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MINING, METALLURGICAL AND CHEMICAL BRANCH  
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### CONSUMPTION OF COKE IN CANADA, 1931 - 1933.

The apparent consumption of coke in Canada during 1933 amounted to 2,597,888 tons compared with 2,291,597 tons in 1932 and 2,552,938 tons in 1931.

Production of coke (including petroleum coke) during 1933 was reported at 1,846,889 tons, imports totalled 627,609 tons and producers' stocks declined 144,964 tons, making an available supply of 2,619,462 tons. But exports amounted to 21,574 tons leaving 2,597,888 tons as the quantity available for use in Canada during the year. The distribution of this tonnage by areas was as follows: Maritimes, 229,557 tons; Quebec, 363,336 tons; Ontario, 1,813,755 tons; and the Western Provinces, 191,240 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 1933 based on returns to the annual Census of Industry, shows that in 1933 a total of 439,101 tons of coke were used as blast furnace or cupola charges, 194,383 tons were used as raw material in manufacturing and 295,947 tons were used as fuel in manufacturing and mining plants. Thus a total of 929,431 tons can be accounted for in the available records of industrial uses and the difference of 1,668,457 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 1,668,457 tons by areas was as follows:- Maritimes, 58,326 tons; Quebec, 211,154 tons; Ontario, 1,288,844 tons; and the Western Provinces, 112,133 tons. But here again, any interprovincial shipments have not been taken into consideration. In 1932 a special survey by the Mines Branch shows 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 1933 totalled 439,101 tons of which 247,974 tons were charged to iron blast furnaces, 3,553 tons to steel furnaces, 13,440 tons to ferro-alloy plants, 44,529 tons to foundry cupolas and 129,605 tons to non-ferrous metal furnaces. By districts, the consumption for these purposes was as follows: Maritimes, 137,485 tons; Quebec, 10,838 tons; Ontario, 261,074 tons; and the Western Provinces, 29,704 tons.

Consumption of coke as a raw material in manufacturing in 1933 amounted to 194,383 tons of which 61,046 tons were used in the manufacture of calcium carbide, 1,605 tons in the manufacture of carbon dioxide, 113,268 tons in the manufacture of gas, 9,147 tons in making artificial abrasives, and 9,317 tons in making carbon electrodes. Plants in Ontario used 85,460 tons; in Quebec, 102,656 tons; in the Maritimes, 158 tons, and in the Western Provinces, 6,109 tons.

Coke used for fuel purposes in manufacturing and mining plants totalled 295,947 tons in 1933. Works in the Maritimes used 33,588 tons for this purpose; in Ontario, 180,377 tons; in Quebec, 38,688 tons, and in the West, 43,294 tons.

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Table 1 - PRODUCTION OF COKE IN CANADA, 1931 - 1933.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Manitoba, Sask., Alberta and B.C.	CANADA
(short tons)					
<u>1931</u>					
Coke and Gas Industry ...	Tons	207,987	330,139	1,113,509	181,065
	\$	1,246,830	2,640,896	7,163,526	1,338,469
Petroleum Refining Industry .....	Tons	550	1,425	54,223	16,141
	\$	3,020	8,362	285,051	80,903
TOTAL .....	Tons	208,537	331,564	1,167,732	197,206
	\$	1,249,880	2,649,243	7,448,577	1,449,372
<u>1932</u>					
Coke and Gas Industry ...	Tons	101,375	301,955	1,087,123	147,249
	\$	739,278	2,376,450	7,876,941	1,101,827
Petroleum Refining Industry .....	Tons	270	824	62,936	9,135
	\$	1,116	4,778	328,067	63,975
TOTAL .....	Tons	101,645	302,779	1,149,958	156,384
	\$	740,394	2,381,237	8,205,008	1,165,802
<u>1933</u>					
Coke and Gas Industry ...	Tons	194,634	251,121	1,153,509	172,900
	\$	1,055,023	1,725,410	8,429,660	1,196,102
Petroleum Refining Industry .....	Tons	358	1,810	62,601	9,956
	\$	1,519	10,972	344,086	80,602
TOTAL .....	Tons	194,992	252,931	1,216,110	182,856
	\$	1,056,542	1,796,382	8,774,346	1,276,704

