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REPORT ON THE CONSUMPTION OF COKE IN CANADA, 1929.

Production of coke (including coke breeze and petroleum coke) in Canada during 1929 totalled 2,787,097 tons and as imports during the same year amounted to 1,226,853 tons, there was thus an available supply of 4,013,950 tons. Exports (including petroleum coke) amounted to 53,130 tons, leaving 3,960,820 tons as the quantity available for consumption in Canada during the year.

An analysis of consumption figures for 1929, based on returns of the industrial census, shows that during that year 1,676,444 tons of coke were used as blast furnace or cupola charges, 364,251 tons were used as raw materials in manufacturing and 386,803 tons were used as fuel in manufacturing and mining plants. Thus a total of 2,427,498 tons can be accounted for in available records of industrial uses but it should be noted that the industrial census covers only the manufacturing industries and does not include trading establishments, repair shops, warehouses, etc.; data on the coke consumption in these latter works are not available.

As noted above, the quantity of coke made available for consumption during the year was 3,960,820 tons; industrial uses account for 2,427,498 tons; so the difference, or 1,533,322 tons, represents the quantity available for use as domestic fuel or in the industrial establishments not within the scope of the industrial census.

Furnace charges of coke during 1929 totalled 1,676,444 tons of which 1,171,171 tons were charged to iron blast furnaces, 2,787 tons to steel furnaces, 134,164 tons to foundry cupolas, and 368,322 tons to non-ferrous metal blast furnaces. By districts the consumption for this purpose was as follows:- Maritime Provinces, 411,587 tons; Quebec, 56,368 tons; Ontario, 1,144,433 tons; and the western provinces, 84,056 tons.

Consumption of coke as a raw material in manufacturing in 1929 amounted to 364,251 tons of which 158,407 tons were used in the manufacture of calcium carbide and carbon dioxide, 147,806 tons in the manufacture of coke and gas, 42,238 tons in the manufacture of artificial abrasive products, and 15,800 tons in making graphite electrodes and foundry facings. Plants in Ontario used 222,095 tons for these purposes; in Quebec, 128,515 tons; in the Maritime Provinces, 326 tons; and in the Western Provinces, 13,315 tons.

Coke was used also in considerable quantity as an industrial fuel, the quantity so used in 1929 amounting to about 386,803 tons. The iron and steel industries used 136,697 tons; chemical industries, 10,770 tons; industries making non-ferrous metal products, 11,373 tons; concerns manufacturing non-metallic mineral products, 121,134 tons; other industries using coke as fuel were: metal mining, 14,548 tons; non-metallic mining, 3,008 tons; structural materials and clay products, 16,173 tons; wood and paper using industries, 2,655 tons; vegetable products, 46,768 tons; textile products, 9,023 tons; animal products, 10,539 tons; and other industries, 4,068 tons. Industrial plants in the Maritime Provinces used 52,131 tons of coke for fuel purposes; in Quebec, 51,955 tons; in Ontario, 241,992 tons; and in the Western Provinces, 40,672 tons.

In the following tables the apparent consumption figure is separated by provinces but it should be noted that the detail by provinces is subject to slight error owing to the fact that records of interprovincial shipments are not available.

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TABLE 1.- PRODUCTION OF COKE IN CANADA, 1928 and 1929.

	P.E.I., N.S., N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
<u>1928</u>					
Coke Industry.....Tons	451,804	173,000	1,225,253	130,534	1,980,591
\$	2,090,967	1,367,232	7,794,067	1,101,322	12,353,586
Gas Industry.....Tons	11,289	67,204	218,259	36,784	333,536
\$	98,681	369,611	1,538,859	174,972	2,182,123
Petroleum Refining Industry.....Tons	8,712	1,596	49,409	36,191	95,908
\$	44,145	9,717	314,794	192,774	561,430
TOTAL	Tons 471,805	241,800	1,492,921	203,509	2,410,035
\$	2,233,793	1,746,560	9,647,720	1,469,068	15,097,141
<u>1929</u>					
Coke Industry.....Tons	489,455	350,079	1,380,890	151,805	2,372,229
\$	2,345,734	2,811,119	9,456,180	1,325,433	15,938,466
Gas Industry.....Tons	9,625	1,293	243,994	50,440	305,352
\$	90,949	11,644	1,656,629	249,970	2,009,192
Petroleum Refining Tons	9,012	1,996	59,386	39,122	109,516
\$	38,366	12,631	338,751	216,235	605,983
Tons	508,092	353,368	1,684,270	241,367	2,787,097
\$	2,475,049	2,835,594	11,451,560	1,791,638	18,553,641

(x)

TABLE 2.- APPARENT COKE CONSUMPTION IN CANADA, BY PROVINCES, 1928 and 1929.

