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STATISTICS

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

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.) Chief - Mining, Metallurgical and Chemical Branch: W. H. Losoe, B.Sc.

45-D-20

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 Western Provinces, 215,368 tons. This calculation, of course, does not take in 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 Untario 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 Ontaric 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.

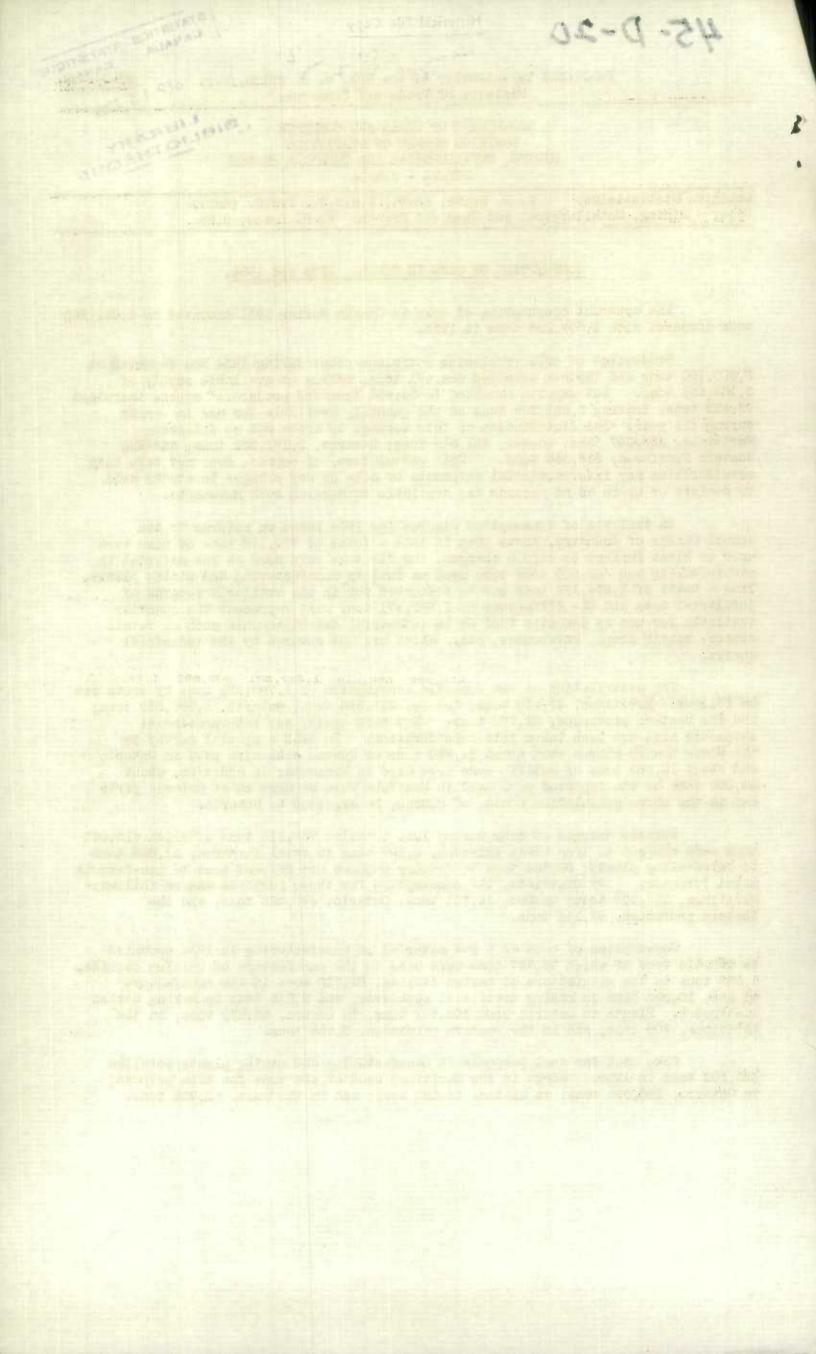


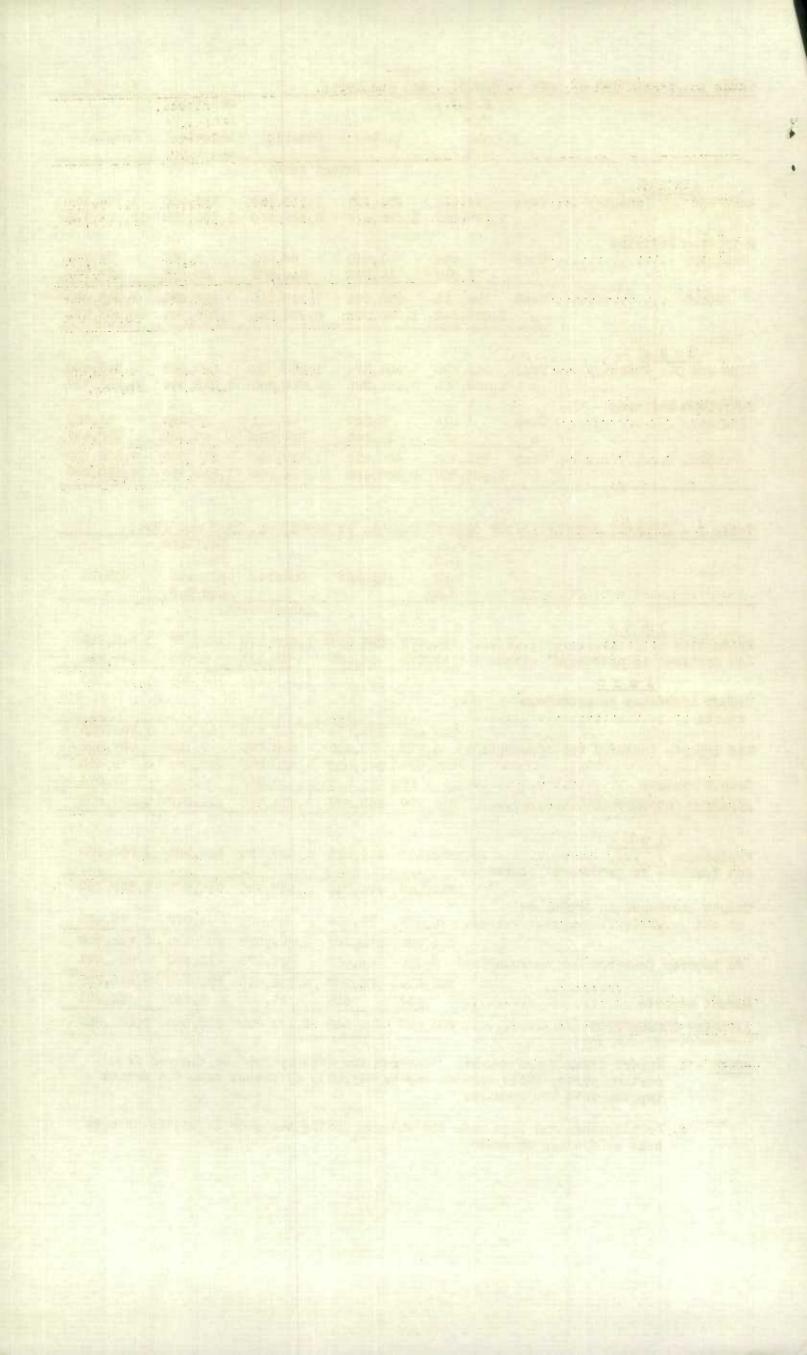
Table	1 -	PRODUCTION	OH	COKE	TM	CAN D	1033	and	1024	
TUNTO .	L	TUODOOTTON	OT.	CONE	774	UMIVIZUIZ.	1.900	anu	7204.	

