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## THE COKE AND GAS INDUSTRY

1957



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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** — The Primary Industries, including mining, forestry and fisheries; **Volume II** — Manufacturing; **Volume III** — Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces 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
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
  - Section A. Summary for Canada
  - Section B. Atlantic Provinces
  - Section C. Quebec
  - Section D. Ontario
  - Section E. Prairie Provinces
  - Section F. British Columbia
  - Section G. The Manufacturing Industries of Canada, Regional Distribution
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
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- VII — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
- X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
- XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

The present report belongs in Part XVII, 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
- B — The Coke and Gas Industry
- C — The Petroleum Products Industry
- D — The Miscellaneous Products of the Petroleum and Coal Industry

*Prices of most reports released after January 1, 1959 have been increased. Information on the new prices of particular issues is available on request from the Information Services Division of the Dominion Bureau of Statistics.*

# THE COKE AND GAS INDUSTRY

## 1957

Production from coke and gas plants in Canada was valued at \$104,748,657 in 1957, a decline of 8 per cent from the \$113,684,395 reported in 1956. Output included 4,119,200 tons of coke valued at \$63,442,456 at the works, 73,141,554 M cubic feet of gas valued at \$28,264,772 and by-products valued at \$13,041,429.

Twenty coke and gas works operated in 1957, including 8 by-product plants, 5 retort coal and water gas plants and 7 plants which distributed propane through the regular gas mains. Eleven of these works were located in Ontario, 5 in Quebec, 2 in British Columbia, 1 in Nova Scotia and 1 in Manitoba. In addition to these producers, 2 companies 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 and by-product ovens totalled 4,119,200 tons in 1957 compared with 4,331,216 tons in 1956 and 4,004,623 tons in 1955. By-product ovens produced 4,069,879 tons in 1957 and gas retorts made 49,321 tons. In addition 273,296 tons of petroleum coke were recovered in petroleum refineries and 5,395 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 25,959 tons were sold direct to domestic consumers;

646,873 tons were sold direct to consumers for foundry and other uses (other than domestic), 131,988 tons were sold to dealers for resale and 97,191 tons were sold for export. Consumption included 60,023 tons in makers' own plants; 133,529 tons in making gas; 2,981,495 tons used in makers' own blast furnaces and 179,198 tons used in associated works operated by the producing company. Total stocks of coke in the hands of the producers amounted to 188,382 tons at the end of 1957.

Imports into Canada of coke made from coal increased to 650,540 tons in 1957 and exports (including re-exports of imported coke) decreased to 116,395 tons from 124,534 tons.

Manufactured gas, sold and used, amounted to 73,141,554 M cubic feet in 1957, including 59,067,663 M cubic feet from by-product ovens and 14,073,891 M cubic feet from gas plants. Sales of gas by the producers totalled 15,861,191 M cubic feet of which 13,529,156 M cubic feet were from by-product ovens and 2,332,035 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 work. These figures do not include 22,844 M cubic feet of (Pintsch) oil gas for lighting railway cars, 36,295,172 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.

**TABLE 1. Distribution of Coke and Gas Manufacturing Plants, by Provinces, 1957**

Province	Coke plants	Gas plants				Total
	By-product ovens	Retort coal gas only	Water gas only	Retort coal gas and water gas	Propane gas <sup>1</sup>	
number						
Nova Scotia .....	1	-	-	-	-	1
Quebec .....	1	1	1	-	2	5
Ontario .....	4	1	1	1 <sup>2</sup>	4	11
Manitoba .....	1	-	-	-	-	1
British Columbia .....	1	-	-	-	1	2
<b>Canada .....</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>7</b>	<b>20</b>

<sup>1</sup> Distributed through regular town or city gas mains; distribution in cylinders not included.

<sup>2</sup> Also distributed L.P. gas.

## PRODUCTS OF PETROLEUM AND COAL

TABLE 2. Principal Statistics of the Coke and Gas Industry, Significant Years 1929-1957, and by Provinces, 1956 and 1957

Year and province	Establishments <sup>1</sup>	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture	Gross selling value of products
	number						dollars
1929 .....	43	3,902	5,938,814	2,628,714	18,517,214	18,764,515	39,910,443
1932 .....	42	3,639	4,897,746	2,223,414	12,241,698	15,347,538	25,812,650
1937 .....	33	4,027	5,709,569	2,906,092	17,217,957	21,578,880	41,702,929
1939 .....	33	4,043	5,851,614	3,430,393	16,726,445	18,872,732	39,029,570
1944 .....	34	4,747	8,940,613	6,478,811	37,809,253	25,287,651	69,575,715
1946 .....	34	4,961	9,348,213	6,274,170	34,709,159	21,599,146	62,582,475
1949 .....	30	5,139	13,641,224	8,023,441	54,063,072	34,847,993	96,934,506
1953 .....	28	4,955	16,946,845	6,926,499	66,576,949	49,217,597	122,721,045
1954 .....	26	4,759	16,296,781	6,036,155	54,020,106	44,870,308	104,926,569
1955 .....	25	3,736	13,181,383	6,206,043	57,844,131	39,841,008	103,891,182
1956							
Quebec .....	6	773	2,733,972	2,052,681	9,730,683	8,377,024	20,160,388
Ontario .....	13	1,710	7,514,067	3,104,563	45,267,452	24,522,523	72,894,538
British Columbia, Manitoba and Nova Scotia .....	6	851	3,524,259	1,843,340	11,711,400	7,074,729	20,629,469
Canada .....	25	3,334	13,772,298	7,000,584	66,709,535	39,974,276	113,684,395
1957							
Quebec .....	5	592	2,392,217	1,807,701	10,257,120	6,912,966	18,977,787
Ontario .....	13	1,730	7,747,149	2,788,071	45,083,668	20,647,738	68,519,477
British Columbia, Manitoba and Nova Scotia .....	4	721	3,039,362	1,856,831	10,779,080	4,615,482	17,251,393
Canada .....	22	3,043	13,178,728	6,452,603	66,119,868	32,176,186	104,748,657

<sup>1</sup> The number shown includes companies which did not produce gas but which purchased gas from the manufacturers 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. Included also are firms which distributed propane gas through regular gas mains.