	P.E.I., N.S., N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
<u>1928</u>					
Production.....Tons	471,805	241,800	1,492,921	203,509	2,410,035
Imports.....Tons	13,599	115,017	914,064	17,349	1,060,029
TOTAL.....Tons	485,404	356,817	2,406,985	220,858	3,470,064
Exports.....Tons	154	852	27,304	16,605	44,915
Apparent Consumption..Tons	485,250	355,965	2,379,681	204,253	3,425,149
<u>1929</u>					
Production.....Tons	508,092	353,368	1,684,270	241,367	2,787,097
Imports.....Tons	24,662	54,760	1,123,761	23,670	1,226,853
TOTAL.....Tons	532,754	408,128	2,808,031	265,037	4,013,950
Exports.....Tons	492	366	29,908	22,364	53,130
Apparent Consumption..Tons	532,262	407,762	2,778,123	242,673	3,960,820

(x) Petroleum coke is included in the production and export figures.

TABLE 3.- ANALYSIS OF CANADA'S COKE CONSUMPTION BY PRINCIPAL USES IN 1928 and 1929.
(Short tons)

Use	P.E.I., N.S., N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
<u>1928</u>					
Furnace charges.....	389,758	31,523	919,579	87,751	1,428,611
Manufacturing material....	274	83,684	154,006	11,944	249,908
Industrial fuel.....	25,366	29,536	216,666	33,330	309,898
(x) Available for domestic fuel (by difference).....	69,352	211,222	1,089,430	66,228	1,436,732
TOTAL.....	485,250	355,965	2,379,681	204,253	3,425,149
<u>1929</u>					
Furnace charges.....	411,587	36,368	1,144,433	84,056	1,676,444
Manufacturing material....	326	128,515	222,095	13,315	364,251
Industrial fuel.....	52,181	51,958	241,992	40,672	386,803
(x) Available for domestic fuel (by difference).....	36,168	190,921	1,169,603	104,630	1,533,322
TOTAL.....	532,262	407,762	2,778,123	242,673	3,960,820

(x) Includes coke for industries not covered by the industrial census.

TABLE 4.- CONSUMPTION OF COKE IN CANADA AS MANUFACTURING MATERIAL, BY INDUSTRIES, 1929.

Industry	P.E.I., N.S., N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
Acids, alkalies and salts...Tons	...	43,808	112,364	...	156,172
\$	...	340,275	1,019,278	...	1,359,553
Compressed gases.....Tons	326	642	648	619	2,235
\$	6,940	10,693	9,091	6,601	33,325
Artificial abrasives.....Tons	...	5,590	36,848	...	42,238
\$	...	66,501	296,222	...	362,723
Coke and gas.....Tons	...	63,404	71,706	12,696	147,806
\$	...	543,914	410,202	125,905	1,080,021
Artificial graphite and carbon electrodes.....Tons	...	15,271	529	...	15,800
\$	...	243,759	5,904	...	249,663
TOTAL.....Tons	326	128,515	222,095	13,315	364,251
\$	6,940	1,205,142	1,740,697	132,506	3,085,285

TABLE 5.- CONSUMPTION OF COKE IN CANADA AS FURNACE CHARGES, BY INDUSTRIES, 1929.

Industry	P.E.I., N.S., N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
1. Pig iron and ferro-alloys, steel ingots and castingsTons	406,994	56	765,957	1,051	1,173,958
\$	2,022,174	384	4,190,362	15,303	6,228,423
2. Castings and forgings....Tons	2,504	22,073	44,928	4,240	73,745
\$	36,726	104,579	463,600	63,140	673,045
3. Boilers, tanks and engines.....Tons	240	...	1,206	120	1,366
\$	2,423	...	11,024	1,540	14,987
4. Agricultural implements..Tons	...	200	15,233	67	15,500
\$	...	2,227	146,303	735	151,815
5. Machinery.....Tons	...	5,114	7,794	190	13,098
\$	...	65,514	82,083	3,390	150,987
6. Railway rolling stock....Tons	1,949	8,925	14,941	4,390	30,205
\$	51,975	102,249	155,704	67,376	357,804
7. Non-ferrous metallurgical works.....Tons	...	...	294,324	73,998	368,322
\$	...	...	2,534,533	746,174	3,280,757
TOTAL.....Tons	411,357	36,363	1,444,423	84,056	1,676,444
\$	2,093,298	274,953	7,591,159	898,408	10,857,813

TABLE 6.- CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES, 1929.