		P.E.I.,			Manitoba,	
		N.S.			Sask.,	
		and	Quebec	Ontario	Alberta	CANADA
		N.B,			and B.C.	
			(sh	ort tons)		
1933	-					
Coke and Gas Industry		·	251,121	1,153,509	172,900	1,772,164
	şi	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
MOMAT		the spin of the sp				
TOTAL	Tons	'	252,931	1,216,110	182,856	1,846,889
	4	1,056,542	1,796,382	8,774,346	1,276,704	12,903,974
1934						
Coke and Gas Industry			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
	ŝ,	1.,404	19,865	174,222	62,982	258,473
TOTAL	Tons	250,142	405,816	1,437,720	210,502	2,305,180
		1,402,269	2,988,150	10,374,585	1,355,226	16,120,230
			,	,,		

F	·E.I.,			Manitoba,	
	N.S.		-	Sask.,	
		Quebec	Ontario	Alberta	CANADA
	N.B.			and B.C.	
			(short ton	.8)	
Production	194,992	252,931	1,216,110	182,856	1,846,889
	27,673	82,085	31,171	4,035	144,964
du declines in producers stocks.	Sugarantee the of data conferences	plane annales transmitters difficulture dans, sight or		pressions, only a finite to differ party and a survey of	
	222,665	335,016	1,247,281	186,891	1,991,853
educt increases in producers'					
stocks	000 005	000	1 018 001		1,991,853
ad imports (antonod for concumption)	222,665	335,016 28,666	1,247,281 582,806	186,891 9,165	627,609
dd imports (entered for consumption)	229,637	363,682	1,830,087	196,056	2,619,462
educt exports	80	346	16,332	4,816	21,574
	Handson a surger of the second s	363,336	1,813,755	191,240	2,597,888
PPARENT CONSUMPTION	660,001	000,000	1,010,100	151,640	2,001,000
1934					
	250,142	406,816	1,437,720	210,502	2,305,180
	250,142		1,437,720	210,502	2,305,180
educt 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
dd imports (entered for consumption)		42,680	819,576	13,390	884,471
	253,514	421,987	2,198,813	221,915	3,096,229
educt exports	457	338	27,582	6,547	34,924
PPARENT CONSUMPTION		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.



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Table 3 - ANALYSIS OF COKE CONSUMPTION	I IN CANAL	A, BY PRI	NCIPAL USE	S, 1933 ar	d 1934.
	P.E.I.			Manitoba,	
	N.S.			Sask.,	
	and	Quebec	Ontario	Alberta	CANADA
	N.B.			and B.C.	
		(sh	nort tons)		
1933					
Furnace charges	137,485	10,838	261,074		439,101
Manufacturing material	158	102,656	85,460		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
1934	150 000	14 001	100 040	08 114	<b>REA 110</b>
Furnace charges	157,977	14,761	490,266	87,114	750,118
Manufacturing material	208	87,870	106,697	*	198,514
Industrial fuel	47,404	46,682	188,691	42,725	325,502
Available for domestic use ( by	18 180	000 000	-	01 000	1 000 100
difference )	47,468	272,336	1,385,577	81,790	1,787,171
APPARENT CONSUMPTION	253,057	421,649	2,171,231	215,368	3,061,305