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 of the Coke and Gas Industry, 1953-1957

Year	Number of companies <sup>1</sup>	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross value of products at works
\$      \$      \$      \$						
			Coke (By-product and beehive)			
1953 .....	12	3,526	12,331,791	6,144,222	58,925,754	102,257,082
1954 .....	12	3,274	11,433,315	5,321,520	46,726,038	84,860,880
1955 .....	12	3,424	12,188,155	6,085,520	54,838,962	98,803,491
1956 .....	12	3,030	12,688,650	6,844,224	63,615,449	108,599,912
1957 .....	10	2,773	12,179,204	6,311,775	62,956,812	99,850,568
Gas (Retort and water gas)						
1953 .....	16	1,429	4,615,054	782,277	7,651,195	20,463,963
1954 .....	14	1,485	4,863,466	714,635	7,294,068	20,065,689
1955 .....	13	312	993,228	120,523	3,005,169	5,087,691
1956 .....	13	304	1,083,648	156,360	3,094,086	5,084,483
1957 .....	12	270	999,524	140,828	3,163,056	4,898,089

<sup>1</sup> See footnote to Table 2.

TABLE 4. Inventories,<sup>1</sup> 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Quebec .....	4,301,082	6,234	250,632	4,557,948
Ontario .....	16,798,432	522,321	686,860	18,007,613
British Columbia, Manitoba and Nova Scotia .....	572,516	97,574	997,862	1,667,952
Canada .....	21,672,030	626,129	1,935,354	24,233,513
Closing:				
Quebec .....	3,727,322	7,794	482,000	4,217,116
Ontario .....	17,479,911	78,369	598,171	18,156,451
British Columbia, Manitoba and Nova Scotia .....	539,881	139,408	1,133,128	1,812,417
Canada .....	21,747,114	225,571	2,213,299	24,185,984

<sup>1</sup> (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Censuses of Industry. These data were formerly collected by a separate survey. The summarized results for the Coke and Gas Industry for the year under review are shown in the above table.

(c) The opening inventory for the current year may not necessarily agree with the closing inventory published the previous year because of changes in the composition of the industry such as: the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes.

TABLE 5. Products Made in Coke and Gas Plants, 1956 and 1957

Product		1956		1957	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
Gas made:			\$		\$
Retort coal gas .....	M cu. ft.	8,975,328	—	11,769,265	—
Coke oven gas .....	"	60,517,611	—	56,991,291	—
Producer gas .....	"	817,157	—	912,753	—
Water gas .....	"	6,334,101	—	3,546,536	—
Propane, butane and oil gas .....	"	1,927,081	—	1,258,147	—
Total gas made .....	"	78,571,278	—	74,477,992	—
Gas sold or used:					
Gas sold .....	"	19,547,628	20,122,843	15,861,191	14,875,883
Gas used in own coke or gas plants .....	"	14,903,934	3,774,171	12,648,758	3,601,309
Gas used in associated works .....	"	40,864,734	9,341,127	41,743,510	8,874,622
Gas otherwise accounted for but not sold .....	"	1,317,314	498,866	1,393,733	553,809
Gas not accounted for .....	"	1,866,953	644,258	1,494,362	359,149
Total gas sold or used .....	"	78,499,961	34,381,265	73,141,554	28,264,772
Coke made:					
Coke from by-product or beehive ovens (including breeze) .....	ton	4,270,700	64,304,421	4,069,879	62,483,393
Coke from gas retorts (including breeze) .....	"	60,516	1,073,273	49,321	959,063
Total coke .....	"	4,331,216	65,377,694	4,119,200	63,442,456
Other products:					
Tar .....	Imp. gal.	45,199,338	5,881,184	43,651,464	5,774,036
Ammonium sulphate .....	lb.	77,965,055	1,320,452	61,098,102	1,017,026
Benzol .....	Imp. gal.	9,324,411	3,935,000	8,632,895	3,583,618
Toluol, xylol and naphthalene .....	"	2,711,414	1,092,721	2,554,504	990,525
All other products .....	—	—	1,696,079	—	1,676,224
Grand total .....	—	—	113,684,395	—	104,748,657

TABLE 6. Products Made in Coke and Gas Plants, by Areas, 1957

Product	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.	11,619,381	—	149,884	—	—
Coke oven gas .....	"	12,533,305	—	42,095,879	—	2,362,107
Producer gas .....	"	912,753	—	—	—	—
Water gas .....	"	3,296,054	—	250,482	—	—
Propane, butane and oil gas .....	"	463,261	—	794,886	—	—
Total gas made .....	"	28,824,754	—	43,291,131	—	2,362,107
Gas sold or used:						
Gas sold .....	"	9,690,422	8,705,163	5,079,670	4,650,435	1,091,099
Gas used in own plants .....	"	3,416,099	997,161	7,790,122	2,167,265	1,442,537
Gas used in associated works .....	"	15,567,238	1,733,917	25,884,272	7,126,105	292,000
Gas otherwise accounted for but not sold .....	"	47,896	51,864	1,345,466	501,793	371
Gas not accounted for .....	"	38,576	48,864	1,425,249	260,332	30,537
Total gas sold or used .....	"	28,760,231	11,536,969	41,524,779	14,705,930	2,856,544
Coke made:						
Coke from by-product or beehive ovens (including breeze) .....	ton	937,104	16,072,982	2,941,997	43,798,854	190,778
Coke from gas retorts (including breeze) .....	"	42,821	838,813	6,500	120,250	—
Total coke made .....	"	979,925	16,911,795	2,948,497	43,919,104	190,778
Other products:						
Tar .....	Imp. gal.	12,399,850	1,570,338	29,978,009	4,033,089	1,273,605
Other products .....	—	—	1,406,039	—	5,861,354	—
Grand total .....	—	—	31,425,141	—	68,519,477	—
						4,804,039

