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**MINING, METALLURGICAL & CHEMICAL BRANCH**

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**THE COKE AND GAS INDUSTRY**  
**IN**  
**CANADA**  
**1936**

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ANNUAL INDUSTRY REPORT - MANUFACTURES OF THE NON-METALLIC MINERALS GROUP.

THE COKE AND GAS INDUSTRY, 1936.

The value of coke gas and by-products made in coke and gas plants in Canada during 1936 was \$39,871,898 compared with \$38,474,789 in 1935 and \$38,272,020 in 1934. In 1936 the coke production amounted to 2,404,793 tons valued at \$16,710,008 at the works; gas sold and used by the producers totalled 44,482,988 M cubic feet worth \$20,219,359, and by-products were worth \$2,942,531.

Thirty-nine coke and gas works were in operation in 1936, including 8 by-product plants, 2 beehive plants, 21 retort coal gas and water gas plants, and 8 establishments for making pintsch oil gas for lighting railway cars. Twenty of these works were located in Ontario, 5 in British Columbia, 4 in Quebec, 3 in Manitoba, 2 in each of Nova Scotia, New Brunswick and Alberta, and 1 in Saskatchewan. In addition to these manufacturers, 3 gas distributing companies, 1 in Quebec and 2 in Ontario, have been included in this industry. These companies purchase coke-oven gas from the producers and distribute it for domestic and commercial use, and data covering their operations have been included in order to round out the figures for the industry; in other cases the manufacturers also distribute the gas which they produce. The plant of the Granby Consolidated Mining, Smelting and Power Company at Anyox, B.C., was closed down in August, 1935; the gas works at London, Ontario, was closed in September 1935 when the city changed over to natural gas, and the gas plant at St. Thomas was closed down in October, 1936.

Output of coke from gas retorts, by-product ovens and beehive ovens totalled 2,404,793 tons in 1936 compared with 2,257,604 tons in 1935 and 2,243,420 tons in 1934. By-product and beehive oven plants produced 2,147,810 tons in 1936 and 256,893 tons were obtained from gas retorts. In addition, 64,706 tons of petroleum coke were recovered as a by-product in the petroleum refining industry.

Data on the distribution of coke (except petroleum coke) by the producers show that 1,189,789 tons were sold for domestic use, 681,087 tons were used in metallurgical works operated by the producing companies, 247,744 tons were used in the coke and gas plants for fuel or for making water gas, and 381,443 tons were sold for other uses. The total distribution of 2,500,063 tons included about 95,270 tons drawn from stocks.

Imports of gas-retort and by-product coke increased to 612,858 tons in 1936 from 532,926 tons in the previous year while exports declined to 18,215 tons from 20,649 tons. Imports of petroleum coke advanced to 88,602 tons from 81,915 tons in 1935, but exports declined to 14,548 tons from 16,491 tons.

Production of manufactured gas from coke and gas plants in 1936 amounted to 44,345,358 M cubic feet of which 37,003,403 M cubic feet were from by-product ovens and 7,341,755 from other plants. Sales of gas by the producers totalled 15,321,832 M cubic feet of which 8,628,470 M cubic feet were from by-product ovens and 6,693,362 M cubic feet were from gas works. Most of the remaining gas was used as fuel in the producing plants or in associated metallurgical works.

The number of customers served with manufactured gas was 476,677 in 1936; the number of active meters was 521,371; the length of distributing mains was 3,785; and the average calorific value of the gas sold ranged from 450 to 550 B.T.U. per cubic foot.

**Table 1 - DISTRIBUTION OF COKE AND GAS MANUFACTURING PLANTS, BY PROVINCES, 1936.**

Provinces	COKE PLANTS		GAS PLANTS			TOTAL
	By-product coke ovens	Bee-hive ovens	Retort coal chiefly	Carburetted water gas chiefly	Pintsch oil gas	
Nova Scotia.....	1	...	1	...	...	2
New Brunswick ...	...	...	1	...	1	2
Quebec .....	1	...	1	1	1	4
Ontario .....	4	...	9	5	2	20
Manitoba .....	1	...	1	...	1	3
Saskatchewan ...	...	...	...	...	1	1
Alberta .....	...	1	...	...	1	2
British Columbia.	1	1	2	...	1	5
<b>CANADA .....</b>	<b>8</b>	<b>2</b>	<b>15</b>	<b>6</b>	<b>8</b>	<b>39</b>

**Table 2 - SIZE OF ESTABLISHMENTS, ACCORDING TO QUANTITY OF GAS PRODUCED, 1936.**

<u>M cubic feet</u>	Number of plants(x)	Total Production
		M cu. ft.
Under 10,000 .....	3	14,896
10,000 - 50,000 .....	8	222,919
50,001 - 100,000.....	3	168,472
100,001 - 175,000 .....	5	731,498
175,001 - 300,000 .....	...	...
300,001 - 600,000 .....	2	662,957
600,001 - 1,000,000 .....	1	638,532
1,000,001 - 4,000,000 .....	1	3,527,656
Over 4,000,000 .....	6	38,327,056
<b>TOTAL .....</b>	<b>29</b>	<b>44,293,986</b>

(x) Excluding 2 bee-hive ovens which did not recover any gas, 8 pintsch gas plants which made comparatively small quantities of oil gas for railway car heating.

Table 3 -- PRINCIPAL STATISTICS OF THE COKE AND GAS INDUSTRY, 1932 - 1936.

Years	No. of manufac- turing plants	Capital employed \$	Average number of em- ployees	Salaries and wages \$	Cost of fuel and elec- tricity \$	Cost of materials at works \$	Gross selling value of products at works \$
<u>COKE (By-Product and Bee-hive)</u>							
1932 .....	9	41,702,610	1,032	1,472,950	1,634,669	8,326,737	15,287,576
1933 .....	10	51,562,853	1,316	1,738,250	1,940,032	9,581,030	17,987,418
1934 .....	10	56,282,977	2,083	2,772,265	2,154,814	13,094,258	26,547,174
1935 .....	10	57,622,800	2,084	2,940,341	1,675,503	12,064,977	26,927,436
1936 .....	10	55,352,751	2,306	3,294,227	2,051,914	13,833,486	29,458,063
<u>GAS (Retort and Water Gas)</u>							
1932 .....	33	51,831,885	2,607	3,424,796	588,745	3,614,961	14,525,074
1933 .....	32	42,662,623	2,210	2,868,058	666,558	3,148,045	11,949,557
1934 .....	51	43,014,418	2,195	2,876,704	628,235	3,337,779	11,724,846
1935 .....	51	41,316,360	2,023	2,687,520	756,608	3,168,542	11,547,353
1936 .....	29	37,735,971	1,810	2,420,256	729,131	2,752,085	10,413,835
<u>TOTAL -- COKE AND GAS</u>							
1932 .....	42	93,534,495	3,639	4,897,746	2,223,414	12,241,698	29,812,650
1933 .....	42	94,225,476	3,526	4,606,308	2,606,590	12,729,075	29,936,975
1934 .....	41	99,297,395	4,278	5,648,969	2,783,049	15,237,031	38,272,020
1935 -							
Nova Scotia and New Brunswick.	4	9,474,572	325	357,653	289,226	1,990,330	3,076,899
Quebec ....	4	13,177,446	809	1,242,146	630,711	3,127,230	10,176,569
Ontario ...	21	55,219,123	2,479	3,387,657	1,321,855	8,857,312	21,543,851
Manitoba, Saskatchewan and Alberta	6	6,210,821	191	253,208	65,632	700,106	1,506,628
British Columbia .	6	14,857,198	303	387,197	124,687	558,541	2,170,842
TOTAL ...	41	98,939,160	4,107	5,627,861	2,432,111	15,233,519	38,474,789
1936 -							
Nova Scotia and New Brunswick.	4	8,470,793	364	379,083	296,846	2,166,401	3,272,478
Quebec ....	4	12,652,318	800	1,261,939	853,928	3,124,228	10,226,647
Ontario ...	20	53,385,545	2,449	3,407,555	1,379,130	9,942,259	22,562,214
Manitoba, Saskatchewan and Alberta	6	6,316,947	211	272,082	68,464	745,529	1,542,130
British Columbia .	5	12,263,119	292	393,824	182,677	607,154	2,268,429
TOTAL ...	39	93,088,722	4,116	5,714,483	2,781,045	16,585,571	39,871,898

