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DOMINION BUREAU OF STATISTICS - CANADA
Dominion Statistician: R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.

Mining, Metallurgical and Chemical Branch
Chief: W. H. Losee, B.Sc.

XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...XXX...

THE PRIMARY IRON AND STEEL INDUSTRY IN CANADA, 1930.

Factory sales from the primary iron and steel industry in Canada during 1930 were valued at \$52,588,935. This value, which represents the amount actually received by producers for the sale of pig iron, ferro-alloys, steel ingots, direct steel castings and rolled iron and steel products, was 37 per cent below the corresponding figure for 1929 and 15 per cent below 1928 but exceeded the 1927 value by 15 per cent. The totals amounted to \$72,231,995 in 1929, to \$62,071,674 in 1928, and \$45,571,264 in 1927.

In 1930, a total of 34 firms operated 49 different plants or departments including blast furnaces, steel furnaces, ferro-alloy plants and rolling mills. The 19 plants in Ontario accounted for 58 per cent of the total sales for Canada; 6 in Nova Scotia took care of 22 per cent, 13 in Quebec 16 per cent, while the remaining 4 per cent was accounted for by 4 firms in Manitoba, 4 in British Columbia, and 3 in Alberta.

Capital employed by these concerns was reported at \$112,079,926; the average number of employees was 9,723, and salaries and wages totalled \$14,934,325. Expenditures for fuel and electricity amounted to \$5,182,136 and materials purchased for manufacturing purposes cost \$22,765,648.

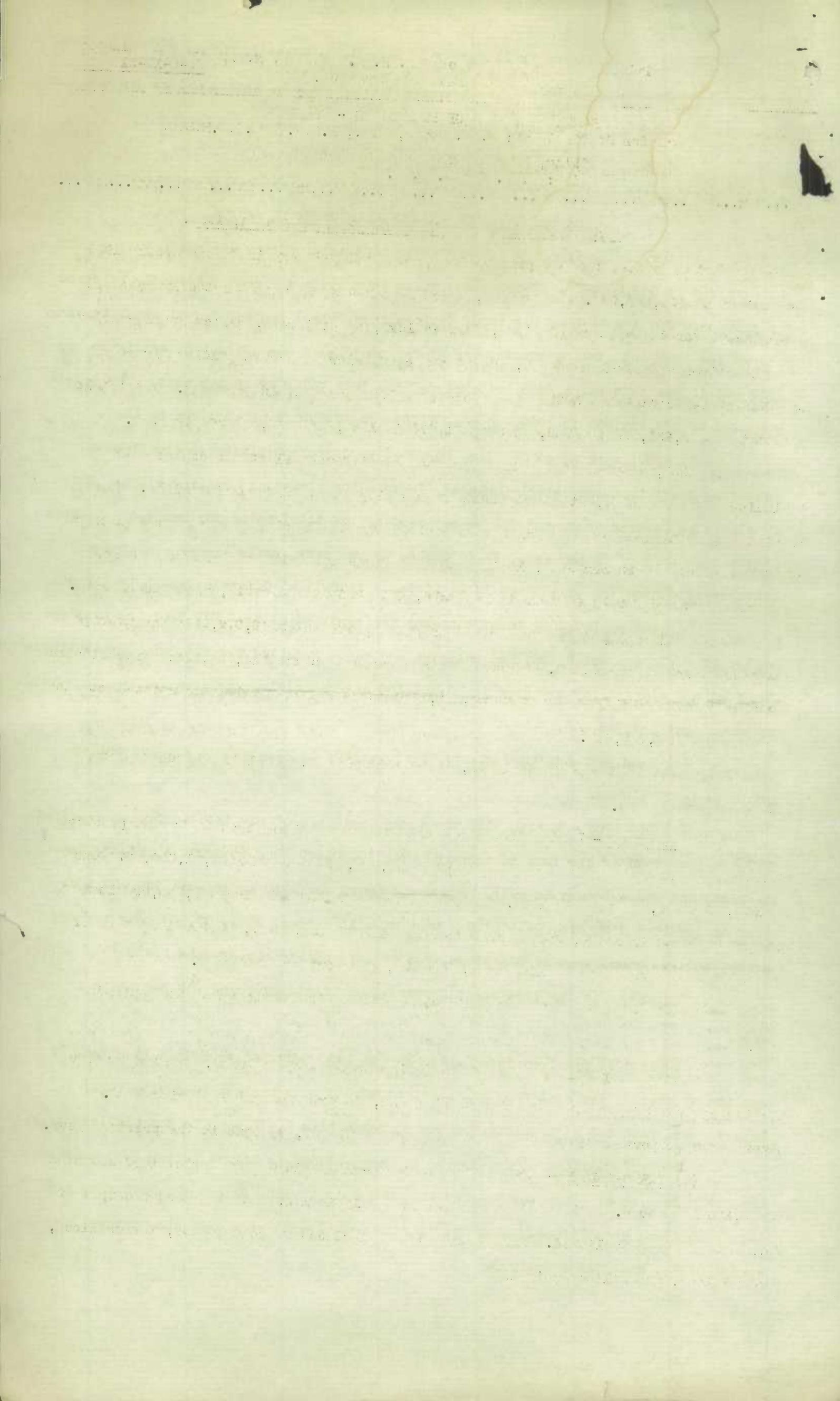
Pig iron was made in 4 plants, ferro-alloys in 3, steel in 27, and rolled products in 16 plants.

