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REPORT ON THE CONSUMPTION OF COKE IN CANADA, 1927.

Consumption of coke in Canada for domestic heating purposes during 1927 amounted to 1,086,496 tons as compared with a corresponding figure of 1,310,489 tons for 1926 and 836,720 tons for 1925, according to an estimate prepared in the Dominion Bureau of Statistics at Ottawa.

Production of coke (including coke breeze but excluding petroleum coke) in Canada during 1927 totalled 2,026,438 tons and as imports during the same year amounted to 772,235 tons, there was thus an available supply of 2,798,673 tons. Exports amounted to 74,109 tons leaving 2,724,564 tons as the quantity available for consumption in Canada during the year.

An analysis of consumption figures for 1927 based on returns of the industrial census, shows that during the year 1,138,189 tons of coke were used as blast furnace or cupola charges, 277,296 tons were used as raw materials in manufacturing and 222,583 tons were used as industrial fuel. Thus a total of 1,638,068 tons can be accounted for in available records of industrial uses. As noted above, the quantity of coke made available for consumption during the year was 2,724,564 tons; industrial uses account for 1,638,068 tons; and it is assumed that the difference or 1,086,496 tons, represents the quantity used as domestic fuel. By districts the consumption of coke for domestic heating, as thus computed, was as follows: Maritime provinces, 425,425 tons; Quebec, 241,327 tons; Ontario, 1,862,942 tons; and the western provinces, 196,870 tons.

79,181

854,967

58,554

Furnace charges of coke during 1927 totalled 1,138,189 tons of which 798,803 tons were charged to iron blast furnaces, 2,968 tons to steel furnaces, 107,040 tons to foundry cupolas and 229,378 tons to non-ferrous metal blast furnaces. By districts the consumption for this purpose was as follows: Maritime provinces, 315,133 tons; Quebec, 30,237 tons; Ontario, 694,019 tons; and the western provinces, 98,800 tons.

Consumption of coke as a raw material in manufacturing in 1927 amounted to 277,296 tons of which 86,320 tons were used in the manufacture of calcium carbide and carbon dioxide, 151,563 tons in the manufacture of water gas and 39,413 tons in making graphite electrodes and foundry facings. Plants in Ontario used 158,654 tons for these purposes; in Quebec, 106,525 tons; in the Maritime provinces, 236 tons, and in the western provinces, 11,881 tons.

Coke was used also in considerable quantity as an industrial fuel, the quantity so used in 1927 amounting to about 222,583 tons. The iron and steel industries used 70,763 tons; chemical industries, 8,012 tons; industries making non-ferrous metal products, 8,727 tons; concerns manufacturing non-metallic mineral products, 60,070 tons; other industries using coke as fuel were: metal mining, 1,417 tons; non-metallic mining, 2,216 tons; structural materials and clay products, 13,012 tons; wood and paper using industries, 2,386 tons; vegetable products, 37,802 tons; textile products, 7,948 tons; animal products, 6,385 tons; and other industries, 3,845 tons. Industrial plants in the Maritime provinces used 14,242 tons of coke for fuel purposes; in Quebec, 25,404 tons; in Ontario, 155,302 tons; and in the western provinces, 27,635 tons.

Note Re Values.- Production values are selling values at the point of production; import values are Customs' declarations, i.e. fair market value in the country whence and at the time the coke was imported; and consumption figures are costs at the plant where the coke was used.

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Table 1.- CANADA'S COKE CONSUMPTION, BY PROVINCES, 1926 and 1927.

	P.E.I. N.S. N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
<u>1 9 2 6</u>					
Production.....	tons 484,760	162,169	1,144,493	235,636	2,027,058
	\$ 2,373,863	891,435	8,208,124	1,832,453	13,305,925
Imports.....	tons 7,310	93,048	869,000	18,076	988,034
	\$ 63,352	711,525	5,646,555	144,754	6,566,686
TOTAL.....	tons 492,070	255,217	2,013,493	253,712	3,015,092
	\$ 2,437,215	1,602,960	13,854,679	1,977,207	19,872,611
Exports.....	tons 664	1,076	10,606	29,353	41,699
	\$ 4,576	9,542	76,958	225,078	316,154
Apparent Consumption.....	tons 491,406	254,141	2,002,887	224,359	2,973,393
	\$ 2,432,139	1,593,418	13,777,721	1,752,129	19,556,457
<u>1 9 2 7</u>					
Production.....	tons 417,380	144,538	1,260,355	204,165	2,026,438
	\$ 2,020,953	794,959	8,542,988	1,605,312	12,964,212
Imports.....	tons 7,209	97,359	649,165	18,002	772,235
	\$ 58,541	720,849	3,811,959	150,875	4,742,224
TOTAL.....	tons 424,589	241,897	1,909,520	222,167	2,798,673
	\$ 2,079,494	1,515,808	12,354,947	1,756,187	17,706,436
Exports.....	tons 1,164	1,070	46,578	25,297	74,109
	\$ 7,325	9,672	328,690	188,296	534,483
Apparent Consumption.....	tons 423,425	241,327	1,862,942	196,870	2,724,564
	\$ 2,071,669	1,506,136	12,026,257	1,567,891	17,171,953