Table 4 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, EMPLOYEES AND CAPITAL EMPLOYED, 1936.

	No. of Companies (1)	Capital employed \$	Average number of employees	Gross selling value of products at works \$
<b>(a) PRODUCTION</b>				
\$5,000 - \$10,000 .....	3	54,615	9	20,499
\$10,001 - \$25,000 .....	6	242,287	24	106,825
\$25,001 - \$50,000 .....	3	467,065	44	140,287
\$50,001 - \$100,000 .....	8	2,903,414	133	574,793
\$100,001 - \$250,000 .....	8	4,239,192	244	1,263,573
\$250,001 - \$500,000 .....	3	5,110,436	171	1,120,866
\$500,001 - \$1,000,000 .....	3	12,216,386	404	2,412,409
Over \$1,000,000 .....	8	67,855,527	3,087	34,232,646
<b>TOTAL .....</b>	<b>42</b>	<b>93,088,722</b>	<b>4,116</b>	<b>39,871,898</b>
<b>(b) EMPLOYEES (Number)</b>				
1 - 10 .....	10	356,902	40	225,177
11 - 20 .....	9	2,319,834	130	653,619
21 - 100 .....	12	10,340,273	455	2,348,047
101 - 250 .....	7	40,876,959	1,231	15,482,787
Over 250 .....	4	39,194,754	2,260	21,162,268
<b>TOTAL .....</b>	<b>42</b>	<b>93,088,722</b>	<b>4,116</b>	<b>39,871,898</b>
<b>(c) CAPITAL EMPLOYED</b>				
Under \$25,000 .....	4	54,615	408	5,618,834
\$25,000 - \$100,000 .....	10	552,929	73	510,331
\$100,001 - \$500,000 .....	8	2,414,317	160	608,558
\$500,001 - \$1,000,000 .....	7	4,443,740	201	1,088,899
Over \$1,000,000 .....	13	85,623,121	3,274	32,045,276
<b>TOTAL .....</b>	<b>42</b>	<b>93,088,722</b>	<b>4,116</b>	<b>39,871,898</b>

(1) Includes 3 companies which purchased coke-oven gas from the manufacturers and distributed it to customers.

Table 5 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1935 and 1936.

Provinces	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
	\$	\$	\$	\$
<b>1935</b>				
Nova Scotia and New Brunswick...	6,622,255	1,552,462	1,299,855	9,474,572
Quebec .....	10,073,209	2,290,323	813,914	13,177,446
Ontario .....	43,912,402	5,783,215	5,523,506	55,219,123
Manitoba, Saskatchewan and Alberta .....	5,859,488	186,830	164,503	6,210,821
British Columbia.	14,204,678	368,556	283,964	14,857,198
<b>CANADA .....</b>	<b>80,672,032</b>	<b>10,181,386</b>	<b>8,085,742</b>	<b>98,939,160</b>
<b>1936</b>				
Nova Scotia and New Brunswick ..	6,641,060	1,036,919	792,814	8,470,793
Quebec .....	9,659,224	1,864,826	1,128,268	12,652,318
Ontario .....	42,219,781	5,611,063	5,554,701	53,385,545
Manitoba, Saskatchewan and Alberta .....	6,100,096	91,228	125,623	6,316,947
British Columbia.	11,588,807	331,203	343,109	12,263,119
<b>CANADA .....</b>	<b>76,208,968</b>	<b>8,935,239</b>	<b>7,944,515</b>	<b>93,088,722</b>

Table 6 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1935 and 1936.

Provinces	Average number of employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
<b>1935</b>								
Nova Scotia and New Brunswick ..	38	11	276	...	325	61,636	296,017	357,653
Quebec .....	298	84	427	...	809	708,894	533,252	1,242,146
Ontario .....	551	197	1,730	1	2,479	1,084,700	2,302,957	3,387,657
Manitoba, Saskatchewan and Alberta ....	40	24	127	...	191	81,415	171,793	255,208
British Columbia..	60	5	238	...	303	101,957	285,240	387,197
CANADA .....	987	321	2,798	1	4,107	2,038,602	3,589,259	5,627,861
<b>1936</b>								
Nova Scotia and New Brunswick ..	42	9	313	...	364	52,522	326,561	379,083
Quebec .....	298	86	415	1	800	723,582	538,357	1,261,939
Ontario .....	528	193	1,724	4	2,449	1,059,558	2,347,997	3,407,555
Manitoba, Saskatchewan and Alberta ....	42	24	145	...	211	82,730	189,352	272,082
British Columbia..	48	3	241	...	292	105,489	288,355	393,824
CANADA .....	958	315	2,838	5	4,116	2,023,881	3,690,602	5,714,483

Table 7 - WAGE-EARNERS, BY MONTHS, 1935 and 1936. (On 15th of each month or nearest representative date).

Months	1935			1936		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	2,840	1	2,841	2,795	4	2,799
February .....	2,802	1	2,803	2,829	4	2,833
March .....	2,776	1	2,777	2,725	4	2,729
April .....	2,762	1	2,763	2,746	4	2,750
May .....	2,843	1	2,844	2,834	4	2,838
June .....	2,894	1	2,895	2,941	4	2,945
July .....	2,879	1	2,880	2,938	4	2,942
August .....	2,821	1	2,822	2,879	6	2,885
September .....	2,768	1	2,769	2,847	4	2,851
October .....	2,793	1	2,794	2,847	4	2,851
November .....	2,768	1	2,769	2,871	2	2,873
December .....	2,686	1	2,687	2,805	2	2,807
AVERAGE .....	2,798	1	2,799	2,838	5	2,843

Table 8 - WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT, DISTRIBUTED ACCORDING TO REGULAR HOURS WORKED PER WEEK, 1936. (Overtime not included)

Regular hours worked per week	Number of wage-earners	Regular hours worked per week	Number of wage-earners
40 hours or less .....	119	51 - 53 hours .....	60
41 - 43 hours .....	60	54 hours .....	108
44 hours .....	331	55 hours .....	19
45 - 47 hours .....	149	56 - 59 hours .....	366
48 hours .....	1,598	60 hours and over .....	235
49 - 50 hours .....	203		
		TOTAL .....	3,048

Table 9- FUEL AND ELECTRICITY USED, 1935 and 1936.