TABLE 7. Materials Used in Coke and Gas Plants, 1956 and 1957

Material	1956		1957		
	Quantity	Cost at works	Quantity	Cost at works	
Bituminous coal carbonized in ovens or retorts:		\$		\$	
(a) Canadian .....	ton	1,026,905	9,785,940	972,478	10,301,591
(b) Imported .....	"	4,784,981	49,660,338	4,657,534	49,993,956
Bituminous coal for making water gas:					
(a) Canadian .....	—	—	—	—	
(b) Imported .....	ton	2,092	25,092	2,031	25,649
Coke for making water gas:					
(a) Purchased .....	"	7,476	153,195	5,741	127,008
(b) Companies' own make .....	"	81,090	1,123,220	37,416	785,770
Coke for making producer gas (Companies' own make) .....	"	5,773	114,457	5,532	110,640
Oil used for enriching water gas .....	Imp. gal.	13,518,249	1,330,735	8,556,536	976,751
Absorbing and wash oil .....	"	458,613	95,552	305,670	76,670
Caustic soda .....	lb.	2,079,491	66,830	1,976,792	64,765
Lime .....	ton	557	6,866	478	6,868
Water .....	—	—	89,961	—	83,486
Iron oxide .....	ton	8,745	89,107	5,999	64,854
Sulphuric acid, 100% .....	lb.	71,147,989	1,010,788	55,963,788	789,216
Propane and butane .....	Imp. gal.	12,330,986	1,519,670	8,773,276	1,143,105
All other materials .....	—	—	1,637,784	—	1,569,539
Total cost .....	—	—	66,709,535	—	66,119,868

TABLE 8. Materials Used in Coke and Gas Plants, by Areas, 1957

Material	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	736,858	8,534,668	—	—	235,620	1,766,923
(b) Imported .....	"	588,510	7,166,047	4,055,189	42,625,859	13,835	202,050
Bituminous coal for making water gas:							
(a) Canadian .....	—	—	—	—	—	—	
(b) Imported .....	ton	—	—	2,031	25,649	—	—
Coke for making water gas:							
(a) Purchased .....	"	4,561	105,610	1,180	21,398	—	—
(b) Companies' own make .....	"	36,836	777,360	580	8,410	—	—
Coke for making producer gas (Companies' own make) ..	"	5,532	110,640	—	—	—	—
Oil used for enriching water gas .....	Imp. gal.	7,895,813	894,683	660,723	82,068	—	—
Absorbing and wash oil .....	"	131,713	27,621	173,957	49,049	—	—
Caustic soda .....	lb.	779,473	30,465	1,197,319	34,300	—	—
Lime .....	ton	478	6,868	—	—	—	—
Water .....	—	—	7,294	—	76,192	—	—
Iron oxide .....	ton	5,237	54,072	328	4,703	482	6,073
Sulphuric acid, 100% .....	lb.	18,561,302	330,364	37,402,486	458,852	—	—
All other materials .....	—	—	649,189	—	1,697,188	—	366,367
Total cost .....	—	—	18,694,881	—	45,083,668	—	2,341,319

TABLE 9. Principal Statistics of the Coke and Gas Industry in Canada, Grouped According to Selling Value of Factory Shipments<sup>1</sup> 1956 and 1957

Establishments reporting production	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number			dollars	
1956					
\$25,000 to \$49,999.....	1				
\$50,000 to \$99,999.....	1	42	148,895	328,173	473,863
\$100,000 to \$199,999.....	2				
\$200,000 to \$499,999.....	7				
\$500,000 to \$999,999.....	2	268	948,858	1,444,918	3,516,520
\$1,000,000 to \$4,999,999.....	6	993	3,630,474	8,436,806	18,491,830
\$5,000,000 and over .....	6	2,031	9,044,071	56,499,638	91,202,182
<b>Totals .....</b>	<b>25</b>	<b>3,334</b>	<b>13,772,298</b>	<b>66,709,535</b>	<b>113,684,395</b>
1957					
\$50,000 to \$99,999.....	1				
\$100,000 to \$199,999.....	2	37	136,429	175,057	409,921
\$200,000 to \$499,999.....	7				
\$500,000 to \$999,999.....	2	221	797,836	1,417,699	3,393,193
\$1,000,000 to \$4,999,999.....	5	934	3,408,233	6,580,894	12,845,750
\$5,000,000 and over .....	5	1,851	8,836,230	57,946,218	88,099,793
<b>Totals .....</b>	<b>22</b>	<b>3,043</b>	<b>13,178,728</b>	<b>66,119,868</b>	<b>104,748,657</b>

<sup>1</sup> All incorporated companies

TABLE 10. Capital and Repair Expenditures in the Coke and Gas Industry, 1953-1957

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
thousands of dollars							
1953 .....	3,194	12,885	16,079	844	4,299	5,143	21,222
1954 .....	263	508	771	829	4,136	4,965	5,736
1955 .....	129	4,330	4,459	660	4,776	5,436	9,895
1956 .....	353	2,333	2,686	484	3,555	4,039	6,725
1957 .....	6,151	4,941	11,092	266	2,820	3,086	14,178

Note: Figures for the current year are preliminary.

TABLE 11. Production of Beehive, By-product and Gas Retort Coke<sup>1</sup>, 1948-1957

Year	By-product and beehive 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	\$
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	3,864,803	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	3,373,604	3,931,626	59,848,632
1952 .....	3,883,694	56,260,686	172,961	2,440,424	4,056,655	58,701,110
1953 .....	4,070,500	61,426,117	182,333	2,745,632	4,252,833	64,171,749
1954 .....	3,232,082	48,250,499	192,136	2,287,389	3,424,218	50,537,888
1955 .....	3,937,404	57,132,193	67,220	1,109,162	4,004,624	58,241,355
1956 .....	4,270,700	64,304,421	60,516	1,073,273	4,331,216	65,377,694
1957 .....	4,069,879	62,483,393	49,321	859,063	4,119,200	63,442,456

<sup>1</sup> Includes coke breeze.