(x) Petroleum coke has not been included in this compilation.

Note Re Values:- Production values are selling values at the point of production; import values are Customs' declarations, i.e., fair market value in the country whence and at the time the coke was imported; and consumption figures are costs at the plant where the coke was used. (x)

Table 2.- ANALYSIS OF CANADA'S COKE CONSUMPTION BY PRINCIPAL USES IN 1926 and 1927.

(Short tons)

Use	P.E.I. N.S. N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
<u>1 9 2 6</u>					
Furnace charges.....	321,918	32,548	750,057	112,255	1,216,758
Manufacturing material.....	429	58,053	147,920	11,284	217,686
Industrial fuel.....	9,568	31,790	160,350	26,752	228,460
Domestic fuel (by difference)	159,491	132,350	944,560	74,088	1,310,489
TOTAL.....	491,406	254,741	2,002,887	224,359	2,973,393
<u>1 9 2 7</u>					
Furnace charges.....	315,133	30,257	694,019	98,800	1,138,189
Manufacturing material.....	236	106,525	158,654	11,891	277,296
Industrial fuel.....	14,242	25,404	155,302	27,355	222,583
Domestic fuel (by difference)	93,814	79,161	854,967	58,554	1,086,496
TOTAL.....	423,425	241,327	1,862,942	196,870	2,724,564

(x) Petroleum coke has not been included in this compilation.

Table 3.- CONSUMPTION OF COKE IN CANADA AS MANUFACTURING MATERIALS, BY INDUSTRIES, 1927.

Industry	P.E.I. N.S. N.B.	Quebec	Ontario	Man.,Sask., Alberta and B.C.	CANADA
Acids, alkalies, salts and compressed gases.....	tons 236	34,639	51,078	367	86,320
	\$ 5,044	300,664	465,369	5,158	776,835
Illuminating and fuel gas....	tons ...	67,160	72,889	11,514	151,563
	\$...	386,041	457,076	100,263	943,380
Miscellaneous non-metallic mineral products.....	tons ...	4,726	74,687	...	39,413
	\$...	73,878	228,929	...	302,807
TOTAL.....	tons 236	106,525	158,654	11,891	277,296
	\$ 5,044	760,583	1,151,974	105,421	2,023,022

(x) Petroleum coke has not been included in this compilation.