(a) PIG IRON - During 1930 the 4 manufacturers of pig iron in Canada produced 747,178 long tons of pig iron as compared with 1,080,160 tons in 1929, 1,037,727 tons in 1928, and 709,697 tons in 1927. Furnace charges for 1930 included 1,328,929 long tons of imported iron ore, 94,766 long tons of mill cinder, etc., 35,909 long tons of scrap, 401,688 short tons of limestone, and 796,040 short tons of coke.

Employees in the iron blast furnace departments averaged 769 per month in 1930.

Imports of pig iron into Canada during 1930 amounted to 13,643 long tons, a decline of over 58 per cent from the total of 32,548 tons brought in during 1929. Exports were reported at 593 long tons as compared with 7,478 tons in the previous year.

(b) FERRO-ALLOYS - Production of ferro-alloys in Canada during 1930 amounted to 65,223 long tons. This tonnage was exceeded only in 1929 when the record output of 89,116 tons was established. This year's output included ferromanganese, ferrosilicon, speigeleisen, and silico speigel.



-2-

Altogether there were 7 producers of ferro-alloys in 1930 as shown in the directory on the last page of this report.

(c) STEEL INGOTS AND DIRECT STEEL CASTINGS - Production of steel ingots and direct steel castings in Canada totalled 1,009,578 long tons in 1930, a decline of 27 per cent from the 1,372,024 reported for the previous year. In 1929 output amounted to 1,234,719 tons and in 1927 to 907,945 tons. This year's output included 956,888 tons of steel ingots and 52,690 tons of direct castings. Of the ingots practically all, or 956,500 tons, were transferred to the producing companies own plants but of the castings only 6,643 tons were used by the producers. Sales of ingots by the producers totalled 2,143 tons and sales of direct castings were reported at 46,420 tons, the difference between the tonnage distributed and the tonnage made representing a reduction in stocks.

Of the 27 steel plants 9 were located in Quebec, 7 in Ontario, 4 in British Columbia, 3 in Manitoba, 2 in Nova Scotia and 2 in Alberta. They employed a monthly average of 3,746 people.

(d) ROLLING MILLS - Rolling mill sales were valued at \$36,995,287 in 1930 as compared with \$50,758,322 in 1929 and \$46,565,831 in 1928. During the year 1,149,225 long tons of iron or steel passed through the mills and of this total 1,033,593 tons came from the producers' own plants and 115,632 tons were purchased.

The 16 mills in Canada for rolling iron or steel were located as follows:- 7 in Ontario, 4 in Quebec, 3 in Nova Scotia, and 1 in each of Manitoba and Alberta. They employed a monthly average of 4,907 people.

TABLE 1 - PRINCIPAL STATISTICS OF THE PRIMARY IRON AND STEEL INDUSTRY IN CANADA, 1926-1930.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	(x)	Selling(x)	Value added by manu-facturing
			\$	\$	\$	\$	\$
1926 ...	33	86,987,454	6,140	9,054,170	19,912,723	41,183,565	21,270,612
1927 ...	36	96,295,734	7,396	11,309,193	18,993,940	45,571,264	26,577,324
1928 ...	40	114,292,363	9,057	15,470,836	27,164,463	62,071,674	34,907,211
1929 ...	43	109,446,529	11,218	18,534,681	32,514,596	72,231,995	39,717,399
1930 ...	49	112,079,926	9,723	14,934,325	22,765,648	52,589,935	29,823,287

(x) Figures of materials used are of purchased materials only, and production figures cover sales only.

