

Acting Dominion Statistician:	S. A. Cudmore, M.A. (Oxon.), F.S.S., F.R.S.C.
Chief - Mining, Metallurgical and Chemical Branch:	W. H. Losee, B.Sc.
Statistician - Metal and Chemical Products:	H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT MANUFACTURES OF THE NON-METALLIC MINERALS GROUP

THE COKE AND GAS INDUSTRY, 1940

Production from coke plants and from illuminating and fuel gas plants in Canada during 1940 was valued at \$46,673,660. This output was 19 per cent above the \$39,029,570 of the previous year and set a new record for the industry. Output for the year under review included 3,015,394 tons of coke valued at \$21,937,861 at the works, 55,112,521 M cubic feet of gas of which 55,105,172 M cubic feet valued at \$20,650,489 were sold or used, and by-products valued at \$4,085,330.

Twenty-eight coke and gas works operated in 1940, including 10 by-product and bee-hive plants and 18 retort coal and water gas plants. Fourteen of these works were located in Ontario, 4 in British Columbia, 4 in Quebec, 2 in Manitoba, 2 in Nova Scotia, and 1 in each of New Brunswick and Alberta. In addition to these producers, 1 company in Quebec and 2 in Ontario purchased coke-oven gas and distributed it for domestic or commercial use and data covering their operations have been included to round out the figures for the industry.

Output of coke from gas retorts, by-product and bee-hive ovens totalled 3,015,394 tons in 1940 compared with 2,410,095 tons in 1939 and 2,352,003 tons in 1938. By-product and bee-hive ovens produced 2,725,873 tons of coke in 1940 and gas retorts made 289,521 tons. In addition, 68,334 tons of petroleum coke were recovered in petroleum refineries.

Data on the distribution of coke (except petroleum coke) by the producers show that 246,816 tons were sold direct to domestic consumers, 1,238,710 tons were used in metallurgical works operated by the producing companies, 222,877 tons were used by coke plants as fuel or to make water gas, 507,627 tons were sold direct to consumers for foundry and other uses (other than domestic), 800,816 tons were sold to dealers for resale, and 56,556 tons were sold for export. The total distribution was 3,053,402 tons, including about 22,000 tons withdrawn from producers' stocks during the year. Total stocks of coke in the hands of producers amounted to 289,416 tons at the end of 1940.

Imports of coke made from coal advanced to 719,338 tons in 1940 from 435,871 tons in 1939, but exports declined to 37,535 tons from 48,719 tons. Imports of petroleum coke during this period rose to 135,534 tons from 147,690 tons and exports (including re-exports of imported coke) advanced to 40,433 tons from 35,604 tons.

Manufactured gas, sold and used, amounted to 55,105,172 M cubic feet in 1940, including 45,019,459 M cubic feet from by-product ovens and 10,085,733 M cubic feet from gas plants. Sales of gas by the producers totalled 15,392,723 M cubic feet, of which 8,744,090 M cubic feet were from by-product ovens and 6,648,633 M cubic feet were from gas works. Most of the remaining gas was used as a fuel in the producing plants or in their associated metallurgical works. These figures do not include 41,055 M cubic feet of (Pintsch) oil gas for lighting railway cars, 8,706,834 M cubic feet of still gas recovered at petroleum refineries, nor iron blast furnace gas and some 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 1940 was 433,820 the number of active meters was 506,250, the length of distributing mains was 4,062 miles, and the average calorific value of the gas sold ranged from 450 to 570 B.T.U. per cubic foot.

Table 1 - DISTRIBUTION OF COKE AND GAS MANUFACTURING PLANTS, BY PROVINCES, 1940

Province	COKE PLANTS		GAS PLANTS		TOTAL
	By-product and bee-hive ovens	Retort coal gas only	Water gas only	Retort coal gas and water gas	
Nova Scotia .....	1	1	...	...	2
New Brunswick .....	...	1	...	...	1
Quebec .....	1	1	1	1	4
Ontario .....	4	2	5	3	14
Manitoba .....	1	1	...	...	2
Alberta .....	1	...	...	...	1
British Columbia ...	2	1	...	1	4
CANADA .....	10(x)	7	6	5	28

(x) 8 By-product only, 1 Bee-hive only and 1 both By-product and Bee-hive.

Table 2 - SIZE OF ESTABLISHMENTS, ACCORDING TO QUANTITY OF COAL AND COKE USED FOR GAS-MAKING, 1940

Coal or coke used	Number of plants	Total coal or coke for gas-making
Less than 1,000 tons .....	4	3,046
1,001 - 5,000 .....	7	15,563
5,001 - 15,000 .....	5	51,850
15,001 - 100,000 .....	5	314,476
100,001 - 500,000 .....	3	845,071
Over 500,000 .....	4	2,976,268
<b>TOTAL .....</b>	<b>28</b>	<b>4,206,267</b>

Table 3 - PRINCIPAL STATISTICS OF THE COKE AND GAS INDUSTRY, 1937-1940

Year	Number of companies (x)	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
<b>COKE (By-Product and Bee-hive)</b>							
1937 .....	13	56,416,667	2,314	3,325,958	2,243,977	14,614,177	31,313,459
1938 .....	13	56,952,033	2,227	3,351,614	2,181,609	14,068,917	29,583,633
1939 .....	13	58,691,213	2,827	3,392,800	2,364,768	14,102,330	29,239,336
1940 .....	13	58,666,525	2,421	3,829,937	2,974,347	18,143,915	36,310,334
<b>GAS (Retort and Water Gas)</b>							
1937 .....	20	35,494,583	1,713	2,383,611	662,115	2,603,780	9,789,470
1938 .....	20	36,385,539	1,703	2,447,888	660,711	2,534,726	10,137,397
1939 .....	20	36,234,551	1,716	2,458,314	1,065,625	2,624,115	9,370,884
1940 .....	18	38,081,758	1,674	2,546,528	994,587	2,893,414	10,363,276
<b>TOTAL - COKE and GAS</b>							
1935 .....	44	98,939,160	4,107	5,627,861	2,432,111	15,233,519	38,474,789
1936 .....	42	93,088,722	4,116	5,714,483	2,781,045	16,585,571	39,371,898
1937 .....	33	91,911,250	4,027	5,709,569	2,906,092	17,217,957	41,702,929
1938 .....	33	93,337,572	3,930	5,799,502	2,842,320	16,603,643	39,721,530
1939 .....	33	94,925,764	4,043	5,851,614	3,430,393	16,726,445	39,029,570
1940 .....	31	96,748,283	4,095	6,376,465	3,968,334	21,037,329	46,673,660

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

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

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1939 and 1940

Province	Number of companies	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
<b>1939</b>							
Nova Scotia and New Brunswick .....	3	9,896,464	378	479,330	273,312	2,272,893	4,052,115
Quebec .....	5	11,640,038	648	1,011,091	924,065	3,257,010	10,042,883
Ontario .....	18	54,320,483	2,463	3,553,487	1,992,649	9,647,794	21,033,396
Manitoba and Alberta .....	3	6,038,157	194	291,790	74,469	774,788	1,439,250
British Columbia ...	4	13,030,622	360	515,926	165,898	773,955	2,461,926
<b>CANADA .....</b>	<b>33</b>	<b>94,925,764</b>	<b>4,043</b>	<b>5,851,614</b>	<b>3,430,393</b>	<b>16,726,445</b>	<b>39,029,570</b>

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1939 and 1940 (Concluded)

