

45-D-20

Published by Authority of the HON. W. D. EULER, M.P.  
Minister of Trade and Commerce.

C-2  
74-25-4-39

Price -  
10 cents

DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

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CONSUMPTION OF COKE IN CANADA - 1937.

The apparent consumption of coke in Canada during 1937 amounted to 3,172,892 tons compared with 3,242,823 tons in 1936.

Production of coke (including petroleum coke) during 1937 totalled 2,632,400 tons, imports entered for consumption amounted to 591,838 tons, and producers' stocks declined 39,241 tons, making an available supply of 3,263,479 tons. But exports and re-exports totalled 86,916 tons and producers' stocks increased 3,671 tons, leaving 3,172,892 tons as the quantity available for use in Canada during the year. The distribution of this tonnage by areas was as follows:- Maritimes, 458,119 tons; Quebec, 477,829 tons; Ontario, 2,044,592 tons; and the Western Provinces, 192,352 tons. This calculation, of course, does not take into consideration any interprovincial shipments of coke or any changes in stocks held by dealers or users, as no records are available concerning such movements.

Actual consumption records, as compiled from the Census of Industry reports for 1937, show that 1,338,345 tons of coke were used in blast furnaces and cupolas, 333,661 tons were used as raw materials in manufacturing, and 327,388 tons were used as fuel in manufacturing, mining and smelting industries. Thus a total of 1,999,394 tons can be accounted for and the difference of 1,173,498 tons must represent the quantity available for use as domestic fuel or in commercial establishments such as retail stores, repair shops, warehouses, etc., which are not covered by the industrial census.

The distribution by areas of the domestic consumption of 1,173,498 tons was as follows:- Maritimes, 60,457 tons; Quebec, 275,198 tons; Ontario, 761,294 tons, and the Western Provinces, 76,549 tons. Here, again, no allowance has been made for inter-provincial shipments.

Coke charged to smelting furnaces and cupolas during 1937 amounted to 1,338,345 tons, of which 890,384 tons were used in iron blast furnaces, 4,517 tons in steel furnaces, 9,480 tons in ferro-alloy furnaces, 331,776 tons in furnaces used for smelting non-ferrous ores, and 102,188 tons in foundry cupolas. The consumption, by districts, was as follows:- Maritimes, 358,425 tons; Quebec, 33,087 tons; Ontario, 878,234 tons; and the Western Provinces, 68,599 tons.

Coke used as a raw material in manufacturing in 1937 totalled 333,661 tons, of which 159,690 tons were used in the manufacture of calcium carbide, 3,604 tons in making carbon dioxide, 96,422 tons in making illuminating and fuel gas, 31,644 tons in making artificial abrasives, and 42,501 tons in the manufacture of carbon electrodes. Plants in Ontario used 178,306 tons; in Quebec, 118,959 tons; in the Maritimes, 337 tons; and in the Western Provinces, 36,059 tons.

Coke used for fuel purposes by the manufacturing, mining and smelting industries amounted to 327,388 tons in 1937. Works in the Maritimes used 38,900 tons for this purpose; in Ontario, 226,758 tons; in Quebec, 50,585 tons, and in the West, 11,145 tons.

Table 1 - PRODUCTION OF COKE IN CANADA, 1937.

		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
Coke and Gas Industry . Tons		451,799	401,323	1,504,334	212,929	2,570,385
	\$	2,652,431	2,895,611	11,522,965	1,395,061	18,466,068
Petroleum Refining Industry .....	Tons	373	2,246	56,556	2,840	62,015
	\$	1,504	8,499	357,078	13,059	380,140
TOTAL .....	Tons	452,172	403,569	1,560,890	215,769	2,632,400
	\$	2,653,935	2,904,110	11,880,043	1,408,120	18,846,208

Table 2 - APPARENT CONSUMPTION OF COKE IN CANADA, BY PROVINCES, 1937. (Short tons)

		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
1937						
Production .....		452,172	403,569	1,560,890	215,769	2,632,400
Add - Declines in producers' stocks .....		...	10,564	28,677	...	39,241
		452,172	414,133	1,589,567	215,769	2,671,641
Deduct - Surpluses in producers' stocks .....		875	...	...	2,796	3,671
		451,297	414,133	1,589,567	212,973	2,667,970
Add - Imports entered for con- sumption .....		7,061	69,003	500,424	15,350	591,838
		458,358	483,136	2,089,991	228,323	3,259,808
Deduct - Exports and re-exports.		239	5,307	45,399	35,971	86,916
APPARENT CONSUMPTION .....		458,119	477,829	2,044,592	192,352	3,172,892

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

Table 3 - CONSUMPTION OF COKE IN CANADA IN SMELTING FURNACES AND CUPOLAS, BY INDUSTRIES, 1937.