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

Kinds	Unit of measure	1 9 3 5		1 9 3 6	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bituminous coal - Canadian ..	short ton	9,044	29,363	15,347	46,303
Imported ..	short ton	17,144	94,207	11,421	62,247
Anthracite coal .....	short ton	1,588	8,848	1,244	7,194
Lignite coal - Canadian .....	short ton	712	2,136	421	1,263
Coke (all made in users' works) .....	short ton	182,202	785,495	153,416	752,777
Gasoline .....	Imp. gal.	23,418	4,140	21,976	3,385
Fuel oil .....	Imp. gal.	9,573	502	2,419	98
Wood .....	cord	2	11	2	11
Gas - Manufactured (all made in users' works) .....	M cu.ft.	11,078,533	1,198,033	14,102,204	1,628,673
Natural .....	M cu.ft.	4,000	400	4,000	800
Other fuel .....	xxx	...	22,049	...	13,558
Electricity purchased .....	K.W.H.	47,940,439	286,927	49,327,570	264,736
TOTAL .....	\$	...	2,432,111	...	2,781,045

Table 10 - POWER EQUIPMENT, 1935 and 1936.

	1 9 3 5		1 9 3 6	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines .....	257	8,205	288	14,640
Diesel engines .....	1	42	1	42
Gasoline, gas and oil engines (except diesel) .....	6	195	6	195
Hydraulic turbines or water wheels .....	1	3	1	6
Total Primary .....	265	8,445	296	14,883
Electric motors run by purchased power .....	1,076	24,367	1,033	22,837
TOTAL .....	1,341	32,812	1,329	37,720
Electric motors run by primary units shown above .....	120	2,244	116	2,258
Total Electric Motors .....	1,196	26,611	1,149	25,095
Boilers .....	125	26,122	137	33,338

Table 11 - POWER EQUIPMENT, 1936, SHOWING 'ORDINARILY IN USE' SEPARATELY FROM 'IN RESERVE OR IDLE'.

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines .....	185	9,372	103	5,268
Diesel engines .....	...	...	1	42
Gasoline, gas and oil engines (except diesel) .....	1	7	5	188
Hydraulic turbines or water wheels .....	...	...	1	6
Total Primary .....	186	9,379	110	5,504
Electric motors run by purchased power .....	784	18,546	249	4,291
Total .....	970	27,925	359	9,795
Electric motors run by primary units shown above .....	116	2,258	249	4,291
Total Electric Motors .....	900	20,804	249	4,291
Boilers .....	86	16,942	51	16,396

Table 12 - MATERIALS USED IN COKE AND GAS PLANTS, 1935 and 1936.

Materials	Unit of measure	1 9 3 5		1 9 3 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal:-					
(a) Canadian .....	short ton	989,154	4,129,750	1,057,099	4,278,820
(b) Foreign (x) .....	short ton	2,147,189	9,641,302	2,301,399	10,704,663
Coke for gas-making:-					
(a) Purchased .....	short ton	4,372	39,082	4,573	43,311
(b) Companies' own make ..	short ton	72,833	510,895	92,665	664,429
Oil used for enriching water gas .....	Imp. gal.	4,532,573	325,365	3,907,255	277,467
Oil used for making oil gas .....	Imp. gal.	683,365	56,984	635,122	53,572
Absorbing and wash oil ...	Imp. gal.	191,004	20,338	261,734	30,686
Caustic soda .....	lb.	711,051	18,948	683,065	17,270
Lime .....	ton	2,375	13,712	2,361	16,900
Water .....	xxx	...	18,954	...	12,859
Oxide or purifying materials .....	ton	3,701	46,204	...	41,291
Sulphuric acid, 66° Be. ..	lb.	40,775,289	280,079	39,939,799	312,270
All other materials .....	xxx	...	131,906	...	132,033
TOTAL COST .....	\$	...	15,233,519	...	16,585,571

(x) Includes 3,261 tons in 1935 and 3,159 tons in 1936 known to be used in water gas sets.

Table 13 - MATERIALS USED IN COKE AND GAS PLANTS, BY AREAS, 1936.

Materials	Unit of measure	EASTERN PROVINCES		ONTARIO		WESTERN PROVINCES	
		Quantity	Cost at works \$	Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal:-							
(a) Canadian..	short ton	765,743	3,136,295	15,684	70,628	275,672	1,071,897
(b) Foreign ..	short ton	328,216	1,594,153	1,973,183	9,110,510	...	...
Coke for gas making:-							
(a) Purchased.	short ton	550	5,775	3,832	35,626	191	1,910
(b) Companies' own make.	short ton	34,083	253,237	31,755	221,217	26,827	189,975
Oil used for enriching water gas.	Imp. gal.	127,382	10,190	3,061,824	224,860	718,049	42,417
Oil used for making oil gas .....	Imp. gal.	246,763	19,198	159,136	12,967	229,223	21,407
Absorbing and wash oil .....	Imp. gal.	176,026	20,661	85,708	10,025	...	...
Caustic soda ..	lb.	179,319	2,902	503,746	14,368	...	...
Lime .....	ton	1,677	10,688	684	6,212	...	...
Water .....	xxx	...	9,361	...	2,798	...	700
Oxide or purifying materials ....	ton	2,407	12,503	...	24,534	250	4,254
Sulphuric acid, 66° Be .....	lb.	18,223,940	119,456	21,715,859	192,814	...	...
All other materials ....	xx	...	96,210	...	15,700	...	20,123
TOTAL .....	C	...	5,290,629	...	9,942,259	...	1,352,683

Table 14 - PRODUCTS MADE IN COKE AND GAS PLANTS, 1935 and 1936.

Products	Unit of measure	1935		1936	
		Quantity	Gross selling value at works \$	Quantity	Gross selling value at works \$
<b>GAS -</b>					
Retort coal gas .....	M cu.ft.	5,764,033	...	5,341,977	...
Coke oven gas .....	M cu.ft.	27,053,803	...	30,175,976	...
Producer gas .....	M cu.ft.	4,720,191	...	6,796,467	...
Water gas .....	M cu.ft.	2,133,362	...	1,979,566	...
Oil gas .....	M cu.ft.	49,621	...	51,372	...
<b>TOTAL GAS MADE .....</b>	<b>M cu.ft.</b>	<b>39,721,010</b>	<b>...</b>	<b>44,345,358</b>	<b>...</b>
Gas sold .....	M cu.ft.	15,398,952	15,358,572	15,321,832	15,163,664
Gas used in own plants.	M cu.ft.	13,329,088	1,660,389	16,665,381	2,165,284
Gas used in associated metallurgical works ..	M cu.ft.	9,155,263	1,191,270	10,181,379	1,324,475
Gas otherwise accounted for but not sold .....	M cu.ft.	526,651	262,956	519,077	102,671
Gas not accounted for .	M cu.ft.	1,425,893	1,330,013	1,795,319	1,463,265
<b>COKE -</b>					
Coke from by-product or bee-hive ovens .....	short ton	1,833,721	12,773,329	2,017,352	13,963,230
Coke from gas retorts .	short ton	276,498	2,690,755	243,689	2,324,775
Coke breeze from by-product ovens .....	short ton	129,123	348,285	130,458	380,729
Coke breeze from gas retorts .....	short ton	18,262	48,790	13,294	41,274
<b>TOTAL COKE .....</b>	<b>short ton</b>	<b>2,257,604</b>	<b>15,861,159</b>	<b>2,404,793</b>	<b>16,710,008</b>
<b>OTHER PRODUCTS -</b>					
Tar .....	Imp.gal.	25,686,490	1,312,455	26,804,438	1,340,754
Ammonia liquor .....	Lb.N.F. 3	1,884,390	21,127	1,779,748	17,797
Ammonia sulphate .....	Lb.	48,903,171	637,353	53,656,457	582,816
Benzol .....	Imp.gal.)	2,986,016	610,304	2,935,917	473,948
Toluol and xylol .....	Imp.gal.)	1,561,712	227,286	724,982	280,123
Other light oils .....	Imp.gal.)	...	1,905	2,862,815	242,036
All other products .....	xxx	...	...	...	5,057
<b>GRAND TOTAL .....</b>	<b>\$</b>	<b>...</b>	<b>38,474,789</b>	<b>...</b>	<b>39,871,898</b>