Table 2 - APPARENT CONSUMPTION OF COKE IN CANADA, BY PROVINCES, 1931 - 1933.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Man., Sask., Alberta and B.C.	CANADA
(short tons)					
<u>1931</u>					
Production .....		208,537	331,564	1,167,732	197,206
Add imports (entered for consumption)		5,220	28,127	637,235	14,355
		213,757	359,691	1,804,957	211,561
Deduct exports .....		319	578	16,164	19,977
Apparent Consumption .....		213,438	359,113	1,783,803	191,584
<u>1932</u>					
Production .....		101,645	302,779	1,149,958	156,384
Add declines in producers' stocks ..		..	13,797	..	13,797
		101,645	316,576	1,149,958	156,384
Deduct increases in producers' stocks		996	..	47,683	6,379
		100,649	316,576	1,102,875	150,005
Add imports (entered for consumption)		8,425	49,098	581,699	7,957
		109,074	366,574	1,683,974	157,962
Deduct exports .....		328	401	10,453	14,805
Apparent Consumption .....		108,746	366,173	1,673,521	143,157
<u>1933</u>					
Production .....		194,992	252,931	1,216,110	182,856
Add declines in producers' stocks ..		27,673	82,085	51,171	4,035
		222,665	335,016	1,247,281	186,891
Deduct increases in producers' stocks		..	..	..	..
		222,665	335,016	1,247,281	186,891
Add imports (entered for consumption)		6,972	28,666	532,806	9,165
		229,637	363,582	1,830,087	196,056
Deduct exports .....		80	346	16,332	4,816
Apparent Consumption .....		229,557	363,236	1,813,755	191,240

- NOTES - 1. Changes in producers' stocks not available for 1931.  
 2. 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.  
 3. Data on interprovincial shipments of coke are not available so the analysis of the apparent consumption by areas is wrong to the extent of any such shipments. (See Table 4).  
 4. No allowance has been made for changes during the year in stocks of coke held by dealers or users.