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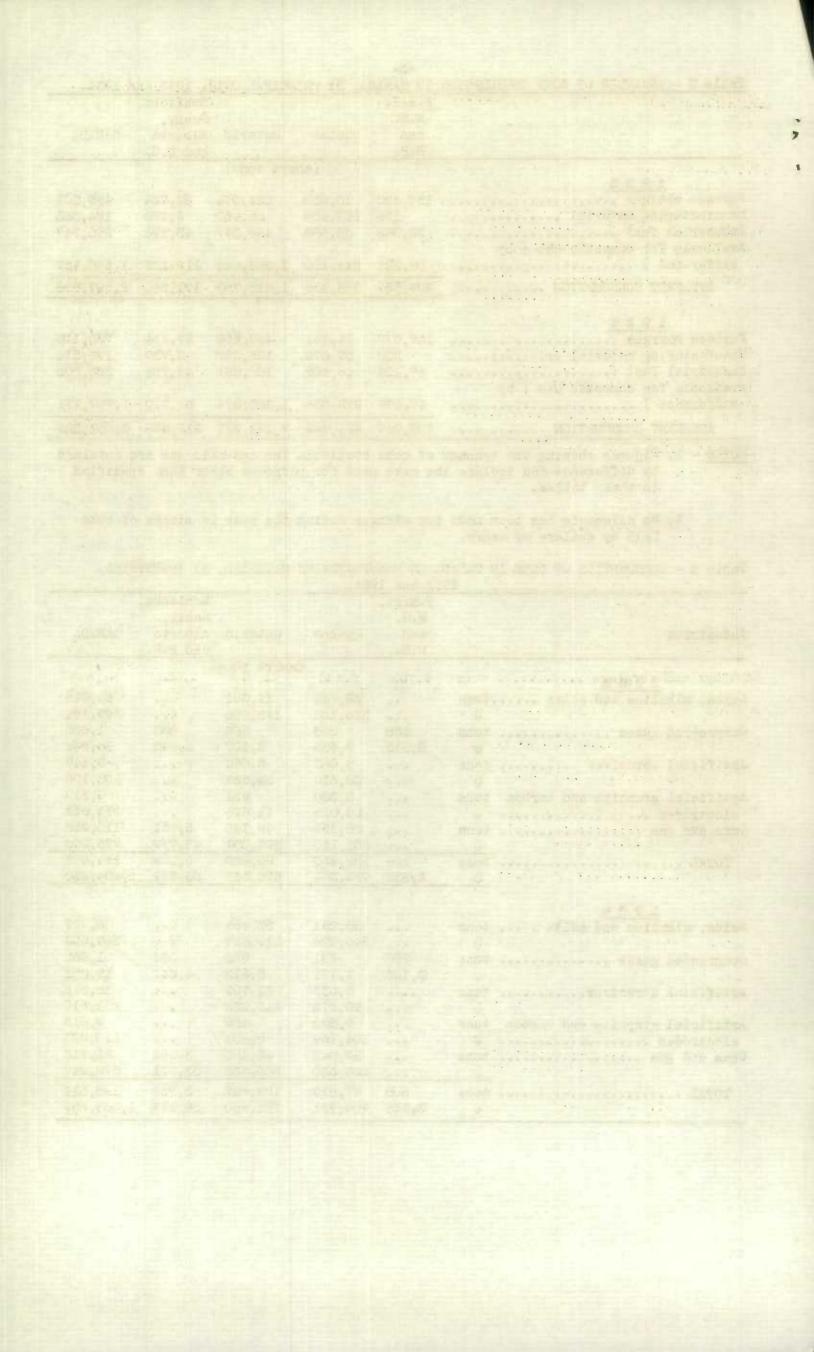
NOTES - 1. Figures showing the tonnage of coke available for domestic use are obtained by difference and include the coke used for purposes other than specified in these tables.

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

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

		P.E.I.,			Manitoba,		
		N.S.			Saski,	-	
Industries		and	Quebec	Ontario	Alberta	CANADA	
		N.B.			and B.C.		
				(short tons	)	1	
1933							
cids, alkalies and salts	.tons		32,015	29,301		61,046	
	\$ <b>\$</b>		224,156	173,008		397,164	
ompressed gases	tons	158	803	286	358	1,605	
	\$	2,315	7,639	2,188	4,442	16,584	
rtificial abrasives	tons		3,083	6,064		9,147	
	\$		39,619	63,537		103,156	
rtificial graphite and carbon	tons		8,386	931		9,317	
electrodes	\$3		99,825	11,696		111,521	
oke and gas	tons		58,369	49,148	5,751	113,268	
	55		401,145	326,081	48,779	776,005	
TOTAL	tons	158	102,656	85,460	6,109	194,383	
	<u>\$</u>	2,315	772,384	576,510	53,221	1,404,430	
1934				50 .00		00 000	
cids, alkalies and salts	1.00		33,261	53,466		86,727	
	ş	6 4 4	240,279	329,327		569,606	
compressed gases	tons	208	781	525	354	1,868	
		3,126	7,171	5,215	4,341	19,853	
rtificial abrasives	tons		6,633	11,759		18,392	
	\$		90,572	140,938		231,510	
rtificial graphite and carbon	tons		9,353	462		9,815	
electrodes	ş		104,169	5,854		110,023	
oke and gas	tons		37,842	40,485	3,385	81,712	
	¥		258,530	280,626	33,791	572,947	
TOTAL	tons	208	87,870	106,697	3,739	198,514	
	Ş	3,126	700,721	761,960	38,132	1,503,939	

