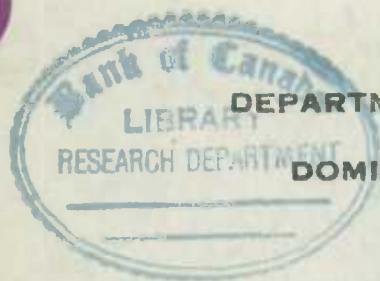


45-203  
FEB 10 1945

Published by Authority of the Hon. James A. MacKINNON, M.P.,  
Minister of Trade and Commerce



CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE COKE AND GAS INDUSTRY

IN

CANADA

1943



OTTAWA  
1945

Price 25 cents

CANADA

DEPARTMENT OF TRADE AND COMMERCE

STATISTICS CANADA

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE COKE AND GAS INDUSTRY

IN

CANADA

1943



OFFICE  
1943

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.

### THE COKE AND GAS INDUSTRY, 1943

Production from coke plants and from illuminating and fuel gas plants in Canada during 1943 was valued at \$60,900,598. This output was 9.2 per cent above the \$55,788,491 of the previous year and set a new record for the industry. Output for the year under review included 3,551,773 tons of coke valued at \$31,339,978 at the works, 74,731,346 M cubic feet of gas of which 74,736,078 M cubic feet valued at \$24,982,378 were sold or used, and by-products valued at \$4,578,242.

Thirty coke and gas works operated in 1943, including 11 by-product and bee-hive plant, 18 retort coal and water gas plants and 1 propane gas plants. Fifteen of these works were located in Ontario, 4 in British Columbia, 5 in Quebec, 2 in Manitoba, 2 in Nova Scotia, 2 in New Brunswick and 1 in Alberta. In addition to these producers, 1 company in Quebec and 2 in Ontario purchased coke-oven gas and distributed it for domestic or commercial use and data covering their operations have been included to round out the figures for the industry.

Output of coke from gas retorts, by-products and bee-hive ovens totalled 3,551,773 tons in 1943 compared with 3,265,549 tons in 1942 and 3,145,715 tons in 1941. By-product and bee-hive ovens produced 3,243,747 tons of coke in 1943 and gas retorts made 308,026 tons. In addition, 81,775 tons of petroleum coke were recovered in petroleum refineries and 17,995 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 153,349 tons were sold direct to domestic consumers; 1,706,520 tons were used in associated works operated by the producing companies; 338,472 tons were used by coke plants as fuel or to make water gas; 660,979 tons were sold direct to consumers for foundry and other uses (other than domestic); 772,063 tons were sold to dealers for resale, and 44,954 tons were sold for export. The total distribution was 3,676,337 tons, including imports by the producers of 116,000 tons. Total stocks of coke in the hands of producers amounted to 218,790 tons at the end of 1943.

Imports into Canada of coke made from coal increased to 920,955 tons in 1943 from 719,910 tons in 1942, and exports increased to 44,954 tons from 44,764 tons. Imports of petroleum coke during this period rose to 334,830 tons from 312,917 tons and exports (including re-exports of imported coke) increased to 56,671 tons from 53,080 tons.

Manufactured gas, sold and used, amounted to 74,736,078 M cubic feet in 1943, including 55,904,976 M cubic feet from by-product ovens and 18,831,102 M cubic feet from gas plants. Sales of gas by the producers totalled 20,403,544 M cubic feet, of which 11,763,455 M cubic feet were from by-product ovens and 8,640,089 M cubic feet were from gas works. Most of the remaining gas was used as fuel in the producing plants or in their associated metallurgical works. These figures do not include 55,361 M cubic feet of (Pintsch) oil gas for lighting railway cars, 10,086,340 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 1943 was 313,098 the number of active meters was 535,727 the length of distributing mains was 3,968 miles, and the average calorific value of the gas sold ranged from 450-570 B.T.U. per cubic foot.

Table 1 - DISTRIBUTION OF COKE AND GAS MANUFACTURING PLANTS, BY PROVINCES, 1943.

Province	Coke Plants		Gas Plants			T O T A L
	By-product and bee-hive ovens	Retort coal gas only	Water gas only	Retort coal gas and water gas	Propane gas	
Nova Scotia .....	1	1	...	...	...	2
New Brunswick .....	...	1	...	...	...	1
Quebec .....	1	1	1	1	1	5
Ontario .....	5	2	5	3	...	15
Manitoba .....	1	1	...	...	...	2
Alberta .....	1	...	...	...	...	1
British Columbia .....	2	1	...	1	...	4
CANADA .....	11	7	6	5	1	30

(x) 9 By-product only, 1 bee-hive only and 1 both by-product and bee-hive.



Table 2 - SIZE OF ESTABLISHMENTS, ACCORDING TO QUANTITY OF COAL CHARGED TO OVENS OR RETORTS, 1943.

Coal used	Number of plants(x)	Total coal for gas making
Less than 1,000 tons .....	1	921
1,001 - 5,000 .....	5	11,500
5,001 - 15,000 .....	4	41,940
15,001 - 100,000 .....	3	99,020
100,001 - 500,000 .....	6	1,213,374
Over 500,000 .....	4	3,309,316
TOTAL(x) .....	23	4,676,071

(x) Does not include 6 plants which made water gas only, and 1 plant which made propane gas only.

Table 3 - PRINCIPAL STATISTICS OF THE COKE AND GAS INDUSTRY, 1939-1943

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
		\$		\$	\$	\$	\$
COKE (By-product and Bee-hive)							
1939 .....	13	58,691,213	2,327	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	36,310,384
1941 .....	13	59,445,268	2,488	4,073,482	3,611,421	20,505,807	39,999,164
1942 .....	13	59,860,146	2,536	4,462,503	3,809,802	23,083,418	43,858,560
1943 .....	14	68,359,510	2,718	5,112,660	4,138,202	27,293,247	48,478,935
GAS (Retort and Water Gas)							
1939 .....	20	36,234,551	1,716	2,458,814	1,065,625	2,624,115	9,870,884
1940 .....	18	38,081,758	1,674	2,546,528	994,587	2,893,414	10,363,276
1941 .....	18	38,449,081	1,802	2,458,621	950,169	3,402,071	10,819,556
1942 .....	18	38,021,944	1,865	2,819,400	1,063,414	4,211,087	11,929,931
1943 .....	19	41,105,712	1,663	2,842,938	940,708	5,141,420	12,421,663
TOTAL - Coke and Gas							
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	3,968,934	21,037,329	46,673,660
1941 .....	31	97,894,349	4,290	6,532,103	4,561,590	23,907,878	50,818,720
1942 .....	31	97,882,090	4,401	7,281,903	4,873,216	27,294,505	55,788,491
1943 .....	33	109,465,222	4,381	7,955,598	5,078,910	32,434,667	60,900,598

(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, 1942 and 1943.