Table 15 - PRODUCTS MADE IN COKE AND GAS PLANTS, BY AREAS, 1936.

Products	Unit of measure	EASTERN PROVINCES		ONTARIO		WESTERN PROVINCES	
		Selling value of products		Selling value of products		Selling value of products	
		Quantity	at works	Quantity	at works	Quantity	at works
<u>GAS -</u>							
Retort coal gas .....	M cu.ft.	500,300	...	4,659,942	...	181,735	...
Coke oven gas .....	M cu.ft.	11,276,806	...	16,975,594	...	1,923,576	...
Producer gas .....	M cu.ft.	4,584,815	...	...	...	2,211,652	...
Water gas .....	M cu.ft.	65,561	...	1,882,668	...	31,337	...
Oil gas .....	M cu.ft.	19,636	...	13,022	...	18,714	...
Total Gas Made .....	M cu.ft.	16,447,118	...	23,531,226	...	4,367,014	...
Gas sold .....	M cu.ft.	5,112,171	5,876,531	8,464,024	7,229,280	1,745,637	2,057,853
Gas used in own plants .....	M cu.ft.	6,998,567	897,305	7,365,069	1,121,540	2,301,745	146,439
Gas used in associated metallurgical works .....	M cu.ft.	3,689,265	371,431	6,492,114	953,044	...	...
Gas otherwise accounted for but not sold .....	M cu.ft.	697	617	485,995	95,577	32,385	6,477
Gas not accounted for .....	M cu.ft.	648,439	647,341	860,814	525,940	286,066	289,984
<u>COKE -</u>							
Coke from by-product or beehive ovens .....	short ton	683,082	4,300,912	1,162,957	8,518,831	171,313	1,143,487
Coke from gas retorts .....	short ton	18,425	136,784	217,804	2,122,914	7,460	65,077
Coke breeze from by-product ovens .....	short ton	70,082	205,843	52,141	137,506	8,235	37,380
Coke breeze from gas retorts .....	short ton	3,681	11,929	8,931	28,360	682	985
Total Coke .....	short ton	775,270	4,655,468	1,441,833	10,807,611	187,690	1,246,929
<u>OTHER PRODUCTS -</u>							
Tar .....	Imp. gal.	9,303,016	434,652	16,470,215	844,324	1,031,207	61,778
Other products .....	xxx	...	615,780	...	984,898	...	1,099
GRAND TOTAL .....	\$	...	13,499,125	...	22,562,214	...	3,810,559

Table 16 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, 1929 - 1936.

Years	By-product and bee-hive coke		Gas retort coke		T O T A L	
	Selling value		Selling value		Selling value	
	Quantity	at works	Quantity	at works	Quantity	at works
	short tons	\$	short tons	\$	short tons	\$
1929 .....	2,372,229	15,938,466	305,352	2,009,192	2,677,581	17,947,658
1930 .....	2,062,764	13,592,418	323,250	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	9,847,600	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	16,710,008

Table 17 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY PROVINCES, 1929 - 1936.

Years	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		C A N A D A	
	Selling value at		Selling value at		Selling value at		Selling value at	
	Quantity	works	Quantity	works	Quantity	works	Quantity	works
	short tons	\$	short tons	\$	short tons	\$	short tons	\$
1929 ..	850,452	5,259,446	1,624,884	11,112,809	202,245	1,575,403	2,677,581	17,947,658
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 .	403,350	3,115,737	1,087,122	7,876,941	147,249	1,101,827	1,637,701	12,094,505
1933 .	445,755	2,840,433	1,153,509	8,429,660	172,900	1,196,102	1,772,164	12,466,195
1934 .	654,305	4,369,150	1,388,709	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	1,254,015	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

Table 18 - BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE SOLD AND USED BY PRODUCERS DURING 1935 and 1936, AND STOCKS ON HAND AT END OF YEAR.

	Coke	Breeze	TOTAL
	(short tons)		
<u>1 9 3 5</u>			
Coke actually used by reporting companies -			
In coke or gas plant .....	189,524	49,598	239,122
In associated metallurgical works .....	572,350	68,935	641,285
Coke sold -			
For domestic use .....	1,077,515	36,891	1,114,406
For other uses .....	308,515	27,953	336,468
<b>TOTAL .....</b>	<b>2,147,904</b>	<b>183,377</b>	<b>2,331,281</b>

Table 18 - BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE SOLD AND USED BY PRODUCERS DURING 1935 and 1936, AND STOCKS ON HAND AT END OF YEAR (concluded)

	Coke	Breeze	TOTAL
	(short tons)		
	1 9 3 6		
Coke actually used by reporting companies -			
In coke or gas plant .....	192,840	54,904	247,744
In associated metallurgical works .....	625,861	55,226	681,087
Coke sold -			
For domestic use .....	1,153,093	36,696	1,189,789
For other uses .....	353,642	27,801	381,443
TOTAL .....	2,325,436	174,627	2,500,063
Stocks on hand at end of year .....	276,397	3,242	279,639

Table 19 - COAL CARBONIZED, COKE PRODUCED AND DISTRIBUTION OF COKE BY MANUFACTURERS, 1936.