Province	Number of companies	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
<u>1940</u>							
Nova Scotia and New Brunswick .....	3	11,017,097	428	659,836	512,560	3,609,526	6,341,424
Quebec .....	5	11,527,351	680	1,144,212	986,912	3,740,689	10,805,209
Ontario .....	16	54,065,963	2,422	3,748,502	2,235,544	12,132,878	25,516,288
Manitoba and Alberta ..	3	6,790,306	208	298,557	71,648	797,453	1,454,286
British Columbia .....	4	13,347,561	357	525,358	162,270	756,783	2,556,453
CANADA .....	31	96,748,283	4,095	6,376,465	3,968,934	21,037,329	46,673,660

Table 5 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1939 and 1940

Province	Present value of land, buildings, fixtures, and machinery	Inventory value of materials on hand, stocks in process and finished products	Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	TOTAL CAPITAL EMPLOYED
<u>1939</u>				
Nova Scotia and New Brunswick .....	6,724,880	2,043,255	1,128,329	9,896,464
Quebec .....	8,994,566	2,105,059	540,413	11,640,038
Ontario .....	43,745,699	6,398,063	4,176,721	54,320,483
Manitoba and Alberta ..	5,711,532	276,157	50,468	6,038,157
British Columbia .....	12,454,666	276,839	299,117	13,030,622
CANADA .....	77,631,343	11,099,373	6,195,048	94,925,764
<u>1940</u>				
Nova Scotia and New Brunswick .....	6,805,029	3,049,459	1,162,609	11,017,097
Quebec .....	8,871,931	1,923,138	732,282	11,527,351
Ontario .....	43,029,299	7,141,137	3,895,532	54,065,968
Manitoba and Alberta ..	6,207,004	219,484	363,818	6,790,306
British Columbia .....	12,856,541	299,689	191,331	13,347,561
CANADA .....	77,769,804	12,632,907	6,345,572	96,748,283

Table 6 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1939 and 1940

Province	Average number of employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On Wages					
	Male	Female	Male	Female				
<u>1939</u>								
Nova Scotia and New Brunswick .....	37	11	330	...	378	60,772	418,558	479,330
Quebec .....	179	42	427	...	648	406,521	604,560	1,011,091
Ontario .....	567	197	1,697	2	2,463	1,026,371	2,527,116	3,553,487
Manitoba and Alberta ...	43	25	126	...	194	86,163	205,617	291,780
British Columbia .....	59	3	298	...	360	123,618	392,308	515,926
CANADA .....	885	278	2,878	2	4,043	1,703,455	4,148,159	5,851,614
<u>1940</u>								
Nova Scotia and New Brunswick .....	36	11	381	...	428	64,148	595,688	659,836
Quebec .....	192	43	445	...	680	478,340	665,872	1,144,212
Ontario .....	524	216	1,680	2	2,422	1,039,887	2,708,615	3,748,502
Manitoba and Alberta ...	44	26	158	...	208	100,240	198,317	298,557
British Columbia .....	59	3	295	...	357	129,741	395,617	525,358
CANADA .....	855	299	2,939	2	4,095	1,812,356	4,564,109	6,376,465

Table 7 - WAGE-EARNERS, BY MONTHS, 1939 and 1940 (On the last day of each month)

Month	1 9 3 9			1 9 4 0		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	2,748	2	2,750	2,909	2	2,911
February .....	2,769	2	2,771	2,891	2	2,893
March .....	2,733	2	2,735	2,838	2	2,840
April .....	2,777	2	2,779	2,891	2	2,893
May .....	2,858	2	2,860	3,020	2	3,022
June .....	2,974	2	2,976	2,995	2	2,997
July .....	3,048	2	3,050	2,964	2	2,966
August .....	3,050	2	3,052	2,999	2	3,001
September .....	3,028	2	3,030	2,978	2	2,980
October .....	2,998	2	3,000	2,942	2	2,944
November .....	2,968	2	2,970	2,924	2	2,926
December .....	2,869	2	2,871	2,931	2	2,933
AVERAGE .....	2,878	2	2,880	2,939	2	2,941

Table 8 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1940 (In one week of highest employment; overtime included)

Hours worked per week	1939		Hours worked per week	1940	
	Number of wage-earners	Per cent of total		Number of wage-earners	Per cent of total
30 hours or less .....	79	2.5	51 - 54 hours .....	212	6.7
31 - 43 hours .....	157	5.0	55 hours .....	26	0.8
44 hours .....	377	11.9	56 - 64 hours .....	563	17.7
45 - 47 hours .....	183	5.8	65 hours and over ...	39	1.2
48 hours .....	1,324	41.8	Total .....	3,168	100.0
49 - 50 hours .....	208	6.6	Total wages paid during selected week ...		\$ 84,534

Table 9 - FUEL AND ELECTRICITY USED, 1939 and 1940

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

Kind	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian .....	short ton	10,291	41,291	4,675	24,684
Imported .....	short ton	11,792	64,221	12,044	67,618
Lignite coal - Canadian .....	short ton	5	15	42	126
Coke (all made in users' works) .....	short ton	152,226	1,115,006	148,898	1,092,973
Gasoline .....	Imp. gal.	17,490	2,247	23,372	3,434
Fuel oil .....	Imp. gal.	93,071	3,560	89,899	2,891
Wood .....	cord	3	9	245	1,203
Gas - Manufactured (all made in users' works)	M cu. ft.	15,810,014	1,968,696	22,098,597	2,538,352
Other fuel .....	\$	...	10,393	...	22,660
Electricity purchased .....	K. W. H.	41,351,395	224,955	39,862,662	214,993
TOTAL .....	\$	...	3,430,593	...	3,968,934

Table 10 - POWER EQUIPMENT, 1939 and 1940

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 3 9</u>				
Steam engines and turbines .....	189	8,535	101	5,940
Diesel engines .....	...	...	1	40
Gasoline, gas and oil engines (except diesel) .....	2	19	5	188
Hydraulic turbines or water wheels .....	...	...	1	3
Total Primary .....	191	8,554	108	6,171
Electric motors run by purchased power .....	714	15,337	143	2,951
TOTAL .....	905	23,891	256	9,122
Electric motors run by primary units shown above ...	214	5,731	...	...
Stationary boilers .....	73	15,261	43	15,556
<u>1 9 4 0</u>				
Steam engines and turbines .....	185	9,132	103	5,945
Diesel engines .....	...	...	1	40
Gasoline, gas and oil engines (except diesel) .....	7	119	7	224
Hydraulic turbines or water wheels .....	...	...	1	6
Total Primary .....	192	9,251	112	6,215
Electric motors run by purchased power .....	736	15,531	149	2,845
TOTAL .....	928	24,782	261	9,060
Electric motors run by primary units shown above ...	229	6,265	...	...
Stationary boilers .....	76	16,745	41	15,106

Table 11 - MATERIALS USED IN COKE AND GAS PLANTS, 1939 and 1940

Materials	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal carbonized in ovens or retorts -					
(a) Canadian .....	short ton	1,076,978	4,592,536	1,418,671	6,048,615
(b) Imported .....	short ton	2,194,348	10,672,863	2,699,579	13,795,700
Bituminous coal for making water gas -					
Imported .....	short ton	2,882	21,449	2,699	20,691
Coke for gas-making -					
(a) Purchased .....	short ton	6,339	53,483	7,334	71,921
(b) Companies' own make .....	short ton	79,953	530,179	77,984	532,257
Oil used for enriching water gas .....	Imp. gal.	4,028,892	299,033	4,229,239	282,041
Absorbing and wash oil .....	Imp. gal.	201,602	21,777	220,038	27,743
Caustic soda .....	pound	720,632	10,666	1,500,655	31,184
Lime .....	ton	2,168	21,592	2,608	27,339
Water .....	...	...	14,848	...	20,917
Iron oxide .....	ton	...	35,417	5,417	42,491
Sulphuric acid, 66° Be .....	pound	45,729,750	320,002	61,483,735	432,618
All other materials .....	...	...	132,600	...	203,812
TOTAL COST .....	...	...	16,726,445	...	21,037,329