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
		\$		\$	\$	\$	\$
1942							
Nova Scotia and New Brunswick .....	3	10,958,786	451	722,979	631,859	4,147,954	7,177,270
Quebec .....	5	11,559,154	695	1,310,575	1,179,702	5,179,517	12,424,234
Ontario .....	16	55,075,741	2,641	4,204,798	2,661,532	15,847,543	31,073,807
Manitoba and Alberta .....	3	6,189,403	218	323,926	110,668	938,530	1,734,165
British Columbia ...	4	14,099,006	396	719,625	289,455	1,180,961	3,379,015
CANADA .....	31	97,882,090	4,401	7,281,903	4,873,216	27,294,505	55,788,491

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1942 and 1943 (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>1943</u>							
Nova Scotia and New Brunswick .....	3	10,584,927	457	763,438	592,274	3,922,019	6,382,994
Quebec .....	6	11,806,896	694	1,392,973	1,280,024	6,359,917	13,466,787
Ontario .....	17	66,473,788	2,613	4,747,433	2,740,891	19,816,608	35,383,368
Manitoba and Alberta	3	6,082,545	210	346,372	94,583	936,437	1,781,054
British Columbia ...	4	14,517,066	407	705,382	371,138	1,399,686	3,886,395
CANADA .....	33	109,465,222	4,381	7,955,598	5,078,910	32,434,667	60,900,598

Table 5 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1942 and 1943.

Province	Present value of land, buildings, fixtures, and machinery	Value of Inventories		Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	TOTAL CAPITAL EMPLOYED
		Raw materials and other supplies on hand and stocks in process	Finished products on hand		
	\$	\$	\$	\$	\$
<u>1942</u>					
Nova Scotia and New Brunswick .....	6,930,467	2,575,332	300,101	1,152,886	10,958,786
Quebec .....	8,521,006	2,095,293	124,953	817,902	11,559,154
Ontario .....	43,627,823	7,737,528	525,700	3,184,690	55,075,741
Manitoba and Alberta	5,712,275	93,359	14,003	369,766	6,189,403
British Columbia ...	13,576,670	196,001	44,511	281,824	14,099,006
CANADA .....	78,368,241	12,697,513	1,009,268	5,807,068	97,882,090
<u>1943</u>					
Nova Scotia and New Brunswick .....	7,119,850	2,105,540	200,032	1,159,505	10,584,927
Quebec .....	8,758,725	2,148,669	100,472	799,030	11,806,896
Ontario .....	52,715,203	8,822,874	503,853	4,431,858	66,473,788
Manitoba and Alberta	5,583,755	107,154	22,062	369,574	6,082,545
British Columbia ...	13,784,572	321,186	70,692	340,616	14,517,066
CANADA .....	87,962,105	13,505,423	897,111	7,100,583	109,465,222

Table 6 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1942 and 1943.

Province	Average number of employees					Salaries	Wages	TOTAL
	On Salaries		On Wages		TOTAL			SALARIES and WAGES
	Male	Female	Male	Female				
1942								
Nova Scotia and New Brunswick .....	44	12	395	...	451	75,314	647,665	722,979
Quebec .....	206	54	435	...	695	601,561	709,014	1,310,575
Ontario .....	679	243	1,719	...	2,641	1,492,423	2,712,375	4,204,798
Manitoba and Alberta	57	27	134	...	218	119,020	204,906	323,926
British Columbia ...	64	7	325	...	396	156,803	562,822	719,625
CANADA .....	1,050	343	3,008	...	4,401	2,445,121	4,836,782	7,281,903
1943								
Nova Scotia and New Brunswick .....	30	19	394	14	457	81,400	682,038	763,438
Quebec .....	208	61	425	...	694	629,736	763,237	1,392,973
Ontario .....	464	256	1,844	49	2,613	1,313,502	3,433,931	4,747,433
Manitoba and Alberta	55	26	129	...	210	122,375	223,997	346,372
British Columbia ...	56	13	338	...	407	143,271	562,111	705,382
CANADA .....	813	375	3,130	63	4,381	2,290,294	5,665,314	7,955,598



Table 7 - WAGE-EARNERS, BY MONTHS, 1942 and 1943 (Number on pay-roll on the last day of each month)

Month	1 9 4 2			1 9 4 3		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	2,945	...	2,945	3,032	51	3,083
February .....	2,933	...	2,933	3,020	51	3,071
March .....	2,953	...	2,953	3,063	51	3,114
April .....	2,985	...	2,985	3,068	51	3,119
May .....	3,033	...	3,033	3,077	55	3,132
June .....	3,060	...	3,060	3,119	61	3,180
July .....	3,077	...	3,077	3,185	61	3,246
August .....	3,052	...	3,052	3,213	70	3,283
September .....	3,031	...	3,031	3,196	71	3,267
October .....	2,994	...	2,994	3,182	76	3,258
November .....	3,005	...	3,005	3,222	76	3,298
December .....	3,018	...	3,018	3,187	80	3,267
AVERAGE .....	3,008	...	3,008	3,130	63	3,193

Table 8 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1942 and 1943 (In one week of highest employment; overtime included)

Hours worked per week	Number of Wage-earners		Hours worked per week	Number of Wage-earners	
	1942	1943		1942	1943
30 hours or less .....	121	225	51-54 hours .....	293	279
31-43 hours .....	287	424	55 hours .....	27	31
44 hours .....	286	379	56-64 hours .....	442	526
45-47 hours .....	124	183	65 hours and over ....	65	161
48 hours .....	1,433	1,189	Total .....	3,215	3,551
49-50 hours .....	137	154	Total wages paid during selected week ..\$	98,355	120,413

Table 9 - FUEL AND ELECTRICITY USED, 1942 and 1943.

