

## DOMINION BUREAU OF STATISTICS -- CANADA

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## PRODUCTION OF IRON AND STEEL IN CANADA

JANUARY, 1934.

FIG IRON - Production of pig iron in Canada at 30,677 tons in January compares with outputs of 38,612 tons in the previous month and 29,209 tons in January of a year ago. The decline from December was mostly in the basic grade which dropped to 23,930 tons from 30,658 tons while the other grades were also lower, foundry iron dropping to 4,617 tons from 5,280 tons, and malleable iron to 2,130 tons from 2,674 tons.

Furnace charges during the month included 52,056 long tons of imported iron ore, 20,215 short tons of limestone and 34,455 short tons of coke. Of the limestone 3,958 tons were quarried in Canada and all of the coke was carbonized in Canada including 14,984 tons from Canadian coal. On January 31st two iron blast furnaces with a capacity of 725 tons a day were active and one 550 ton furnace was banked. The active furnaces were located at Hamilton and Sault Ste. Marie in Ontario and the banked furnace was reported from Sydney, N.S.

FERRO ALLOYS . Output of ferro alloys in Canada amounted to 1,814 tons in January as against 2,228 tons in December and 1,217 tons in January, 1933. This month's tonnage was largely spiegeleisen, the balance being ferrosilicon.

STEEL INGOTS AND CASTINGS -- Production of steel ingots and direct steel castings at 60,787 tons in January was the best output reported since the 75,235 tons of May, 1931, and exceeded the 49,557 tons of December by 25 per cent and the 40,766 tons of January, 1932, by 49 per cent. The advance over the previous month was mostly in the ingot grade which rose to 59,271 tons from 48,307 tons with steel castings also higher at 1,516 tons as against 1,250 tons.

PRICES During the opening month of the year quotations for iron and steel products were firm with only slight price changes recorded. Although demand from railways remained inactive, the volume of business in other industrial lines increased. Steel mills were reported as operating at 50 per cent capacity with enough orders on hand to maintain this rate for some little time. The Dominion Bureau of Statistics index number of "Iron and Its Products" on the base 1926 = 100, rose from 86.7 in December, 1933, to 87.2 in January, owing chiefly to price advances in the rolling mill products group. No. 1 and No. 2 foundry pig iron delivered at Montreal remained unchanged at \$22.00 per ton. No. 1 foundry pig iron delivered at Toronto was \$20.50 and No. 2 quoted on the same basis was \$20.00 per ton, the same prices as obtained in December.

UNITED STATES - January production of pig iron in the United States averaged 39,201 tons a day, a gain of 2.8 per cent over the daily rate of 38,131 tons in December. There were 87 furnaces in blast on February 1, making iron at the rate of 41,085 tons a day, compared with 75 furnaces on January 1, operating at the rate of 35,505 tons a day. Fourteen furnaces were blown in during January and two were blown out or banked, making a net gain of 12 furnaces.

(a) PIG IRON AND FERRO-ALLOYS IN CANADA

Table 1 - Production for the Current and Preceding Month (Tons of 2,240 lb.)

Item	J A N U A R Y, 1934			D E C E M B E R, 1933		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>In blast furnace:-</u>						
Basic .....	23,930	...	23,930	30,658	...	30,658
Foundry .....	...	4,617	4,617	...	5,280	5,280
Malleable .....	...	2,130	2,130	...	2,674	2,674
TOTAL .....	23,930	6,747	30,677	30,658	7,954	38,612
Ferro-alloys .....	...	1,814	1,814	...	2,228	2,228

Table 2 - Cumulative Production for the Twelve Months ending December  
(Tons of 2,240 lb.)

Item	1 9 3 3			1 9 3 2		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>In blast furnace:-</u>						
Basic .....	177,847	12,644	190,491	105,058	...	105,058
Foundry .....	...	22,429	22,429	...	25,246	25,246
Malleable .....	...	16,156	16,156	...	13,826	13,826
TOTAL .....	177,847	51,229	229,076	105,058	39,072	144,130
Ferro-alloys .....	...	30,569	30,569	...	16,161	16,161

Table 3 - Iron Blast Furnace Charges, January, 1934, December and Year 1933.