Table 12 - MATERIALS USED IN COKE AND GAS PLANTS, BY AREAS, 1940

Materials	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 .....	short ton	1,071,156	4,776,538	...	...	347,515	1,272,077
(b) Imported .....	short ton	354,882	1,919,476	2,342,169	11,355,257	2,528	20,967
Bituminous coal for making water gas -							
Imported .....	short ton	142	1,212	2,557	19,479	...	...
Coke for gas-making -							
(a) Purchased .....	short ton	877	8,770	6,457	63,151	...	...
(b) Companies' own make ...	short ton	28,478	242,766	20,365	113,325	29,141	176,166
Oil used for enriching water gas .....	Imp. gal.	161,305	14,782	3,455,528	223,818	612,406	43,441
Absorbing and wash oil .....	Imp. gal.	112,498	15,404	98,203	11,586	9,337	753
Caustic soda .....	pound	548,384	16,486	952,271	14,698	...	...
Lime .....	ton	2,167	23,283	441	4,056	...	...
Water .....	...	...	8,953	...	3,823	...	8,141
Iron oxide .....	ton	2,329	13,619	2,746	23,946	342	4,926
Sulphuric acid, 66° Be .....	pound	28,368,767	182,290	33,114,968	250,323	...	...
All other materials .....	...	...	126,636	...	49,411	...	27,765
TOTAL COST .....	...	...	7,350,215	...	12,132,878	...	1,554,236

Table 13 - PRODUCTS MADE IN COKE AND GAS PLANTS, 1939 and 1940

Products	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
<b>GAS MADE -</b>					
Retort coal gas .....	M cu. ft.	5,120,532	...	5,453,621	...
Coke oven gas .....	M cu. ft.	28,785,955	...	32,496,043	...
Producer gas .....	M cu. ft.	5,689,116	...	9,292,731	...
Water gas .....	M cu. ft.	2,037,110	...	1,870,126	...
Oil gas .....	M cu. ft.	...	...	...	...
TOTAL GAS MADE .....	M cu. ft.	41,632,773	...	55,112,521	...
<b>GAS SOLD OR USED -</b>					
Gas sold .....	M cu. ft.	14,936,102	14,562,246	15,392,723	14,803,049
Gas used in own plants .....	M cu. ft.	15,732,194	2,206,196	22,877,703	2,865,974
Gas used in associated metallurgical works .....	M cu. ft.	9,377,343	1,204,936	13,185,237	1,629,944
Gas otherwise accounted for but not sold .....	M cu. ft.	231,514	74,625	2,128,931	101,301
Gas not accounted for .....	M cu. ft.	1,339,570	1,112,897	1,520,573	1,250,201
TOTAL GAS SOLD OR USED .....	M cu. ft.	41,616,723	19,160,900	55,105,172	20,650,469
<b>COKE MADE -</b>					
Coke from by-product or bee-hive ovens .....	short ton	2,017,709	14,076,442	2,559,332	18,974,117
Coke from gas retorts .....	short ton	249,054	2,213,431	266,509	2,323,609
Coke breeze from by-product ovens ....	short ton	129,501	440,744	166,541	600,534
Coke breeze from gas retorts .....	short ton	13,831	32,900	21,012	39,601
TOTAL COKE .....	short ton	2,410,095	16,763,517	3,015,394	21,937,861
<b>OTHER PRODUCTS -</b>					
Tar .....	Imp. gal.	27,077,070	1,515,071	32,817,895	1,762,324
Ammonia liquor .....	...	...	16,297	...	20,380
Ammonium sulphate .....	pound	57,327,569	683,977	70,986,981	952,014
Benzol .....	Imp. gal.	2,813,014	417,146	5,614,458	715,981
Other light oils, including toluol, xylol, naphthalene, etc. ....	Imp. gal.	3,810,145	472,662	2,301,370	634,631
GRAND TOTAL .....	...	...	39,029,570	...	46,673,660

Table 14 - PRODUCTS MADE IN COKE AND GAS PLANTS, BY AREAS, 1940

Products	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
<u>GAS MADE -</u>							
Retort coal gas .....	M cu.ft.	526,954	...	4,725,700	...	200,967	...
Coke oven gas .....	M cu.ft.	15,363,354	...	21,004,726	...	2,127,983	...
Producer gas .....	M cu.ft.	6,792,565	...	...	...	2,500,166	...
Water gas .....	M cu.ft.	89,796	...	1,748,524	...	51,806	...
Total Gas Made .....	M cu.ft.	22,772,649	...	27,478,950	...	4,860,922	...
<u>GAS SOLD OR USED -</u>							
Gas sold .....	M cu.ft.	5,013,118	5,537,104	8,379,472	7,212,838	2,000,133	2,053,107
Gas used in own plants..	M cu.ft.	10,344,453	1,302,092	9,876,699	1,400,450	2,656,551	163,452
Gas used in associated metallurgical works ...	M cu.ft.	4,865,330	494,563	8,519,907	1,135,381	...	...
Gas otherwise accounted for but not sold .....	M cu.ft.	1,928,040	43,045	200,795	58,170	96	86
Gas not accounted for ..	M cu.ft.	619,531	613,554	699,481	443,223	201,566	193,424
Total Gas Sold or Used ..	M cu.ft.	22,770,472	7,990,358	27,476,354	10,250,042	4,858,346	2,410,069
<u>COKE MADE -</u>							
Coke from by-product or bee-hive ovens .....	short ton	909,757	6,953,201	1,428,991	10,645,778	220,584	1,295,138
Coke from gas retorts...	short ton	37,059	304,000	223,732	1,975,979	7,718	43,630
Coke breeze from by-product ovens .....	short ton	90,498	531,456	62,974	198,733	13,069	70,345
Coke breeze from gas retorts .....	short ton	3,685	13,680	16,606	21,648	721	4,273
Total Coke Made .....	short ton	1,040,999	7,582,337	1,732,303	12,842,138	242,092	1,413,586
<u>OTHER PRODUCTS -</u>							
Tar .....	Imp. gal.	12,193,692	555,726	19,241,763	1,122,374	1,382,440	84,224
Other products .....	\$	...	1,018,212	...	1,501,734	...	5,060
GRAND TOTAL .....	\$	...	17,146,633	...	25,516,288	...	3,910,739

Table 15 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, 1930-1940

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	\$
1930 .....	2,062,764	13,592,418	323,230	2,259,829	2,385,994	15,852,247
1931 .....	1,512,381	10,157,011	320,319	2,262,730	1,832,700	12,419,741
1932 .....	1,331,170	9,085,716	306,531	3,008,789	1,637,701	12,094,505
1933 .....	1,500,448	9,947,600	271,716	2,618,595	1,772,164	12,466,195
1934 .....	1,946,294	13,481,950	295,126	2,379,827	2,243,420	15,861,757
1935 .....	1,962,844	13,121,614	294,760	2,739,545	2,257,604	15,861,159
1936 .....	2,147,810	14,343,959	256,983	2,366,049	2,404,793	16,710,008
1937 .....	2,334,556	16,283,370	235,829	2,182,698	2,570,385	18,466,068
1938 .....	2,120,588	14,599,384	231,415	2,295,683	2,352,003	16,895,067
1939 .....	2,147,210	14,517,186	262,885	2,246,331	2,410,095	16,763,517
1940 .....	2,725,873	19,574,651	289,521	2,363,210	3,015,394	21,937,861