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

Kind	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian .....	ton	14,513	68,089	20,799	98,652
Imported .....	ton	16,169	105,618	17,671	121,444
Lignite coal - Canadian .....	ton	157	494	90	306
Coke .....	ton	156,112	1,137,247	164,476	965,914
Gasoline .....	Imp. gal.	47,704	12,119	111,924	31,710
Fuel oil .....	Imp. gal.	269,641	11,419	118,539	5,129
Wood .....	cord	...	...	1	11
Gas--Manufactured (all made in users' works) ..	M cu.ft.	25,197,167	3,147,426	29,059,046	3,440,387
Other fuel .....	...	...	121,565	...	110,320
Electricity purchased .....	K.W.H.	50,936,869	268,301	57,364,219	305,037
TOTAL .....	...	...	4,873,216	...	5,078,910

Table 10 - POWER EQUIPMENT, 1942 and 1943.

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 2</u>				
Steam engines and turbines .....	181	9,813	104	6,086
Diesel engines .....	...	...	1	40
Gasoline, gas and oil engines (except diesel) .	8	149	8	272
Hydraulic turbines or water wheels .....	...	...	1	6
Total Primary .....	189	9,962	114	6,404
Electric motors run by purchased power .....	741	14,260	135	3,772
TOTAL .....	930	24,222	249	10,176
Electric motors run by primary units shown above	238	6,296	...	...
Stationary boilers .....	82	18,279	42	15,161
<u>1 9 4 3</u>				
Steam engines and turbines .....	184	9,857	104	6,023
Diesel engines .....	1	26	1	40
Gasoline, gas and oil engines (except diesel) .	27	1,133	13	361
Hydraulic turbines or water wheels .....	...	...	1	6
Total Primary .....	212	11,016	119	6,430
Electric motors run by purchased power (except motor generator sets) .....	974	18,889	167	4,228
TOTAL .....	1,186	29,905	286	10,658
Electric motors run by primary units shown above	110	3,945	...	...
Stationary boilers .....	87	19,207	39	14,538
Motor generator sets .....	1	15	...	...

Table 11 - MATERIALS USED IN COKE AND GAS PLANTS, 1942 and 1943.

Material	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal carbonized in ovens or retorts -					
(a) Canadian .....	tons	1,487,994	6,835,656	1,227,015	5,702,774
(b) Imported .....	tons	2,979,867	17,617,276	3,548,484	23,201,694
Bituminous coal for making water gas -					
Imported .....	tons	4,030	35,985	5,104	47,412
Coke for gas-making -					
(a) Purchased .....	tons	9,356	97,281	11,322	124,853
(b) Companies' own make .....	tons	128,777	1,104,075	169,433	1,466,064
Oil used for enriching water gas .....	Imp. gals.	7,772,275	593,015	9,905,667	786,058
Absorbing and wash oil .....	Imp. gals.	276,019	36,317	289,869	39,864
Caustic soda .....	lb.	2,014,886	39,042	1,636,645	34,092
Lime .....	tons	2,517	27,427	2,189	23,896
Water .....	...	...	24,325	...	34,790
Iron oxide .....	tons	4,600	33,790	6,568	45,946
Sulphuric acid, 66° Bé .....	lb.	64,114,815	493,332	62,203,340	460,311
All other materials .....	...	...	356,984	...	466,913
TOTAL COST .....	...	...	27,294,505	...	32,434,667



Table 12 - MATERIALS USED IN COKE AND GAS PLANTS, BY AREAS, 1943.

Material	Unit of measure	Eastern Provinces		Ontario		Western Provinces	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$
Bituminous coal carbonized in ovens and retorts -							
(a) Canadian .....	ton	798,834	3,876,175	...	...	423,191	1,826,599
(b) Imported .....	ton	702,107	5,183,193	2,846,377	18,018,501	...	...
Bituminous coal for making water gas -							
Imported .....	ton	184	1,840	4,920	45,572	...	...
Coke for gas-making -							
(a) Purchased .....	ton	1,036	11,707	9,627	106,907	659	6,239
(b) Companies' own make ..	ton	64,572	650,590	59,708	474,368	45,153	341,706
Oil used for enriching water gas .....	Imp.gal.	612,376	55,268	7,815,180	611,493	1,478,111	119,297
Absorbing and wash oil .....	Imp.gal.	133,989	20,168	144,630	18,776	11,250	920
Caustic soda .....	pound	771,305	20,189	865,340	13,903	...	...
Lime .....	ton	1,854	20,899	335	2,997	...	...
Water .....	...	...	9,992	...	9,301	...	15,497
Iron oxide .....	ton	2,733	15,725	3,301	22,358	534	7,863
Sulphuric acid, 66° Be .....	pound	27,823,864	190,318	34,379,476	269,993	...	...
All other materials .....	...	...	225,872	...	222,439	...	18,602
TOTAL COST .....	...	...	10,281,936	...	19,816,608	...	2,336,123

Table 13 - PRODUCTS MADE IN COKE AND GAS PLANTS, 1942 and 1943.