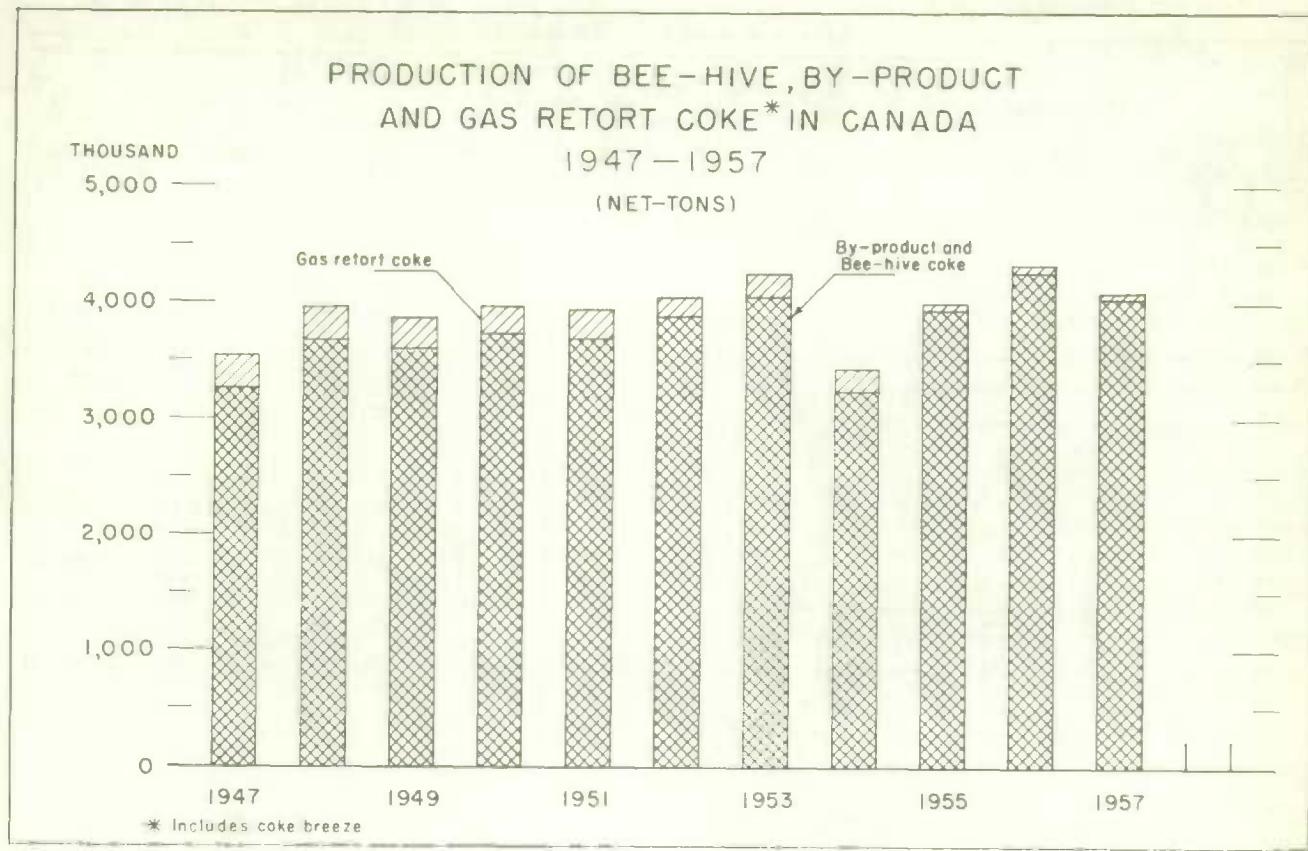


TABLE 12. Production of Beehive, By-product and Gas Retort Coke, by Provinces, 1948-1957

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
1948 .....	short tons 1,058,361	\$ 14,640,521	short tons 2,621,405	\$ 36,959,687	short tons 266,020	\$ 3,063,243	short tons 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	2,466,642	37,251,442	304,576	3,592,630	3,931,626	59,848,832
1952 .....	1,073,806	18,109,639	2,686,544	36,935,991	296,305	3,655,480	4,056,655	58,701,110
1953 .....	1,032,762	17,675,957	2,932,926	42,954,291	287,143	3,541,501	4,252,833	64,171,749
1954 .....	856,887	13,302,036	2,286,934	33,932,193	280,397	3,303,659	3,424,218	50,537,888
1955 .....	869,495	13,390,416	2,838,651	41,286,225	296,478	3,564,714	4,004,623	58,241,355
1956 .....	931,113	15,155,722	3,094,784	46,454,399	305,319	3,767,573	4,331,216	65,377,694
1957 .....	979,925	16,911,795	2,948,497	43,919,104	190,778	2,611,557	4,119,200	63,442,458

Note: Newfoundland not included prior to 1949.

TABLE 13. Coke Balance and Distribution of Coke by Manufacturers, 1957

	Short tons
Coke balance:	
Stocks of coke on hand, December 31, 1956 .....	177,996
Coke produced in 1957 .....	4,119,200
Purchased by manufacturers:	
(a) Canadian coke .....	27,773
(b) Imported from U.S.A. ....	142,060
Less coke sold to other makers .....	17,268
Less coke wasted or scrapped .....	5,123
Less stocks of coke on hand, December 31, 1957 .....	188,382
Total available for sale or use .....	4,256,256
Distribution of coke by manufacturers:	
Used as fuel:	
(a) Own make .....	59,730
(b) Purchased .....	293
Used in making gas:	
(a) Own make .....	127,788
(b) Purchased .....	5,741
Used in makers' own blast furnaces .....	2,981,495
Used in associated works .....	179,198
Sales:	
(a) For domestic use .....	25,959
(b) For other uses .....	646,873
(c) To dealers for resale .....	131,988
(d) For export .....	97,191
Total used and sold .....	4,256,256

TABLE 14. Coal Carbonized, Coke Produced and Distribution of Coke by Manufacturers, 1957

	Short tons
Coal carbonized:	
Canadian .....	972,478
Imported .....	4,657,534
Total .....	5,630,012
Coke made .....	4,119,200
Coke yield .....	%
Coke used as fuel in makers' own plants .....	60,023
Coke used in making gas:	
(a) Own make .....	127,788
(b) Purchased .....	5,741
Coke used in makers' own blast furnaces .....	2,981,495
Coke used in associated works .....	179,198
Coke sold:	
(a) For domestic use .....	25,959
(b) For other uses .....	646,873
(c) To dealers for resale .....	131,988
(d) For export .....	97,191
Total coke sold and used .....	4,256,256
Stocks on December 31, 1957 .....	188,382

## PRODUCTS OF PETROLEUM AND COAL

TABLE 15. Production of Beehive, By-product and Gas Retort Coke, by Months, 1953-1957

Month	1953	1954	1955	1956	1957
thousands of short tons					
January .....	359	324	300	355	359
February .....	331	283	301	336	335
March .....	348	293	335	355	373
April .....	343	275	330	354	354
May .....	357	271	339	363	367
June .....	360	266	330	359	349
July .....	377	275	340	370	358
August .....	377	272	346	370	366
September .....	346	268	344	359	341
October .....	366	296	362	378	318
November .....	359	301	345	362	308
December .....	330	288	333	370	291
Total .....	4,253	3,412	4,005	4,331	4,119
Monthly average .....	354	284	334	361	343

Note: Above breakdown developed from a special monthly report on coke and includes revisions necessary to effect reconciliation with annual totals shown in relevant tables of this report.

