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CONSUMPTION OF COKE IN CANADA, 1933 and 1934.

The apparent consumption of coke in Canada during 1934 amounted to 3,061,305 tons compared with 2,597,888 tons in 1933.

Production of coke (including petroleum coke) during 1934 was reported at 2,305,180 tons and imports totalled 884,471 tons, making an available supply of 3,189,651 tons. But exports amounted to 34,924 tons and producers' stocks increased 93,422 tons, leaving 3,061,305 tons as the quantity available for use in Canada during the year. The distribution of this tonnage by areas was as follows:- Maritimes, 253,057 tons; Quebec, 421,649 tons; Ontario, 2,171,231 tons; and the Western Provinces, 215,368 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.

An analysis of consumption figures for 1934 based on returns to the annual Census of Industry, shows that in 1934 a total of 750,118 tons of coke were used as blast furnace or cupola charges, 198,514 tons were used as raw material in manufacturing and 325,502 tons were used as fuel in manufacturing and mining plants. Thus a total of 1,274,134 tons can be accounted for in the available records of industrial uses and the difference of 1,787,171 tons must represent the quantity available for use as domestic fuel or in industrial establishments such as retail stores, repair shops, warehouses, etc., which are not covered by the industrial census.

The distribution of the domestic consumption of 1,787,171 tons by areas was as follows:- Maritimes, 47,468 tons; Quebec, 272,336 tons; Ontario, 1,385,577 tons; and the Western provinces, 81,790 tons. But here again, any interprovincial shipments have not been taken into consideration. In 1932 a special survey by the Mines Branch showed that about 34,790 tons of Quebec coke were used in Ontario and about 10,585 tons of Ontario coke were used in Manitoba; in addition, about 40,000 tons of the imported coke used in Manitoba were brought in at Ontario ports and in the above calculation would, of course, be credited to Ontario.

Furnace charges of coke during 1934 totalled 750,118 tons of which 415,462 tons were charged to iron blast furnaces, 2,197 tons to steel furnaces, 11,898 tons to ferro-alloy plants, 58,664 tons to foundry cupolas and 261,897 tons to non-ferrous metal furnaces. By districts, the consumption for these purposes was as follows:- Maritimes, 157,977 tons; Quebec, 14,761 tons; Ontario, 490,266 tons; and the Western provinces, 87,114 tons.

Consumption of coke as a raw material in manufacturing in 1934 amounted to 198,514 tons of which 86,727 tons were used in the manufacture of calcium carbide, 1,868 tons in the manufacture of carbon dioxide, 81,712 tons in the manufacture of gas, 18,392 tons in making artificial abrasives, and 9,815 tons in making carbon electrodes. Plants in Ontario used 106,697 tons; in Quebec, 87,870 tons; in the Maritimes, 208 tons, and in the Western provinces, 3,739 tons.

Coke used for fuel purposes in manufacturing and mining plants totalled 325,502 tons in 1934. Works in the Maritimes used 47,404 tons for this purpose; in Ontario, 188,691 tons; in Quebec, 46,682 tons; and in the West, 42,725 tons.

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Table 1 - PRODUCTION OF COKE IN CANADA, 1933 and 1934.

TABLE 1. PRODUCTION OF COKE IN CANADA, 1933 and 1934.

		P.E.I., N.S. and N.B.	Quebec	Ontario	Manitoba, Sask., Alberta and B.C.	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	8,429,360	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	2,337	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

Table 2 - APPARENT CONSUMPTION OF COKE IN CANADA, BY PROVINCES, 1933 and 1934.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Manitoba, Sask., Alberta and B.C.	CANADA
	(short tons)				
<u>1933</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
Deduct increases in producers' stocks .....	...	...	...	...	...
	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>1934</u>					
Production	250,142	406,816	1,437,720	210,502	2,305,180
Add declines in producers' stocks ..	...	...	...	...	...
	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

NOTES - 1. Import figures are amounts "Entered for consumption" or cleared from customs ports; these figures may be slightly different from the actual imports into the country.

2. No allowance has been made for changes during the year in stocks of coke held by dealers or users.

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.

Table 4.- CONSUMPTION OF COKE IN CANADA AS MANUFACTURING MATERIAL, BY INDUSTRIES, 1933 and 1934.