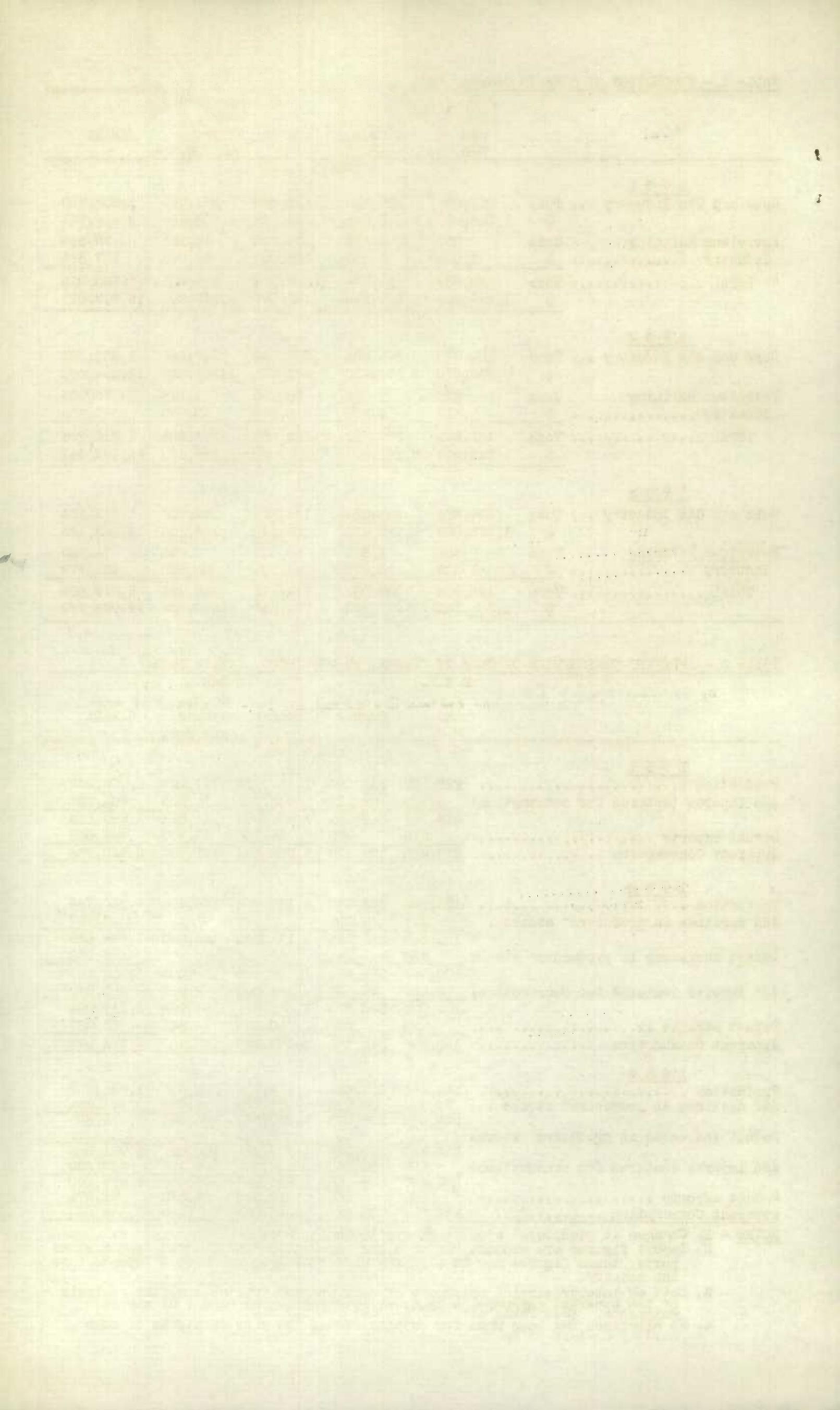


Table 3 - ANALYSIS OF COKE CONSUMPTION IN CANADA BY PRINCIPAL USES, 1931 - 1933.

	P.E.I., N.S. and N.B.	Quebec	Ontario	Alberta	Manitoba, Sask., and B.C.	CANADA
	(short tons)					
<u>1931</u>						
Furnace charges .....	120,155	23,779	486,187	80,185	710,306	
Manufacturing material .....	258	116,195	83,564	6,659	206,676	
Industrial fuel .....	21,328	45,645	204,663	34,423	306,059	
Available for domestic use (by difference) .....	71,697	173,494	1,014,389	70,317	1,329,897	
Apparent Consumption .....	213,438	359,113	1,788,803	191,584	2,552,938	
<u>1932</u>						
Furnace charges .....	39,558	14,301	182,255	69,926	306,040	
Manufacturing material .....	252	94,979	102,914	6,760	204,905	
Industrial fuel .....	28,897	37,679	228,717	32,195	327,488	
Available for domestic use (by difference) .....	40,039	219,214	1,159,635	34,276	1,453,164	
Apparent Consumption .....	108,746	366,173	1,673,521	143,157	2,291,597	
<u>1933</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	

- 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 in producers' stocks for 1931.
3. No allowance has been made for changes during the year in stocks of coke held by dealers or users.
4. No allowance has been made for interprovincial shipments of coke. A special survey made by the Mines Branch, Department of Mines, Ottawa, shows that in 1932 about 34,790 tons of Quebec coke were used in Ontario for domestic purposes 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 of entry and, of course, is credited to Ontario in the above calculation. (See Table 4).

Table 4 - COKE DISTRIBUTED FOR DOMESTIC HEATING PURPOSES IN QUEBEC, ONTARIO AND MANITOBA, 1928 - 1932.

(Figures compiled by the Mines Branch, Department of Mines, Ottawa, on basis of reports from coal dealers, distributors and importers)

	1928	1929	1930	1931	1932
	(short tons)				
<u>(a) QUEBEC</u>					
By-product coke -					
La Salle coke (Montreal) .....	70,780	118,475	160,128	175,551	144,502
Dosco coke (Sydney) .....	7,259	1,758	130	210	279
Hamilton By-Product coke .....	45	Nil	393	Nil	28
Petroleum coke .....	312	351	359	182	424
United States coke .....	11,579	13,409	5,077	3,573	635
British coke .....	Nil	Nil	Nil	Nil	27,561
Total By-Product .....	89,975	133,993	166,087	179,516	173,429
Gas coke -					
Canadian (made in Quebec) .....	71,309	174	3,750	7,344	8,490
Imported .....	953	1,324	564	Nil	Nil
Total Gas .....	72,262	1,498	4,314	7,344	8,490
TOTAL COKE .....	162,237	135,491	170,401	186,860	181,919



Table 4 - COKE DISTRIBUTED FOR DOMESTIC HEATING PURPOSES IN QUEBEC, ONTARIO AND MANITOBA,  
1928 - 1932. (concluded)  
(Figures compiled by the Mines Branch, Department of Mines, Ottawa, on basis of reports  
from coal dealers, distributors and importers)