TABLE 16. Bituminous Coal Charged to Coke Ovens and Gas Retorts, 1948-1957

Year	Beehive and by-product ovens		Gas retorts		Total <sup>1</sup>
	Canadian	Imported	Canadian	Imported	
tons					
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
1952 .....	1,146,741	4,030,780	20,891	280,942	5,459,354
1953 .....	1,077,259	4,367,386	1,808	288,930	5,735,383
1954 .....	860,645	3,446,379	20,798	280,394	4,608,216
1955 .....	902,495	4,359,086	82,361	44,260	5,388,204
1956 .....	981,297	4,718,784	45,608	66,197	5,813,978
1957 .....	945,569	4,562,686	26,909	96,879	5,632,043

<sup>1</sup> Includes 11,579 tons used in making water gas in 1948; 11,194 tons in 1949; 3,576 tons in 1950; 3,510 tons in 1951; 3,309 tons in 1952; 3,081 tons in 1953; 3,941 tons in 1954; 2,171 tons in 1955; 2,092 tons in 1956; and 2,031 tons in 1957.

TABLE 17. Bituminous Coal Charged to Coke Ovens and Gas Retorts, by Provinces, 1948-1957

Year	Newfoundland, Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba Alberta and British Columbia		Total <sup>1</sup>
	Canadian	Imported	Canadian	Imported	Canadian	Imported	
tons							
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
1952 .....	778,591	649,533	—	3,639,066	389,041	3,123	5,459,354
1953 .....	719,060	644,697	—	3,998,138	360,007	13,483	5,735,383
1954 .....	541,791	618,707	—	3,087,668	339,652	20,182	4,608,216
1955 .....	630,549	541,614	—	3,837,052	354,307	24,682	5,388,204
1956 .....	661,294	574,076	—	4,188,131	365,611	24,866	5,813,978
1957 .....	736,858	588,510	—	4,057,220	235,620	13,835	5,632,043

<sup>1</sup> See footnote to Table 16.

Note: Newfoundland not included prior to 1949.

TABLE 18. Production of Petroleum Coke, 1948-1957

Year	Made for own use		Made for sale		Total	
	Tons	Selling value at works	Tons	Selling value at works	Tons	Selling value at works
	\$				\$	
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	164,889	1,674,174
1952	52,638	506,920	150,750	1,650,342	203,388	2,157,262
1953	91,869	686,331	146,794	1,248,755	238,663	1,935,086
1954	80,378	659,009	156,509	1,480,213	236,887	2,139,222
1955	115,887	916,175	154,012	1,457,915	269,899	2,374,090
1956	114,908	1,211,899	155,997	1,887,778	270,905	3,099,677
1957	118,135	1,647,867	155,161	2,020,451	273,296	3,668,318

Note: Petroleum coke is not included in coke production figures given for the Coke and Gas Industry.

TABLE 19. Total Production of Coke (including Petroleum and Pitch Coke) in Canada, 1954-1957

		Newfoundland, Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	Canada
1954						
Coke and gas industry	ton	390,386	466,501	2,286,934	280,397	3,424,218
	\$	5,414,887	7,887,149	33,932,193	3,303,659	50,537,888
Petroleum refining industry	ton	957	34,060	97,847	104,023	236,887
	\$	9,570	340,600	978,470	810,582	2,139,222
Pitch coke	ton	1,948	868	4,743	62	7,621
	\$	53,073	23,736	67,647	1,856	146,312
Total	ton	393,291	501,429	2,389,524	384,482	3,668,726
	\$	5,477,530	8,251,485	34,978,310	4,116,097	52,823,422
1955						
Coke and gas industry	ton	414,550	454,945	2,838,651	296,478	4,004,624
	\$	5,930,129	7,460,287	41,286,225	3,564,714	58,241,355
Petroleum refining industry	ton	1,058	44,476	81,004	143,381	269,899
	\$	10,580	415,039	810,021	1,138,450	2,374,090
Pitch coke	ton	1,714	777	453	85	3,029
	\$	38,295	22,075	11,433	2,306	74,109
Total	ton	417,322	500,198	2,920,108	439,924	4,277,532
	\$	5,979,004	7,897,401	42,107,679	4,705,470	60,589,534
1956						
Coke and gas industry	ton	475,808	455,305	3,094,784	305,319	4,331,216
	\$	6,675,779	8,479,943	46,454,399	3,767,573	65,377,694
Petroleum refining industry	ton	425	42,767	85,066	142,647	270,905
	\$	6,588	594,219	1,318,524	1,180,346	3,099,677
Pitch coke	ton	4,622	370	3,035	62	8,089
	\$	109,577	11,700	80,022	1,779	203,078
Total	ton	480,855	498,442	3,182,885	448,028	4,610,210
	\$	6,791,944	9,085,862	47,852,945	4,949,698	68,680,449
1957						
Coke and gas industry	ton	550,895	429,030	2,948,497	190,778	4,119,200
	\$	8,454,234	8,457,561	43,919,104	2,611,557	63,442,458
Petroleum refining Industry	ton	33,048	47,081	71,529	121,638	273,296
	\$	688,141	693,478	1,215,993	1,070,706	3,668,318
Pitch coke	ton	2,666	303	2,353	73	5,395
	\$	65,277	10,383	50,516	2,127	128,303
Total	ton	586,609	476,414	3,022,379	312,489	4,397,891
	\$	9,207,652	9,161,422	45,185,613	3,684,390	67,239,077

TABLE 20. Apparent Consumption of Coke (including Petroleum and Pitch Coke) in Canada, by Provinces, 1948-1957