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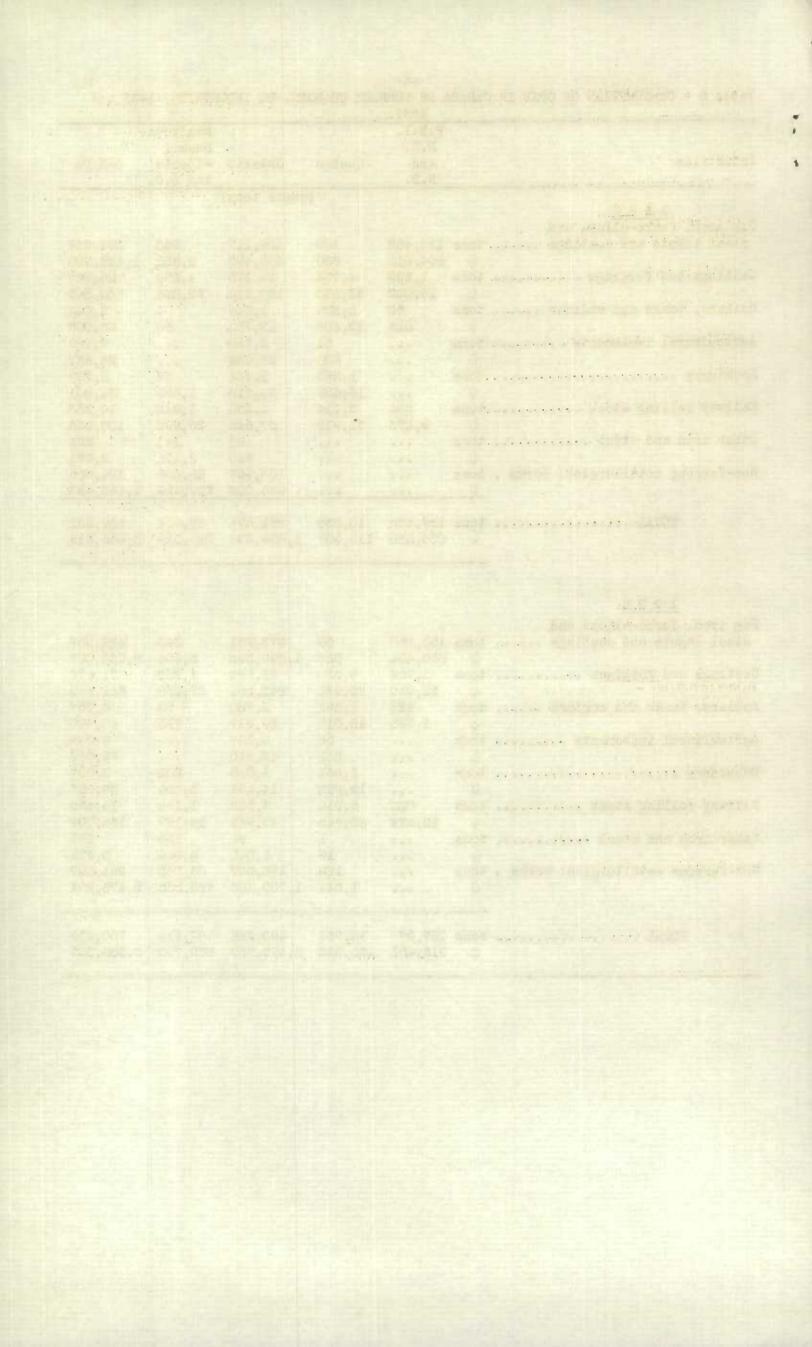