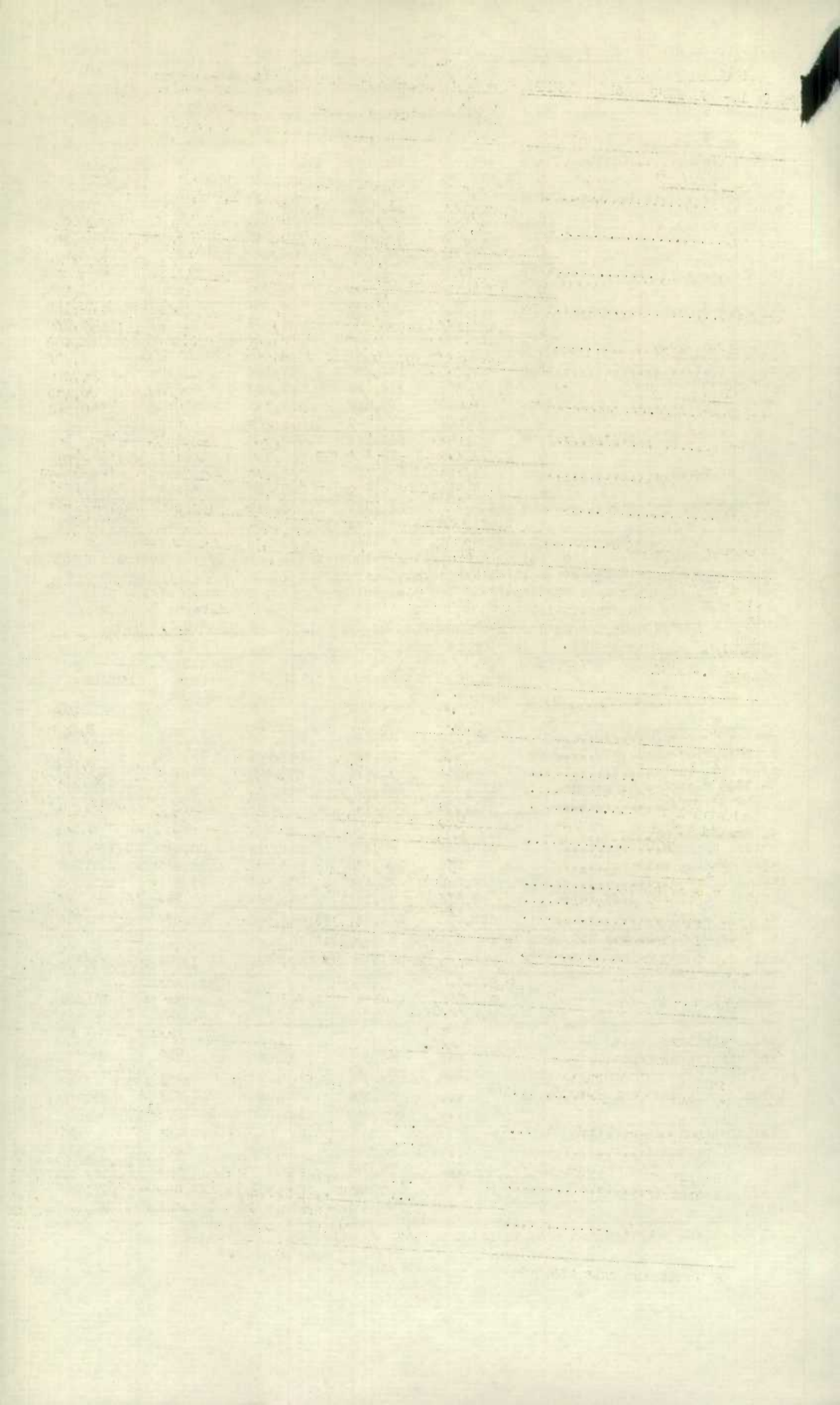


Table 4.- CONSUMPTION OF COKE IN CANADA AS FURNACE CHARGES, BY INDUSTRIES, 1927.

Industry	P.E.I.			Man.,Sask. Alberta and B.C.	CANADA
	N.S. N.B.	Quebec	Ontario		
1. Pig iron and ferro- alloys, steel ingots and castings.....tons	311,563	325	489,107	776	801,771
\$	1,476,663	4,353	2,817,039	12,020	4,310,075
2. Castings and forgings..tons	2,215	15,736	32,922	3,630	54,503
\$	36,043	197,422	349,646	57,481	640,592
3. Boilers, tanks and engines.....tons	125	...	1,499	152	1,776
\$	2,694	...	14,399	2,032	19,125
4. Agricultural implements..tons	...	123	15,131	115	15,369
\$	...	1,613	151,134	1,655	154,402
5. Machinery.....tons	...	4,199	4,659	344	9,202
\$	...	55,400	47,094	5,776	108,270
6. Railway rolling stock..tons	1,230	8,150	12,163	4,647	26,190
\$	19,414	99,236	127,669	72,024	318,343
7. Non-ferrous metall- urgical works.....tons	...	1,704	138,538	89,136	229,378
\$	...	19,941	1,226,169	920,166	2,166,276
TOTAL.....tons	315,133	30,237	694,019	98,800	1,138,189
\$	1,534,814	377,965	4,733,150	1,071,154	7,717,083

(x) Petroleum coke has not been included in this compilation.

(x)

Table 5.- CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES, 1927.