Product	Unit of measure	1942		1943	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$
Gas Made -					
Retort coal gas .....	M cu.ft.	5,131,152	...	5,069,024	...
Coke oven gas .....	M cu.ft.	43,228,790	...	44,137,447	...
Producer gas .....	M cu.ft.	16,171,807	...	20,354,129	...
Water gas .....	M cu.ft.	4,248,453	...	5,070,328	...
Propane gas .....	M cu.ft.	59,090	...	100,418	...
TOTAL GAS MADE .....	M cu.ft.	68,839,292	...	74,731,346	...
Gas Sold or Used -					
Gas sold .....	M cu.ft.	18,913,230	17,316,135	20,403,544	18,609,364
Gas used in own coke or gas plants ...	M cu.ft.	25,212,211	3,405,110	29,317,493	3,560,416
Gas used in associated metallurgical works .....	M cu.ft.	21,840,825	1,837,253	23,173,827	1,879,389
Gas otherwise accounted for but not sold .....	M cu.ft.	340,132	81,409	272,903	55,864
Gas not accounted for .....	M cu.ft.	1,449,551	826,134	1,568,311	877,345
TOTAL GAS SOLD OR USED .....	M cu.ft.	67,755,949	23,466,041	74,736,078	24,982,378
Coke Made -					
Coke from by-product or bee-hive ovens	ton	2,795,658	24,284,665	2,986,567	27,906,033
Coke from gas retorts .....	ton	284,314	2,668,673	273,202	2,425,215
Coke breeze from by-product ovens ....	ton	171,325	719,400	257,180	935,387
Coke breeze from gas retorts .....	ton	14,252	38,935	34,824	73,343
TOTAL COKE .....	ton	3,265,549	27,711,673	3,551,773	31,339,978
Other Products -					
Tar .....	Imp.gal.	34,286,913	1,994,224	35,534,397	2,126,163
Ammonia liquor .....	lb. NH <sub>3</sub>	1,713,085	18,079	1,701,108	17,155
Ammonium sulphate .....	pound	72,398,424	1,055,868	65,814,880	962,704
Benzol .....	Imp.gal.	5,999,085	797,257	5,823,478	818,656
Toluol, xylol and naphthalene .....	Imp.gal.	2,004,006	708,949	1,741,321	610,452
All other products .....	...	...	36,400	...	43,112
GRAND TOTAL .....	...	...	55,788,491	...	60,900,598



Table 14 - PRODUCTS MADE IN COKE AND GAS PLANTS, BY AREAS, 1943.

Product	Unit of measure	Eastern Provinces		Ontario		Western Provinces	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works	Quantity	Gross selling value at works
			\$		\$		\$
<b>GAS MADE -</b>							
Retort coal gas .....	M cu.ft.	556,108	...	4,271,838	...	241,078	...
Coke oven gas .....	M cu.ft.	15,640,753	...	25,144,456	...	3,352,238	...
Producer gas .....	M cu.ft.	17,216,724	...	152,227	...	2,985,178	...
Water gas .....	M cu.ft.	318,627	...	4,312,558	...	439,143	...
Propane gas .....	M cu.ft.	31,025	...	69,393	...	...	...
Total Gas Made .....	M cu.ft.	33,763,237	...	33,950,472	...	7,017,637	...
<b>GAS SOLD OR USED -</b>							
Gas sold .....	M cu.ft.	6,271,736	5,663,797	11,163,714	9,116,281	2,968,094	2,829,286
Gas used in own plants.	M cu.ft.	12,403,651	1,542,432	13,203,808	1,678,879	3,704,034	339,105
Gas used in associated metallurgical works ..	M cu.ft.	14,444,348	718,014	8,583,479	1,154,075	146,000	7,300
Gas otherwise accounted for but not sold .....	M cu.ft.	7,152	5,537	265,715	50,291	36	36
Gas not accounted for ..	M cu.ft.	610,731	226,643	758,312	564,830	199,268	85,872
Total Gas Sold or Used..	M cu.ft.	33,737,618	9,156,423	33,981,028	12,564,355	7,017,432	3,261,599
<b>COKE MADE -</b>							
Coke from by-product or bee-hive ovens .....	ton	895,716	7,721,352	1,835,784	18,161,559	255,067	2,023,122
Coke from gas retorts..	ton	83,500	894,421	180,581	1,454,228	9,121	75,566
Coke breeze from by-product ovens .....	ton	85,934	410,285	131,867	372,476	39,379	152,626
Coke breeze from gas retorts .....	ton	3,529	12,115	30,511	56,557	784	4,671
Total Coke Made ....	ton	1,068,679	9,038,173	2,178,743	20,044,820	304,351	2,256,985
<b>OTHER PRODUCTS -</b>							
Tar .....	Imp.gal.	11,784,670	563,349	21,689,211	1,432,270	2,060,516	130,544
Other products .....	...	...	1,091,836	...	1,341,922	...	18,321
GRAND TOTAL .....	...	...	19,849,781	...	33,383,358	...	5,557,449

Table 15 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, 1933-1943. (Short tons)

Year	By-product and bee-hive coke		Gas retort coke		T O T A L	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$		\$
1933 .....	1,500,448	9,847,600	271,716	2,618,595	1,772,164	12,466,195
1934 .....	1,948,294	13,481,930	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	15,710,008
1937 .....	2,334,556	16,283,370	235,829	2,182,698	2,570,365	18,466,068
1938 .....	2,120,588	14,599,384	231,415	2,295,683	2,352,003	16,895,067
1939 .....	2,147,210	14,517,186	262,885	2,246,331	2,410,095	16,763,517
1940 .....	2,725,873	19,574,651	289,521	2,363,210	3,015,394	21,937,861
1941 .....	2,847,624	22,484,595	298,091	2,403,428	3,145,715	24,888,023
1942 .....	2,966,983	25,004,065	298,566	2,707,608	3,265,549	27,711,673
1943 .....	3,243,747	28,841,420	308,026	2,498,558	3,551,773	31,339,978

Table 16 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY PROVINCES, 1933-1943. (Short tons)

Year	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		C A N A D A	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$		\$		\$
1933 .....	445,755	2,840,433	1,153,509	8,429,660	172,900	1,196,102	1,772,164	12,466,195
1934 .....	664,305	4,369,150	1,388,709	10,200,363	200,406	1,292,244	2,243,420	15,861,757
1935 .....	730,469	4,738,191	1,334,081	9,868,953	193,054	1,234,015	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	5,583,317	1,379,942	9,712,164	228,081	1,468,036	2,410,095	16,763,517
1940 .....	1,040,999	7,582,337	1,732,303	12,842,138	242,092	1,413,386	3,015,394	21,937,861
1941 .....	1,029,028	8,038,506	1,832,109	14,985,196	234,578	1,864,321	3,145,715	24,888,023
1942 .....	1,127,797	9,258,034	1,839,593	16,328,365	298,159	2,125,274	3,263,549	27,711,673
1943 .....	1,068,679	9,038,173	2,178,743	20,044,820	304,351	2,256,985	3,551,773	31,339,978