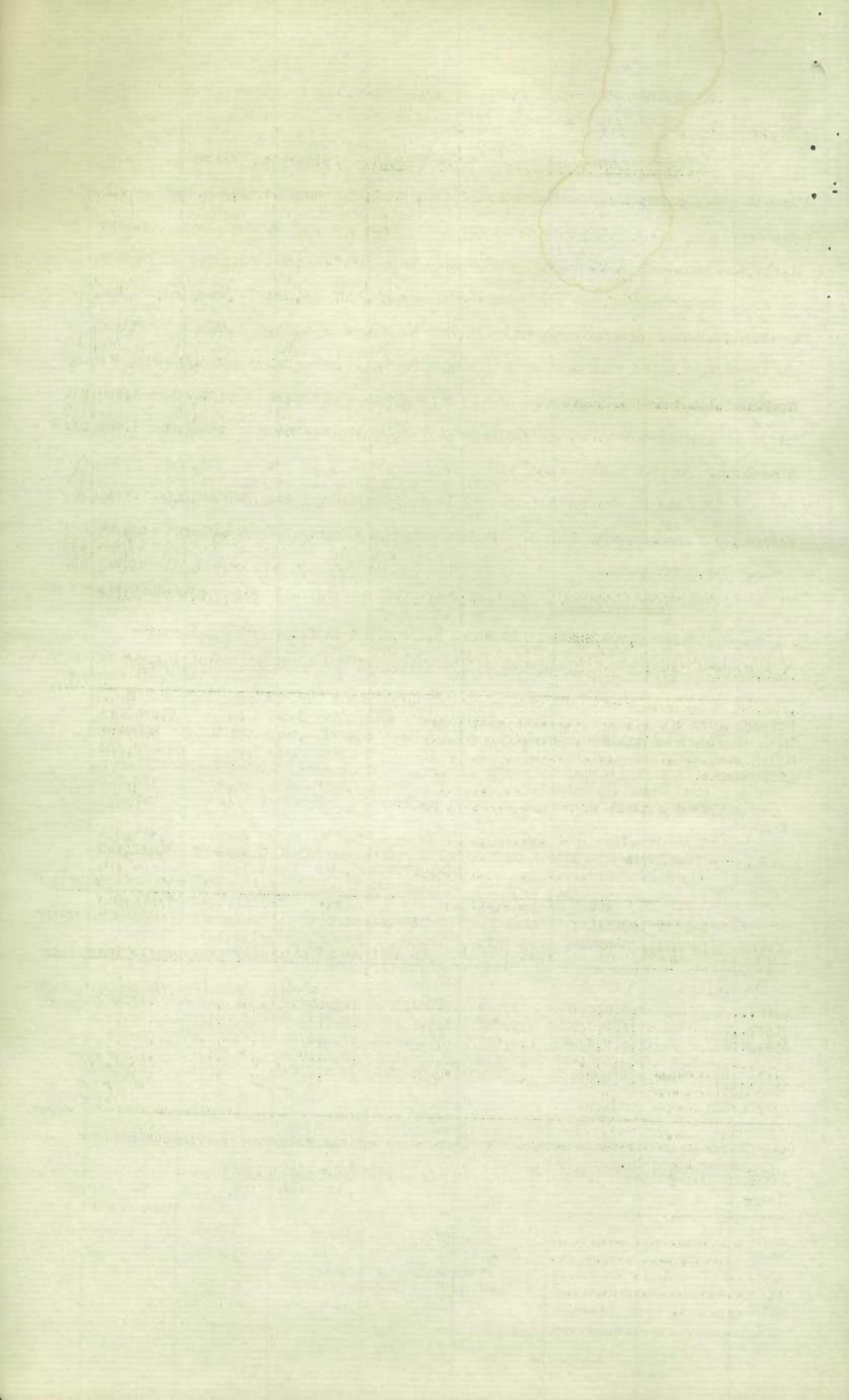


TABLE 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1928, 1929 and 1930.

Provinces	Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Value of sales
Nova Scotia	1928	6	29,978,715	2,121	3,263,144	15,625,206
	1929	6	28,626,944	2,150	3,352,388	16,044,488
	1930	6	31,508,717	1,974	2,572,564	11,814,234
Quebec	1928	10	10,232,082	1,737	2,433,334	7,350,591
	1929	13	11,765,863	2,624	3,569,143	10,344,845
	1930	13	16,964,961	2,179	2,999,077	8,190,360
Ontario	1928	16	72,098,748	4,709	9,092,742	36,926,646
	1929	18	66,941,099	5,915	10,985,718	43,739,532
	1930	19	70,544,399	4,958	8,708,854	30,655,496
Manitoba	1928	4	1,800,911	416	379,461	1,959,241
	1929	4	1,884,623	435	501,832	1,811,930
	1930	4	1,842,849	390	435,597	1,841,907
Alberta and British Columbia...	1928	4	131,907	74	102,155	210,000
	1929	4	228,000	94	125,600	291,200
	1930	7	1,219,000	222	218,233	586,938
CANADA.....	1928	40	114,292,363	9,057	15,470,836	62,071,674
	1929	45	109,446,529	11,218	18,534,681	72,231,995
	1930	49	112,079,926	9,723	14,934,325	52,588,935

(a) PIG IRON

TABLE 3 - MATERIALS CHARGED TO IRON BLAST FURNACES, 1930.

Materials	Quantity	Cost at furnace
Foreign iron ore	1,528,929 long tons	4,962,212
Mill cinder, scale, slags, etc.....	94,766 long tons	295,911
Scrap	35,909 long tons	354,158
Limestone -		
From Canadian quarries.....	106,919 short tons	172,060
From foreign sources.....	294,769 short tons	373,897
Coke -		
From Canadian coal	253,735 short tons	1,486,614
From imported coal	468,469 short tons	2,498,168
Imported coke	73,836 short tons	462,105
TOTAL .....	...	10,603,125

TABLE 4 - PRODUCTION OF PIG IRON AND SALES BY THE PRODUCERS, 1930.