Table 16 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY PROVINCES, 1930 - 1940

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	\$
1930 ...	680,911	4,361,204	1,516,080	10,021,292	189,003	1,469,751	2,385,994	15,852,247
1931 ...	538,126	3,887,746	1,113,509	7,163,526	181,065	1,368,469	1,832,700	12,419,741
1932 ...	403,330	3,115,737	1,087,122	7,876,941	147,249	1,101,327	1,637,701	12,094,505
1933 ...	445,755	2,940,433	1,153,509	8,429,660	172,900	1,196,102	1,772,164	12,466,195
1934 ...	654,305	4,369,150	1,368,709	10,200,363	200,406	1,292,244	2,243,420	15,861,757
1935 ...	730,469	4,738,191	1,334,081	9,363,953	193,054	1,254,015	2,257,604	15,861,159
1936 ...	775,275	4,655,468	1,441,833	10,807,611	187,690	1,246,929	2,404,793	16,710,008
1937 ...	853,122	5,548,042	1,504,334	11,522,965	212,929	1,395,061	2,570,385	18,466,068
1938 ...	754,975	5,040,400	1,365,571	10,339,065	231,457	1,515,602	2,352,003	16,895,067
1939 ...	802,072	5,535,317	1,379,942	9,712,164	228,031	1,468,036	2,410,095	16,763,517
1940 ...	1,040,939	7,582,337	1,732,303	12,842,138	242,092	1,413,386	3,015,394	21,937,861

Table 17 - BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE SOLD AND USED BY PRODUCERS DURING 1939 and 1940, AND STOCKS ON HAND AT END OF YEAR

	Coke	Breeze	TOTAL
	(short tons)		
<u>1 9 3 9</u>			
Coke actually used by reporting companies -			
In coke or gas plant .....	181,538	50,489	232,027
In associated works .....	750,982	48,671	799,653
Coke sold -			
(a) Direct to consumers -			
For domestic use .....	296,719	16,518	313,237
For other uses .....	347,434	51,901	399,335
(b) To dealers for resale .....	770,057	2,652	772,709
TOTAL SOLD OR USED .....	2,346,760	150,231	2,496,991
<u>1 9 4 0</u>			
Coke actually used by reporting companies -			
In coke or gas plant .....	183,752	39,125	222,877
In associated works .....	1,173,230	65,480	1,238,710
Coke sold -			
(a) Direct to consumers -			
For domestic use .....	220,925	25,891	246,816
For other uses .....	471,351	36,276	507,627
(b) To dealers for resale .....	781,544	19,272	800,816
(c) For export .....	36,556	...	36,556
TOTAL SOLD OR USED .....	2,867,358	186,044	3,053,402
Stocks on hand at end of year .....	237,632	51,784	289,416

Table 18 - COAL CARBONIZED, COKE PRODUCED, AND DISTRIBUTION OF COKE BY MANUFACTURERS, 1940

	Bee-hive and by-product plants short tons	Gas retort plants short tons	Total for coke producing plants short tons
Coal carbonized -			
Canadian .....	1,386,172	82,499	1,418,671
Imported .....	2,557,492	342,087	2,699,579
TOTAL .....	3,693,664	424,586	4,118,250
Coke made -			
Coke .....	2,559,552	238,509	2,827,841
Breeze .....	166,541	21,012	187,553
TOTAL .....	2,725,873	289,521	3,015,394
Coke yield .....	73.5	68.2	73.0
Coke used in coke or gas plants -			
Coke .....	52,505	181,249	185,752
Breeze .....	56,348	2,777	59,125
TOTAL .....	88,851	134,026	222,877
Coke used in associated metallurgical works -			
Coke .....	1,173,250	...	1,173,250
Breeze .....	65,480	...	65,480
TOTAL .....	1,238,710	...	1,238,710
Coke sold direct to consumers for domestic use			
Coke .....	141,748	79,177	220,925
Breeze .....	8,100	17,791	25,891
TOTAL .....	149,848	96,968	246,816
Coke sold direct to consumers for other uses -			
Coke .....	451,408	19,945	471,351
Breeze .....	55,485	791	56,276
TOTAL .....	486,893	20,734	507,627
Coke sold to dealers for resale -			
Coke .....	754,940	26,604	781,544
Breeze .....	19,272	...	19,272
TOTAL .....	774,212	26,604	800,816
Coke sold for export .....	33,191	3,365	36,556
<u>TOTAL COKE SOLD AND USED -</u>			
Coke .....	2,607,020	260,338	2,867,358
Breeze .....	164,685	21,359	186,044
TOTAL .....	2,771,705	281,697	3,053,402
Stocks on December 31st, 1940 -			
Coke .....	157,581	80,051	237,632
Breeze .....	50,528	1,256	51,784
TOTAL .....	208,109	81,307	289,416

Table 19 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY MONTHS, 1932-1940 (In 000's of short tons)

Month	1932	1933	1934	1935	1936	1937	1938	1939	1940
January .....	151	150	195	200	212	218	224	203	257
February .....	144	128	169	181	198	198	199	177	225
March .....	156	139	192	198	202	221	218	191	239
April .....	143	122	185	180	190	214	208	184	237
May .....	129	134	185	185	200	218	208	196	252
June .....	119	136	179	180	199	210	192	189	249
July .....	127	145	183	176	193	212	183	190	259
August .....	121	150	189	175	191	214	182	193	257
September .....	127	156	188	180	189	208	184	188	252
October .....	151	173	204	205	212	218	184	226	263
November .....	143	174	199	206	208	217	180	229	258
December .....	147	166	175	192	211	222	190	244	267
TOTAL .....	1,638	1,772	2,243	2,258	2,405	2,570	2,352	2,410	3,015
Monthly Average .....	137	148	187	188	200	214	196	201	251

Table 20 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, 1930-1940

Year	Bee-hive and by-product ovens		Gas Retorts		TOTAL
	Canadian	Imported	Canadian	Imported	
	(short tons)				
1930 .....	640,167	2,097,921	96,299	356,656	3,191,043
1931 .....	468,838	1,576,881	96,044	390,773	2,532,536
1932 .....	351,960	1,413,328	97,304	354,420	2,217,012
1933 .....	557,249	1,488,492	46,768	373,452	2,465,961
1934 .....	803,321	1,836,668	40,982	435,133	3,116,104
1935 .....	943,240	1,734,650	45,914	412,539(x)	3,136,343
1936 .....	1,008,841	1,951,515	48,258	349,884(x)	3,358,498
1937 .....	1,106,706	2,106,960	48,109	318,175(x)	3,579,950
1938 .....	960,492	1,917,995	48,403	301,124(x)	3,228,014
1939 .....	1,020,535	1,871,975	56,393	325,255(x)	3,274,208
1940 .....	1,336,172	2,357,492	82,499	344,786(x)	4,120,949

(x) Includes 3,261 tons used in making water gas in 1935, 3,159 tons in 1936, 2,392 tons in 1937, 3,650 tons in 1938, 2,882 tons in 1939 and 2,699 tons in 1940.