Industry	P.E.I.			Man.,Sask., Alberta and B.C.	CANADA
	N.S. N.B.	Quebec	Ontario		
<u>CHEMICALS AND ALLIED PRODUCTS</u>					
1. Coal tar and its products.....tons	...	754	6	8	768
\$...	2,262	85	40	2,385
2. Acids, alkalies, salts and compressed gases...tons	...	90	3,903	88	4,081
\$...	725	21,659	772	23,156
3. Explosives, ammunition, fireworks and matches...tons	...	427	25	...	452
\$...	5,083	258	...	5,341
4. Fertilizers.....tons	20	20
\$	100	100
5. Medicinal and pharma- ceutical preparations..tons	...	2	31	...	33
\$...	26	444	...	470
6. Paints, pigments and varnishes.....tons	100	972	609	149	1,830
\$	1,169	12,380	6,377	2,146	22,072
7. Soaps, washing compounds and toilet preparations..tons	...	47	43	354	444
\$...	506	553	2,748	3,867
8. Inks, dyes and colours..tons	...	5	93	...	98
\$...	65	1,205	...	1,270
9. Wood distillates and extracts.....tons	...	244	...	...	244
\$...	861	...	...	861
10. Miscellaneous chemical industries.....tons	...	7	35	...	42
\$...	80	407	...	487
TOTAL.....tons	100	2,548	4,745	619	8,012
\$	1,169	22,048	30,986	5,806	60,009

(x) Petroleum coke has not been included in this compilation.