Grades	Total tonnage made	Tonnage shipped to companies' own plants	S A L E S	
	long tons	long tons	Quantity long tons	Value \$
<u>PIG IRON -</u>				
Basic.....	494,231	507,431	12,440	227,430
Foundry.....	193,074	2,293	156,211	2,968,842
Malleable.....	59,873	880	46,653	927,239
TOTAL.....	747,178	510,604	215,304	4,123,561

TABLE 5 - PRODUCTION OF PIG IRON, BY GRADES, 1926-1930. (Long tons)

Years	Basic	Foundry	Malleable	TOTAL
1926	469,630	243,307	44,560	757,317
1927	523,701	145,787	40,209	709,697
1928	724,589	233,386	79,762	1,037,737
1929	770,478	221,644	88,058	1,081,100
1930	494,231	193,074	59,873	747,178

-4-
TABLE 6 - PRODUCTION OF PIG IRON, BY PROVINCES, 1926-1930. (Long tons)

Years	Nova Scotia	Ontario	TOTAL
1926	250,238	507,079	757,317
1927	249,549	460,148	709,697
1928	302,756	734,971	1,037,727
1929	310,901	769,359	1,080,160
1930	213,636	534,542	747,178

TABLE 7 - PRODUCTION OF PIG IRON, BY MONTHS, 1926-1930. (Long tons)

Months	1926	1927	1928	1929	1930
January	56,644	51,717	65,006	87,764	87,079
February	49,746	50,695	64,691	93,939	70,600
March	53,251	75,637	78,390	86,176	74,582
April	67,607	77,240	74,736	79,341	72,339
May	72,762	78,987	87,611	81,464	80,505
June	70,854	69,437	97,379	89,873	66,081
July	67,232	50,997	95,422	99,786	64,676
August	58,780	63,234	91,522	112,528	57,459
September	64,187	52,470	90,516	98,816	49,395
October	70,124	38,097	93,186	91,409	40,079
November	52,345	37,989	95,426	86,516	46,360
December (x)	73,785	63,197	103,642	72,548	38,023
TOTAL	757,317	709,697	1,037,727	1,080,160	747,178

(x) Errors in monthly production figures have been compensated in December totals.

**TABLE 8 - SALES OF PIG IRON BY THE PRODUCERS AND SHIPMENTS TO OWN WORKS, 1926-1930.
(Long tons)**

Years	Tonnage shipped to producers' own plants	S	A	L	E	S
		Tonnage sold	Income from sales	\$		
1926	453,665	272,174	5,942,803			
1927	521,638	202,848	4,250,792			
1928	705,700	258,479	5,085,091			
1929	753,889	324,759	6,544,645			
1930	510,304	215,304	4,123,562			

(b) FERRO-ALLOYS

Table 9 - PRODUCTION OF FERRO-ALLOYS, 1926 - 1930.

Years	Long tons	Years	Long tons
1926	57,050	1929	89,116
1927	56,230	1930	65,223
1928	44,482		

(c) STEEL INGOTS AND DIRECT CASTINGS

TABLE 10 - MATERIALS USED IN STEEL FURNACES, 1930.

Materials	Unit of measure	Companies' Purchased materials		
		own production	Quantity	Cost at furnace
(a) Metals:-				
Pig Iron.....	long tons	508,924	11,578	258,314
Spiegeleisen and ferromanganese.....	long tons	...	9,087	585,193
Ferrosilicon.....	long tons	...	4,717	252,412
Other ferro-alloys.....	long tons	...	515	105,732
Metals for making alloy steels (nickel, etc.).....	long tons	...	431	114,008
Scrap iron or steel, including old rails not intended for re-rolling.....	long tons	...	338,145	4,365,184
Scrap made in works reporting.....	long tons	239,905	...	...
Total Metals.....		...	...	5,678,753
(b) Ores:-				
Crude iron ore -				
Foreign	long tons	...	58,292	391,188
Calcined, roasted, or treated ore -				
Foreign	long tons	...	13	191
Manganiferous ore -				
Canadian	long tons	...	170	8,818
Foreign	long tons	...	2,004	34,050
Chrome, etc. -				
Foreign.....	long tons	...	744	21,821
Total Ores	long tons	...	61,223	456,068
(c) General materials:-				
Limestone -				
Canadian	short tons	...	38,597	101,306
Foreign	short tons	...	70,522	90,762
Fluorspar	short tons	...	6,486	92,743
Dolomite.....	short tons	...	12,796	52,367
Coke made from Canadian coal	short tons	...	1,829	21,867
Coke made in Canada from imported coal.	short tons	...	384	4,723
Imported coke	short tons	...	314	3,703
Anthracite coal	short tons	...	761	6,598
Bituminous coal	short tons	...	150	1,500
Charcoal	bushels	...	84,945	17,271
Electrodes	XXX	...	...	67,726
Other materials	XXX	...	...	488,455
Total General Materials.....		...	...	949,021
TOTAL VALUE OF METALS, ORES AND GENERAL MATERIALS USED .....		...	...	7,083,842

TABLE 11 - PRODUCTION OF STEEL INGOTS AND DIRECT CASTINGS AND SALES BY THE PRODUCERS, 1930.