Industry	P.E.I., N.S., N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
CHEMICALS AND ALLIED PRODUCTS					
1. Coal tar products.....Tons	...	5,511	....	...	5,511
\$...	12,418	...	...	12,418
2. Acids, alkalies and saltsTons	1,374	35	1,409
\$	12,892	307	13,199
3. Compressed gases.....Tons	2,651	...	2,651
\$	10,792	...	10,792
4. Explosives, ammunition and fireworks.....Tons	...	273	110	...	383
\$...	3,742	1,102	...	4,844
5. Medicinal and pharma- ceutical preparations....Tons	4	4	8
\$	49	62	111
6. Paints, pigments and varnishes.....Tons	99	1,410	334	183	2,526
\$	1,142	16,014	7,383	2,433	26,972
7. Soaps and washing compounds.....Tons	...	39	53	...	92
\$...	364	676	...	1,040
8. Inks.....Tons	...	10	125	...	135
\$...	121	1,386	...	1,507
9. Miscellaneous chemical industries.....Tons	...	42	10	...	52
\$...	538	350	...	888
TOTAL.....Tons	99	5,288	5,161	222	10,770
\$	1,142	33,197	34,630	2,802	71,771

TABLE 8.- CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES IN 1929 (continued)

Industry	P.E.I.,		Quebec	Ontario	Man., Sask.,	
	N.S.,	N.B.			Alberta	and B.C.	CANADA
IRON AND STEEL AND THEIR PRODUCTS						
1. Pig iron and ferro-alloys and steel and rolled products.....	Tons	19,916	1,512	74,140	...	95,568
	\$	45,533	17,080	237,489	...	297,192
2. Castings and forgings.....	Tons	580	1,304	11,589	435	13,908
	\$	6,421	13,334	108,073	6,151	133,979
3. Boilers, tanks and engines.....	Tons	...	24	403	219	646
	\$	...	298	3,399	3,347	7,044
4. Agricultural implements.....	Tons	...	239	1,061	13	1,313
	\$	...	2,600	9,547	202	12,349
5. Machinery.....	Tons	...	2,172	1,421	178	3,771
	\$	...	21,025	13,792	1,496	36,313
6. Auto parts and accessories.....	Tons	...	...	111	9	120
	\$	...	...	544	120	672
7. Railway rolling stock.....	Tons	1,555	299	1,444	...	3,096
	\$	10,345	3,200	13,620	...	27,165
8. Wire and wire goods.....	Tons	132	571	5,667	...	6,370
	\$	357	5,585	23,019	...	28,961
9. Sheet metal products.....	Tons	...	628	5,331	249	6,208
	\$	...	7,686	9,424	4,050	21,140
10. Hardware and tools.....	Tons	185	117	4,421	28	4,751
	\$	2,220	1,235	32,808	280	36,543
11. Iron and steel products, n.e.s.....	Tons	...	16	975	55	946
	\$	...	180	9,161	570	9,911
TOTAL.....	Tons	22,166	6,822	106,463	1,186	136,697
	\$	62,376	72,223	460,376	16,204	612,179
MANUFACTURES OF THE NON-FERROUS METALS						
1. Aluminium products.....	Tons	...	...	1,636	...	1,636
	\$	...	...	15,621	...	15,621
2. Brass and copper products.....	Tons	427	2,836	2,483	828	6,574
	\$	5,533	32,348	23,223	11,593	72,697
3. Lead, tin and zinc products.....	Tons	...	259	375	...	637
	\$	...	3,244	2,662	...	5,906
4. Precious metal products.....	Tons	...	...	142	...	142
	\$	...	...	934	...	934
5. Electrical apparatus and supplies.....	Tons	...	...	2,560	15	2,375
	\$	...	...	20,754	165	20,919
6. Miscellaneous non-ferrous metal products.....	Tons	...	...	9	...	9
	\$	...	...	98	...	98
7. Non-ferrous metallurgical works.....		(14,014 tons valued at \$146,330 included under metallic mining).				
TOTAL.....	Tons	427	3,095	7,008	843	11,373
	\$	5,533	35,592	63,292	11,758	116,175
MANUFACTURES OF THE NON-METALLIC MINERALS						
1. Aerated waters.....	Tons	14	28	137	8	187
	\$	205	417	1,534	100	2,356
2. Artificial abrasives and abrasive products.....	Tons	...	123	...	...	123
	\$	...	719	...	...	719
3. Cement products.....	Tons	...	20	69	5	94
	\$	...	220	676	77	973
4. Coke and by-products.....	Tons	18,617	11,784	...	6,138	36,539
	\$	94,073	43,546	...	33,578	171,199
5. Glass (plate, cut or ornamental).....	Tons	...	3	177	...	180
	\$	...	39	1,701	...	1,740
6. Artificial graphite and carbon electrodes.....	Tons	...	...	48	...	48
	\$	...	...	500	...	500
7. Gypsum products.....	Tons	...	475	256	244	1,575
	\$	...	4,329	6,768	2,006	13,103
8. Illuminating and fuel gas.....	Tons	2,900	618	48,759	5,070	57,347
	\$	25,385	5,570	284,922	25,832	341,709
9. Products from imported clays.....	Tons	...	...	447	...	447
	\$	...	...	3,895	...	3,895
10. Stone, monumental and ornamental.....	Tons	15	...	461	49	525
	\$	179	...	5,368	580	6,125
11. Petroleum products.....	Tons	105	1,786	7,683	14,495	24,069
	\$	627	11,309	35,530	72,057	119,529
TOTAL.....	Tons	21,651	14,837	58,637	26,059	121,184
	\$	120,471	66,145	341,012	154,230	661,558