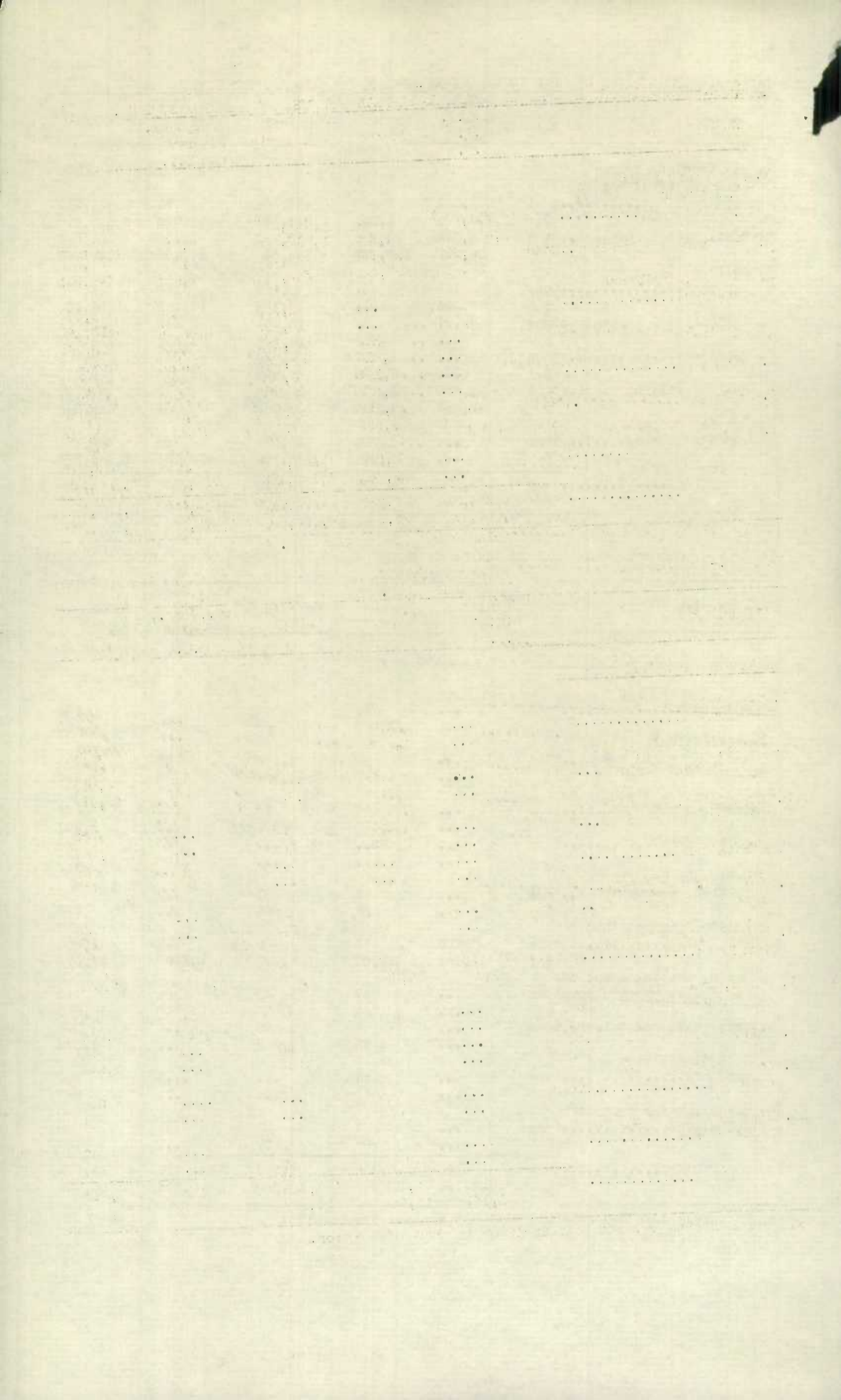


Table 5.- CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES IN 1927 (continued).

Industry	P.E.I.		Ontario	Man., Sask. and B.C.		
	N.S.	Quebec		Alberta	CANADA	
	N.B.					
<u>IRON AND STEEL AND THEIR PRODUCTS</u>						
1. Pig iron and ferro-alloys and steel and rolled products..	tons	1,467	556	36,447	150	38,620
	\$	3,040	6,791	172,312	1,500	183,643
2. Castings and forgings.....	tons	499	1,363	9,135	346	11,343
	\$	6,295	21,913	80,292	4,012	112,512
3. Boilers, tanks and engines.....	tons	...	55	295	123	473
	\$	...	723	2,760	1,567	5,055
4. Agricultural implements.....	tons	...	200	771	...	971
	\$	...	2,082	7,880	...	9,962
5. Machinery.....	tons	...	2,037	1,126	264	3,427
	\$	...	22,069	11,188	3,918	37,175
6. Auto parts and accessories.....	tons	...	3	263	21	287
	\$	...	60	2,930	323	3,315
7. Railway rolling stock.....	tons	142	343	927	...	1,411
	\$	1,338	3,819	9,353	...	14,510
8. Wire and wire goods.....	tons	16	61	3,461	...	3,538
	\$	172	438	26,433	...	27,043
9. Sheet metal products.....	tons	...	329	3,334	130	4,013
	\$	...	6,739	31,639	2,023	40,401
10. Hardware and tools.....	tons	123	146	2,810	20	3,099
	\$	1,762	1,458	26,169	196	29,585
11. Iron and steel products, n.e.s.	tons	...	4	905	167	1,076
	\$	...	49	9,329	2,092	11,470
TOTAL.....	tons	2,247	5,796	61,494	1,226	70,763
	\$	12,807	66,146	380,285	15,633	474,671
<u>MANUFACTURES OF THE NON-FERROUS METALS</u>						
1. Aluminium products.....	tons	...	...	749	...	749
	\$	...	...	6,398	...	6,398
2. Brass and copper products.....	tons	276	2,390	2,813	675	6,154
	\$	3,364	22,493	29,399	9,673	71,429
3. Lead, tin and zinc products....	tons	...	27	201	...	228
	\$	...	299	1,046	...	1,345
4. Precious metal products.....	tons	...	...	111	...	111
	\$	...	...	1,115	...	1,115
5. Electrical apparatus and supplies.....	tons	...	70	1,415	...	1,485
	\$	...	340	13,624	...	14,464
6. Non-ferrous metallurgical works.				(229,373 tons valued at \$2,136,276 included in table 4.)		
TOTAL.....	tons	276	2,487	5,289	675	8,727
	\$	3,364	29,632	51,582	9,673	94,751

(x) Petroleum coke has not been included in this compilation.