-4-Table 5 - CONSUMPTION OF COKE IN CANADA AS FURNACE CHARGES, BY INDUSTRIES, 1933 and

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Industries         N.S. and W.B.         Soak. Quebec         Soak. Ontario         Alberta Hiberta         CANADA CANADA           1933         (short tons)         (short tons)         (short tons)         (short tons)           19 (steel ingots and castings tons 135,482         100         129,117         268         264,967           Castings and forgings tons 1,299         4,734         18,175         1,639         25,847           Boilers, tanks and engines tons         1,299         4,734         18,175         1,639         26,055           Boilers, tanks and engines tons         60         1,236         1,344         4         2,644           Agricultural implements tons         61         2,728          2,789           Machinery			1934.		ita, DI INDU		out and
Industries       and N.B.       Quebec and B.C.       Onterio allor.       Alberta and B.C.         1       9.3.3       (short tons)       (short tons)         Pig iron, ferro-alloys and steel ingots and castings       tons 135,482       100       129,117       266       264,967         Castings and forgings       tons 1,289       4,734       18,175       1,639       25,647         Boilers, tanks and engines       tons 1,289       4,734       18,175       1,639       25,647         Agricultural implements       tons 6       1,225       1,142       22,834       26,044         Gastings and forgings       tons 1       60       1,236       1,344       4       2,644         Agricultural implements       tons 1       61       2,728       2,785       2,869         Machinery       tons 1       1,293       1,422       72       2,879         Machinery       tons 644       3,414       4,286       1,942       10,236         Other iron and steel       tons 137,485       10,838       261,074       29,704       439,101         0       e30,698       115,907       1,334       2,786       3,366,613         19       3,446       127,936       2,434			P.E.I.				• •
N.B.         and B.C.           1933         (short tons)           Pig iron, ferro-alloys and         tons 135,482         100         129,117         268         264,967           Castings and castings         tons 1,239         4,734         18,175         1,639         25,647           Boilers, tanks and engines         tons 1,239         4,744         18,175         1,639         25,647           Boilers, tanks and engines         tons 60         1,226         1,344         4         2,644           Boilers, tanks and engines         tons 60         1,236         1,344         4         2,644           Agricultural implements         tons 1         ,293         1,422         72         2,767           Machinery         tons 1         ,293         1,422         72         2,767           Machinery         tons 1         ,1293         1,422         72         2,767           Machinery						~	
1933       (short tons)         Pig iron, ferro-alloys and steel ingots and castings tons 135,482       100       129,117       266       264,967         Castings and forgings tons 1,289       4,734       16,175       1,639       25,447         Castings and forgings tons 1,289       4,734       16,175       1,639       25,447         Boilers, tanks and engines tons 60       1,236       1,344       4       2,644         Agricultural implements tons 1,283       1,422       72       2,8637         Machinery	Industries			Quebec	Ontario		
19.3.3         Pig iron, ferro-alloys and steel ingots and castings       tons 135,482       100       129,117       268       264,967         Castings and forgings       tons       1,289       4,734       16,175       1,639       25,647         Boilers, tanks and engines       tons       60       1,236       1,344       4       2,644         Agricultural implements       tons       61       2,733       59       26,093         Agricultural implements       tons       61       2,728       2,783       1,623         Machinery       tons        62,034        26,637         Machinery       tons        1,235       1,422       72       2,785         Machinery       tons        1,233       1,028       31,001         Railway rolling stock       tons        16,459       14,313       1,029       31,801         Non-ferrous metallurgical works       tons        103,367       25,636       15,635         Youn       feiron, ferro-alloys and       tons       137,465       10,638       261,074       29,704       439,101         Youn       feiron, ferro-alloys and       tons			N.B.				
Fig iron, ferro-alloys and steel ingots and castings tons 135,482 100 129,117 268 264,967 Castings and forgings tons 1,299 4,734 18,175 1,659 25,647 $\downarrow$ 16,002 55,595 166,114 22,854 280,545 Boilers, tanks and engines tons 60 1,236 1,344 4 2,644 $\downarrow$ 813 12,469 12,733 59 26,093 Agricultural implements tons 61 2,728 2,789 $\downarrow$ 603 26,034 26,837 Machinery tons 61 2,728 2,789 $\downarrow$ 16,459 14,313 1,029 31,001 Railway rolling stock				(	(short tons)		
steel ingots and castings       tons 135,482       100       129,117       266       264,967         Castings and forgings       tons       1,299       4,734       16,175       1,659       25,647         Boilers, tanks and engines       tons       1,236       1,344       4       2,644         Boilers, tanks and engines       tons       60       1,236       1,344       4       2,644         Agricultural implements       tons       .61       2,728        2,789         Machinery       tons        1,233       1,422       72       2,787         Machinery       tons        1,233       1,422       10,236       10,434        2,663         Machinery       tons        1,293       1,422       72       2,787         Machinery       tons        1,233       1,022       3,601       10,536         Other iron and steel       tons         103,467       26,631       10,536         Other iron and steel       tons 137,485       10,838       261,074       29,704       439,101         U       93.4       2,930       70,971       24,512       1,	And an and a second						
0       604,610       850       655,657       3,551       1,447,708         Castings and forgings       ions       1,299       4,734       18,175       1,639       25,847         Boilers, tanks and engines       ions       60       1,236       1,344       4       2,664         Boilers, tanks and engines       ions       60       1,236       1,344       4       2,664         Agricultural implements       ions       61       2,728       2,787       59       26,003         Machinery       ions        636,456       14,313       1,029       31,801         Railway rolling stock       itons       644       3,414       4,338       1,942       10,236         Other iron and steel       itons        83       141       224       72       2,787         Non-ferrous metallurgical works       tons         83       141       224         Your       ions 137,465       10,838       261,074       29,704       436,101         io       830,698       115,907       1,834,279       285,529       3,066,613         Boilers, tanks and engines       tons       1,756       6,320       21,352 <th></th> <th></th> <th>105 400</th> <th>200</th> <th>100 118</th> <th></th> <th>0.04 0.08</th>			105 400	200	100 118		0.04 0.08
Castings and forgings tons 1,299 4,734 18,175 1,639 25,647 $\downarrow$ 16,002 53,595 1.66,114 22,834 280,545 Boilers, tanks and engines tons 60 1,236 1,344 4 2,644 $\downarrow$ 613 12,466 12,733 59 26,093 Agricultural implements 601 2,728 2,789 $\downarrow$ 603 22,034 26,637 Machinery tons 1,293 1,422 72 2,787 $\downarrow$ 61459 14,313 1,029 31,001 Railway rolling stock itons 644 3,414 4,238 1,942 10,238 $\downarrow$ 9 864 3,414 4,238 1,942 10,238 Other iron and steel itons 644 3,414 4,238 1,942 10,238 $\downarrow$ 9 740 2,131 2,671 Non-ferrous metallurgical works .tons 103,967 25,638 129,605 $\downarrow$ 740 2,131 2,671 Non-ferrous metallurgical works .tons 155,286 25 273,961 284,3429,557 Castings and forgings tons 155,286 25 273,961 243 429,557 Castings and forgings tons 1,758 6,322 21,652 1,938 31,876 $\downarrow$ 830,898 115,907 1,834,279 265,529 3,066,613 $\downarrow$ 21,930 70,971 241,551 27,438 361,690 Boilers, tanks and engines tons 1,758 16,015 29,917 713 48,440 4griculturel implements 552 44,110 4,243 Machinery	steel ingots and castings						