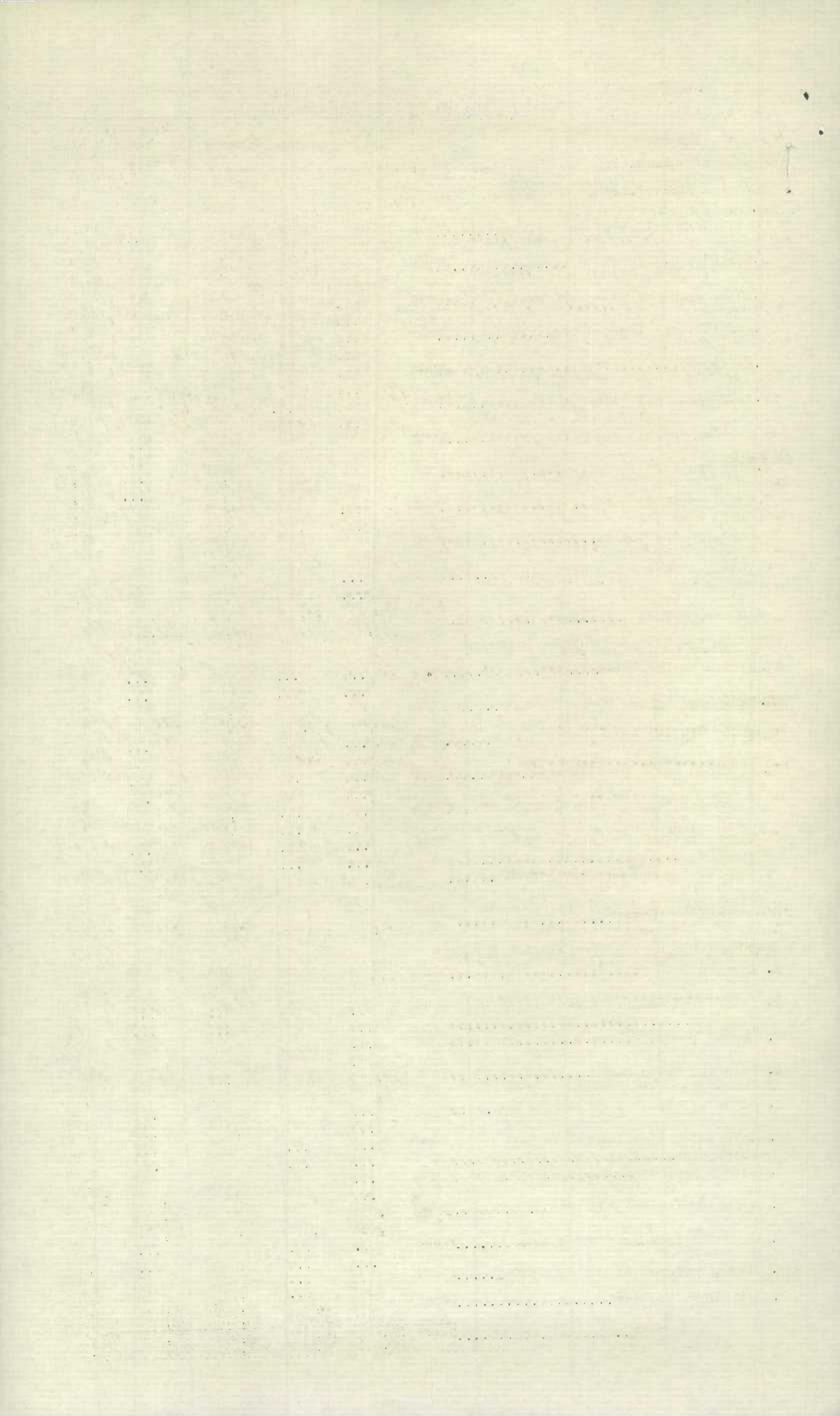


TABLE 6.- CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES IN 1929 (concluded)

Industry	P.E.I.,		Ontario	Man., Sask.,		CANADA
	N.S.,	Quebec		Alberta	and N.C.	
	N.B.					
Animal products.....	Tons	16	333	10,161	29	10,539
	\$	206	3,178	38,261	459	42,104
Textiles and textile products.....	Tons	6	615	8,374	28	9,023
	\$	78	9,377	37,185	397	46,037
Vegetable products.....	Tons	4,793	7,257	27,451	7,267	46,768
	\$	50,443	81,759	274,279	71,252	477,733
Wood and paper products.....	Tons	131	356	2,079	89	2,655
	\$	1,429	4,209	16,538	1,163	23,339
Miscellaneous industries.....	Tons	204	637	3,112	115	4,068
	\$	2,090	6,718	34,038	1,908	44,804
TOTAL.....	Tons	5,150	9,193	51,177	7,523	73,053
	\$	54,246	104,241	400,401	75,179	634,067

METALLIC MINING

1. Auriferous quartz mining.....	Tons	...	30	154	11	195
	\$	...	735	2,226	493	3,456
2. Copper-gold-silver mining.....	Tons	...	2	...	42	44
	\$	...	80	...	774	854
3. Nickel-copper mining.....	Tons	...	...	72	...	72
	\$	...	...	636	...	636