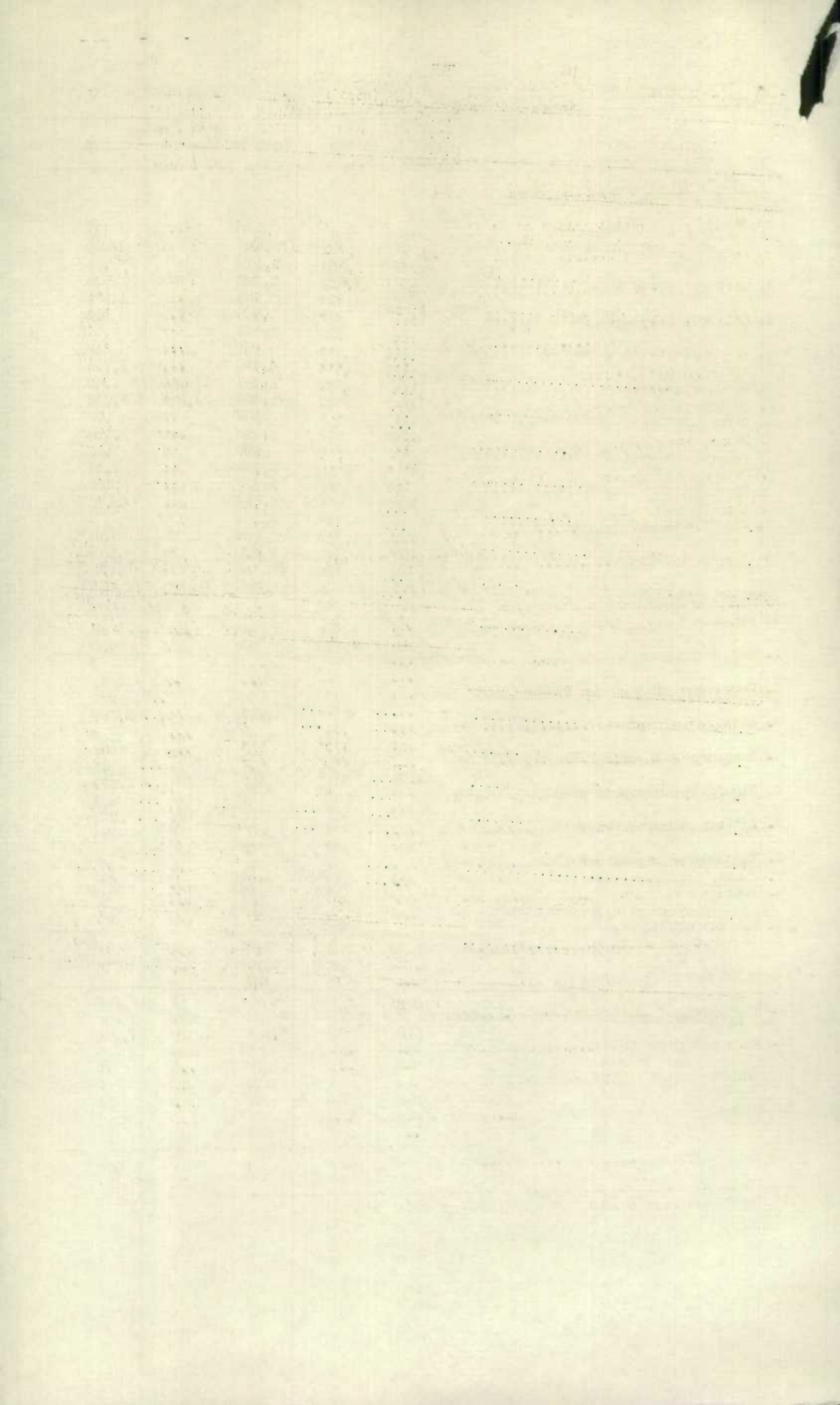


Table 5.- CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES IN 1927. (continued).