	1928	1929	1930	1931	1932
(short tons)					
<b>(b) ONTARIO</b>					
By-product coke -					
Algoma coke (Sault Ste. Marie) ..	28,782	33,019	28,681	76,330	58,706
Hamilton By-Product coke .....	150,048	173,079	211,594	220,450	293,210
La Salle coke (Montreal) .....	11,720	25,455	28,750	31,373	34,790
Stelco coke (Hamilton) .....	150,325	107,375	156,000	174,667	233,670
Petroleum coke .....	13,866	34,041	29,814	21,819	48,739
United States coke .....	497,703	614,305	521,400	444,955	461,911
Total By-Product .....	852,444	987,274	976,239	969,394	1,131,026
Gas coke -					
Canadian (Made in Ontario) .....	72,656	85,221	94,287	90,996	92,117
TOTAL COKE .....	925,100	1,072,495	1,070,526	1,060,390	1,223,143
<b>(c) MANITOBA</b>					
By-product coke -					
Algoma coke (Sault Ste. Marie) ..	1,097	746	26	1,397	10,585
Petroleum and pitch cokes .....	1,562	1,288	1,712	1,193	953
Winnipeg 'Koppers' coke .....	22,549	27,060	20,614	20,224	29,814
United States coke .....	70,325	88,586	82,207	74,173	49,857
Total By-Product .....	95,533	117,680	104,559	96,987	91,209
Gas coke -					
Canadian (Made in Manitoba) .....	685	693	700	451	568
TOTAL COKE .....	96,218	118,373	105,259	97,438	91,777

Table 5 - CONSUMPTION OF COKE IN CANADA AS MANUFACTURING MATERIAL, BY INDUSTRIES,  
1931 - 1933.

Industry		P.E.I., N.S. and N.B.	Manitoba, Sask., Quebec Ontario Alberta and B.C. CANADA			
			(Short tons)			
<b>1931</b>						
Acids, alkalies and salts .....	tons	...	25,334	14,570	...	39,904
	\$	...	196,659	125,338	...	321,997
Compressed gases .....	tons	258	644	454	349	1,705
	\$	3,615	6,151	5,462	4,713	19,941
Artificial abrasives .....	tons	...	4,247	8,993	...	13,240
	\$	...	52,762	94,310	...	147,072
Artificial graphite and carbon electrodes .....	tons	...	16,051	266	...	16,317
	\$	...	268,716	4,440	...	273,156
Coke and gas .....	tons	...	69,919	59,281	6,310	135,510
	\$	...	561,487	394,334	64,752	1,020,573
TOTAL .....	tons	258	116,195	83,564	6,659	206,676
	\$	3,615	1,085,775	623,884	69,465	1,782,739
<b>1932</b>						
Acids, alkalies and salts .....	tons	...	23,495	42,930	...	66,425
	\$	...	173,293	269,141	...	442,434
Compressed gases .....	tons	252	866	153	386	1,657
	\$	3,560	8,387	1,170	5,131	18,248
Artificial abrasives .....	tons	...	2,375	1,822	...	4,197
	\$	...	29,013	15,898	...	44,911
Artificial graphite and carbon electrodes .....	tons	...	8,696	1,085	...	9,781
	\$	...	121,063	14,602	...	135,665
Coke and gas .....	tons	...	59,547	56,924	6,374	122,845
	\$	...	446,107	387,090	63,553	896,750
TOTAL .....	tons	252	94,979	102,914	6,760	204,905
	\$	3,560	777,863	687,901	68,684	1,538,008



Table 5 - CONSUMPTION OF COKE IN CANADA AS MANUFACTURING MATERIAL, BY INDUSTRIES, 1931 - 1933 (concluded)

Industry		P.E.I., N.S. and N.B.	Manitoba, Sask., Alberta and B.C.			CANADA
			Quebec	Ontario	Alberta	
(Short tons)						
	<u>1933</u>					
Acids, alkalies and salts .....	tons	...	32,915	89,301	...	61,046
	\$	...	284,156	173,008	...	397,164
Compressed gases .....	tons	152	803	286	258	1,605
	\$	2,315	7,639	2,183	4,412	16,584
Artificial abrasives .....	tons	...	3,068	6,084	...	9,147
	\$	...	59,619	83,537	...	103,156
Artificial graphite and carbon electrodes .....	tons	...	3,386	931	...	9,317
	\$	...	99,825	11,696	...	111,521
Colt and gas .....	tons	...	58,369	49,148	5,751	113,268
	\$	...	401,145	326,081	48,779	776,005
TOTAL .....	tons	153	108,656	85,450	6,109	194,383
	\$	2,315	772,594	576,510	53,221	1,404,450

Table 6 - CONSUMPTION OF COKE IN CANADA AS FURNACE CHARGES, BY INDUSTRIES, 1931-1933.