Table 17 - BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE SOLD AND USED BY PRODUCERS DURING 1942 and 1943 and STOCKS ON HAND AT END OF YEAR

COKE AND BREEZE AT END OF YEAR				
	Coke	Breeze	TOTAL	
	(Short tons)			
<u>1 9 4 2</u>				
Coke actually used by reporting companies -				
In coke or gas plant .....	238,005	31,333		269,338
In associated works .....	1,547,821	53,393		1,601,214
Coke sold -				
(a) Direct to consumers -				
For domestic use .....	159,388	17,277		176,665
For other uses .....	844,886	77,308		922,194
(b) To dealers for resale .....	387,644	105		387,749
(c) For export .....	38,147	4,227		42,374
TOTAL SOLD OR USED .....	3,216,091	183,643		3,399,734
	Own make	Purchased		
	Coke	Breeze	Coke	Breeze
<u>1 9 4 3</u>				
Coke actually used by reporting companies -				
(a) In coke or gas plant (for fuel or for water gas) .....	254,454	59,659	9,449	14,910
(b) In iron blast furnaces .....	1,335,968	...	202,285	...
(c) In other associated works .....	95,836	72,431	...	...
Coke sold -				
(a) Direct to consumers -				
For domestic use .....	123,013	22,260	564	7,512
For other uses .....	578,826	69,150	10,000	3,003
(b) To dealers for resale .....	715,675	6,756	49,632	...
(c) For export .....	29,842	15,112	...	...
TOTAL SOLD OR USED .....	3,133,614	245,368	271,930	25,425
Stocks of coke on hand at the end of the year.	93,910	110,616	7,110	7,154

NOTE: The above figures on consumption and sales by the producers include 168,000 tons of imported coke in 1942 and 116,000 tons in 1943. Duplication because of interplant sales has been eliminated in each year.



Table 18 - COAL CARBONIZED, COKE PRODUCED, AND DISTRIBUTION OF COKE BY MANUFACTURERS, 1943.

	Bee-hive and by-product plants tons	Gas retort plants tons	Total for coke producing plants tons
Coal carbonized -			
Canadian .....	1,173,469	53,546	1,227,015
Imported .....	3,109,602	438,882	3,548,484
TOTAL .....	4,283,071	492,428	4,775,499
Coke made -			
Coke .....	2,986,567	273,202	3,259,769
Breeze .....	257,180	34,824	292,004
TOTAL .....	3,243,747	308,026	3,551,773
Coke yield .....	75.7	62.6	74.3
Coke used in coke or gas plants -			
Coke .....	105,599	158,304	263,903
Breeze .....	51,319	23,250	74,569
TOTAL .....	156,918	181,554	338,472
Coke used in associated works -			
Coke .....	1,569,733	64,356	1,634,089
Breeze .....	72,431	...	72,431
TOTAL .....	1,642,164	64,356	1,706,520
Coke sold direct to consumers for domestic use -			
Coke .....	89,833	33,744	123,577
Breeze .....	18,629	11,143	29,772
TOTAL .....	108,462	44,887	153,349
Coke sold direct to consumers for other uses -			
Coke .....	588,543	283	588,826
Breeze .....	71,385	768	72,153
TOTAL .....	659,928	1,051	660,979
Coke sold to dealers for resale -			
Coke .....	734,716	30,591	765,307
Breeze .....	6,756	...	6,756
TOTAL .....	741,472	30,591	772,063
Coke sold for export .....	44,954	...	44,954
TOTAL COKE SOLD AND USED -			
Coke .....	3,118,266	287,278	3,405,544
Breeze .....	235,632	35,161	270,793
TOTAL .....	3,353,898	322,439	3,676,337
Stocks on December 31, 1943 -			
Coke .....	70,756	30,264	101,020
Breeze .....	117,209	561	117,770
TOTAL .....	187,965	30,825	218,790

NOTE: The above figures on consumption and sales include 116,000 tons of imported coke.

Table 19 - PRODUCTION OF BEE-HIVE, BY PRODUCT AND GAS RETORT COKE, BY MONTHS, 1939-1943 (In 000's of short tons)

Month	1939	1940	1941	1942	1943
January .....	203	257	268	278	232
February .....	177	225	240	253	250
March .....	191	239	266	287	276
April .....	184	237	253	270	268
May .....	196	252	260	277	278
June .....	189	249	248	270	266
July .....	190	259	259	275	308
August .....	193	257	266	274	314
September .....	188	252	263	269	326
October .....	226	263	276	278	349
November .....	229	258	270	269	339
December .....	244	267	277	265	345
TOTAL .....	2,410	3,015	3,146	3,265	3,551
Monthly Average .....	201	251	262	272	296

Table 20 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, 1933-1943.

Year	Bee-hive and by-product ovens		Gas retorts		T O T A L
	Canadian	Imported	Canadian	Imported(x)	
	(tons)				
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	3,136,343
1936 .....	1,008,841	1,951,515	48,258	349,884	3,358,498
1937 .....	1,106,706	2,106,960	48,109	318,175	3,579,950
1938 .....	960,492	1,917,995	48,403	301,124	3,228,014
1939 .....	1,020,585	1,871,975	56,393	325,255	3,274,208
1940 .....	1,336,172	2,357,492	82,499	344,786	4,120,949
1941 .....	1,352,112	2,506,770	82,103	380,859	4,321,844
1942 .....	1,383,171	2,624,343	104,823	359,554	4,471,891
1943 .....	1,173,469	3,109,602	53,546	443,986	4,780,603

(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; 2,699 tons in 1940; 3,522 tons in 1941; 4,030 tons in 1942 and 5,104 in 1943.