i       16,002       53,595       168,114       22,834       260,545         Boilers, tanks and engines       ions       60       1,236       1,344       4       2,649         Agricultural implements       ions        603       26,034        26,637         Machinery       tons        1,293       1,422       72       2,789         Machinery       tons        16,459       14,313       1,029       31,601         Railway rolling stock       tons        83       141       224         Ø        16,459       14,313       1,029       31,601         Non-ferrous metallurgical works       tons        83       141       224         Ø         103,967       25,638       129,605       12          Ø         103,967       25,638       129,605       14       429,557         Y         103,967       25,638       129,605       1,636       26,003       229,429       1,165,432         TOTAL       tons       1,758       6,328       21,652       1,646	Continue and Construct	-					
Boilers, tanks and engines tons 60 1,236 1,344 4 2,644 Agricultural implements $0$ 813 12,466 12,733 59 26,093 Agricultural implements $0$ 12,7282,789 Wachinery $0$ 1.293 1,422 72 2,787 0 $0$ 1.293 1,422 72 2,787 0 $0$ 1.423 71,422 72 2,787 0 $0$ 1.423 71,422 72 2,787 0 $0$ 1.423 72 2,789 0 $0$ 1.423 1,029 31,601 Railway rolling stock $0$ 16,456 14,313 1,029 31,601 Railway rolling stock $0$ 9,77 31,912 37,645 26,696 105,526 Other iron and steel $0$ 83 141 224 0 740 2,131 2,671 Non-ferrous metallurgical works .tons $103,607$ 225,638 129,605 0 936,003 229,429 1,165,432 TOTAL tons 137,465 10,636 261,074 29,704 439,101 0 830,898 115,907 1,834,279 285,529 3,066,613 0 936,003 524,279 285,529 3,066,613 0 936,003 524,279 285,529 3,066,613 0 936,003 524,279 285,529 3,066,613 0 936,003 54,279 285,529 3,066,613 0 936,003 229,429 1,165,432 TOTAL tons 155,268 65 273,961 243 429,557 0 936,003 54,279 285,529 3,066,613 0 936,003 229,429 1,165,432 0 936,003 229,429 1,265,432 0 936,003 229,429 1,265,529 3,066,613 0 936,003 229,429 1,265,529 2,266,697 0 19,1,040 2,044 3,144 0 4,243 0 19,1,040 2,044 3,111 Non-ferrous metallurgical works .tons 125 176,507 63,265 261,697 0 19,1,040 2,044 3,111 Non-ferrous metallurgical works .tons 125 176,507 63,265 261,697 0 19,1,040 2,044 3,111 Non-ferrous metallurgical works .tons	ogstings and lorgings		-				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Bailana tanks and ansings						
Agricultural implements	voltars, canks and engines						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Agriculturel implements						
Machinery tons 1,293 1,422 72 2,797 i 16,459 14,313 1,029 31,021 Railway rolling stock tons 644 3,414 4,258 1,942 10,236 i 9,273 31,912 37,645 26,696 105,526 Other iron and steel tons 83 141 224 Non-ferrous metallurgical works . tons 103,967 25,638 122,605 i 936,003 229,429 1,165,432 TOTAL tons 137,485 10,838 261,074 29,704 439,101 i 830,898 115,907 1,834,279 285,529 3,066,613 i 880,454 827 1,379,352 5,454 2,266,687 Castings and forgings tons 1,55,268 85 273,961 243 429,557 Castings and forgings tons 1,55, 268 85 273,961 243 2429,557 Castings and forgings tons 1,55,268 85 273,961 243 2429,557 Castings and forgings tons 1,55,268 85 2,73,961 243 429,557 Castings and forgings tons 1,55, 66, 32 21,852 1,938 31,976 i 21,930 70,971 241,551 27,438 361,890 Boilers, tanks and engines tons 1,23 1,391 2,788 55 4,357 Agricultural implements tons 1,562 44,187 42,263 i 952 42,110 42,662 Railway rolling stock tons 19,652 14,491 3,464 37,627 Railway rolling stock tons 19,652 14,491 3,464 37,627 Railway rolling stock tons 125 176,507 03,285 261,697 i 19,642 7,977 14,761 490,266 67,114 750,118	vericultar imbrementa						
1934       1.029       31,601         Railway rolling stock       tons       644       3,414       4,238       1,942       10,236         Other iron and steel       tons        83       141       224         0        83       141       224         0        83       141       224         0        83       141       224         0        740       2,131       2,671         Non-ferrous metallurgical works       tons        103,967       25,638       129,605         1       936,003       229,429       1,165,432         936,003       229,429       1,165,432         TOTAL       tons       137,485       10,638       261,074       29,704       439,101         0       830,698       115,907       1,834,279       285,529       3,066,613         1       934             429,557         Castings and forgings        tons       1,758       6,328       21,852       1,936       31,876         Sollers, tanks and engines       t	Mashinawa						*
Railway rolling stock	Machinery						
$\S$ 9,27331,91237,64526,696105,526Other iron end steeltons83141224Non-ferrous metallurgical workstons7402,1312,671Non-ferrous metallurgical workstons103,96725,638129,605 $\S$ 936,003229,4291,165,432TOTALtons137,48510,638261,07429,704439,101 $\varphi$ 830,696115,9071,634,279285,5293,066,613Castings and castingstons 155,26885273,961243429,557Castings and forgingstons1,7566,32021,6521,93831,676Boilers, tanks and enginestons1,75616,01529,91771348,440Agricultural implementstons564,1874,243Machinerytons1,6611,3652813,507 $\varphi$ 19,65214,4913,48437,627Railway rolling stocktons191,0402,0443,111Non-ferrous metallurgical workstons191,0402,0443,111Non-ferrous metallurgical workstons191,0402,0443,111Non-ferrous metallurgical workstons191,0402,0443,111Non-ferrous metallurgical workstons191,041 <th>Pailway walling staak</th> <th>W</th> <th></th> <th></th> <th></th> <th>*</th> <th></th>	Pailway walling staak	W				*	
Other iron and steel	Railway Folling stock						
Non-ferrous metallurgical works       \$	Other iron and stacl	er.				*	
Non-ferrous metallurgical works       tons        103,967       25,638       129,605         103,967       25,638       129,605       936,003       229,429       1,165,432         TOTAL       tons       137,465       10,838       261,074       29,704       439,101         1       9 3 4         Pig iron, ferro-alloys and steel ingots and castings       tons       155,268       85       273,961       243       429,557         2       880,454       627       1,379,352       5,464       2,266,067         Castings and forgings       tons       1,758       6,328       21,852       1,936       31,876         9       21,930       70,971       241,551       27,438       361,690         Boilers, tanks and engines       tons       123       1,391       2,788       55       4,357         9       1,795       16,015       29,917       713       48,440         Agricultural implements       tons       1,861       1,365       221       3,507         9       1,795       16,015       29,917       713       48,440         Agricultural implements       tons       1,861       1,365       221       3,507     <	other from and steel	tons					
	Non Computer material surgices and	Ŷ					
TOTAL	Non-lerrous metallurgical works .						
<ul> <li>↓ 830,698 115,907 1,834,279 285,529 3,066,613</li> <li>▶ 9 3 4</li> <li>Pig iron, ferro-alloys and steel ingots and castings tons 155,268 85 273,961 243 429,557</li> <li>♦ 880,454 627 1,379,352 5,454 2,266,087</li> <li>Castings and forgings tons 1,758 6,329 21,852 1,938 31,876</li> <li>Boilers, tanks and engines tons 123 1,391 2,788 55 4,357</li> <li>♦ 1,795 16,015 29,917 713 48,440</li> <li>Agricultural implements tons 56 4,187 4,243</li> <li>♦ 1.795 16,015 29,917 713 48,440</li> <li>Agricultural implements tons 56 4,187 4,243</li> <li>♦ 1.795 16,015 29,917 713 48,440</li> <li>♦ 1.795 16,115 28,917 713 48,440</li> <li>Y 552 42,110 42,662</li> <li>Wachinery tons 1,661 1,365 281 3,507</li> <li>♦ 1.2,272 45,645 77,965 16,127 152,009</li> <li>Other iron and steel</li></ul>		<u> </u>			936,003	229,429	1,105,432
<ul> <li>↓ 830,698 115,907 1,834,279 285,529 3,066,613</li> <li>▶ 9 3 4</li> <li>Pig iron, ferro-alloys and steel ingots and castings tons 155,268 85 273,961 243 429,557</li> <li>♦ 880,454 627 1,379,352 5,454 2,266,087</li> <li>Castings and forgings tons 1,758 6,329 21,852 1,938 31,876</li> <li>Boilers, tanks and engines tons 123 1,391 2,788 55 4,357</li> <li>♦ 1,795 16,015 29,917 713 48,440</li> <li>Agricultural implements tons 56 4,187 4,243</li> <li>♦ 1.795 16,015 29,917 713 48,440</li> <li>Agricultural implements tons 56 4,187 4,243</li> <li>♦ 1.795 16,015 29,917 713 48,440</li> <li>♦ 1.795 16,115 28,917 713 48,440</li> <li>Y 552 42,110 42,662</li> <li>Wachinery tons 1,661 1,365 281 3,507</li> <li>♦ 1.2,272 45,645 77,965 16,127 152,009</li> <li>Other iron and steel</li></ul>	MORAT	tone	177 495	10 070	961 084	00 704	420 101
