crude Coal Tar, by Provinces, 1949-1951

Province	1949	1950	1951
	Imperial gallons		
Newfoundland	7,535,630	8,716,403	8,921,181
Nova Scotia and New Brunswick	3,840,643	4,174,521	4,657,152
Quebec	23,151,406	24,159,250	23,818,523
Ontario	434,177	407,589	442,315
Manitoba	2,891,069	2,970,700	2,673,202
British Columbia	37,852,925	40,428,463	40,512,373
Canada			

TABLE 26. Production, Imports and Exports of Ammonium Sulphate, 1942-1951

Year	Production ¹		Imports		Exports	
	Tons	\$	Tons	\$	Tons	\$
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	5,218,349
1947	196,825	6,614,419	124	12,371	158,975	5,356,757
1948	215,109	8,585,634	130	16,990	146,379	5,923,549
1949	225,949	9,942,206	140	15,255	167,147	7,851,153
1950	211,534	8,710,259	103	7,255	209,101	8,972,503
1951	209,159	8,962,529	314	18,906	145,724	6,456,603

1. Includes output of synthetic ammonium sulphate in the fertilizers industry.

TABLE 27. Employees and Their Earnings in the Coke and Gas Industry, by Provinces, 1950 and 1951

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1950								
Newfoundland and Nova Scotia	56	10	455	—	521	166,958	1,233,085	1,400,043
Quebec	239	52	587	—	878	906,621	1,597,105	2,503,726
Ontario	560	238	2,273	11	3,082	2,324,608	5,998,407	8,323,015
Manitoba and Alberta	88	34	518	—	640	302,284	1,338,704	1,640,988
British Columbia								
Canada	943	334	3,833	11	5,121	3,700,471	10,167,301	13,867,772
1951								
Quebec	258	55	603	—	916	1,047,458	1,844,040	2,891,498
Ontario	579	233	2,154	9	2,975	2,540,681	6,376,067	8,916,748
British Columbia	31	15	368	—	414	136,852	974,777	1,111,629
Manitoba, Alberta and Nova Scotia	107	26	549	—	682	367,469	1,581,920	1,949,389
Canada	975	329	3,674	9	4,987	4,092,460	10,776,804	14,869,264