	Atlantic provinces	Quebec	Ontario	Manitoba, Saskatchewan, Alberta and British Columbia	Canada
tons					
<b>Apparent consumption:</b>					
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 .....	672,765	759,995	2,796,566	258,730	4,488,056
1951 .....	650,700	801,770	3,164,213	258,062	4,874,745
1952 .....	559,791	737,117	3,138,364	241,764	4,677,036
1953 .....	583,027	770,066	4,212,909	330,720	4,896,722
1954 .....	381,658	743,612	2,534,183	322,508	3,981,961
1955 .....	436,200	882,712	3,336,991	390,987	5,046,900
1956					
Production .....	480,855	498,442	3,182,885	448,028	4,610,210
Add decline or deduct increase in producers' stocks .....	- 1,619	+ 16,792	- 40,849	+ 2,041	- 23,635
	479,236	515,234	3,142,036	450,069	4,586,575
Add - Imports entered for consumption .....	84	374,204	504,789	64,262	943,339
	479,320	889,438	3,646,825	514,331	5,529,914
Deduct - Exports and re-exports .....	5,228	5,317	63,218	88,876	162,639
<b>Apparent consumption</b> .....	<b>474,092</b>	<b>884,121</b>	<b>3,583,607</b>	<b>423,455</b>	<b>5,367,275</b>
1957					
Production .....	586,609	476,414	3,022,379	312,489	4,397,891
Add decline or deduct increase in producers' stocks .....	- 1,611	- 22,477	+ 26,791	- 10,697	- 7,934
	584,998	454,937	3,049,170	301,792	4,390,897
Add - Imports entered for consumption .....	64	300,978	699,374	76,973	1,077,339
	585,062	755,915	3,748,544	378,765	5,468,286
Deduct - Exports and re-exports .....	3,944	10,251	66,578	77,525	158,298
<b>Apparent consumption</b> .....	<b>581,118</b>	<b>744,684</b>	<b>3,681,986</b>	<b>301,240</b>	<b>5,308,988</b>

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

(b) Newfoundland not included prior to 1949.

TABLE 21. Quantity of Coke in the Hands of the Producers at the End of 1956 and 1957

Province	1956			1957			Difference, 1957 from 1956
	Petroleum refineries	Coke and gas plants	Total	Petroleum refineries	Coke and gas plants	Total	
tons							
Nova Scotia .....	-	6,578	6,578	-	8,189	8,189	+ 1,611
Quebec .....	1,800	24,996	26,796	1,630	47,643	49,273	+22,477
Ontario .....	1,470	95,221	96,691	1,068	68,832	69,900	-26,791
Manitoba .....	-	41,273	41,273	-	50,460	50,460	+ 9,187
Saskatchewan .....	2,156	-	2,156	614	-	614	- 1,542
Alberta .....	343 <sup>1</sup>	-	343 <sup>1</sup>	-	-	-	- 343
British Columbia .....	-	9,863	9,863	-	13,258	13,258	+ 3,395
<b>Total</b> .....	<b>5,789<sup>1</sup></b>	<b>177,831</b>	<b>183,700<sup>1</sup></b>	<b>3,312</b>	<b>188,382</b>	<b>191,694</b>	<b>+ 7,944</b>

<sup>1</sup> Revised.

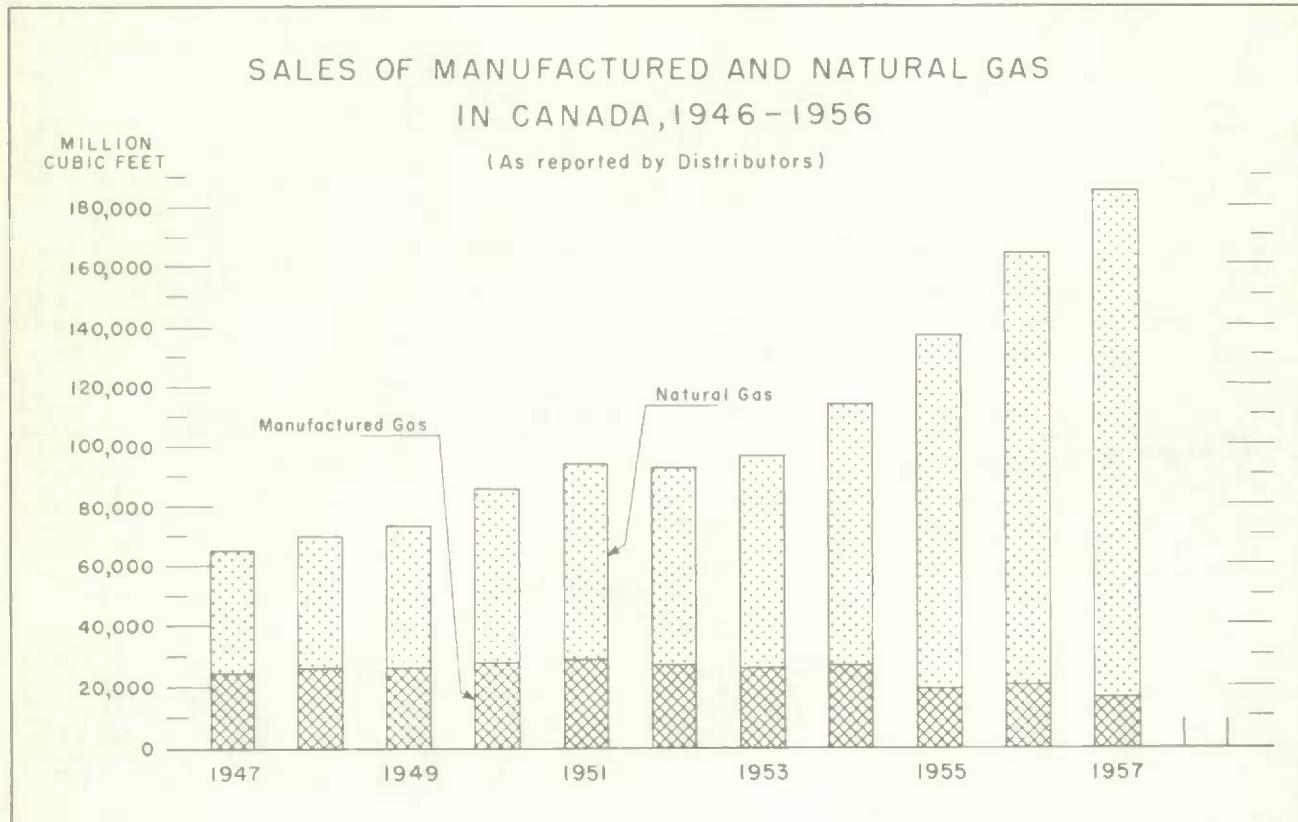
Note: No data available on producers' stocks of pitch coke.