Table 21 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, BY PROVINCES, 1933-1943.

Year	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		T O T A L
	Canadian	Imported	Canadian	Imported(x)	Canadian	Imported	
	(tons)						
1933 .....	384,175	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	279,581	...	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
1941 .....	1,020,956	397,814	...	2,489,684	413,259	131	4,321,844
1942 .....	1,051,828	502,626	...	2,481,271	436,166	...	4,471,891
1943 .....	798,824	702,291	...	2,851,297	428,191	...	4,780,603

(x) See footnote to Table 20.



Table 22 - PRODUCTION OF PETROLEUM COKE, 1933-1943.

Year	Made for Own Use		Made for Sale		T O T A L	
	Tons	Selling value at works	Tons	Selling value at works	Tons	Selling value at works
		\$		\$		\$
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
1941 .....	3,138	21,774	67,702	471,564	70,840	493,338
1942 .....	8,950	63,411	64,461	464,326	73,411	527,737
1943 .....	7,141	49,310	74,634	535,853	81,775	585,163

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 and Pitch Coke) IN CANADA, 1940-1943.

		Nova Scotia and New Brunswick	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
<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
Pitch coke .....	Tons	6,482	1,891	6,349	472	15,194
	\$	45,374	17,927	42,248	5,664	111,213
TOTAL .....	Tons	612,940	439,731	1,800,588	245,663	3,098,922
	\$	4,153,789	3,506,035	13,299,057	1,531,783	22,490,664
<u>1 9 4 1</u>						
Coke and gas industry .....	Tons	567,535	461,493	1,832,109	284,578	3,145,715
	\$	3,970,872	4,067,634	14,985,196	1,864,321	24,888,023
Petroleum refining industry	Tons	467	3,673	65,208	1,492	70,840
	\$	1,283	17,385	464,682	9,988	493,338
Pitch coke .....	Tons	8,829	1,192	8,798	570	19,389
	\$	59,475	11,290	64,053	7,284	142,102
TOTAL .....	Tons	576,831	466,358	1,906,115	286,640	3,235,944
	\$	4,031,630	4,096,309	15,513,931	1,881,593	25,523,463
<u>1 9 4 2</u>						
Coke and gas industry .....	Tons	639,698	488,099	1,839,593	298,159	3,265,549
	\$	4,542,247	4,715,787	16,328,365	2,125,274	27,711,673
Petroleum refining industry	Tons	195	...	71,486	1,730	73,411
	\$	491	...	517,386	9,860	527,737
Pitch coke .....	Tons	5,975	807	9,548	904	17,234
	\$	44,427	5,878	80,117	6,767	137,189
TOTAL .....	Tons	645,868	488,906	1,920,627	300,793	3,356,194
	\$	4,587,165	4,721,665	16,925,868	2,141,901	28,376,599
<u>1 9 4 3</u>						
Coke and gas industry .....	Tons	557,696	510,983	2,178,743	304,351	3,551,773
	\$	3,971,707	5,066,466	20,044,820	2,256,985	31,339,078
Petroleum refining industry	Tons	273	1,122	78,897	1,483	81,775
	\$	696	8,938	567,100	8,429	585,163
Pitch coke .....	Tons	5,054	638	11,781	522	17,995
	\$	46,689	6,076	88,497	6,673	147,935
TOTAL .....	Tons	563,023	512,743	2,269,421	306,356	3,651,543
	\$	4,019,092	5,081,480	20,700,417	2,272,087	32,073,076

Table 24 - APPARENT CONSUMPTION OF COKE (including Petroleum and Pitch Coke) IN CANADA, BY PROVINCES, 1939-1943.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
	(tons)				
Apparent consumption - 1939 .....	398,790	500,502	2,011,859	207,231	3,118,382
1940 .....	584,966	608,280	2,455,112	236,186	3,884,544
1941 .....	597,817	612,146	2,609,137	272,927	4,092,027
<u>1 9 4 2</u>					
Production .....	645,868	488,906	1,920,627	300,793	3,356,194
Add decline or deduct increase in producers' stocks .....	-1,713	+7,600	+9,215	+6,046	+21,148
	644,155	496,506	1,929,842	306,839	3,377,342
Add - Imports entered for consumption.	111	204,053	856,637	27,511	1,088,312
	644,266	700,559	2,786,479	334,350	4,465,654
Deduct - Exports and re-exports .....	2,388	1,476	52,193	41,789	97,846
	641,878	699,083	2,734,286	292,561	4,367,808
<u>1 9 4 3</u>					
Production .....	563,023	512,743	2,269,421	306,356	3,651,543
Add decline or deduct increase in producers' stocks .....	+1,760	+1,858	-28,820	-2,512	-27,714
	564,783	514,601	2,240,601	303,844	3,623,829
Add - Imports entered for consumption.	72	308,121	909,228	38,364	1,255,785
	564,855	822,722	3,149,829	342,208	4,879,614
Deduct - Exports and re-exports .....	5,837	1,300	53,137	44,653	104,927
Apparent consumption .....	559,018	821,422	3,096,692	297,555	4,774,687

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 1942 and 1943.

	<u>1 9 4 2</u>			<u>1 9 4 3</u>			Difference 1943 from 1942
	Petroleum refineries	Coke and gas plants	TOTAL	Petroleum refineries	Coke and gas plants	TOTAL	
	(tons)						
Nova Scotia ....	195	11,210	11,405	...	9,643	9,645	- 1,760
New Brunswick ..	...	...	...	...	...	...	...
Quebec .....	...	18,555	18,555	719	15,978	16,697	- 1,858
Ontario .....	315	148,367	148,682	3,320	174,182	177,502	+ 28,820
Manitoba .....	...	1,445	1,445	...	3,041	3,041	+ 1,596
Saskatchewan ...	100	...	100	80	...	80	- 20
Alberta .....	...	...	...	...	...	...	...
British Columbia	...	15,008	15,008	...	15,944	15,944	+ 936
TOTAL .....	610	194,585	195,195	4,119	218,790	222,909	+ 27,714