Industry	P.E.I.			Man., Sask.	
	N.S. N.E.	Quebec	Ontario	Alberta and B.C.	CANADA
MANUFACTURES OF THE NON-METALLIC MINERALS					
1. Aerated waters.....	9	21	82	...	112
	\$ 113	326	916	...	1,355
2. Cement products.....	...	131	24	3	163
	\$...	1,288	326	72	1,686
3. Coke and by-products.....	1,232	...	...	...	1,232
	\$ 2,894	...	...	...	2,894
4. Glass, (plate, cut or ornamental, etc.).....	...	...	218	...	218
	\$ ...	...	2,498	...	2,498
5. Illuminating and fuel gas.....	3,486	45	31,737	19,932	55,200
	\$ 33,134	1,128	228,649	94,151	357,062
6. Products from imported clays.....	...	...	407	...	407
	\$ ...	...	3,638	...	3,638
7. Stone, monumental and ornamental.....	...	...	145	2	147
	\$ ...	...	1,392	31	1,423
8. Petroleum products and refining.....	...	...	1,733	...	1,733
	\$ ...	...	12,146	...	12,146
9. Miscellaneous non-metallic mineral products.....	...	683	163	12	858
	\$...	7,050	961	184	8,195
TOTAL.....	4,727	880	34,509	19,954	60,070
	\$ 36,141	9,792	250,526	94,438	390,897
WOOD AND PAPER PRODUCTS INDUSTRIES					
1. Boxes and bags, paper.....	...	10	54	...	64
	\$...	170	563	...	733
2. Boxes and packing cases.....	...	5	...	...	3
	\$...	41	...	...	41
3. Carriages, wagons and sleighs.....	...	44	226	2	272
	\$...	663	1,958	34	2,655
4. Coffins and caskets.....	...	...	8	...	8
	\$ ...	...	69	...	69
5. Cooperage.....	...	19	492	12	523
	\$...	243	4,260	126	4,629
6. Furniture and upholstering.....	2	21	51	30	104
	\$ 24	316	617	321	1,278
7. Lithographing and engraving.....	...	4	220	9	233
	\$...	40	1,331	135	1,506
8. Miscellaneous wood products.....	...	17	48	...	65
	\$...	187	569	...	756
9. Paper goods, n.e.s.....	...	...	17	...	17
	\$ ...	...	197	...	197
10. Planing mills, sash and door factory.....	4	1	21	...	26
	\$ 50	13	252	...	317
11. Printing and bookbinding.....	...	64	441	6	511
	\$...	859	3,526	69	4,454
12. Printing and publishing.....	68	71	218	191	548
	\$ 821	834	1,511	1,156	4,322
13. Pulp and paper mills.....	...	...	6	...	6
	\$ ...	...	72	...	72
14. Roofing paper, wall board, etc.....	...	2	...	...	2
	\$...	18	...	...	18
15. Stereotyping and electrotyping.....	...	...	6	...	6
	\$ ...	...	78	...	78
TOTAL.....	74	256	1,808	250	2,386
	\$ 895	3,386	15,003	1,841	21,125

(x) Petroleum coke has not been included in this compilation.