Table 21 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, BY PROVINCES, 1930-1940

Year	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		TOTAL
	Canadian	Imported	Canadian	Imported	Canadian	Imported	
	(short tons)						
1930 .....	515,793	433,414	...	1,963,195	220,673	57,968	3,191,043
1931 .....	338,072	414,179	...	1,516,819	226,810	36,656	2,532,536
1932 .....	271,496	295,114	105	1,435,964	177,663	36,670	2,217,012
1933 .....	334,175	256,086	5,700	1,584,052	214,142	21,806	2,465,961
1934 .....	556,628	359,210	700	1,911,920	286,975	671	3,116,104
1935 .....	708,873	326,342	600	1,820,847	279,681	...	3,136,343
1936 .....	765,743	328,216	15,684	1,973,183	275,672	...	3,358,498
1937 .....	853,949	338,861	6,028	2,060,077	294,838	26,197	3,579,950
1938 .....	673,625	345,319	3,200	1,858,798	335,270	11,802	3,228,014
1939 .....	733,972	352,236	9,260	1,843,570	333,746	1,424	3,274,208
1940 .....	1,071,156	355,024	...	2,344,726	347,515	2,528	4,120,949

Table 22 - PRODUCTION OF PETROLEUM COKE, 1930-1940

Year	Made for Own use		Made for Sale		T O T A L	
	Tons	Selling value	Tons	Selling value	Tons	Selling value
		at works		at works		at works
		\$		\$		\$
1930 .....	23,538	124,363	68,549	392,945	92,087	517,308
1931 .....	20,029	96,676	52,510	280,660	72,339	377,336
1932 .....	19,278	104,181	53,787	293,755	73,065	397,936
1933 .....	20,079	115,400	54,646	322,379	74,725	437,779
1934 .....	9,293	57,961	52,467	200,512	61,760	258,473
1935 .....	8,348	21,256	63,843	372,723	72,191	393,979
1936 .....	2,629	11,687	62,077	381,473	64,706	393,160
1937 .....	2,381	8,942	59,634	371,198	62,015	380,140
1938 .....	634	1,547	63,375	388,753	64,009	390,300
1939 .....	4,238	18,253	62,094	370,936	66,332	389,189
1940 .....	4,876	25,328	63,458	416,262	68,334	441,590

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

Table 23 - TOTAL PRODUCTION OF COKE (including Petroleum Coke) IN CANADA, 1937-1940

		Nova Scotia and New Brunswick	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
		(short tons)				
<u>1 9 3 7</u>						
Coke and gas industry .....	Tons	451,799	401,323	1,504,334	212,929	2,570,385
	\$	2,652,431	2,895,611	11,522,965	1,395,061	18,466,068
Petroleum refining industry..	Tons	373	2,246	56,556	2,840	62,015
	\$	1,504	8,499	357,078	13,059	380,140
TOTAL .....	Tons	452,172	403,569	1,560,890	215,769	2,632,400
	\$	2,653,935	2,904,110	11,880,043	1,408,120	18,846,208
<u>1 9 3 8</u>						
Coke and gas industry .....	Tons	350,234	404,741	1,365,571	231,457	2,352,003
	\$	2,126,335	2,914,065	10,339,065	1,515,602	16,895,067
Petroleum refining industry..	Tons	377	3,530	59,010	1,092	64,009
	\$	1,225	16,535	369,184	3,356	390,300
TOTAL .....	Tons	350,611	408,271	1,424,581	232,549	2,416,012
	\$	2,127,560	2,930,600	10,708,249	1,518,958	17,285,367
<u>1 9 3 9</u>						
Coke and gas industry .....	Tons	390,692	411,380	1,379,942	228,081	2,410,095
	\$	2,607,367	2,975,950	9,712,164	1,468,038	16,763,517
Petroleum refining industry..	Tons	783	3,660	58,762	3,127	66,332
	\$	2,162	15,592	362,965	8,470	389,189
TOTAL .....	Tons	391,475	415,040	1,438,704	231,208	2,476,427
	\$	2,609,529	2,991,542	10,075,129	1,476,506	17,152,706
<u>1 9 4 0</u>						
Coke and gas industry .....	Tons	605,917	435,082	1,732,303	242,092	3,015,394
	\$	4,106,917	3,475,420	12,842,138	1,513,386	21,937,861
Petroleum refining industry..	Tons	541	2,758	61,936	3,099	68,334
	\$	1,498	12,688	414,671	12,733	441,590
TOTAL .....	Tons	606,458	437,840	1,794,239	245,191	3,083,728
	\$	4,108,415	3,488,108	13,256,809	1,526,119	22,379,451

Table 24 - APPARENT CONSUMPTION OF COKE (including Petroleum Coke) IN CANADA, BY PROVINCES, 1936-1940

	P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
	(short tons)				
Apparent consumption - 1936 .....	384,848	500,297	2,143,653	214,025	3,242,823
1937 .....	458,119	477,829	2,044,592	192,352	3,172,892
1938 .....	360,157	448,704	1,691,839	199,476	2,700,176
<u>1 9 3 9</u>					
Production .....	391,475	415,040	1,438,704	231,208	2,476,427
Add - Decline in producers' stocks ...	4,468	11,019	61,737	...	77,224
	395,943	426,059	1,500,441	231,208	2,553,651
Deduct - Increase in producers' stocks	...	...	...	10,729	10,729
	395,943	426,059	1,500,441	220,479	2,542,922
Add - Imports entered for consumption.	3,932	77,164	565,949	12,738	659,783
	399,875	503,223	2,066,390	233,217	3,202,705
Deduct - Exports and re-exports .....	1,085	2,721	54,531	25,986	84,323
Apparent consumption .....	398,790	500,502	2,011,859	207,231	3,118,332
<u>1 9 4 0</u>					
Production .....	606,458	437,840	1,794,239	245,191	3,083,728
Add - Decline in producers' stocks ...	...	32,406	7,048	8,163	47,617
	606,458	470,246	1,801,287	253,354	3,131,345
Deduct - Increase in producers' stocks	23,919	...	...	...	23,919
	582,539	470,246	1,801,287	253,354	3,107,426
Add - Imports entered for consumption.	3,482	140,348	701,705	9,551	855,086
	586,021	610,594	2,502,992	262,905	3,962,512
Deduct - Exports and re-exports .....	1,055	2,314	47,880	25,719	77,968
Apparent consumption .....	584,966	608,280	2,455,112	236,186	3,384,544

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

Table 25 - QUANTITY OF COKE IN THE HANDS OF THE PRODUCERS AT THE END OF 1939 and 1940

	1 9 3 9			1 9 4 0			Difference 1940 from 1939
	Petroleum refineries	Coke and gas plants	TOTAL	Petroleum refineries	Coke and gas plants	TOTAL	
	(short tons)						
Nova Scotia .....	...	5,570	5,570	...	29,273	29,273	+ 23,703
New Brunswick .....	...	31	31	...	247	247	+ 216
Quebec .....	759	72,587	73,346	100	40,840	40,940	- 32,406
Ontario .....	1,575	191,805	193,378	1,396	184,934	186,330	- 7,048
Manitoba .....	...	23,846	23,846	...	15,991	15,991	- 7,855
Saskatchewan .....	1,577	...	1,577	98	...	98	- 1,479
Alberta .....	105	...	105	...	...	...	- 105
British Columbia .....	...	17,240	17,240	385	18,131	18,516	+ 1,276
TOTAL .....	4,016	311,077	315,093	1,979	289,416	291,395	- 23,698