Grades	Total tonnage made	Tonnage shipped to companies' own plants	S A L E S		
			Long tons	Long tons	\$
Steel Ingots -					
Basic open hearth	925,427	926,449	753	22,540	
Electric	31,461	30,051	1,390	224,941	
Direct Steel Castings -					
Basic	24,772	6,391	19,939	3,060,844	
Bessemer	2,314	36	2,268	463,153	
Electric	25,604	216	24,213	4,242,229	
TOTAL	1,009,578	963,143	48,563	8,013,707	

TABLE 13 - PRODUCTION OF STEEL INGOTS AND DIRECT STEEL CASTINGS, BY GRADES, 1924-1930.

Years	STEEL INGOTS		DIRECT STEEL CASTINGS		Total steel ingots and castings
	Open hearth	Electric	Open hearth	Conver- ter	
1924	634,954	...	18,393	1,448	659,767
1925	734,277	...	9,059	1,732	752,503
1926	744,103	...	19,831	1,676	776,262
1927	868,440	134	17,569	2,191	907,945
1928	1,189,399	602	20,109	2,019	1,234,719
1929	1,295,162	14,444	35,806	2,590	1,378,024
1930	925,427	31,461	24,772	2,314	1,009,578

Table 13 - PRODUCTION OF STEEL INGOTS AND DIRECT CASTINGS, BY MONTHS, 1926-1930.
(Long tons)

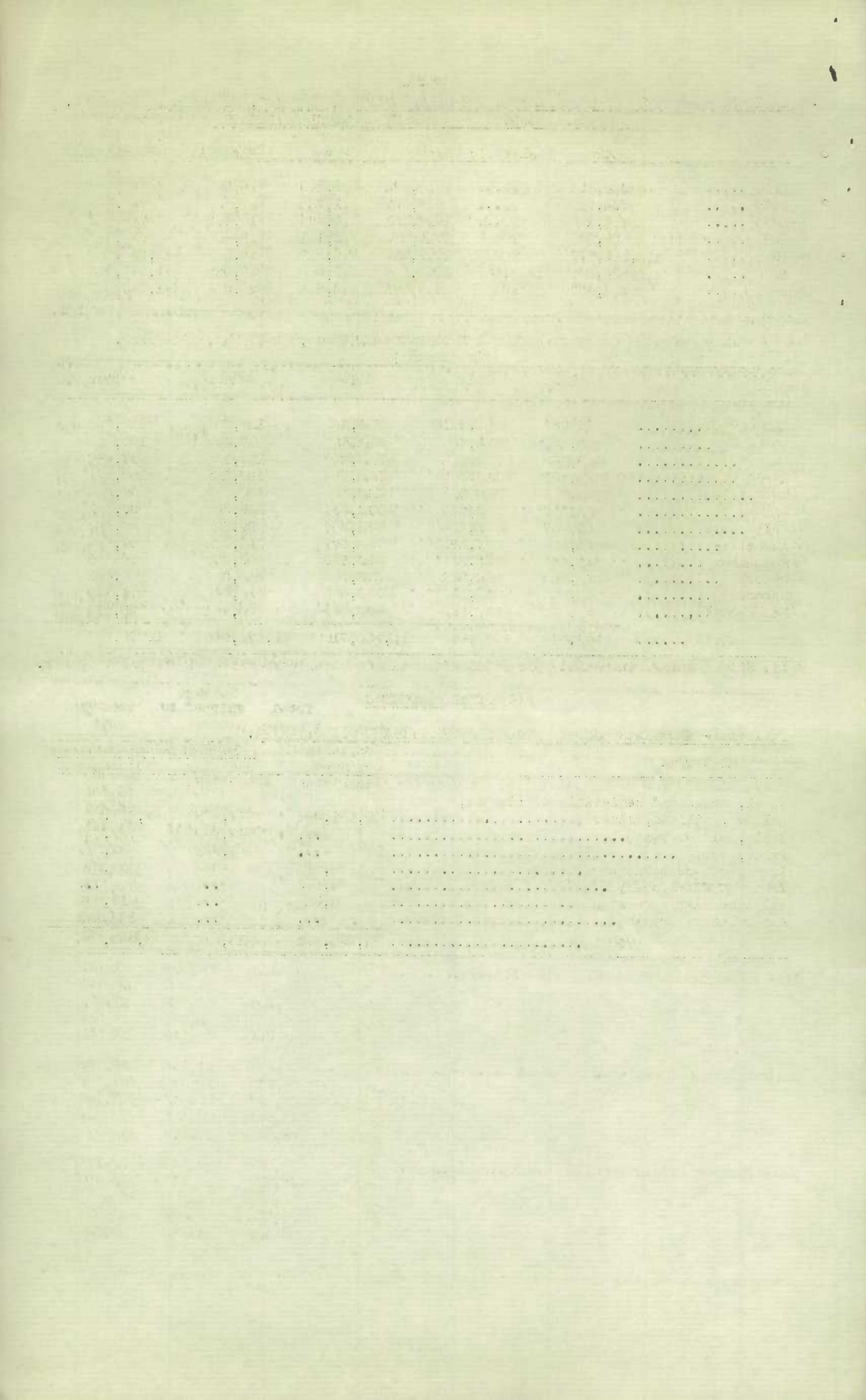
Months	1926	1927	1928	1929	1930
January	68,536	58,551	84,295	116,260	115,200
February	53,157	55,620	98,820	117,445	106,612
March	58,765	107,381	118,258	137,158	117,487
April	79,936	109,107	112,780	122,102	102,681
May	89,513	96,711	117,655	126,372	99,312
June	81,277	59,940	116,530	119,505	95,321
July	64,347	55,250	82,807	129,827	68,424
August	45,674	77,479	88,677	120,282	57,626
September	58,837	54,260	99,888	99,000	55,808
October	63,542	56,371	108,987	115,674	65,431
November	54,311	80,750	108,463	93,648	71,740
December(x)	57,867	96,555	97,559	80,751	53,936
TOTAL.....	776,262	907,945	1,234,719	1,378,024	1,009,578