1934         Pig iron, ferro-alloys and steel ingots and castings       tons 155,266       85       273,961       243       429,557         Castings and forgings       tons 1,758       6,323       21,379,352       5,454       2,266,067         Castings and forgings       tons       1,758       6,323       21,852       1,938       31,876         Soilers, tanks and engines       tons       123       1,391       2,788       55       4,357         Agricultural implements       tons       1,795       16,015       29,917       713       48,440         Agricultural implements       tons        552       42,110        42,662         Machinery       tons        19,852       14,491       3,464       37,627         Railway rolling stock       tons        19,852       14,491       3,464       37,627         W       12,272       45,645       77,965       16,127       152,009         Other iron and steel       tons        19       1,046       2,044       3,111         Non-ferrous metallurgical works       tons        125       176,507       63,265       261,697         V	LULAL	2.1					
Pig iron, ferro-alloys and steel ingots and castings       tons 155,268       85       273,961       243       429,557         Castings and forgings       tons 1,758       6,328       21,852       1,938       31,876         Castings and forgings       tons 1,758       6,328       21,852       1,938       31,876         Soilers, tanks and engines       tons 123       1,391       2,788       55       4,357         Soilers, tanks and engines       tons 1,795       16,015       29,917       713       48,440         Agricultural implements       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Machinery       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Machinery       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 828       4,914       7,512       1,196       14,450         Soilers, tanks       tons 11       94       136       231       3,507		*	000,000	110,001	1,034,679	200,020	3,000,013
Pig iron, ferro-alloys and steel ingots and castings       tons 155,268       85       273,961       243       429,557         Castings and forgings       tons 1,758       6,328       21,852       1,938       31,876         Castings and forgings       tons 1,758       6,328       21,852       1,938       31,876         Soilers, tanks and engines       tons 123       1,391       2,788       55       4,357         Soilers, tanks and engines       tons 1,795       16,015       29,917       713       48,440         Agricultural implements       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Machinery       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Machinery       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 828       4,914       7,512       1,196       14,450         Soilers, tanks       tons 11       94       136       231       3,507							
Pig iron, ferro-alloys and steel ingots and castings       tons 155,268       85       273,961       243       429,557         Castings and forgings       tons 1,758       6,328       21,852       1,938       31,876         Castings and forgings       tons 1,758       6,328       21,852       1,938       31,876         Soilers, tanks and engines       tons 123       1,391       2,788       55       4,357         Soilers, tanks and engines       tons 1,795       16,015       29,917       713       48,440         Agricultural implements       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Machinery       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 1,561       1,365       281       3,507         Machinery       tons 1,561       1,365       281       3,507         Soilers, tanks and engines       tons 828       4,914       7,512       1,196       14,450         Soilers, tanks       tons 11       94       136       231       3,507							
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        42,662         Machinery       tons        1,661       1,365       281       3,507         \$\$        19,852       14,491       3,484       37,827         \$\$        19,852       14,491       3,484       37,827         \$\$        19,852       14,491       3,484       37,827         \$\$        19,852       14,491       3,484       37,827         \$\$        19,652       14,491       3,484	1934						
\$ 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        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         \$       19,852       14,491       3,484       37,827       152,009       14,450       231         \$       12,272       45,645       77,965       16,127       152,009         Other iron and steel       16       1       94       136       231         \$       19       1,048 <th>Pig iron, ferro-alloys and</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Pig iron, ferro-alloys and						
Castings and forgings	steel ingots and castings	tons	155,268	85	273,961	243	429,557
1       21,930       70,971       241,551       27,438       361,890         Boilers, tanks and engines       tons       123       1,391       2,788       55       4,357         2       1,795       16,015       29,917       713       48,440         Agricultural implements       tons        56       4,187        42,462         2        552       42,110        42,662         Machinery       tons        19,852       14,491       3,484       37,827         Railway rolling stock       tons       828       4,914       7,512       1,196       14,450         2       12,272       45,645       77,965       16,127       152,009         Other iron and steel       tons        1       94       136       231         3        19       1,048       2,044       3,111         Non-ferrous metallurgical works       tons        125       178,507       83,265       261,897         3        1,641       1,709,105       765,535       2,476,281		\$	880,454	827	1,379,352	5,454	2,266,087
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	Castings and forgings	tons	1,758	6,328	21,852	1,938	31,876
\$       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		\$	21,930	70,971	241,551	27,438	
\$       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	Boilers, tanks and engines	tons	123	1,391	2,788	55	4,357
\$\$        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		\$	1,795	16,015	29,917	713	
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	Agricultural implements	tons		56	4,187		4,243
\$        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		\$		552	42,110		42,662
Railway rolling stock	Machinery	tons		1,861	1,365	281	3,507
12,272       45,645       77,965       16,127       152,009         Other iron and steel       tons       1       94       136       231         1       19       1,048       2,044       3,111         Non-ferrous metallurgical works       tons        125       178,507       83,265       261,897         1        1,641       1,709,105       765,535       2,476,281		\$		19,852	14,491	3,484	37,827
Other iron and steel tons       1       94       136       231         V       19       1,048       2,044       3,111         Non-ferrous metallurgical works       tons        125       178,507       83,265       261,897         V        1,641       1,709,105       765,535       2,476,281         TOTAL        tons       157,977       14,761       490,266       87,114       750,118	Railway rolling stock	tons	828	4,914	7,512	1,196	14,450
Non-ferrous metallurgical works . tons        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		S.	12,272	45,645	77,965		
Non-ferrous metallurgical works . tons 125 178,507 83,265 261,897 5 1,641 1,709,105 765,535 2,476,281 TOTAL tons 157,977 14,761 490,266 87,114 750,118	Other iron and steel	tons		1	94	136	
\$ 1,641 1,709,105 765,535 2,476,281 TOTAL tons 157,977 14,761 490,266 87,114 750,118		\$		19	1,048	2,044	3,111
TOTAL tons 157,977 14,761 490,266 87,114 750,118	Non-ferrous metallurgical works .	tons		125	178,507	83,265	261,897
		\$		1,641	1,709,105	765,535	2,476,281
\$ 916,451 155,522 3,495,539 820,795 5,388,307	TOTAL						
		\$	916,451	155,522	3,495,539	820,795	5,388,307