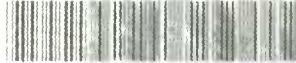
Industries	P.E.I., N.S. and N.B.	Quebec	Ontario	Manitoba, Saski, Alberta and B.C.	CANADA
			(short tons)		
<u>1 9 3 3</u>					
Acids, alkalies and salts	tons	32,015	29,301	...	61,046
	\$	224,156	173,008	...	397,164
Compressed gases	tons	158	803	286	1,605
	\$	2,315	7,639	2,188	16,584
Artificial abrasives	tons	...	3,083	6,064	9,147
	\$	...	39,619	63,537	103,156
Artificial graphite and carbon	tons	...	8,386	931	9,317
electrodes .....	\$	...	99,825	11,696	111,521
Coke and gas	tons	...	58,369	49,148	5,751
	\$	...	401,145	326,081	48,779
TOTAL	tons	158	102,656	85,460	6,109
	\$	2,315	772,384	576,510	53,221
<u>1 9 3 4</u>					
Acids, alkalies and salts	tons	...	33,261	53,466	...
	\$	...	240,279	329,327	...
Compressed gases	tons	208	781	525	354
	\$	3,126	7,171	5,215	4,341
Artificial abrasives.....	tons	....	6,633	11,759	...
	\$	...	90,572	140,938	...
Artificial graphite and carbon	tons	...	9,353	462	...
electrodes .....	\$	...	104,169	5,854	...
Coke and gas	tons	...	37,842	40,485	3,385
	\$	...	258,530	280,626	33,791
TOTAL	tons	208	87,870	106,697	3,739
	\$	3,126	700,721	761,960	38,132

Table 5 - CONSUMPTION OF COKE IN CANADA AS FURNACE CHARGES, BY INDUSTRIES, 1933 and 1934.

Industries		P.E.I. N.S. and N.B.	Quebec	Ontario	Manitoba, Sask., Alberta and B.C.	CANADA
				(short tons)		
<u>1933</u>						
Pig iron, ferro-alloys and steel ingots and castings	tons	135,482	100	129,117	268	264,967
	\$	804,810	850	638,697	3,351	1,447,708
Castings and forgings	tons	1,299	4,734	18,175	1,639	25,847
	\$	16,002	53,595	168,114	22,834	260,545
Boilers, tanks and engines	tons	60	1,236	1,344	4	2,644
	\$	813	12,488	12,733	59	26,093
Agricultural implements	tons	...	61	2,728	...	2,789
	\$	...	603	26,034	...	26,637
Machinery	tons	...	1,293	1,422	72	2,787
	\$	...	16,459	14,313	1,029	31,801
Railway rolling stock	tons	644	3,414	4,238	1,942	10,238
	\$	9,273	31,912	37,645	26,696	105,526
Other iron and steel	tons	...	...	83	141	224
	\$	...	...	740	2,131	2,871
Non-ferrous metallurgical works .	tons	...	...	103,967	25,638	129,605
	\$	...	...	936,003	229,429	1,165,432
TOTAL	tons	137,485	10,838	261,074	29,704	439,101
	\$	830,898	115,907	1,834,279	285,529	3,066,613
<u>1934</u>						
Pig iron, ferro-alloys and steel ingots and castings	tons	155,268	85	273,961	243	429,557
	\$	880,454	827	1,379,352	5,454	2,266,087
Castings and forgings	tons	1,758	6,328	21,852	1,938	31,876
	\$	21,930	70,971	241,551	27,438	361,890
Boilers, tanks and engines	tons	123	1,391	2,788	55	4,357
	\$	1,795	16,015	29,917	713	48,440
Agricultural implements	tons	...	56	4,187	...	4,243
	\$	...	552	42,110	...	42,662
Machinery	tons	...	1,861	1,365	281	3,507
	\$	...	19,852	14,491	3,484	37,827
Railway rolling stock	tons	828	4,914	7,512	1,196	14,450
	\$	12,272	45,645	77,965	16,127	152,009
Other iron and steel	tons	...	1	94	136	231
	\$	...	19	1,048	2,044	3,111
Non-ferrous metallurgical works .	tons	...	125	178,507	83,265	261,897
	\$	...	1,641	1,709,105	765,535	2,476,281
TOTAL	tons	157,977	14,761	490,266	87,114	750,118
	\$	916,451	155,522	3,495,539	820,795	5,388,307

Table 6 - CONSUMPTION OF COKE IN CANADA, AS INDUSTRIAL FUEL, IN THE MANUFACTURING AND MINING INDUSTRIES, 1933 and 1934.