TABLE 22. Sales of Manufactured and Natural Gas in Canada, 1956 and 1957 (As Reported by Distributors)

	1956			1957		
	Number of customers <sup>1</sup>	Quantity sold	Revenue from sales	Number of customers <sup>1</sup>	Quantity sold	Revenue from sales
Manufactured gas:		M cu. ft.	\$		M cu. ft.	\$
Domestic .....	359,750	11,613,163	12,816,281	356,395	9,197,671	10,271,336
House heating .....	5,390	3,560,939	3,072,949	714	2,474,355	1,919,780
Industrial .....	23,456	4,779,473	4,755,795	17,085	4,281,305	4,348,930
Commercial .....	8	84,768	38,306	92	1,266	21,969
Total .....	388,604	20,038,343	20,683,331	374,286	15,954,597	16,562,015
Natural gas:						
Domestic .....	474,279	52,039,471	39,492,230	589,972	61,237,933	49,315,602
Industrial .....	3,498	65,631,233	13,615,357	3,803	75,384,932	17,903,855
Commercial .....	35,879	25,897,786	11,445,054	51,431	30,979,564	15,346,243
Miscellaneous <sup>2</sup> .....	506	157,159	99,817	440	1,181,027	597,866
Total .....	514,162	143,725,649	64,632,458	645,646	168,783,456	83,163,566
Total - all gas .....	902,766	163,763,992	85,335,789	1,019,932	184,738,053	99,725,581

<sup>1</sup> As of December 31.<sup>2</sup> Includes some free customers.

Note: The sales figures for manufactured gas, as recorded in this table, differ slightly from those given in Table 25 because they represent sales by distributing companies to consumers. Some petroleum refinery gas was treated and distributed by the natural gas companies.

TABLE 23. Sales<sup>1</sup> of Manufactured and Natural Gas in Canada, 1948-57 (As Reported by Distributors)

Year	Manufactured gas		Natural gas		Total - all gas	
	Quantity sold	Revenue from sales	Quantity sold	Revenue from sales	Quantity sold	Revenue from sales
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
1952 .....	26,304,679	31,742,360	66,005,785	27,102,380	92,310,464	58,844,740
1953 .....	25,878,673	32,220,770	70,674,487	30,167,246	96,553,160	62,388,016
1954 .....	26,314,648	33,118,641	87,466,838	36,140,718	113,781,480	69,259,359
1955 .....	18,937,587	20,258,776	117,800,311	55,181,479	136,737,898	75,440,255
1956 .....	20,038,343	20,683,331	143,725,649	64,652,458	163,763,992	65,335,789
1957 .....	15,954,597	16,562,015	168,783,456	83,163,566	184,738,053	99,725,581

<sup>1</sup> See footnote to Table 22.

TABLE 24. Sales of Coke of All Kinds by Retail Fuel Dealers, Calendar Years, 1956 and 1957

	1956	1957
	tons	
<b>(a) By areas</b>		
Newfoundland.....	—	—
Prince Edward Island.....	1,808	1,639
Nova Scotia.....	11,525	8,583
New Brunswick.....	6,009	5,464
Total Atlantic provinces.....	19,342	15,686
Montreal area.....	84,911	70,754
Quebec area.....	7,724	4,842
Kingston area.....	1,770	1,353
Northern area (northern Quebec and northeastern Ontario).....	3,146	3,324
Ottawa area.....	16,812	12,457
Toronto area.....	34,021	26,053
Western area.....	750	404
Windsor area.....	11,121	8,335
Total Quebec and Ontario.....	160,255	127,522
Manitoba.....	21,084	17,756
Saskatchewan.....	—	—
Alberta.....	—	—
British Columbia.....	—	—
Total Western provinces.....	21,084	17,756
Canada.....	200,681	160,964
<b>(b) By selected cities</b>		
Halifax.....	3,069	2,467
Saint John.....	437	286
Montreal.....	75,950	83,769
Quebec.....	1,917	1,013
Toronto.....	7,436	5,060
Hamilton.....	13,033	10,555
Ottawa (including Hull).....	12,145	9,214
Windsor.....	2,293	1,805
Winnipeg.....	20,760	17,456

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

TABLE 25. Production and Sales of Manufactured Gas, 1948-1957

Year	From by-product and gas plants			Production of still gas from petroleum refineries	
	Production <sup>1</sup>	Sales			
		Quantity	Income from sales		
	M cu. ft.	M cu. ft.	\$	M cu. ft.	
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	
1952.....	78,651,418	26,277,503	30,911,194	19,602,387	
1953.....	82,516,083	25,917,492	32,340,134	20,762,933	
1954.....	70,228,890	26,459,368	32,920,031	20,368,575	
1955.....	74,509,459	18,984,203	19,846,419	22,606,560	
1956.....	78,571,278	19,547,028	20,122,843	27,857,159	
1957.....	74,477,992	15,861,191	14,875,883	36,295,172	

<sup>1</sup> 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 26. Production of Crude Coal Tar, by Provinces, 1955-1957

Province	1955	1956	1957	Imperial gallons	
Nova Scotia.....	6,480,284	6,788,609	7,633,006		
Quebec.....	4,834,979	4,978,417	4,766,844		
Ontario.....	28,646,239	30,453,350	29,978,009		
Manitoba.....	445,412	431,711	348,287		
British Columbia.....	2,726,600	2,547,251	925,318		
Canada.....	43,133,514	45,199,338	43,651,464		

TABLE 27. Production, Imports and Exports of Ammonium Sulphate, 1948-1957

Year	Production <sup>1</sup>		Imports		Exports	
	Tons	Value	Tons	Value	Tons	Value
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
1952 .....	226,664	9,817,579	845	46,195	199,681	8,717,210
1953 .....	186,540	8,200,124	21,254	925,636	147,371	6,492,953
1954 .....	173,493	7,555,150	14,102	601,620	154,760	6,964,552
1955 .....	311,373	11,533,836	7,029	311,212	N.A.	10,978,475
1956 .....	339,510	10,395,934	3,144	142,789	N.A.	12,072,905
1957 .....	318,634	7,940,151	3,288	129,827	N.A.	9,300,315

<sup>1</sup> Includes output of ammonium sulphate produced or recovered in other industries.