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

Table 26 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL AREAS, 1939-1942.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
	(tons)				
<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 or other 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



Table 26 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL AREAS, 1939-1942. (Concluded)

	P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and Br. Columbia	CANADA
	(tons)				
<u>1 9 4 0</u>					
Furnace charges .....	471,938	32,710	1,151,805	89,852	1,746,305
Manufacturing material .....	120	156,101	157,087	58,810	372,118
Industrial fuel .....	34,302	52,108	249,941	21,899	358,250
Available for domestic or other use (by difference) .....	78,606	367,361	896,279	65,625	1,407,871
APPARENT CONSUMPTION .....	584,966	608,280	2,455,112	236,186	3,884,544
<u>1 9 4 1</u>					
Furnace charges .....	450,126	44,190	1,358,509	91,326	1,944,151
Manufacturing material .....	...	249,793	192,177	67,905	509,875
Industrial fuel .....	29,097	48,928	252,272	15,469	345,766
Available for domestic or other use (by difference) .....	118,594	269,235	806,179	98,227	1,292,235
APPARENT CONSUMPTION .....	597,817	612,146	2,609,137	272,927	4,092,027
<u>1 9 4 2</u>					
Furnace charges .....	510,725	49,312	1,763,242	93,722	2,417,001
Manufacturing material .....	...	298,191	273,354	62,695	634,240
Industrial fuel .....	36,441	53,980	285,675	21,736	397,832
Available for other uses (mostly domestic) .....	94,712	297,600	412,015	114,408	918,735
APPARENT CONSUMPTION .....	641,878	699,083	2,734,286	292,561	4,367,808

- Notes: 1. Figures showing the tonnage of coke available for domestic or other use are obtained by difference and include the coke used for purposes other than specified in these tables.  
2. No allowance has been made for changes during the year in stocks of coke held by dealers or users.  
3. No allowance has been made for interprovincial shipment of coke.  
4. Consumption figures for 1943 are not yet available.

Table 27 - SALES(1) OF PETROLEUM COKE IN CANADA FOR FUEL PURPOSES, 1940-1943 (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
	Tons	Tons
1940 .....	44,392	183,579
1941 .....	39,150	3,985
1942 .....	29,480	1,986
1943 - Maritimes .....	273	...
Quebec .....	182	731
Ontario .....	17,049	5,487
Western provinces .....	1,364	248
CANADIAN .....	18,868	6,466
IMPORTED .....	...	...
TOTAL FOR 1943 .....	18,868	6,466

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

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

Table 28 - PRODUCTION AND SALES OF MANUFACTURED GAS BY THE COKE AND GAS INDUSTRY, 1933-1943.

Year	From by-product and gas plants			Production of still gas from petroleum refineries
	Production (x)	S A L E S		
		Quantity	Income from sales	
	M cu.ft.	M cu.ft.	\$	M cu.ft.
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	5,154,885
1936 .....	44,345,358	15,321,832	15,163,664	5,083,549
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
1941 .....	57,728,803	16,931,434	15,888,723	9,971,268
1942 .....	68,839,292	18,913,230	17,316,135	7,643,715
1943 .....	74,731,346	20,403,544	18,609,364	10,086,340

(x) 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 29 - SALES OF MANUFACTURED AND NATURAL GAS IN CANADA, 1942 and 1943.

	1 9 4 2			1 9 4 3		
	No. of Customers	Quantity sold	Revenue from sales	No. of Customers	Quantity sold	Revenue from sales
		M cu.ft.	\$		M cu.ft.	\$
<b>MANUFACTURED GAS -</b>						
Domestic .....	462,498	9,592,040	11,194,590	473,992	10,711,654	12,297,425
House heating .....	5,451	991,228	537,457	5,289	1,267,416	695,936
Industrial .....	2,752	4,958,969	2,625,448	3,138	5,543,653	3,091,942
Commercial .....	27,470	3,260,988	2,935,028	26,789	3,492,052	3,106,550
Miscellaneous .....	147	111,172	104,597	115	69,471	65,929
TOTAL .....	498,318	18,914,397	17,397,120	509,323	21,084,246	19,257,782
<b>NATURAL GAS -</b>						
Domestic .....	178,833	15,833,766	7,926,591	182,650	14,480,386	7,048,029
Industrial .....	1,119	6,621,553	1,674,333	1,130	7,589,289	1,970,650
Commercial .....	10,610	6,124,803	1,705,283	10,684	7,035,941	1,892,627
Miscellaneous .....	492	974,299	54,524	509	564,635	41,297
TOTAL .....	191,054	29,554,421	11,360,731	194,973	29,670,251	10,952,603
TOTAL - ALL GAS .....	689,372	48,468,818	28,757,851	704,296	50,754,497	30,210,385

NOTE: The sales figures for manufactured gas as recorded in this table are higher than those given in Table 28 because of some petroleum refinery gas treated and distributed by the natural gas companies.

Table 30 - PRODUCTION OF CRUDE COAL TAR, BY PROVINCES, 1941-1943.

Province	1 9 4 1	1 9 4 2	1 9 4 3
	(Imperial gallons)		
Nova Scotia and New Brunswick .....	8,022,594	8,784,535	8,164,375
Quebec .....	4,019,940	3,846,125	3,620,295
Ontario .....	19,732,520	19,713,889	21,689,211
Manitoba .....	473,305	492,323	459,792
British Columbia .....	1,126,938	1,450,041	1,600,724
CANADA .....	33,375,297	34,286,913	35,534,397

Table 31 - PRODUCTION, IMPORTS AND EXPORTS OF AMMONIUM SULPHATE, 1933-1943.