4. Metallurgical works.....	Tons	...	10,351	492	3,491	14,014
	\$	...	104,743	4,535	37,047	146,330
5. Silver-lead-zinc mining.....	Tons	...	...	...	220	220
	\$	...	...	...	2,193	2,193
TOTAL.....	Tons	...	10,063	718	3,764	14,545
	\$	...	105,563	7,397	40,309	153,469

NON-METALLIC MINING

1. Asbestos.....	Tons	...	1,682	...	...	1,682
	\$	...	21,016	...	...	21,016
2. Gypsum.....	Tons	...	...	495	803	1,298
	\$	...	...	4,502	8,463	12,965
3. Natural Gas.....	Tons	2	...	...	...	2
	\$	23	...	...	...	23
4. Natural Abrasives.....	Tons	26	...	...	...	26
	\$	312	...	...	...	312
TOTAL.....	Tons	28	1,682	495	803	3,008
	\$	340	21,016	4,502	8,463	34,321

CLAY PRODUCTS AND STRUCTURAL MATERIALS

1. Cement.....	Tons	...	130	...	...	130
	\$	...	1,362	...	...	1,362
2. Clay products.....	Tons	...	783	3,233	263	4,279
	\$	...	8,539	22,568	2,086	31,193
3. Lime.....	Tons	2,660	...	9,100	...	11,760
	\$	13,280	...	66,327	...	79,607
4. Stone.....	Tons	4	4
	\$	40	40
TOTAL.....	Tons	2,660	913	12,333	267	16,173
	\$	13,780	7,901	88,895	2,126	112,202

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