Directory of Firms in the Coke and Gas Industry, 1951

Name of firm and location of plant	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	
By-product ovens	
Dominion Iron & Steel Ltd., Sydney, N.S.	In use—173 Koppers horizontal ovens (1,001,900 tons)
Montreal Coke & Manufacturing Co., (Quebec Hydro-Electric Commission), 435 St. Patrick St., Ville LaSalle, Quebec	In use—74 Koppers Becker type horizontal ovens (656,000 tons); 4 Koppers Kerpely ring type producers (12,702,000 M. cu. ft.); 3 water gas sets (4,800,000 M. cu. ft.) In reserve or idle—2 water gas sets (3,200,000 M. cu. ft.)
Algoma Steel Corporation Ltd. (Great Northern Gas Co. Ltd.), Sault Ste. Marie, Ontario	In use—103 Wilputte ovens (660,000 tons), and 141 Koppers ovens (1,101,425 tons)
Dominion Foundries and Steel Limited Depew St., Hamilton, Ontario	In use—35 Koppers ovens (310,250 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 oil gas set (900,000 M cu. ft.); 1 propane vaporizer (300,000 M cu. ft.) In reserve or idle—2 propane vaporizers (600,000 M cu. ft.)
Steel Company of Canada, Limited, Hamilton, Ontario	In use—101 Wilputte ovens (892,700 tons)
Winnipeg Electric Company, Elec. Railway Chambers, Sutherland Ave. and Gladstone Ave., Winnipeg, Manitoba	In use—17 Koppers Beckertype horizontal ovens (75,000 tons); 5 propane-air injectors In reserve or idle—1 Western Gas water gas set (1,460,000 M cu. ft.)
British Columbia Electric Co. Ltd., Keefer St., and Carrall St., Vancouver, B.C.	In use—24 intermittent chamber ovens (75,000 tons); 3 mechanical boiler-jacketed producers (2,000,000 M cu. ft.); 2 water gas generators (3,250,000 M cu. ft.); 1 propane-air installation In reserve or idle—1 propane-air installation
Beehive ovens	
International Coal & Coke Co. Ltd., Coleman, Alta.	In use—10 beehive ovens (10,530 tons) In reserve or idle—94 beehive ovens (98,980 tons)
Crow's Nest Pass Coal Co. Ltd., Michel, B.C.	In use—200 beehive ovens (95,000 tons); 36 by-product ovens (170,000 tons) In reserve or idle—34 beehive ovens (16,000 tons)
2. ILLUMINATING AND FUEL GAS PLANTS	
Retort coal gas and carbureted water gas	
Nova Scotia Light & Power Company Limited, Halifax, N.S.	In use—16 Glover-West continuous vertical retorts (22,500 tons)
Shawinigan Chemicals Ltd., Shawinigan Falls, Quebec	8 chemical type coking stokers of own design (24 000 tons)
Quebec Power Company, Quebec, Quebec	In use—1 U.G.O. water gas set (547,500 M cu. ft.) In reserve or idle—1 Western Gas water gas set (657,000 M cu. ft.); 1 U.G.O. water gas set (492,750 M cu. ft.)
Board of Light & Heat Commission Guelph, Ontario	In use—6 Glover-West vertical continuous retorts (10,000 tons); 1 Shell Lowe carbureted water gas set (109,500 M cu. ft.); 1 Selas diluter for propane gas In reserve or idle—2 Glover-West vertical ovens (3,600 tons); 1 Shell Lowe carbureted water gas set
Consumers Gas Company of Toronto, 19 Toronto St., Toronto, Ontario	In use—96 Glover-West vertical retorts (175,000 tons); 3 Semet-Solvay water gas sets (5,748,750 M cu. ft.); 8 Merrifield-Wescott water gas sets (8,486,250 M cu. ft.); 1 propane vaporizer (4,380,000 M cu. ft.)
Interprovincial Utilities Ltd., Lees Ave., Ottawa, Ontario	In use—1 carbureted blue gas set (547,500 M cu. ft.) In reserve or idle—1 carbureted blue gas set (547,000 M cu. ft.)
Public Utilities Commission, Kitchener, Ontario (Public Utilities Commission), Waterloo, Ontario	In use—1 Merrifield water gas set (361,350 M cu. ft.) In reserve or idle—1 Merrifield water gas set (361,350 M cu. ft.)

Note. Names of gas distributing companies in brackets.

Directory of Firms in the Coke and Gas Industry, 1951 — Concluded

Name of firm and location of plant	Coke and gas making equipment, including reserve equipment (stated 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 Utility Commission, Stratford, Ontario	In use—12 horizontal retorts (5,000 tons) In reserve or idle—6 horizontal retorts (2,500 tons)
B.C. Electric Co. Ltd., Gas Division, Victoria, B.C.	In use—16 Glover-West vertical retorts (16,352 tons); 1 Serret-Solvay water gas set (438,000 M cu. ft.); 2 Ransome water gas sets (730,000 M cu. ft.) In reserve or idle—2 water gas sets (365,000 M cu. ft.)

Propane Gas¹

City Gas and Electric Corporation, Ltd., Three Rivers, Quebec
City of Sherbrooke Gas and Electricity Dept., Sherbrooke, Quebec
Brockville Public Utilities Commission, Brockville, Ontario
Ontario Shore Gas Co. Ltd., Oshawa, Ontario
Peterborough Utilities Commission, Peterborough, Ontario
Public Utilities Commission, Kingston, Ontario
Corporation, City of Nelson, Nelson, B.C.

1. Includes only the concerns which distribute through city gas mains. Distributors of propane in cylinders not included.

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