Table 26 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL AREAS, 1936 - 1939

	P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
	(short tons)				
<u>1 9 3 6</u>					
Furnace charges .....	300,129	20,718	652,353	76,793	1,049,993
Manufacturing material .....	281	101,343	141,635	27,688	270,947
Industrial fuel .....	34,032	46,328	247,621	17,416	345,397
Available for domestic use (by difference)	50,406	331,908	1,102,044	92,128	1,576,486
APPARENT CONSUMPTION .....	384,848	500,297	2,143,653	214,025	3,242,823

Table 26 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL AREAS, 1936-1939

	P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
	(short tons)				
<u>1 9 3 7</u>					
Furnace charges .....	358,425	33,087	878,234	68,599	1,338,345
Manufacturing material .....	337	118,959	178,306	36,059	333,661
Industrial fuel .....	38,900	50,585	226,758	11,145	327,388
Available for domestic use (by difference)	60,457	275,198	761,294	76,549	1,173,498
APPARENT CONSUMPTION .....	458,119	477,829	2,044,592	192,352	3,172,892
<u>1 9 3 8</u>					
Furnace charges .....	273,671	25,190	719,307	74,842	1,093,010
Manufacturing material .....	377	112,642	135,774	46,293	295,086
Industrial fuel .....	23,501	43,215	218,158	10,010	294,884
Available for domestic use (by difference)	62,608	267,657	618,600	68,331	1,017,196
APPARENT CONSUMPTION .....	360,157	448,704	1,691,839	199,476	2,700,176
<u>1 9 3 9</u>					
Furnace charges .....	313,050	25,270	769,688	73,958	1,181,966
Manufacturing material .....	368	123,420	133,579	54,470	311,837
Industrial fuel .....	31,829	47,451	218,303	11,584	309,167
Available for domestic use (by difference)	53,543	304,361	890,289	67,219	1,315,412
APPARENT CONSUMPTION .....	398,790	500,502	2,011,859	207,231	3,118,382

- NOTES: 1. Figures showing the tonnage of coke available for domestic use are obtained by differences 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.  
 4. Consumption figures for 1940 are not yet available.

Table 27 - CONSUMPTION OF COKE AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES, 1937-1939

Areas	1 9 3 7	1 9 3 8	1 9 3 9
	(short tons)		
Maritime Provinces .....	38,900	23,501	31,829
Quebec .....	50,585	43,215	47,451
Ontario .....	226,758	218,158	218,303
Western provinces .....	11,145	10,010	11,584
CANADA .....	327,388	294,884	309,167

Table 28 - COKE CHARGED TO BLAST FURNACES AND FOUNDRY CUPOLAS, ETC., 1937-1939

Areas	1 9 3 7	1 9 3 8	1 9 3 9
	(short tons)		
Maritime Provinces .....	358,425	273,671	313,050
Quebec .....	33,087	25,190	25,270
Ontario .....	878,234	719,307	769,688
Western provinces .....	68,599	74,842	73,958
CANADA .....	1,338,345	1,093,010	1,181,966

Table 29 - COKE USED AS A MATERIAL(x) IN MANUFACTURING (except charges to blast furnaces, etc.) 1937-1939

Areas	1 9 3 7	1 9 3 8	1 9 3 9
	(short tons)		
Maritime Provinces .....	337	377	368
Quebec .....	118,959	112,642	123,420
Ontario .....	178,306	135,774	133,579
Western provinces .....	36,059	46,293	54,470
CANADA .....	333,661	295,086	311,837

(x) In making carbon electrodes, water gas, artificial abrasives, etc.

Table 30 - SALES(1) OF PETROLEUM COKE IN CANADA FOR FUEL PURPOSES, 1938-1940 (From "Petroleum Fuels in Canada" issued by the Bureau of Mines, Ottawa)

Areas and Year	Fuel for domestic and industrial heating(2)	Inventory on December 31, including stocks at refineries
1938 .....	52,351	94,040
1939 .....	36,949	147,826
1940 - Maritimes .....	541	...
Quebec .....	330	84,646
Ontario .....	40,269	98,806
Western provinces .....	3,252	105
CANADIAN .....	43,786	...
IMPORTED .....	1,606	...
TOTAL FOR 1940 .....	44,392	183,579

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

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

Table 31 - PRODUCTION AND SALES OF MANUFACTURED GAS, 1930-1940

Year	From by-product and gas plants			Production of still gas from petroleum refineries M cu. ft.
	Production (xx) M cu. ft.	S A L E S		
		Quantity M cu. ft.	Income from sales \$	
1930 .....	35,927,532	17,713,477	13,471,629	3,529,319
1931 .....	30,542,961	17,111,432	13,010,733	5,161,905
1932 .....	27,264,587	17,083,631	12,895,039	3,836,413
1933 .....	29,125,295	15,893,248	11,839,345	3,505,405
1934 .....	40,125,201	15,409,927	15,766,750	3,772,746
1935 .....	39,721,010	15,398,952	15,358,572	5,154,385
1936 .....	44,345,358	15,321,832	15,163,664	6,083,549
1937 .....	46,009,633	15,289,839	14,732,531	6,199,110
1938 .....	42,932,721	15,198,068	15,001,142	6,486,618
1939 .....	41,632,773	14,936,102	14,562,246	7,802,666
1940 .....	55,112,521	15,392,723	14,803,049	8,706,834

(xx) 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 32 - PRODUCTION OF NATURAL GAS, BY PROVINCES, 1939 and 1940

Province	1 9 3 9		1 9 4 0	
	M cu. ft.	Value \$	M cu. ft.	Value \$
New Brunswick .....	606,382	292,406	616,041	300,543
Ontario .....	11,966,581	7,261,928	13,053,403	7,745,834
Manitoba .....	600	180	600	180
Saskatchewan .....	96,423	36,640	100,773	30,232
Alberta .....	22,513,660	4,915,821	27,459,808	4,923,469
Northwest Territories .....	1,500	335	1,500	335
TOTAL .....	35,185,146	12,507,307	41,232,125	13,000,593

Table 33 - SALES OF MANUFACTURED GAS, NUMBER OF CUSTOMERS AND MILEAGE OF PIPE LINES, 1940

Areas	Number of customers	No. of active meters	GAS SALES		Mileage of pipe lines	Approximate population served by mains
			M cu.ft.	\$		
Eastern provinces .....	199,753	227,686	5,013,118	5,537,104	995	1,633,000
Ontario .....	217,851	207,601	8,379,472	7,212,838	2,212	1,256,928
Western provinces .....	66,216	70,963	2,000,133	2,053,107	855	506,266
TOTAL .....	483,820	506,250	15,392,723	14,803,049	4,062	3,396,194

Table 34 - PRODUCTION OF CRUDE COAL TAR, BY PROVINCES, 1938 - 1940

Province	1938	1939	1940
	(Imperial gallons)		
Nova Scotia and New Brunswick .....	5,084,021	5,781,879	8,447,592
Quebec .....	3,845,718	3,581,790	3,746,100
Ontario .....	15,829,487	16,370,250	19,241,765
Manitoba .....	472,049	483,515	400,764
British Columbia .....	849,736	859,836	981,676
<b>CANADA .....</b>	<b>26,081,011</b>	<b>27,077,070</b>	<b>32,817,895</b>