(x) Slight errors in monthly production figures have been compensated in December totals.

(d) ROLLED PRODUCTS

Table 14 - MATERIALS USED IN IRON AND STEEL ROLLING MILLS, 1930.

Materials	Companies' own make	Purchased materials	
		long tons	long tons
Steel, crude and semi-finished (ingots, blooms, billets, slabs)	1,019,334	67,725	2,697,610
Rails, old or scrap.....	...	43,731	733,497
Axles, scrap .....	...	3,931	80,327
Iron muck and scrap bar	4,346	245	17,299
Iron and steel scrap	6,403	...	...
All other iron and steel	3,510	...	12,302
All other materials .....	...	...	109,151
TOTAL	1,033,593	115,632	3,650,086



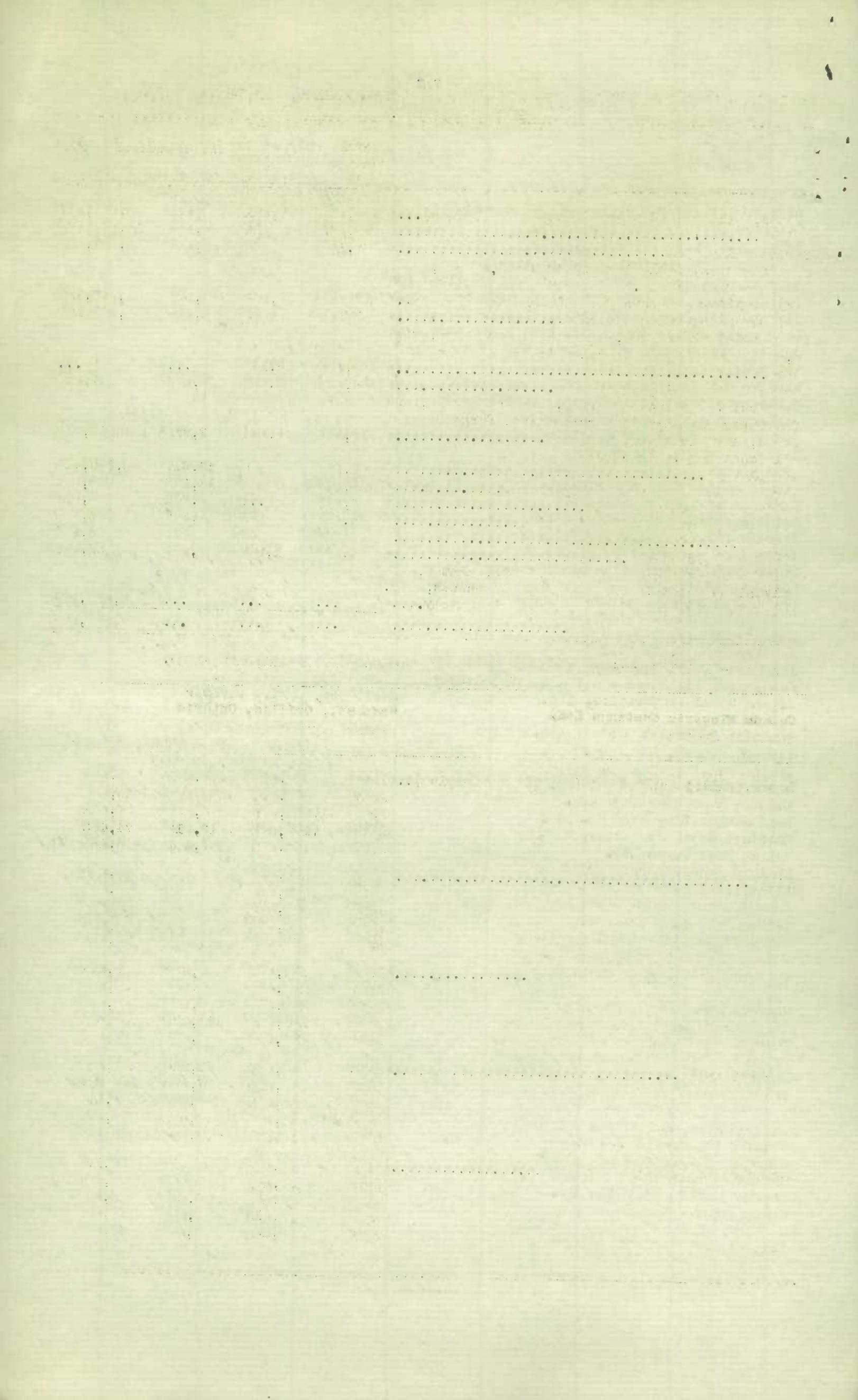
-7-

Table 15 - PRODUCTS MADE IN THE IRON AND STEEL ROLLING MILLS, AND SALES BY THE PRODUCERS, 1930.

Products	Tonnage				
	Total tonnage made	shipped to tonnage companies' own plants	S A L E S		
	Long tons	Long tons	Quantity	Value	
Blooms, billets and slabs (except for forging)...	756,778	690,391	60,171	2,017,747	
Rails	233,432	212	232,414	10,504,700	
Structural shapes.....	32,140	444	29,964	1,521,069	
Merchant bars, including spring steel, rounds, squares, flats (6 in. and under) except flats for cold rolling and bars for reinforcing concrete..	164,541	30,366	143,393	7,593,158	
Bars for reinforcing concrete.....	63,153	2,243	64,320	3,348,188	
Long angle splice bars, long fish plate bars, tie plate bars and all other long rail joint shape bars.....	55,390	56,147	...	...	...
Wire rods including chain rods.....	108,992	85,867	24,889	987,405	
Spike rods, bolt and nut rods, horseshoe bars, and all other miscellaneous rolled (not forged) forms, not elsewhere specified.....	19,844	17,017	2,912	192,718	