Year	Production(x)		Imports		Exports	
	Tons	\$	Tons	\$	Tons	\$
1933 .....	82,534	1,437,749	4,156	100,415	62,383	1,081,392
1934 .....	76,292	1,398,251	11,046	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	109,250	2,508,364
1940 .....	115,679	3,217,268	355	13,506	72,485	2,172,049
1941 .....	98,662	3,156,880	57	4,951	59,480	2,147,613
1942 .....	116,796	3,776,372	5,044	185,608	79,236	2,908,266
1943 .....	196,404	6,176,623	39	2,653	141,080	4,794,695

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



DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1943Names 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); 4 Koppers Kerpely Ring type producers (12,702,000 M cu.ft.) <u>In Reserve or Idle</u> - 5 Water Gas sets (8,000,000 M cubic feet)
Algoma Steel Corporation Ltd., (Great Northern Gas Co. Ltd.) (3) Sault Ste. Marie, Ont.	<u>In Use</u> - 103 Wilputte ovens (660,000 tons) and 141 Koppers ovens (1,121,500 tons)
Hamilton By-Product Coke Ovens, Ltd., (United Gas & Fuel Co. Ltd.) (3) Hamilton, Ont.	<u>In Use</u> - 25 Semet-Solvay ovens (175,000 tons), and 35 Wilputte ovens (240,000 tons); 1 Carbureted Water Gas Set (1,095,000 M cu.ft.); 2 Propane Vaporizers (600,000 M cu.ft.)
Ontario Coke Ovens Division, Hamilton By-Product Coke Ovens Ltd., Hamilton, Ont.	<u>In Use</u> - 54 Curran-Knowles Sole Flue Type (328,500 tons) <u>In Reserve or Idle</u> - 4 Galusha Cleveland Ohio Producers (3,504 M cu.ft.)
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)
Winnipeg Electric Company (3) Elec. Railway Chambers, Sutherland Ave. and Gladstone St., Winnipeg, Man.	<u>In Use</u> - 17 Koppers Becker type horizontal ovens (84,500 tons) <u>In Reserve or Idle</u> - 1 Western Gas water gas set (1,460,000 M cu.ft.)
B. C. Electric Power & Gas Co. Ltd. (2) (3) Keefer St., & Carrall St., Vancouver, B.C.	<u>In Use</u> - 45 intermittent Chamber ovens (131,604 tons); 3 internal and 3 external mechanical producers for chamber oven plants; 40 continuous vertical retorts (766,500 M cu.ft.); 2 water gas generators (1,095,000 M cu.ft.)

(b) Bee-hive

International Coal & Coke Co. Ltd., Coleman, Alta.	<u>In Use</u> - 104 bee-hive ovens (109,500 tons)
Crows Nest Pass Coal Co. Ltd., Michel, B.C.	<u>In Use</u> - 230 bee-hive ovens (128,000 tons); 20 by- product ovens (80,000 tons) <u>In Reserve or Idle</u> - 1,072 bee-hive ovens (600,000 tons)

NOTE: Names of gas distributing companies in brackets.

(2) Indicates carbureted water gas was distributed.

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

DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1943 - (Continued)

Names of Firms and Location of Plants	Coke and gas making equipment, including reserve equipment. (Rated annual capacity in tons of coal carbonized or in cubic feet of gas produced given in brackets)
---------------------------------------	---

2. ILLUMINATING AND FUEL GAS PLANTSRetort coal gas and carbureted water gas

Nova Scotia Light & Power Co. Ltd. (1) Halifax, N.S.	<u>In Use</u> - 12 Glover-West continuous vertical retorts (18,000 tons)
New Brunswick Power Company (1) Saint John, N.B.	<u>In Use</u> - 12 Russell horizontal retorts (3,786 tons) <u>In Reserve or Idle</u> - 6 Russell horizontal retorts (1,550 tons)
Shawinigan Chemicals Ltd., Shawinigan Falls, Que.	11 chemical type coking stokers of own design (330,000 tons)
City of Sherbrooke Gas and Electricity Dept. (2) Sherbrooke, Que.	<u>In Use</u> - 1 Western Gas water gas set (146,000 M cu.ft.)
Quebec Power Company (Gas Division) (1) Quebec, P.Q.	<u>In Use</u> - 12 Woodall-Duckham vertical continuous retorts (25,300 tons) 1 U.G.I. (1,000 M cu.ft.) <u>In Reserve or Idle</u> - 1 Western Gas water gas set (1,250 M cu. ft.); 1 U.G.I. water gas set (1,000 M cu.ft.)
Board of Light & Heat Commission (1) Guelph, Ont.	<u>In Use</u> - 6 Glover-West vertical continuous retorts (10,000 tons); 1 Shell Lowe carbureted water gas set (350,000 M cu.ft.) <u>In Reserve or Idle</u> - 2 Glover-West vertical ovens (3,500 tons)
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 (5,475 tons)
Ontario Shore Gas Co. Ltd. (2) Oshawa, Ont.	<u>In Use</u> - 1 water gas set <u>In Reserve</u> - 1 water gas set.
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> - 4 horizontal retorts (5,790 tons); 1 water gas set (219,000 M cu.ft.) <u>In Reserve or Idle</u> - 1 horizontal retort (1,300 tons); 1 water gas set (219,000 M cu.ft.)
Ottawa Gas Co. (2) Ottawa, Ont.	<u>In Use</u> - 1 carbureted blue gas set (547,500 M cu.ft.) <u>In Reserve or Idle</u> - 1 carbureted blue gas set (547,000 M cu.ft.)
Public Utility Commission (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)



DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1943 - (Concluded)Name 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)

2. ILLUMINATING AND FUEL GAS PLANTS - (Concluded)Retort coal gas and carbureted water gas

Manitoba Power Commission (1) Brandon, Man.

In Use - 12 Russell Mfg. Co. retorts and 12 Kerr-Murray retorts (27,740 M cu.ft.)

Victoria Gas Company, Ltd. (1) (2) Victoria, B.C.

In Use - 16 Glover-West vertical retorts (16,352 tons);  
1 Hemphrey & Glasgow water gas set (500 M cu.ft.);  
1 water gas set (500 M cu.ft.)

Corporation City of Nelson (1) Nelson, B.C.

In Use - 8 horizontal retorts (1,500 tons).

-----

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

## Propane Gas

City Gas and Electric Corporation, Three Rivers, Que.

STATISTICS CANADA LIBRARY  
BIBLIOTHÈQUE STATISTIQUE CANADA



1010693158