Industries	P.E.I., N.S. and N.B.		Quebec	Ontario	Manitoba, Sask., Alberta and B.C.		CANADA
	(short tons)						
<u>1933</u>							
<u>MANUFACTURING -</u>							
Chemicals and allied products..	tons	57	2,713	2,878	243	5,891	
	\$	588	15,064	18,883	2,487	37,022	
Iron and steel and their	tons	20,406	3,537	47,279	494	71,716	
products	\$	47,370	34,245	169,948	6,097	257,660	
Non-ferrous metal products	tons	129	2,139	3,503	259	6,030	
(excluding smelters)	\$	1,670	13,799	28,379	3,586	47,434	
Non-metallic mineral products .	tons	7,856	16,747	74,807	38,125	137,535	
(excluding cement,clay and lime)	\$	36,366	71,820	395,854	189,196	693,236	
Animal products	tons	5	156	1,792	47	2,000	
	\$	75	1,737	8,654	471	10,937	
Textile products	tons	4	826	11,795	42	12,667	
	\$	46	8,457	40,222	474	49,199	
Vegetable products	tons	4,215	6,660	27,449	3,539	41,863	
	\$	39,591	57,821	256,340	37,571	391,323	
Wood and paper products	tons	68	396	2,012	250	2,726	
	\$	699	4,033	15,905	2,103	22,740	
Miscellaneous products	tons	19	779	236	70	1,104	
	\$	168	3,249	2,113	861	6,391	
Central electric stations	tons	...	...	1,827	...	1,827	
	\$	...	...	4,111	...	4,111	
TOTAL MANUFACTURING INDUSTRIES	tons	32,759	33,953	173,578	43,069	283,359	
	\$	126,573	210,225	940,409	242,846	1,520,053	
MINING INDUSTRIES	tons	829	4,735	6,799	225	12,588	
	\$	4,804	35,557	46,449	2,051	88,861	
TOTAL	tons	33,588	38,688	180,377	43,294	295,947	
	\$	131,377	245,782	986,858	244,897	1,608,914	
<u>1934</u>							
<u>MANUFACTURING -</u>							
Chemicals and allied products .	tons	62	3,630	2,964	254	6,930	
	\$	637	17,905	21,391	2,796	42,729	
Iron and steel and their	tons	34,805	6,057	69,133	513	110,508	
products	\$	69,554	51,899	260,854	6,750	389,057	
Non-ferrous metal products	tons	185	2,733	4,515	314	7,747	
(excluding smelters)	\$	2,436	19,163	38,600	4,149	64,348	
Non-metallic mineral products	tons	4,266	22,728	57,704	37,241	121,939	
(excluding cement,clay and lime)	\$	29,304	68,270	314,428	190,609	602,611	
Animal products	tons	19	382	1,148	36	1,585	
	\$	295	3,239	4,565	351	8,450	
Textile products	tons	...	2,116	12,953	67	15,136	
	\$	...	15,978	45,052	719	61,749	
Vegetable products	tons	5,299	5,872	29,911	3,278	44,360	
	\$	49,721	58,453	261,610	33,856	403,640	
Wood and paper products	tons	56	420	2,527	155	3,158	
	\$	553	4,417	18,787	1,503	25,260	
Miscellaneous industries	tons	72	204	270	104	650	
	\$	514	1,913	2,777	1,136	6,340	
TOTAL MANUFACTURING INDUSTRIES	tons	44,764	44,142	181,145	41,962	312,013	
	\$	153,014	241,237	968,064	241,869	1,604,184	
MINING INDUSTRIES	tons	2,640	2,540	7,546	763	13,489	
	\$	15,115	19,918	59,231	10,665	104,929	
TOTAL	tons	47,404	46,682	188,691	42,725	325,502	
	\$	168,129	261,155	1,027,295	252,534	1,709,113	



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