	Bee-Hive and By-products short tons	:Gas re- tort plants: short tons	:Total for coke producing plants short tons
Coal carbonized -			
Canadian .....	1,008,841	48,258	1,057,099
Imported .....	1,951,515	346,725	2,298,240
TOTAL .....	2,960,356	394,983	3,355,339
Coke made -			
Coke .....	2,017,352	243,689	2,261,041
Breeze .....	130,458	13,294	143,752
TOTAL .....	2,147,810	256,983	2,404,793
Coke yield .....	72.2	65.6	71.7
Coke used in coke or gas plants -			
Coke .....	60,838	132,002	192,840
Breeze .....	52,335	2,569	54,904
TOTAL .....	113,173	134,571	247,744
Coke used in associated metallurgical works -			
Coke .....	625,855	26	625,861
Breeze .....	55,226	...	55,226
TOTAL .....	681,061	26	681,087
Coke sold for domestic use -			
Coke .....	1,048,113	104,980	1,153,093
Breeze .....	26,649	10,047	36,696
TOTAL .....	1,083,522	115,027	1,189,789
Coke sold for other purposes -			
Coke .....	352,782	860	353,642
Breeze .....	27,403	398	27,801
TOTAL .....	380,185	1,258	381,443
Total Coke Sold and Used -			
Coke .....	2,087,568	237,868	2,325,436
Breeze .....	161,613	13,014	174,627
TOTAL .....	2,249,181	250,882	2,500,063
Stocks on December 31st, 1936 -			
Coke .....	198,696	77,701	276,397
Breeze .....	2,047	1,195	3,242
TOTAL .....	200,743	78,896	279,639

Table 20 - PRODUCTION OF BEE-HIVE, BY-PRODUCT AND GAS RETORT COKE, BY MONTHS,  
1929 - 1936.  
(In 1000's of short tons)

Months	1929	1930	1931	1932	1933	1934	1935	1936
January .....	221	225	171	151	150	195	200	212
February .....	202	204	165	144	128	169	181	198
March .....	228	224	179	156	139	192	198	202
April .....	220	213	169	143	122	185	180	190
May .....	251	210	169	129	134	185	185	200
June .....	221	193	155	119	136	179	180	199
July .....	225	182	139	127	145	183	176	193
August .....	227	182	132	121	150	189	175	191
September .....	220	170	126	127	156	188	180	189
October .....	233	185	140	131	173	204	205	212
November .....	224	185	144	143	174	199	206	208
December .....	226	213	144	147	166	175	192	211
TOTAL .....	2,678	2,386	1,833	1,638	1,772	2,243	2,258	2,405
Monthly Average	223	199	153	137	148	187	188	200

Table 21 - BITUMINOUS COAL CHARGED TO COKE OVENS AND GAS RETORTS, 1929 - 1936.

Years	Bee-hive and by-		Gas retorts		TOTAL
	product ovens		(short tons)		
	Canadian	Imported	Canadian	Imported	
1929 .....	872,884	2,378,507	88,507	372,387	3,712,285
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

(x) Includes 3,261 tons used in making water gas in 1935 and 3,159 tons in 1936.

Table 22 - BITUMINOUS COAL CHARGED TO COKE OVENS and GAS RETORTS, BY PROVINCES,  
1929 - 1936.

Years	Nova Scotia, New Brunswick and Quebec		Ontario		Manitoba, Alberta and British Columbia		TOTAL
	(short tons)		(short tons)		(short tons)		
	Canadian	Imported	Canadian	Imported	Canadian	Imported	
1929 .....	734,221	466,433	...	2,206,338	227,170	78,123	3,712,285
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 .....	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	279,681	...	3,136,343
1936 .....	765,743	328,216	15,684	1,973,183	275,672	...	3,358,498

Table 23 - PRODUCTION OF PETROLEUM COKE, 1929 - 1936.

Years	Made for own use		Made for sale		T O T A L	
	Selling value		Selling value		Selling value	
	Tons	at works	Tons	at works	Tons	at works
1929 .....	25,408	140,230	84,108	465,753	109,516	605,983
1930 .....	23,538	124,363	68,549	392,945	92,087	517,308
1931 .....	20,029	96,676	52,310	280,660	72,339	377,536
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

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

Table 24 - TOTAL PRODUCTION OF COKE (INCLUDING PETROLEUM COKE) IN CANADA, 1933-1936.

	P. E. I., N. S. and N. B.	Quebec	Ontario	Man., Sask., Br. Columbia	CANADA
	(short tons)				
<u>1933</u>					
Coke and Gas Industry ..	Tons 194,634	251,121	1,153,509	172,900	1,772,164
	\$ 1,055,023	1,785,410	8,429,660	1,196,102	12,466,195
Petroleum Refining Industry .....	Tons 358	1,810	62,601	9,956	74,725
	\$ 1,519	10,972	344,686	80,602	437,779
TOTAL .....	Tons 194,992	252,931	1,216,110	182,856	1,846,889
	\$ 1,056,542	1,796,382	8,774,346	1,276,704	12,903,974
<u>1934</u>					
Coke and Gas Industry ..	Tons 249,826	404,479	1,388,709	200,406	2,243,420
	\$ 1,400,865	2,968,285	10,200,363	1,292,244	15,861,757
Petroleum Refining Industry .....	Tons 316	2,377	49,011	10,096	61,760
	\$ 1,404	19,865	174,222	62,982	258,473
TOTAL .....	Tons 250,142	406,816	1,437,720	210,502	2,305,180
	\$ 1,402,269	2,988,150	10,374,585	1,355,226	16,120,230
<u>1935</u>					
Coke and Gas Industry ..	Tons 332,409	398,060	1,334,081	193,054	2,257,604
	\$ 1,803,487	2,934,704	9,868,953	1,254,015	15,861,159
Petroleum Refining Industry .....	Tons 530	2,690	53,845	15,126	72,191
	\$ 1,962	14,978	320,004	57,035	393,979
TOTAL .....	Tons 332,939	400,750	1,387,926	208,180	2,329,795
	\$ 1,805,449	2,949,682	10,188,957	1,311,050	16,255,138
<u>1936</u>					
Coke and Gas Industry ..	Tons 379,861	395,409	1,441,833	187,690	2,404,793
	\$ 1,894,628	2,760,840	10,807,611	1,246,929	16,710,008
Petroleum Refining Industry .....	Tons 448	3,168	55,667	5,423	64,706
	\$ 1,897	15,523	349,776	25,964	393,160
TOTAL .....	Tons 380,309	398,577	1,497,500	193,113	2,469,499
	\$ 1,896,525	2,776,363	11,157,387	1,272,893	17,103,168

Table 25 - APPARENT CONSUMPTION OF COKE (INCLUDING PETROLEUM COKE) IN CANADA,  
BY PROVINCES, 1933 - 1936.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Manitoba, Sask., Alberta and B.C.	CANADA
	(short tons)				
<u>1 9 3 3</u>					
Production .....	194,992	252,931	1,216,110	182,856	1,846,889
Add declines in producers' stocks	27,673	82,085	31,171	4,035	144,964
	222,665	335,016	1,247,281	186,891	1,991,853
Add imports (entered for consumption) .....	6,972	28,666	582,806	9,165	627,609
	229,637	363,682	1,830,087	196,056	2,619,462
Deduct exports .....	80	346	16,332	4,816	21,574
Apparent Consumption .....	229,557	363,336	1,813,755	191,240	2,597,888
<u>1 9 3 4</u>					
Production .....	250,142	406,816	1,437,720	210,502	2,305,180
Deduct increases in producers' stocks .....	5,453	27,509	58,483	1,977	93,422
	244,689	379,307	1,379,237	208,525	2,211,758
Add imports (entered for consumption) .....	8,825	42,680	819,576	13,390	884,471
	253,514	421,987	2,198,813	221,915	3,096,229
Deduct exports .....	457	338	27,582	6,547	34,924
Apparent Consumption .....	253,057	421,649	2,171,231	215,368	3,061,305
<u>1 9 3 5</u>					
Production .....	332,939	400,750	1,387,926	208,180	2,329,795
Add declines in producers' stocks	...	...	11,012	...	...
	332,939	400,750	1,398,938	208,180	2,329,795
Deduct increases in producers' stocks .....	6,615	10,564	...	2,615	8,782
	326,324	390,186	1,398,938	205,565	2,321,013
Add imports (entered for consumption) .....	6,549	35,922	657,168	14,929	714,568
	332,873	426,108	2,056,106	220,494	3,035,581
Deduct exports .....	296	1,779	15,470	20,045	37,590
Apparent Consumption .....	332,577	424,329	2,040,636	200,449	2,997,991
<u>1 9 3 6</u>					
Production .....	380,309	398,577	1,497,500	193,113	2,469,499
Add declines in producers' stocks	56	57,778	19,892	18,675	96,401
	380,365	456,355	1,517,392	211,788	2,565,900
Add imports (entered for consumption) .....	5,107	48,212	658,210	19,272	730,801
	385,472	504,567	2,175,602	231,060	3,296,701
Deduct exports .....	624	4,270	10,834	17,035	32,763
Apparent Consumption .....	384,848	500,297	2,164,768	214,025	3,263,938