	January, 1934	December, 1933	Year 1933
Imported iron ore ..... long ton	52,056	66,414	399,331
Canadian limestone ..... short ton	3,958	3,900	21,888
Imported limestone ..... short ton	16,257	19,054	110,347
Coke made in Canada -			
From Canadian coal ..... short ton	14,984	17,628	135,323
From imported coal ..... short ton	19,471	18,973	80,951
Imported coke ..... short ton	...	5,000	32,151

(b) STEEL INGOTS AND DIRECT CASTINGS

Table 4 - Production for the Current Month and Preceding Month (Tons of 2,240 lb.)

Item	J A N U A R Y, 1934			D E C E M B E R, 1933		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS</u>						
Open hearth - Basic .....	57,776	...	57,776	47,354	...	47,354
Acid .....	...	...	...	...	...	...
Electric .....	1,495	...	1,495	953	...	953
Other .....	...	...	...	...	...	...
Total Steel Ingots .....	59,271	...	59,271	48,307	...	48,307
<u>STEEL CASTINGS</u>						
Open hearth - Basic .....	93	464	557	54	355	409
Acid .....	...	...	...	...	...	...
Bessemer .....	...	30	30	...	17	17
Electric .....	47	882	929	64	760	824
Total Direct Steel Castings.	140	1,376	1,516	118	1,132	1,250
GRAND TOTAL .....	59,411	1,376	60,787	48,425	1,132	49,557

Table 5 - Cumulative Production for the Twelve Months ending December

Item	1 9 3 3			1 9 3 2		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS</u>						
Open hearth - Basic .....	375,138	117	375,255	308,180	520	308,700
Acid .....	...	...	...	...	...	...
Electric .....	16,840	...	16,840	19,670	...	19,670
Other .....	...	...	...	...	...	...
Total Steel Ingots .....	391,978	117	392,095	327,850	520	328,370
<u>STEEL CASTINGS</u>						
Open hearth - Basic .....	355	4,578	4,933	565	2,051	2,616
Acid .....	...	...	...	...	...	...
Bessemer .....	8	305	313	26	820	846
Electric .....	342	10,298	10,640	344	7,170	7,514
Total Direct Steel Castings	705	15,181	15,886	935	10,041	10,976
GRAND TOTAL .....	392,683	15,298	407,981	328,785	10,561	339,346

Table 6 - Average Monthly Production of Pig Iron, Steel Ingots and Castings in Canada, 1916 - 1932. (In 1000's of long tons)

Years	Monthly Average		Years	Monthly Average	
	Iron	Steel		Iron	Steel
1916 .....	37	106	1925 .....	48	63
1917 .....	87	130	1926 .....	63	64
1918 .....	89	140	1927 .....	59	76
1919 .....	68	77	1928 .....	86	103
1920 .....	81	92	1929 .....	91	115
1921 .....	50	56	1930 .....	62	84
1922 .....	32	40	1931 .....	36	56
1923 .....	73	74	1932 .....	12	29
1924 .....	49	54			

Table 7 - Production of Pig Iron by Months and by Provinces, and Steel Ingots and Castings by Months in Canada, 1932 and 1933. (In 1000's of long tons)

Months	P I G I R O N				S T E E L			
	NOVA SCOTIA		ONTARIO		TOTAL CANADA		TOTAL CANADA	
	1933	1934	1933	1934	1933	1934	1933	1934
January .....	16	12	13	19	29	31	41	61
February .....	6		...		6		12	
March .....	...		...		...		11	
April .....	...		...		...		12	
May .....	...		...		...		23	
June .....	1		...		1		32	
July .....	16		16		32		49	
August .....	16		19		35		49	
September .....	16		15		31		38	
October .....	17		10		27		48	
November .....	16		14		30		43	
December .....	15		23		38		50	
TOTAL .....	119	12	110	19	229	31	408	61
Monthly Average .....	10	12	9	19	19	31	34	61

Table 8 - Iron Blast Furnaces in Canada, 1933.

Name of Company	Location	Number of stacks	Total Daily Capacity (Long tons)
British Empire Steel Corp. Ltd.	Sydney, N.S.	4	1,450
Canadian Furnace Co. Ltd.	Port Colborne, Ont.	1	350
The Steel Company of Canada, Ltd.	Hamilton, Ont.	2	825
Algoma Steel Corp. Ltd.	Sault Ste. Marie, Ont.	4	1,600

Table 9 - Description of Furnaces at end of January, 1934.

Condition of furnace	Number of furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast .....	2	725	17
Banked .....	1	550	13
Blown out .....	8	2,600	70
TOTAL FURNACES REPORTING .....	11	4,225	100

NOTE - Figures in this report are the latest available at time of printing. Where necessary, data for earlier months have been revised.