Industry		P.E.I., N.S., and N.B.	Manitoba, Sask., Alberta and B.C.			CANADA
			Quebec	Ontario		
(Short tons)						
	<u>1931</u>					
Pig iron, ferro-alloys, and steel ingots and castings....	tons	117,117	895	535,103	734	451,854
	\$	638,118	8,666	1,840,057	9,355	2,546,196
Castings and forgings .....	tons	1,782	15,535	30,295	2,675	50,287
	\$	24,911	183,015	304,901	40,506	553,333
Boilers, tanks and engines ...	tons	180	...	389	21	590
	\$	1,823	...	3,352	384	5,559
Agricultural implements .....	tons	...	82	8,013	...	8,100
	\$	...	803	60,843	...	61,646
Machinery .....	tons	...	1,965	2,530	227	4,722
	\$	...	25,012	3,307	2,907	54,096
Railway rolling stock .....	tons	1,076	5,301	8,240	3,479	18,096
	\$	18,020	59,294	78,786	52,397	209,397
Other iron and steel .....	tons	...	1	299	1	301
	\$	...	25	3,951	15	2,991
Non-ferrous metallurgical works	tons	...	...	103,306	75,048	176,356
	\$	...	...	646,709	719,218	1,565,927
TOTAL .....	tons	120,155	23,779	486,187	80,185	710,306
	\$	755,772	226,806	3,163,886	824,682	4,999,145

1932

Industry		P.E.I., N.S., and N.B.	Manitoba, Sask., Alberta and B.C.			CANADA
			Quebec	Ontario		
(Short tons)						
	<u>1932</u>					
Pig iron, ferro-alloys, and steel ingots and castings ...	tons	38,235	629	120,147	202	159,213
	\$	228,222	6,299	650,366	2,639	867,526
Castings and forgings .....	tons	1,075	8,158	19,123	2,237	30,593
	\$	17,902	94,537	189,750	33,940	336,479
Boilers, tanks and engines ...	tons	100	...	526	10	636
	\$	976	...	4,737	108	5,821
Agricultural implements .....	tons	...	33	2,367	...	2,400
	\$	...	316	25,589	...	25,905
Machinery .....	tons	...	1,321	1,829	139	3,289
	\$	...	16,877	18,645	1,797	37,319
Railway rolling stock .....	tons	148	4,013	5,263	3,004	12,428
	\$	2,395	40,453	50,206	44,145	137,199
Other iron and steel .....	tons	...	2	174	208	384
	\$	...	35	1,641	3,260	4,936
Non-ferrous metallurgical works	tons	...	145	32,826	64,126	97,097
	\$	...	1,754	304,701	650,724	957,159
TOTAL .....	tons	39,558	14,301	182,555	69,926	306,040
	\$	249,495	160,601	1,225,635	736,613	2,372,344



Table 6 - CONSUMPTION OF COKE IN CANADA AS FURNACE CHARGES, BY INDUSTRIES, 1931 - 1933.  
(concluded)

Industry		P.E.I., N.S. and N.B.	Manitoba, Sask., Alberta and B.C.				CANADA
			Quebec	Ontario			
(Short tons)							
	<u>1933</u>						
Pig Iron, ferro-alloys, and steel ingots and castings .....	tons	135,482	100	120,117	268	264,967	
	\$	804,810	850	638,597	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	12,483	12,753	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	4,236	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	
	\$	...	...	956,003	229,429	1,165,432	
TOTAL .....	tons	137,485	10,838	261,074	29,704	439,101	
	\$	830,898	115,907	1,834,879	285,529	3,066,613	

Table 7 - CONSUMPTION OF COKE IN CANADA, AS INDUSTRIAL FUEL, IN THE MANUFACTURING AND MINING INDUSTRIES, 1931 - 1933.