Rail fastenings, finished -					
Tie plates	42,205	6	43,017	2,359,710	
Angle splice bars and fish plates	12,245	4	13,277	849,507	
Forgings of iron or steel	6,388	...	6,352	696,610	
Railway spikes and pressed spikes.....	10,465	398	11,378	804,780	
Washers	524	40	573	84,764	
Scrap iron and steel	4,544	1,305	3,239	32,024	
Other products including plain sheets, plates, galvanized sheets, rolled axles, horseshoes, etc. for which figures cannot be shown separately....	...	...	...	6,002,907	
TOTAL .....	...	...	...	36,995,287	

Table 16 - LEADING ROLLED IRON AND STEEL PRODUCTS MADE IN CANADA, 1926-1930.
(Long tons)

Products	Years	Tonnage		
		Total tonnage made	shipped to makers' own plants	Tonnage sold
Blooms, billets and slabs (except for forging)...	1926	888,296	858,681	43,135
	1927	984,627	939,605	49,429
	1928	1,058,321	874,394	80,461
	1929	1,159,045	1,012,912	74,402
	1930	756,778	690,391	60,171
Rails	1926	166,820	72	170,715
	1927	233,683	274	234,521
	1928	349,189	237	349,007
	1929	383,002	194	381,634
	1930	233,432	212	232,414
Wire rods, including chain rods	1926	122,506	92,499	29,161
	1927	115,245	92,896	24,020
	1928	144,309	99,805	45,032
	1929	142,589	111,879	33,632
	1930	108,992	85,867	24,889
Merchant bars	1926	188,867	27,914	157,582
	1927	186,916	27,533	157,559
	1928	258,773	59,633	208,144
	1929	244,593	36,191	206,605
	1930	164,541	30,666	143,398
Bars for reinforcing concrete	1926	38,062	313	37,195
	1927	34,146	974	32,909
	1928	51,102	5,224	46,006
	1929	59,515	3,700	60,756
	1930	63,151	2,345	64,330



-8-

DIRECTORY OF PRODUCERS OF PIG IRON, FERRO-ALLOYS, STEEL AND ROLLED PRODUCTS
IN CANADA, 1930.