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

Table 26 - ANALYSIS OF COKE CONSUMPTION IN CANADA BY PRINCIPAL AREAS, 1933 - 1935.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Manitoba, Sask., Alta., and B.C.	CANADA
	(short tons)				
<u>1 9 3 3</u>					
Furnace charges .....	137,485	10,838	261,074	29,704	439,101
Manufacturing material .....	158	102,656	85,460	6,109	194,383
Industrial fuel .....	33,588	38,688	180,377	43,294	295,947
Available for domestic use (by difference) .....	58,326	211,154	1,286,844	112,133	1,668,457
APPARENT CONSUMPTION .....	229,557	363,336	1,813,755	191,240	2,597,888
<u>1 9 3 4</u>					
Furnace charges .....	157,977	14,761	490,266	87,114	750,118
Manufacturing material .....	208	87,870	106,697	3,739	198,514
Industrial fuel .....	47,404	46,682	188,691	42,725	325,502
Available for domestic use (by difference) .....	47,468	272,336	1,385,577	81,790	1,787,171
APPARENT CONSUMPTION .....	253,057	421,649	2,171,231	215,368	3,061,305
<u>1 9 3 5</u>					
Furnace charges .....	240,785	16,563	577,200	88,131	922,679
Manufacturing material .....	229	79,419	132,455	4,435	216,538
Industrial fuel .....	32,036	53,633	265,333	35,754	386,756
Available for domestic use (by difference) .....	59,527	274,714	1,065,648	72,129	1,472,018
APPARENT CONSUMPTION .....	332,577	424,329	2,040,636	200,449	2,997,991

## NOTES -

1. Figures showing the tonnage of coke available for domestic 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 shipments of coke.
4. Consumption figures for 1936 are not yet available.

TABLE 27 - CONSUMPTION OF COKE AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES, 1933 - 1935.

Areas	1 9 3 3	1 9 3 4	1 9 3 5
	(short tons)		
Maritimes .....	33,588	47,404	32,036
Quebec .....	38,688	46,682	53,633
Ontario .....	180,377	188,691	265,333
Western provinces .....	43,294	42,725	35,754
CANADA .....	295,947	325,502	386,756

Table 28 - COKE CHARGED TO BLAST FURNACES, FOUNDRY CUPOLAS, ETC., 1933 - 1935.

Areas	1 9 3 3	1 9 3 4	1 9 3 5
		(short tons)	
Maritime provinces .....	137,485	157,977	240,785
Quebec .....	10,838	14,761	16,563
Ontario .....	261,074	490,266	577,200
Western provinces .....	29,704	87,114	88,131
<b>CANADA .....</b>	<b>439,101</b>	<b>750,118</b>	<b>922,679</b>

Table 29 - COKE USED AS A MATERIAL (x) IN MANUFACTURING, 1933 - 1935.

Areas	1 9 3 3	1 9 3 4	1 9 3 5
		(short tons)	
Maritime provinces .....	158	208	229
Quebec .....	102,656	87,870	79,419
Ontario.....	85,460	106,697	132,455
Western provinces .....	6,109	5,739	4,435
<b>CANADA .....</b>	<b>194,383</b>	<b>198,514</b>	<b>216,538</b>

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

Table 30 - DELIVERIES OF PETROLEUM COKE FOR CONSUMPTION IN CANADA, 1935.  
(From "Petroleum Fuels in Canada" issued by the Bureau of Mines, Ottawa)

Areas	Fuel for domestic heating(1)	Fuel for industrial heating(2)	TOTAL	Inventory on December 31, including stocks at refineries
			(short tons)	
Maritimes .....	554	8	562	...
Quebec .....	688	1,719	2,407	24,087
Ontario .....	58,937	8,368	67,305	58,758
Western provinces ...	3,234	6,381	9,615	2,196
<b>CANADIAN .....</b>	<b>57,649</b>	<b>16,476</b>	<b>74,125</b>	<b>18,751</b>
<b>IMPORTED .....</b>	<b>5,764</b>	<b>...</b>	<b>5,764</b>	<b>66,290</b>
<b>TOTAL FOR 1935 .....</b>	<b>63,413</b>	<b>16,476</b>	<b>79,889</b>	<b>85,041</b>
<b>TOTAL FOR 1934 .....</b>	<b>39,200</b>	<b>17,555</b>	<b>56,755</b>	<b>48,169(3)</b>

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

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

(3) Revised.

Table 31 - CONSUMPTION OF COKE IN IRON BLAST FURNACES, 1929 - 1936.

Years	Made in Canada from Canadian coal	Made in Canada from imported coal	Imported coke	TOTAL
			(short tons)	
1929 .....	406,290	680,140	84,741	1,171,171
1930 .....	253,735	468,469	73,836	796,040
1931 .....	116,880	301,477	30,488	448,845
1932 .....	37,984	117,948	...	155,932
1933 .....	135,323	80,500	32,151	247,974
1934 .....	155,085	215,462	44,915	415,462
1935 .....	239,312	281,359	56,684	577,355
1936 .....	296,712	305,571	69,927	672,210

Table 32 - PRODUCTION AND SALES OF MANUFACTURED GAS, 1929 - 1936.

Years	From by-product and gas plants			Production of still gas from petroleum refineries M cu.ft.
	(x) Production M cu.ft.	S A L E S		
		Quantity M cu.ft.	Income from sales \$	
1929 .....	38,925,086	17,649,371	13,316,684	3,140,187
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	5,154,885
1936 .....	44,345,358	15,321,832	15,163,664	(not yet available)

(x) Pintsch gas not included.

Table 33 - PRODUCTION OF NATURAL GAS, BY PROVINCES, 1935 and 1936.

Provinces	1 9 3 5		1 9 3 6	
	M cu.ft.	Value \$	M cu.ft.	Value \$
New Brunswick ...	615,454	303,886	606,246	298,819
Ontario .....	8,158,825	4,938,084	10,006,743	6,052,294
Manitoba .....	600	180	600	180
Saskatchewan .....	75,558	7,555	90,839	33,985
Alberta .....	16,060,349	4,113,436	17,408,920	4,376,965
TOTAL .....	24,910,786	9,363,141	28,113,348	10,762,243

Table 34 - SALES OF MANUFACTURED GAS, NUMBER OF CUSTOMERS AND MILEAGE OF PIPE LINES, 1936.