Industry		P.E.I., N.S. and N.B.	Manitoba, Sask., Alberta and B.C.				CANADA			
			Quebec	Ontario						
(Short tons)										
<u>1931</u>										
<u>MANUFACTURING -</u>										
Chemicals and allied products ..	tons	89	3,803	1,638	212	5,741				
	\$	1,023	21,432	14,084	2,378	38,917				
Iron and steel and their products	tons	9,103	4,841	69,855	1,027	84,831				
	\$	27,629	52,473	261,485	14,453	356,038				
Non-ferrous metal products ..	tons	211	1,693	5,226	354	7,484				
(excluding smelters) .....	\$	2,669	18,356	45,740	4,943	71,708				
Non-metallic mineral products ..	tons	5,698	21,199	63,531	25,209	115,637				
(excluding cement, clay and lime) \$	33,567	115,144	358,685	134,632	642,028					
Animal products .....	tons	9	152	2,243	264	2,668				
	\$	110	1,618	15,158	2,141	19,036				
Textile products .....	tons	6	890	10,328	5	11,229				
	\$	78	10,284	44,015	75	54,392				
Vegetable products .....	tons	3,879	7,793	29,086	4,248	45,006				
	\$	40,455	81,436	275,101	48,321	445,313				
Wood and paper products .....	tons	118	1,560	14,866	223	16,767				
	\$	1,268	11,670	45,566	1,682	60,286				
Miscellaneous industries .....	tons	26	607	366	113	1,112				
	\$	259	4,203	3,289	1,924	9,775				
TOTAL MANUFACTURING INDUSTRIES.	tons	19,144	42,543	197,133	31,655	290,475				
	\$	107,067	316,556	1,063,321	210,549	1,697,493				
MINING INDUSTRIES .....	tons	2,184	3,102	7,530	2,768	15,584				
	\$	13,759	26,465	55,204	29,656.	125,084				
TOTAL .....	tons	21,328	45,645	204,663	34,423	306,059				
	\$	120,826	343,021	1,118,525	240,205	1,822,577				



Table 7 - CONSUMPTION OF COKE IN CANADA, AS INDUSTRIAL FUEL, IN THE MANUFACTURING AND MINING INDUSTRIES, 1931-1933 (concluded)

Industry	P.E.I., N.S. and N.B.	Quebec	Ontario	Alberta and B.C.	Manitoba, Sask., and CANADA
<b>1932</b>					
<b>MANUFACTURING -</b>					
Chemicals and allied products .. tons	38	2,809	2,285	244	5,376
\$ 525	16,957	15,799	2,857	36,138	
Iron and steel and their products tons	15,469	5,065	69,746	547	90,827
\$ 35,413	54,517	179,881	6,649	276,460	
Non-ferrous metal products tons	118	1,265	3,843	234	5,460
(excluding smelters) .....	\$ 1,504	12,140	31,480	3,317	48,441
Non-metallic mineral products tons	8,511	15,677	77,877	24,960	127,026
(excluding cement, clay and lime) \$ 40,713	76,263	369,527	143,889	630,392	
Animal products .....	tons 23	111	1,439	110	1,683
\$ 276	1,141	7,834	759	10,010	
Textile products .....	tons 6	676	8,192	16	8,890
\$ 69	7,456	38,493	231	46,249	
Vegetable products .....	tons 3,481	8,812	42,300	3,845	58,438
\$ 32,191	73,727	258,871	42,334	407,123	
Wood and paper products .....	tons 72	543	13,578	196	14,389
\$ 731	6,027	47,750	1,480	55,988	
Miscellaneous industries .....	tons 39	1,200	408	76	1,723
\$ 365	4,650	3,968	1,312	10,295	
TOTAL MANUFACTURING INDUSTRIES. tons	27,757	36,158	219,668	30,228	313,811
\$ 111,787	252,878	953,603	202,828	1,521,096	
MINING INDUSTRIES .....	tons 1,140	1,521	9,049	1,967	13,677
\$ 7,138	16,781	65,491	21,073	110,483	
TOTAL .....	tons 28,897	37,679	228,717	32,195	327,488
\$ 118,925	269,659	1,019,094	223,901	1,631,579	
<b>1933</b>					
<b>MANUFACTURING -</b>					
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 products tons	20,406	3,537	47,279	494	71,716
\$ 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	

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