Table 35 - PRODUCTION, IMPORTS AND EXPORTS OF AMMONIUM SULPHATE, 1930 - 1940

Year	PRODUCTION (x)		IMPORTS		EXPORTS	
	Short tons	\$	Short tons	\$	Short tons	\$
1930 .....	23,893	936,417	3,423	137,607	12,010	586,710
1931 .....	28,354	706,197	12,830	369,254	5,627	167,477
1932 .....	57,770	983,077	13,811	280,026	38,741	701,707
1933 .....	82,534	1,437,745	4,156	100,415	62,383	1,081,392
1934 .....	78,292	1,398,251	11,048	245,372	57,704	1,144,164
1935 .....	67,362	1,473,675	4,280	94,222	45,055	977,552
1936 .....	98,483	1,883,088	5,729	148,956	83,835	1,802,818
1937 .....	87,621	1,782,364	3,230	82,440	56,485	1,212,258
1938 .....	119,520	2,590,994	5,911	156,540	77,191	1,697,204
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

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

Table 36 - IMPORTS OF COKE INTO CANADA, BY PORTS OF ENTRY, 1939 and 1940 (Tons of 2,000 pounds)

Port	Source	1939		1940	
		Made from coal	Made from petroleum	Made from coal	Made from petroleum
<b>NOVA SCOTIA -</b>					
Halifax .....	United States	292	...	...	...
	Great Britain	582	...	1,087	...
New Glasgow .....	United States	65	...	29	...
<b>TOTAL - NOVA SCOTIA .....</b>		<b>937</b>	<b>...</b>	<b>1,116</b>	<b>...</b>
<b>QUEBEC -</b>					
Chicoutimi .....	United States	10,570	45,406	10,312	88,812
Drummondville .....	United States	...	...	...	25
Hull .....	United States	38	...	19	...
Montreal .....	United States	2,893	...	3,264	...
	Great Britain	...	...	8,141	...
Quebec .....	United States	155	...	186	...
Rock Island .....	United States	30	...	74	...
Shawinigan Falls .....	United States	776	...	238	92
Sutton .....	United States	4	...	2	...
Three Rivers .....	United States	8,976	8,316	10,310	18,847
Victoriaville .....	United States	...	...	26	...
<b>TOTAL - QUEBEC .....</b>		<b>23,442</b>	<b>53,722</b>	<b>32,572</b>	<b>107,776</b>
<b>ONTARIO -</b>					
Amherstburg .....	United States	11,517	...	11,745	...
Bellefleur .....	United States	711	...	605	...
Bowmanville .....	United States	313	...	335	...
Brantford .....	United States	4,040	...	5,462	...
Brockville .....	United States	28	...	...	...
Chatham .....	United States	7,738	32	8,097	...
Cobourg .....	United States	825	...	690	...
Collingwood .....	United States	202	...	129	...
Port Erie .....	United States	1,881	...	5,791	...

Table 36 - IMPORTS OF COKE INTO CANADA, BY PORTS OF ENTRY, 1939 and 1940 (Tons of 2,000 pounds) (Concluded)

Port	Source	1939		1940	
		Made from coal	Made from petroleum	Made from coal	Made from petroleum
<b>ONTARIO (Concluded) -</b>					
Galt .....	United States	2,522	...	2,536	...
Goderich .....	United States	337	...	44	...
Guelph .....	United States	4,614	...	5,543	...
Hamilton .....	United States	7,975	...	31,760	...
Ingersoll .....	United States	486	...	504	...
Kingston .....	United States	899	37	1,307	...
Kitchener .....	United States	3,178	24	3,548	...
Lindsay .....	United States	650	...	626	...
London .....	United States	8,018	131	9,717	366
Midland .....	United States	362	...	1,758	...
Napanee .....	United States	658	...	53	...
Niagara Falls .....	United States	6,514	15,077	98,106	30,053
North Bay .....	United States	491	...	799	...
Orillia .....	United States	1,759	...	1,944	...
Oshawa .....	United States	1,504	...	1,066	...
Ottawa .....	United States	1,106	...	1,089	...
Owen Sound .....	United States	4,519	...	7,329	...
Paris .....	United States	393	...	341	...
Peterborough .....	United States	471	3	723	4
Picton .....	United States	71	...	107	...
Port Hope .....	United States	1,727	...	1,427	...
St. Catharines .....	United States	8,417	8,143	12,845	330
St. Thomas .....	United States	5,882	66	15,285	...
Sarnia .....	United States	6,019	...	7,270	...
Sault Ste. Marie .....	United States	7,984	...	9,550	...
Simcoe .....	United States	218	...	105	...
Stratford .....	United States	1,423	59	1,130	28
Sudbury .....	United States	60	...	...	...
Thorold .....	United States	...	...	6,185	7,893
Tillsonburg .....	United States	233	...	53	...
Toronto .....	United States	112,083	278	202,504	94
Toronto West .....	United States	...	...	9,498	...
Trenton .....	United States	85	...	57	...
Walkerville .....	United States	27,880	131	30,722	...
Wallaceburg .....	United States	2,906	...	3,163	...
Welland .....	United States	84,387	68,764	106,357	37,237
Windsor .....	United States	46,785	589	52,854	1,076
Woodstock .....	United States	1,328	...	1,634	24
Head of the Lakes -					
Fort William .....	United States	18,209	...	15,881	...
TOTAL - ONTARIO .....		399,388	93,334	676,552	77,105
<b>MANITOBA -</b>					
Emerson .....	United States	20	...	21	...
Gretna .....	United States	28	...	...	...
Winnipeg .....	United States	10,327	...	8,477	...
TOTAL - MANITOBA .....		10,375	...	8,498	...
<b>BRITISH COLUMBIA -</b>					
New Westminster .....	United States	47	314	242	188
Vancouver .....	United States	10	303	358	245
	Great Britain	1,672	...	...	...
Victoria .....	United States	...	17	...	20
TOTAL - BRITISH COLUMBIA .....		1,729	634	600	453
<b>CANADA .....</b>					
	from Great Britain	2,254	...	9,228	...
	United States	433,617	147,690	708,307	185,334
TOTAL - CANADA .....		435,871	147,690	719,338	185,334

Table 37 - EXPORTS OF CANADIAN COKE, BY PORTS OF EXIT, 1939 and 1940 (Tons of 2,000 pounds)

	1 9 3 9		1 9 4 0	
	Made from coal	Made from petroleum	Made from coal	Made from petroleum
<u>NOVA SCOTIA -</u>				
Halifax .....	...	780	26	...
North Sydney .....	1	...	...	...
Sydney .....	53	...	243	...
TOTAL - NOVA SCOTIA .....	54	780	269	...
<u>NEW BRUNSWICK -</u>				
Edmundston .....	40	...	12	...
McAdam Junction .....	1	...	...	...
Saint John .....	...	210	...	772
St. Stephen .....	...	...	2	...
TOTAL - NEW BRUNSWICK .....	41	210	14	772
<u>QUEBEC -</u>				
Coaticook .....	247	...	153	...
Huntingdon .....	77	...	57	...
Lacolle .....	...	...	10	...
Lake Megantic .....	280	...	245	...
Montreal .....	43	2,040	45	1,736
Sutton .....	34	...	68	...
TOTAL - QUEBEC .....	681	2,040	578	1,736
<u>ONTARIO -</u>				
Fort Erie .....	21,168	2,101	8,297	477
Fort Frances .....	...	...	2	...
Niagara Falls .....	174	2,262	10	1,449
St. Catharines .....	...	3	...	...
Sarnia .....	10	...	...	...
Thorold .....	...	...	...	3
Toronto .....	...	...	...	4
TOTAL - ONTARIO .....	21,352	4,366	8,309	1,933
<u>MANITOBA -</u>				
Emerson .....	2	...	7	...
TOTAL - MANITOBA .....	2	...	7	...
<u>ALBERTA -</u>				
Coutts .....	23	...	...	...
TOTAL - ALBERTA .....	23	...	...	...
<u>BRITISH COLUMBIA -</u>				
Cranbrook .....	24,370	...	24,297	366
New Westminster .....	588	...	972	...
Vancouver .....	1,003	...	1,077	...
TOTAL - BRITISH COLUMBIA .....	25,961	...	26,346	366
CANADA - TOTAL .....	48,114	7,396	35,523	4,807
RE-EXPORTS .....	605	28,208	2,012	35,621