(a) PIG IRON

Dominion Steel & Coal Corporation Ltd.
Algoma Steel Corporation, Limited
Canadian Furnace Company, Limited
Steel Company of Canada, Limited

Sydney, N.S.
Sault Ste. Marie, Ontario
Port Colborne, Ontario
Hamilton, Ontario.

(b) FERRO-ALLOYS

(x) Aluminium Company of Canada, Ltd.
(x) Abrasive Company of Canada, Ltd.
(x) Canadian Carborundum Co. Ltd.
Canadian Furnace Company, Ltd.
(x) Exolon Company, Ltd.
Electro Metallurgical Co. of Canada, Ltd.
Superior Alloys, Limited
(x) These firms produce ferrosilicon as a by-product in the manufacture of alumina and fused alumina. General statistics covering their operations have not been included in the present report.

Arvida, P.Q.
Hamilton, Ontario
Niagara Falls, Ontario
Port Colborne, Ontario
Thorold, Ontario
Welland, Ontario
Sault Ste. Marie, Ontario.

(c) STEEL INGOTS AND DIRECT STEEL CASTINGS

Cummings Manufacturing Co. Ltd., J.W.
Dominion Steel & Coal Corporation, Ltd.
Beauchemin & Fils, Ltd.
Canadian Brakeshoe & Foundry Co. Ltd.
Canadian Steel Foundries, Ltd.
Canadian Tube & Steel Products, Ltd.
Hull Iron & Steel Foundries Ltd.
Joliette Steel, Limited,
La Compagnie F. X. Drolet
Manganese Steel Castings, Ltd.
Shawinigan Stainless Steel & Alloys, Ltd.
Algoma Steel Corporation, Ltd.
Canada Electric Castings Ltd.
Dominion Foundries & Steel Ltd.
Kennedy & Sons, Ltd., Wm.
London Rolling Mill Co. Ltd.
Steel Company of Canada, Ltd.
Welland Steel Castings Ltd.
Manitoba Rolling Mill Co. Ltd.
Manitoba Steel Foundries, Ltd.
Vulcan Iron Works Ltd.
Manitoba Rolling Mill Co. Ltd.
Riverside Iron Works Ltd.
Consolidated Mining & Smelting Co. Ltd.
Reliance Foundry Co. Ltd.
Vancouver Engineering Works Ltd.
Vulcan Engineering Works Ltd.

Glasgow St., New Glasgow, N.S.
Sydney, N.S.
Sorel, P.Q.
101 Belvidere St., Sherbrooke, P.Q.
Longue Pointe, Montreal, P.Q.
St. Patrick St., Montreal, P.Q.
Montcalm St., Hull, P.Q.
Madeleine St., Joliette, P.Q.
206 rue du Pont, Quebec, P.Q.
Water St., Sherbrooke, P.Q.
Shawinigan Falls, P.Q.
Sault Ste. Marie, Ontario
West St., Orillia, Ontario
Depew St., Hamilton, Ontario
1114 - 1st Ave. W., Owen Sound, Ontario
Phillips St., London, Ontario
Wilcox Ave., Hamilton, Ontario
123 Victoria St., Welland, Ontario
Selkirk, Manitoba
Selkirk, Manitoba
Pt. Douglas and Maple Sts., Winnipeg, Man.
East Calgary, Alberta
803 - 24th Ave. S.E., Calgary, Alberta.
Trail, B.C.
149 - 4th Ave. W., Vancouver, B.C.
519 - 6th Ave. W., Vancouver, B.C.
Granville Island, Vancouver, B.C.

(d) IRON AND STEEL ROLLING MILLS

Canadian Car & Foundry Ltd.
Dominion Steel & Coal Corp. Ltd.
Nova Scotia Steel & Coal Corp. Ltd.
Canadian Tube & Steel Products Ltd.
Peck Rolling Mills Ltd.
Steel Company of Canada, Ltd.
" " " " "
Algoma Steel Corporation Ltd.
Burlington Steel Co. Ltd.
Canadian Atlas Steels Limited
Dominion Foundries & Steel Ltd.
London Rolling Mill Co. Ltd.
Steel Company of Canada, Ltd.
" " " " "
Manitoba Rolling Mill Co. Ltd.
" " " " "

Amherst, N.S.
Sydney, N.S.
Trenton, N.S.
St. Patrick St., Montreal, P.Q.
851 Mill St., Montreal, P.Q.
2320 Notre Dame St. W., Montreal, P.Q.
1550 St. Patrick St., Montreal, P.Q.
Sault Ste. Marie, Ontario
Sheiman Ave. N., Hamilton, Ont.
Welland, Ontario
Depew St., Hamilton, Ont.
529 Phillips St., London, Ont.
Queen St. N., Hamilton, Ont.
Wilcox Ave., Hamilton, Ont.
Selkirk, Manitoba
East Calgary, Alberta.

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