Industry		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
Pig iron, ferro-alloys and steel ingots and castings -						
	Tons	353,851	4,273	545,822	435	904,381
	\$	1,778,773	28,533	3,151,517	6,600	4,965,423
Castings and forgings .....	Tons	1,303	9,838	27,903	2,810	41,854
	\$	18,278	104,079	333,739	41,921	498,017
Heating and cooking apparatus .....	Tons	1,221	1,388	5,745	260	8,614
	\$	20,163	15,999	69,382	4,266	109,810



Table 3 - CONSUMPTION OF COKE IN CANADA IN SMELTING FURNACES AND CUPOLAS, BY INDUSTRIES, 1937. (concluded)

Industry		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
Boilers, tanks and engines .....	Tons	122	3,517	5,299	106	9,044
	\$	1,592	41,416	59,741	1,288	104,037
Agricultural implements ...	Tons	...	110	7,602	...	7,712
	\$	...	1,189	96,814	...	98,003
Machinery .....	Tons	...	5,199	4,113	180	9,492
	\$	...	53,532	50,870	2,447	106,849
Railway rolling stock .....	Tons	1,928	6,339	13,675	2,839	24,781
	\$	30,592	63,761	166,941	45,815	307,109
Automobile parts .....	Tons	...	6	306	...	312
	\$	...	42	4,236	...	4,278
Other iron and steel .....	Tons	...	...	125	254	379
	\$	...	...	1,442	4,431	5,873
Non-ferrous metallurgical works .....	Tons	...	2,417	267,644	61,715	331,776
	\$	...	24,003	2,741,408	554,887	3,320,298
TOTAL .....	Tons	358,425	33,087	878,234	68,599	1,338,345
	\$	1,849,398	332,554	6,676,090	661,655	9,519,697

Table 4 - CONSUMPTION OF COKE IN CANADA AS MANUFACTURING MATERIAL, BY INDUSTRIES, 1937.

Industry		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
Acids, alkalies and salts .....	Tons	...	51,160	97,832	10,698	159,690
	\$	...	347,981	733,711	96,172	1,177,864
Compressed gases .....	Tons	337	1,322	1,151	794	3,604
	\$	5,177	15,204	11,998	10,561	42,940
Artificial abrasives ...	Tons	...	10,585	21,059	...	31,644
	\$	...	133,449	242,208	...	375,657
Coke and gas .....	Tons	...	31,439	40,416	24,567	96,422
	\$	...	241,395	283,397	173,881	698,653
Miscellaneous non-metallic mineral products .....	Tons	...	24,453	17,848	...	42,301
	\$	...	364,964	109,283	...	474,247
TOTAL .....	Tons	337	118,959	178,306	36,059	333,661
	\$	5,177	1,102,993	1,380,597	280,614	2,769,361

Table 5 - CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING, MINING and SMELTING INDUSTRIES, 1937.

		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
<b>MANUFACTURING</b>						
Chemicals and allied products .....	Tons	18	4,500	3,963	251	8,732
	\$	271	25,239	25,727	2,938	54,175
Iron and steel, and products	Tons	26,396	10,033	53,162	1,053	90,644
	\$	70,007	55,922	223,208	13,847	362,984

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Table 5 - CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING, MINING AND SMELTING INDUSTRIES, 1937. (concluded)

Industry		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
<u>MANUFACTURING (concluded)</u>						
Non-ferrous metal products	Tons	...	2,858	6,832	309	9,999
(excluding smelters) .....	\$	...	24,065	68,659	3,931	96,655
Non-metallic mineral products						
(excluding cement, lime,	Tons	4,443	23,166	122,756	5,804	156,169
clay and salt) .....	\$	27,399	90,597	630,140	28,247	776,383
Animal products .....	Tons	15	454	603	648	1,720
	\$	169	2,098	5,257	3,518	11,042
Textile products .....	Tons	...	333	310	5	648
	\$	...	3,146	3,150	74	6,370
Vegetable products .....	Tons	4,315	8,351	27,413	2,609	42,688
	\$	41,257	82,866	271,658	26,613	422,394
Wood and paper products .....	Tons	15	306	1,729	92	2,142
	\$	166	3,053	13,422	964	17,602
Miscellaneous products .....	Tons	...	138	232	18	388
	\$	...	1,382	2,117	126	3,625
Total Manufacturing Industries .....	Tons	35,202	50,139	217,000	10,789	313,130
	\$	139,269	288,368	1,243,338	80,258	1,751,230
MINING INDUSTRIES .....	Tons	3,698	446	9,758	356	14,258
	\$	19,149	3,852	84,754	5,593	113,348
TOTAL .....	Tons	38,900	50,585	226,758	11,145	327,388
	\$	158,418	292,220	1,328,092	85,851	1,864,578

Table 6 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL USES, 1937, with comparative data for 1936. (Short tons)

		P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
<u>1937</u>						
Furnace charges .....		358,425	33,087	878,234	68,599	1,338,345
Manufacturing material .....		337	118,959	178,306	36,059	333,661
Industrial fuel .....		38,900	50,585	226,758	11,145	327,388
Available for domestic use (by difference) .....		60,457	275,198	761,294	76,549	1,173,498
APPARENT CONSUMPTION .....		458,119	477,829	2,044,592	192,352	3,172,892
<u>1936</u>						
Furnace charges .....		300,129	20,718	652,353	76,793	1,049,993
Manufacturing material .....		281	101,343	141,635	27,688	270,947
Industrial fuel .....		34,032	46,328	247,621	17,416	345,397
Available for domestic use (by difference) .....		50,406	331,908	1,102,044	92,128	1,576,486
APPARENT CONSUMPTION .....		384,848	500,297	2,143,653	214,025	3,242,823

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.