Table 38 - GENERAL RATES FOR MANUFACTURED GAS IN CANADIAN TOWNS AND CITIES, 1940

Towns or Cities	Per M cu.ft. Gross	APPROXIMATE		GENERAL	RATE
		Discount		Service charge	
Halifax, N.S.	2.00 - 1.10	10 cents per M		1.00 per month	
Saint John, N.B.	1.85 - 1.45	10 cents per M		60 cents per month	
Quebec, P.Q.	1.50 - 0.99	10 per cent		(x)	
Sherbrooke, P.Q.	1.35 - 1.00	10 per cent		(x)	
Montreal, P.Q.	1.17 - 0.50	10 per cent		14 to 55 cents per meter per month	
Belleville, Ont.	1.60 - 1.00	10 cents penalty		(x)	
Brockville, Ont.	1.50	10 per cent		(x)	
Guelph, Ont.	0.65 - 0.45	10 per cent penalty		(x)	
Kingston, Ont.	1.33	10 per cent		33 cents per month	
Toronto, Ont.	1.05 - 0.62	10 per cent		75 cents per month	
Oshawa, Ont.	2.00 - 0.60	10 per cent penalty		(x)	
Peterborough, Ont.	1.45 - 1.00	10 per cent		45 cents per month	
Kitchener, Ont.	0.95 - 0.80	10 per cent		10 cents meter rent per month	
Waterloo, Ont.	1.23	10 per cent		11 cents per month	
Ottawa, Ont.	1.36 - 1.06	10 cents per M		50 cents per month per meter	
Owen Sound, Ont.	0.83 - 0.45	10 per cent		25 cents per month meter rent	
Stratford, Ont.	1.72 - 1.11	10 per cent		28 cents per month meter rent	
Hamilton, Ont.	0.80 - 0.45	5 to 20 cents per M		(x)	
Sault Ste. Marie, Ont.	1.55 - 0.60	10 cents per M		(x)	
Winnipeg, Man.	1.30 - 0.95	10 cents per M		(x)	
Nelson, B.C.	2.25 - 1.25	25 cents per M		15 cents per meter	
Vancouver, B.C.	1.20 - 0.75 (net)	(x)		(x)	
New Westminster, B.C.)					
Burnaby, B.C. )	1.50 - 0.90 (net)	(x)		25 cents per month meter rent	
Victoria, B.C.	1.20 - 0.75 (net)	(x)		25 cents per month meter rent	

(x) Not mentioned on report.

DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1940

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(a) By-Product

Dominion Steel and Coal Corp. Ltd., Sydney, N.S.	<u>In Use</u> - 180 Koppers horizontal ovens (813,000 tons)
Montreal Coke & Manufacturing Co., (Montreal Light, Heat & Power Consolidated) (3) 435 St. Patrick St., Ville La Salle, Que.	<u>In Use</u> - 59 Koppers Becker type horizontal ovens (560,275 tons); 2 Koppers Kerpely Ring type producers (6,351,000 M cu.ft.) <u>In Reserve or Idle</u> - 2 Koppers Kerpely ring type producers (6,351,000 M cu.ft.); 5 Water Gas sets (8,000,000 M cubic feet)
Algoma Steel Corporation Ltd., (Great Northern Gas Co. Ltd. (5) Sault Ste. Marie, Ont.	<u>In Use</u> - 103 Wilputte ovens (660,000 tons) and 55 Koppers ovens (355,000 tons)
Hamilton By-Product Coke Ovens, Ltd., (United Gas & Fuel Co. Ltd.) (3) Hamilton, Ont.	<u>In Use</u> - 25 Semet-Solvay ovens (175,000 tons), and 35 Wilputte ovens (240,000 tons)
Public Utilities Commission, Owen Sound, Ont.	<u>In Use</u> - 3 Curran-Knowles ovens (12,775 tons)
Steel Company of Canada, Limited, Hamilton, Ont.	<u>In Use</u> - 80 Wilputte ovens (641,232 tons)



DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1940 - (Concluded)

<u>Name of Firms and Location of Plants</u>	<u>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)</u>
<b>2. <u>ILLUMINATING AND FUEL GAS PLANTS - (Concluded)</u></b>	
<u>Retort coal gas and carburetted water gas.</u>	
Brockville Public Utilities Commission (2) Brockville, Ont.	<u>In Use</u> - 2 water gas sets (500,000 M cu.ft.)
Consumers Gas Company of Toronto (1) (2) 19 Toronto St., Toronto, Ont.	<u>In Use</u> - 104 Glover-West vertical retorts (190,000 tons); 220 Drakes Ltd. horizontal retorts (112,420 tons); 8 Lowe Principal water gas sets.
Belleville Public Utilities Commission (1) Belleville, Ont.	<u>In Use</u> - 4 Glover-West continuous vertical retorts (2,075 tons)
Ontario Shore Gas Co. Ltd. (2) Oshawa, Ont.	<u>In Use</u> - 2 water gas sets.
Peterborough Utilities Commission (2) Peterborough, Ont.	<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 (2) Kingston, Ont.	<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 (1) (2) Kitchener, Ont.	<u>In Use</u> - 3 horizontal retorts (5,790 tons); 1 water gas set (219,000 M cu.ft.) <u>In Reserve or Idle</u> - 2 horizontal retorts (5,159 tons); 1 water gas set (219,000 M cu.ft.)
Ottawa Gas Co. (2) Ottawa, Ont.	<u>In Use</u> - 1 carburetted blue gas set (547,500 M cu.ft.) <u>In Reserve or Idle</u> - 1 carburetted blue gas set (547,000 M cu.ft.); 18 vertical ovens (37,500 tons)
Public Utility Commission (1) Stratford, Ont.	<u>In Use</u> - 12 horizontal retorts (5,000 tons) <u>In Reserve or Idle</u> - 6 horizontal retorts (2,500 tons)
Manitoba Power Commission (1) Brandon, Man.	<u>In Use</u> - 12 Russell Mfg. Co. retorts and 12 Kerr-Murray retorts (27,740 M cu.ft.)
Victoria Gas Company, Ltd. (1) (2) Victoria, B.C.	<u>In Use</u> - 16 Glover-West vertical retorts (16,352 tons) <u>In Reserve or Idle</u> - 1 Hemphrey & Glasgow water gas set (500 M cu.ft.)
Corporation City of Nelson (1) Nelson, B.C.	<u>In Use</u> - 4 horizontal retorts (1,000 tons) <u>In Reserve or Idle</u> - 4 horizontal retorts (1,000 tons).

**NOTE:** (1) Indicates that retort coal gas was distributed to customers.  
(2) Indicates that carburetted water gas was distributed.



STATISTICS CANADA LIBRARY  
BIBLIOTHEQUE STATISTIQUE CANADA



1010693150