Areas	No. of customers	No. of active meters	Gas Sales(x)		Mileage of pipe lines	Approximate population served by mains
			M cu.ft.	\$		
Eastern provinces.	191,184	238,654	5,096,719	5,729,935	975.9	1,611,000
Ontario .....	222,695	216,180	8,453,005	7,115,981	1,997.3	1,218,556
Western provinces.	62,798	66,537	1,729,548	1,906,054	811.4	481,267
TOTAL .....	476,677	521,371	15,279,272	14,751,970	3,784.6	3,310,823

(x) Excluding 42,560 M cubic feet of pintsch oil gas worth \$411,694 for use in lighting railway cars.

Table 35 - PRODUCTION OF CRUDE COAL TAR, BY PROVINCES, 1932 - 1936.

Provinces	1932	1933	1934	1935	1936
	Imp. gals.				
Nova Scotia and New Brunswick.....	1,513,135	2,857,191	3,627,952	4,739,689	5,495,946
Quebec .....	3,226,665	3,138,508	4,035,935	3,790,498	3,807,070
Ontario .....	13,850,265	14,075,641	17,020,066	16,037,490	16,470,215
Manitoba .....	454,882	335,473	334,840	327,679	330,314
British Columbia ...	1,131,896	885,809	121,988	791,134	700,893
CANADA .....	20,176,843	21,292,622	25,840,781	25,686,490	26,804,438

Table 36 - PRODUCTION, IMPORTS AND EXPORTS OF AMMONIUM SULPHATE, 1929 - 1936.

Years	PRODUCTION (x)		IMPORTS		EXPORTS	
	Short tons	\$	short tons	\$	short tons	\$
1929 .....	34,141	1,293,953	1,723	80,019	24,489	909,510
1930 .....	23,893	936,417	3,423	137,607	12,010	386,710
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	1,437,749	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

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

Table 37 - GENERAL RATES FOR MANUFACTURED GAS IN CANADIAN TOWNS AND CITIES, 1936.

Towns or Cities	APPROXIMATE		GENERAL	RATE
	Per M cu.ft.	Gross	Discount	Service charge
	\$			
Halifax, N.S.	2.00 - 1.10		10 cents per M	-
Saint John, N.B.	1.85 - 1.45		10 cents per M	60 cents per month
Quebec, P.Q.	1.66 - 0.90		10 per cent	-
Sherbrooke, P.Q.	1.35 - 1.00		10 per cent	(x)
Montreal, P.Q.	1.20 - 0.50		15 cents per M	50 cents per month
Barrie, Ont.	2.00		20 per cent	75 cents per month
Belleville, Ont.	1.60 - 1.00		10 cents penalty	50 cents per month
Brockville, Ont.	1.50		10 per cent	(x)
Guelph, Ont.	0.65 - 0.50		10 per cent penalty	(x)
Kingston, Ont.	1.38 - 1.00		10 per cent	33 cents per month meter rent.
St. Thomas, Ont.	1.15 - 0.70		10 cents per M	50 cents per month
Toronto, Ont.	1.00 - 0.72		20 cents per M	50 cents per month
Cobourg, Ont.	2.20 - 1.65		10 per cent	55 cents per month
Oshawa, Ont.	1.45 - 0.75		10 cents penalty	(x)
Whitby, Ont.	1.50 - 1.05		10 cents penalty	(x)
Bowmanville, Ont.	1.50 - 1.05		10 cents penalty	(x)
Peterborough, Ont.	1.45 - 1.00		10 per cent	45 cents per month
Kitchener, Ont.	0.95 - 0.75		(x)	(x)
Waterloo, Ont.	1.20 (net)		(x)	(x)
Ottawa, Ont.	1.36 - 1.00		10 cents per M	50 cents per month
Port Hope, Ont.	2.50		(x)	\$1.20 per year
Owen Sound, Ont.	1.25 - 1.10		10 per cent	19 cents per month meter rent.
Stratford, Ont.	1.83 - 1.11		10 per cent	25 cents per month
Hamilton, Ont.	0.80 - 0.40		5 - 15 cents per M	(x)
Sault Ste. Marie, Ont.	1.70 - 0.50		(x)	(x)
Brandon, Man.	2.10 - 1.39		10 per cent penalty	(x)
Winnipeg, Man.	1.47 (net)		-	-
Nelson, B.C.	2.25 - 1.25		25 cents per M	(x)
Vancouver, B.C.	1.25 - 1.15 (net)		(x)	(x)
New Westminster, B.C.)	15 cents above Vancouver			
Burnaby, B.C.				
Victoria, B.C.	1.00 - 1.75		(x)	25 cents per month

(x) not mentioned on report.

Table 38 - IMPORTS OF COKE INTO CANADA, BY PORTS OF ENTRY, 1936.

Port	Source	Made from Coal	Made from Petroleum
		(short tons)	
PRINCE EDWARD ISLAND -			
		...	...
NOVA SCOTIA -			
Bridgewater .....	United States	28	...
Halifax .....	Great Britain	4,593	...
	Germany .....	2,151	...
New Glasgow .....	United States	462	...
TOTAL .....		7,234	...
NEW BRUNSWICK -			
Bathurst .....	United States	24	...
TOTAL .....		24	...
QUEBEC -			
Chicoutimi .....	United States	108	22,797
Montreal .....	United States	2,133	1,888
	Germany .....	19,660	...
Quebec .....	United States	159	...
Rock Island .....	United States	19	...
Shawinigan Falls .....	United States	309	333
Sutton .....	United States	1	...
Three Rivers .....	United States	...	10,610
	Great Britain	3,388	...
TOTAL .....		25,777	35,628
ONTARIO -			
Amherstburg .....	United States	8,348	...
Bellefille .....	United States	1,192	...
Bowmanville .....	United States	399	...
Brantford .....	United States	9,398	52
Brockville .....	United States	217	...
Chatham .....	United States	7,109	50
Cobourg .....	United States	476	...
Collingwood .....	United States	230	...
Cornwall .....	United States	26	...
Fort Erie .....	United States	4,289	...
Fort Frances .....	United States	115	39
Galt .....	United States	4,023	...
Gananoque .....	United States	67	32
Goderich .....	United States	1,119	...
Guelph .....	United States	6,997	...
Hamilton .....	United States	10,956	121
Ingersoll .....	United States	462	...
Kingston .....	United States	1,297	...
Kitchener .....	United States	5,452	151
Lindsay .....	United States	888	...
London .....	United States	19,382	1,619
Midland .....	United States	2,454	...
Morrisburg .....	United States	3	...
Napanee .....	United States	76	...
Niagara Falls .....	United States	18,672	364
North Bay .....	United States	476	...
Orillia .....	United States	932	...