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

MININ	NG IND	USTRIE	S, 1933	and 1934.		
	Ρ.	E.I.,			Manitoba,	
		.s.			Sask:,	
Industries		nd	Quebec	Ontario	-	CANADA
THUR OF TES			Augnec	Uncario		OTTAVER
	N	•B•		/	and B.C.	
				(short tons	3)	
1933						
MANUFACTURING -						
Chemicals and allied products to	ons	57	2,713	2,878	3 243	5,891
2		588	15,064	18,883		37,022
	PT	0,406	3,537	47,279		71,716
products		7,370	34,245	169,948		257,660
	ons	129	2,139	3,503		6,030
(excluding smelters)	2	1,670	13,799	28,379	3,586	47,434
Non-metallic mineral products . to	ons	7,856	16,747	74,801	7 38,125	137,535
(excluding cement, clay and lime /	3	6,366	71,820	395,854	189,196	693,236
Animal products to		5	156	1,792		2,000
		75	1,737	8,654		10,937
	-					12,667
-	ons	4	826	11,795		
	-	46	8,457	40,222		49,199
0 .		4,215	6,660	27,449		41,863
	< 3	9,591	57,821	256,340		391,323
Wood and paper products to	ons	68	396	2,012	2 250	2,726
	,	699	4,033	15,905	5 2,103	22,740
	ons	19	779	236		1,104
TECOTIONOOND DIGUGGO		168	3,249	2,113		6,391
						1,827
Central electric stations to				1,827		
<u></u>	And the second second		0 * *	4,111		4,111
TOTAL MANUFACTURING INDUSTRIES to	ons 3	2,759	33,953	173,578		283,359
	12	6,573	210,225	940,409	242,846	1,520,053
MINING INDUSTRIES to	ons	829	4,735	6,799	225	12,588
		4,804	35,557	46,449		88,861
	the second s	3,588	38,688	180,377	and the second se	295,947
		*		986,858		1,608,914
_	5 10	1,377	245,782	300.000	bri, Upi	1,000,014
1934						
MANUFACTURING -					051	4 070
Chemicals and allied products . to	ons	62	3,630	2,984		6,930
A CONTRACTOR OF	4	637	17,905	21,39]		42,729
Iron and steel and their to	ons 3	4,805	6,057	69,133	513	110,508
products Q	6	9,554	51,899	260,854	6,750	389,057
	ons	185	2,733	4,515		7,747
(excluding smelters)		2,430	19,163	38,600		64,348
		4,266	22,728	57,704		121,939
				314,428		602,611
(excluding cement, clay and lime)		9,304	68,270			
Animal products to		19	382	1,148		1,585
		295	3,239	4,56		8,450
Textile products to	ons		2,116	12,953		15,136
	R.		15,978	45,05		61,749
Vegetable products to	ons	5,299	5,872	29,911	3,278	44,360
		9,721	58,453			403,640
	ons	56	420	2,52		3,158
wood and paper products		553	4,417	18,78		25,260
						650
Miscellaneous industries to	ons	72	204			
	¥	514	1,913	2,77		6,340
		4,764	44,142	181,148		312,013
	9 15	3,014	241,237	968,064	241,869	1,604,184
MINING INDUSTRIES tor	na	2,640	2,540	7,540	5 763	13,489
MINING INDUSIRIES		5,115	19,918			104,929
<u></u>	<u>M. T</u>	0,110	10,010	00,00.	20,000	
			40.000	100 00	10 005	325 502
TOTAL tor		7,404	46,682			325,502
	i 16	8,129	261,155	1,027,29	5 252,534	1,709,113

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