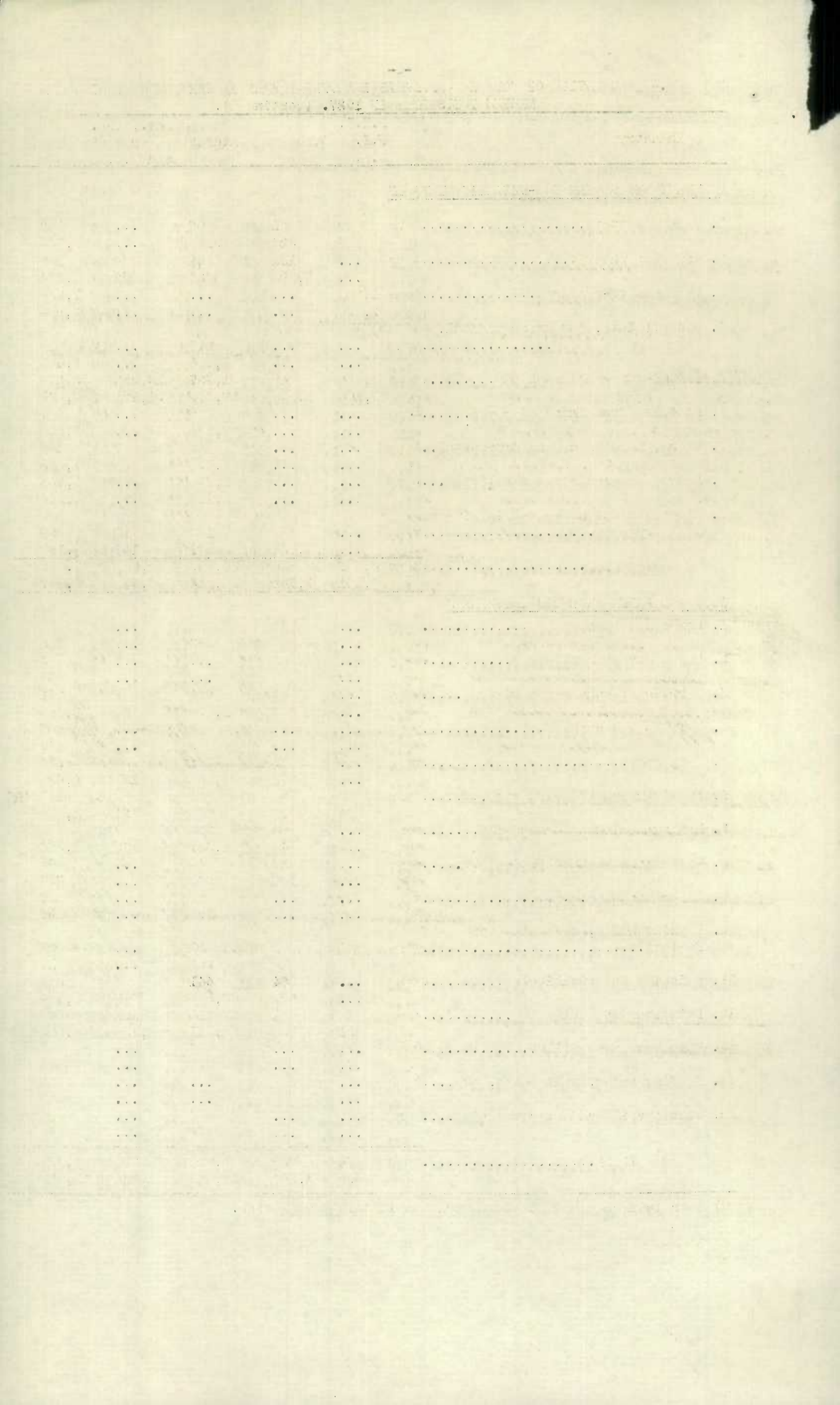


Table 5.- CONSUMPTION OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURING AND MINING INDUSTRIES IN 1927. (concluded).

Industry	P.E.I.		Quebec	Ontario	Man., Sask., and B.C.	
	N.S. N.B.				Alberta	CANADA
Animal products.....tons	52	676	5,604	53	6,385	
\$	544	3,604	57,463	601	62,217	
Textiles and textile products....tons	6	1,149	6,787	6	7,948	
\$	78	13,194	38,669	67	52,008	
Vegetable products.....tons	3,282	3,278	22,397	3,865	37,802	
\$	30,656	93,744	243,296	44,840	413,136	
Miscellaneous industries.....tons	60	801	2,678	304	3,843	
\$	600	8,513	26,889	2,739	38,741	
TOTAL.....tons	3,330	10,904	37,466	4,228	55,978	
\$	31,878	119,055	366,922	48,247	566,132	
<u>METALLIC MINING</u>						
1. Auriferous quartz mining.....tons	...	...	322	...	322	
\$	...	...	5,161	...	5,161	
2. Copper-gold-silver mining.....tons	...	...	...	80	80	
\$	...	...	...	1,321	1,321	
3. Nickel-copper-mining.....tons	...	...	241	...	241	
\$	...	...	2,027	...	2,027	
4. Silver-cobalt mining.....tons	...	...	89	...	89	
\$	...	...	1,127	...	1,127	
5. Silver-lead-zinc mining.....tons	...	59	470	156	685	
\$	...	752	3,612	1,589	5,953	
TOTAL.....tons	...	59	1,122	236	1,417	
\$	...	752	11,927	2,910	15,589	
<u>NON-METALLIC MINING</u>						
1. Asbestos.....tons	...	1,557	...	...	1,557	
\$	...	12,965	...	...	12,965	
2. Gypsum.....tons	...	...	422	207	629	
\$	...	...	3,847	1,718	5,565	
3. Quartz.....tons	...	30	...	...	30	
\$	...	275	...	...	275	
TOTAL.....tons	...	1,587	422	207	2,216	
\$	...	19,240	3,847	1,718	24,805	
<u>CLAY PRODUCTS AND STRUCTURAL MATERIALS</u>						
1. Cement.....tons	...	69	...	...	69	
\$	...	661	...	...	661	
2. Clay products.....tons	...	818	1,903	240	2,961	
\$	...	6,717	14,060	1,849	22,626	
3. Lime.....tons	3,438	...	6,544	...	9,982	
\$	16,392	...	55,422	...	71,814	
TOTAL.....tons	3,438	887	8,447	240	13,012	
\$	16,392	7,378	69,482	1,849	95,101	
GRAND TOTAL (all industries).....tons	14,242	25,404	155,302	27,635	222,583	
\$	102,946	277,429	1,180,560	182,115	1,743,030	

(x) Petroleum coke has not been included in this compilation.

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