TABLE 28. Employees and their Earnings in the Coke and Gas Industry, by Provinces, 1956 and 1957

Province	Number of employees				Earnings			
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	
	Male	Female	Male	Female				
number								
1956								
Quebec .....	104	18	651	—	773	554,021	2,179,951	2,733,972
Ontario .....	224	106	1,380	—	1,710	1,475,971	6,038,096	7,514,067
British Columbia, Manitoba and Nova Scotia .....	119	41	691	—	851	711,550	2,812,709	3,524,259
Canada .....	447	165	2,722	—	3,334	2,741,542	11,030,756	13,772,298
1957								
Quebec .....	109	28	455	—	592	658,686	1,733,531	2,392,217
Ontario .....	254	95	1,381	—	1,730	1,356,791	6,390,358	7,747,149
British Columbia, Manitoba and Nova Scotia .....	161	41	517	2	721	805,629	2,233,733	3,039,362
Canada .....	524	164	2,353	2	3,043	2,821,106	10,357,622	13,178,728

TABLE 29. Production Workers, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
number						
January .....	2,629	—	2,629	2,304	2	2,306
February .....	2,642	—	2,642	2,331	2	2,333
March .....	2,682	—	2,682	2,362	2	2,364
April .....	2,706	—	2,706	2,326	2	2,328
May .....	2,708	—	2,708	2,344	2	2,346
June .....	2,771	—	2,771	2,423	2	2,425
July .....	2,797	—	2,797	2,440	2	2,442
August .....	2,778	—	2,778	2,424	2	2,426
September .....	2,773	—	2,773	2,390	3	2,393
October .....	2,727	—	2,727	2,322	3	2,325
November .....	2,709	—	2,709	2,320	—	2,320
December .....	2,745	—	2,745	2,199	—	2,199
Average .....	2,722	—	2,722	2,353	2	2,355

TABLE 30. Fuel and Electricity Used in the Coke and Gas Industry, 1956 and 1957

Kind	1956		1957		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Bituminous coal (a) From Canadian mines .....	ton	7,820	66,062	6,596	63,267
(b) Imported .....	"	17,592	129,985	21,610	161,433
Anthracite coal .....	"	1,119	10,318	—	—
Coke .....	"	150,033	2,215,617	115,697	1,820,974
Gasoline (Including gasoline used in cars and trucks) .....	Imp. gal.	71,802	24,519	71,255	24,996
Kerosene .....	"	563	145	830	218
Fuel oil .....	"	905,342	94,109	480,305	60,342
Gas (a) Liquefied petroleum gases .....	"	7,190	683	1,400	300
(b) Other manufactured gas .....	M cu. ft.	14,903,471	3,772,597	12,622,090	3,717,698
Other fuel .....	—	—	50,189	—	37,956
Electricity purchased .....	kwh.	92,311,859	636,360	79,926,038	565,419
Total .....	—	—	7,000,584	—	6,452,603

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## Directory of Firms in the Coke and Gas Industry, 1957

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).
<b>1. COKE PLANTS</b>	
By-product ovens	
Dominion Iron & Steel Ltd. Sydney, Nova Scotia	In use — 114 Koppers Becker Underjet Fired (988,690 tons)
Quebec Natural Gas Corporation 435 St. Patrick St., Ville La Salle, Quebec.	In use — 74 Koppers Becker type horizontal ovens (656,000 tons); 4 Koppers Kerpely ring type producers (12,700,000 M. cu. ft.); 5 water gas sets (8,800,000 M. cu. ft.)
Algoma Steel Corporation Ltd. (Great Northern Gas Co. Ltd.) Sault Ste. Marie, Ontario	In use — 53 Wilputte ovens (357,700 tons), and 143 Koppers ovens (1,277,500 tons)
Dominion Foundries and Steel Limited, Depew St., Hamilton, Ontario	In use — 60 Koppers ovens (610,000 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.)
Steel Company of Canada, Limited, Hamilton, Ontario	In reserve or idle — 2 propane vaporizers (600,000 M. cu. ft.)
Winnipeg & Central Gas Company Sutherland Ave. and Gladstone Ave., Winnipeg, Manitoba	In use — 191 Wilputte ovens (1,653,000 tons)
Crow's Nest Pass Coal Co. Ltd. Micbel, British Columbia	In use — 17 Koppers Becker type 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.)
	In use — 52 by-product ovens (266,450 tons)
	In reserve or idle — 234 beehive ovens (126,000 tons) (90 operated Part time)
<b>2. ILLUMINATING AND FUEL GAS PLANTS</b>	
Retort coal gas and carburetted water gas	
Shawinigan Chemicals Ltd. Shawinigan Falls, Quebec	8 chemical type coking stokers of own design (240,000 tons)
Quebec Power Company, Verdun, Quebec	In use — 1 Western Gas water gas set (657,000 M cu. ft.)
Board of Light & Heat Commision, Guelph, Ontario	In reserve or idle — 2 U.G. Co. water gas sets (1,095,000 M cu. ft.)
Interprovincial Utilities Ltd., Lees Ave., Ottawa, Ontario	In use — 6 Glover-West vertical continuous retorts (10,000 tons); 2 Shell Lowe carburetted water gas set (109,500 M cu. ft.); 1 Selas diluter for propane gas (14,000 M. cu. ft.)
Public Utilities Commission, Kitchener, Ontario	In reserve or idle — 2 Glover-West vertical ovens (3,600 tons), In use — 1 carburetted blue gas set (547,000 M cu. ft.)
	In reserve or idle — 1 carburetted blue gas set (547,000 M cu. ft.)
	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.)
Propane gas <sup>1</sup>	
B.C. Electric Co. Ltd., Gas Division, Victoria, British Columbia	
City Gas and Electric Corporation, Ltd., Three Rivers, Quebec	
City of Sherbrooke Gas and Electricity Dept., Sherbrooke, Quebec	
Brockville Public Utilities Commission, Brockville, Ontario	
Shrgas Limited Whitby, Ontario	
Peterborough Utilities Commission, Peterborough, Ontario	
Public Utilities Commission, Kingston, Ontario	

<sup>1</sup> Includes only the concerns which distribute through city gas mains; distributors of propane in cylinders not included.

Note: Names of gas distributing companies in brackets.