Table 38 - IMPORTS OF COKE INTO CANADA, BY PORTS OF ENTRY, 1936. (concluded)

Port	Source	Made from Coal	Made from Petroleum
		(short tons)	
<b>ONTARIO (concluded) -</b>			
Oshawa .....	United States	6,592	000
Ottawa .....	United States	1,018	000
Owen Sound .....	United States	12,152	000
Paris .....	United States	73	27
Peterborough .....	United States	995	000
Picton .....	United States	124	000
Port Hope .....	United States	956	96
St. Catharines .....	United States	14,344	9,466
St. Thomas .....	United States	11,484	151
Sarnia .....	United States	8,278	000
Sault Ste. Marie .....	United States	58	000
Simcoe .....	United States	432	000
Stratford .....	United States	3,260	000
Sudbury .....	United States	36	000
Tillsonburg .....	United States	522	000
Toronto .....	United States	189,464	223
Trenton .....	United States	99	27
Wallaceburg .....	United States	2,984	000
Welland .....	United States	112,611	38,893
Whitby .....	United States	37	000
Windsor .....	United States	66,300	1,014
Woodstock .....	United States	1,693	81
Fort William .....	United States	22,523	000
Port Arthur .....	United States	20	000
<b>TOTAL</b> .....		<b>561,119</b>	<b>52,406</b>
<b>MANITOBA -</b>			
Brandon .....	United States	52	000
Gretna .....	United States	108	000
Winnipeg .....	United States	15,267	000
<b>TOTAL</b> .....		<b>15,427</b>	<b>000</b>
<b>SASKATCHEWAN -</b>			
		<b>000</b>	<b>000</b>
<b>ALBERTA -</b>			
		<b>000</b>	<b>000</b>
<b>BRITISH COLUMBIA -</b>			
Nelson .....	United States	000	45
New Westminster .....	United States	000	146
	Great Britain	70	000
Trail .....	United States	000	45
Vancouver .....	United States	104	322
	Great Britain	1,420	000
	Germany .....	738	000
	Belgium .....	562	000
Victoria .....	United States	000	10
	Great Britain	383	000
<b>TOTAL</b> .....		<b>3,277</b>	<b>568</b>
<b>CANADA</b> .....			
	United States	579,893	88,602
	Great Britain	9,854	000
	Germany .....	22,549	000
	Belgium .....	562	000
<b>TOTAL</b> .....		<b>612,858</b>	<b>88,602</b>

Table 39 - EXPORTS OF CANADIAN COKE, BY PORTS OF EXIT, 1936.

Ports	Made from Coal	Made from Petroleum
	(short tons)	
PRINCE EDWARD ISLAND -	...	...
NOVA SCOTIA -		
Halifax .....	...	89
North Sydney .....	76	...
Sydney .....	448	...
TOTAL .....	524	89
NEW BRUNSWICK -		
Woodstock .....	11	...
TOTAL .....	11	...
QUEBEC -		
Coaticook .....	110	...
Huntingdon .....	86	637
Lake Megantic .....	252	...
Montreal .....	73	...
St. John's .....	...	3,082
Sutton .....	30	...
TOTAL .....	551	3,719
ONTARIO -		
Fort Erie .....	...	3,141
Niagara Falls .....	...	7,554
Sault Ste. Marie .....	94	...
St. Catharines .....	...	45
TOTAL .....	94	10,740
MANITOBA -		
Emerson .....	9	...
TOTAL .....	9	...
SASKATCHEWAN -	...	...
ALBERTA -		
Lethbridge .....	21	...
TOTAL .....	21	...
BRITISH COLUMBIA -		
Cranbrook .....	16,556	...
Fernie .....	30	...
New Westminster .....	119	...
Vancouver .....	300	...
TOTAL .....	17,005	...
TOTAL FOR CANADA .....	18,215	14,548

Table 40 - SUMMARY OF COKE-MAKING AND GAS-MAKING EQUIPMENT, 1936.

Type of ovens, retorts, etc.	In use		In reserve or idle		T O T A L	
	Number	Annual	Number	Annual	Number	Annual
		Capacity		Capacity		Capacity
(Capacity given in tons of coal carbonized)						
Bee-hive ovens .....	212	162,500	1,072	525,000	1,284	687,500
By-product ovens .....	495	2,787,127	115	520,000	610	3,307,127
Vertical gas retorts .....	154	262,800	64	57,000	218	319,800
Horizontal gas retorts .....	311	134,593	46	11,050	357	145,643
Water gas sets .....	19	...	15	...	34	...
Producers .....	15	...	8	...	23	...

DIRECTORY OF FIRMS IN THE COKE AND GAS INDUSTRY, 1936.

Names of Firms and  
Location of Plants

Coke and gas making equipment, in-  
cluding reserve equipment. (Rated  
annual capacity in tons of coal car-  
bonized given in brackets).

1. COKE PLANTS

(a) By-Product

Dominion Steel and Coal Corp. Ltd. Sydney, N.S.	180 Koppers Horizontal ovens (540,000 tons)
Montreal Coke & Manufacturing Co. (Montreal Light, Heat & Power Consolidated) (3) Montreal, P.Q.	59 Koppers Becker type horizontal ovens (560,275 tons); 4 Koppers Kerpely Ring type producers; 5 Western Gas Construction Co. Water Gas sets.
Algoma Steel Corporation Ltd., (Great Northern Gas Co. Ltd.) (3) Sault Ste. Marie, Ont.	110 Koppers ovens and 50 Wilputte ovens (972,000 tons).
Hamilton By-Product Coke Ovens, Ltd. (United Gas & Fuel Co. Ltd.) (3) Hamilton, Ont.	25 Semet-Solvay ovens and 35 Wilputte ovens (415,000 tons).
Ottawa Gas Co., Ottawa, Ont.	18 special vertical ovens, intermittent type (37,500 tons) underfired by built-in producers; 1 water gas set.
Steel Company of Canada, Limited Hamilton, Ont.	80 Wilputte ovens (641,232 tons).
Winnipeg Electric Company (3) Winnipeg, Man.	17 Koppers Becker type horizontal ovens (84,500 tons); 2 producers for heating benches; 1 water gas set.
B. C. Electric Power & Gas Co. Ltd. (3) (2) Vancouver, B.C.	36 vertical Chamber ovens (56,620 tons); 64 Glover-west continuous vertical retorts (57,000 tons); 3 external mechanical producers for chamber oven plants; 8 in- ternal step grate producers for continuous vertical plant; 2 water gas generators

NOTE - Names of gas distributing companies in brackets.

(2) Indicates carburetted 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, 1936. (concluded)

Names of Firms and  
Location of Plants.

Coke and gas making equipment, including  
reserve equipment. (Rated annual  
capacity in tons of coal carbonized  
given in brackets).

2. ILLUMINATING AND FUEL GAS PLANTS (concluded)

(a) Retort coal gas and carburetted water gas.

Public Utility Commission (1) Stratford, Ont.	12 horizontal retorts (2,300 tons)
Manitoba Power Commission (1) Brandon, Man.	12 Russell Mfg. Co. retorts and 12 Kerr-Murray retorts (2,700 tons).
Victoria Gas Company, Ltd. (1) (2) Victoria, B.C.	16 Glover-West vertical retorts (14,600 tons); Humphrey & Glasgow water gas set.
Corporation City of Nelson (1) Nelson, B.C.	8 horizontal retorts (1,600 tons).

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

(b) Oil Gas

Pintsch Compressing Co.	
McAdam, N.B.	Winnipeg, Man.
Montreal, P.Q.	Moose Jaw, Sask.
North Bay, Ont.	Edmonton, Alberta
Toronto, Ont.	Vancouver, B.C.



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