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REVIEW 1933

With the exception of 1932, the tonnage of pig iron produced was the lowest reported for any year since 1900. Output was largely confined to the basic grade for steel making purposes as the foundry and malleable grades continued to be affected by the use of scrap and by the substitution of stampings, forgings and steel castings in place of iron. Iron blast furnaces in Canada operated at 24 per cent of capacity until early in February after which all operations ceased until the latter part of June when 21 per cent of the total capacity came into blast. This rate was increased to 28 per cent in July, to 39 per cent in November and continued at that level until December 31st.

Canada's primary steel production in 1933 was, with the exception of 1932, the lowest since 1905 and consisted chiefly of ingots made for the further use of the producers. This industry continued to suffer from the low rate of activity in the construction trades and the lack of new orders from the railways, although the demand from the automobile and mining industries was slightly better than in the previous year.

DECEMBER - 1933

FIG IRON - Production of pig iron in Canada at 38,612 tons in December was 31 per cent over the 29,592 tons of November and compares with 27,031 tons made in December of a year ago. The increase over the previous month was mostly in basic iron which advanced to 30,658 tons from 19,808 tons and in the foundry grade which increased to 5,280 tons from 4,814 tons. Output of malleable iron declined to 2,674 tons from 4,970 tons.

Blast furnace charges during the month included 66,414 long tons of iron ore, 22,954 short tons of limestone and 41,601 short tons of coke. Of the limestone, 3,900 tons were quarried in Canada and of the coke 36,601 tons were carbonized in Canada, 17,628 tons being from Canadian coal.

During 1933 a total of 229,076 tons of pig iron were produced in Canada, an increase of 59 per cent over the 144,130 tons of a year ago. This year's output included 190,491 tons of basic iron, 22,429 tons of foundry iron and 16,156 tons of malleable iron. Of the basic iron, 177,847 tons were made for the further use of the producers, the balance of the year's output being intended for sale.

FERRO-ALLOYS - Production of ferro alloys in Canada amounted to 2,228 tons in December as against 7,583 tons in November. During the year output totalled 30,569 tons, an advance of 89 per cent over the 16,161 tons made in 1932. Spiegeleisen made up the bulk of this year's output, the tonnage of ferrosilicon being small in comparison.

STEEL INGOTS AND CASTINGS - Output of steel ingots and direct steel castings in Canada at 49,557 tons in December was 15 per cent over the 43,099 tons of November. The increase was in the ingot grade which advanced to 48,307 tons from 41,711 tons while the tonnage of castings dropped to 1,250 from 1,388.

For the twelve months ending December 31, 1933, the cumulative output of steel ingots and direct steel castings amounted to 407,981 tons, an increase of 20 per cent compared with the 339,346 tons of 1932. The improvement was mostly in the ingot grade which advanced to 392,095 tons from 328,370 tons but steel castings also rose to 15,886 tons from 10,976 tons.

PRICES - Quotations for iron and steel products in Canada held comparatively firm throughout the year. Although a definite improvement in production began in June, the upward tendency of prices was not apparent until later. This was given support by considerable activity in the mining and automobile industries but demand for construction materials and railway supplies was light. The Dominion Bureau of Statistics index number of wholesale prices of Iron and Its Products, on the base 1926 = 100, moved down from 85.4 in January to 84.2 in July, but rose steadily from that time to close the year at 86.7. Latter advances were due chiefly to higher prices for tin plate and scrap.

No. 1 and No. 2 foundry pig iron delivered at Montreal were each \$22.00 per gross ton in December, No. 1 foundry was \$20.50 and No. 2, \$20.00 per gross ton delivered at Toronto, making no changes from quotations for the previous month.

UNITED STATES - Production of coke pig iron in the United States averaged 36,199 tons a day in 1933, an increase of 52.5 per cent from the daily average of 23,733 tons in 1932. During December six furnaces were blown out or banked and five were blown in, leaving seventy-five furnaces active on January 1, 1934.

(a) PIG IRON AND FERRO-ALLOYS IN CANADA

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

Item	D E C E M B E R, 1933			N O V E M B E R, 1933		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>In blast furnace:-</u>						
Basic	30,658	...	30,658	19,808	...	19,808
Foundry .....	...	5,280	5,280	...	4,814	4,814
Malleable .....	...	2,674	2,674	...	4,970	4,970
TOTAL	30,658	7,954	38,612	19,808	9,784	29,592
Ferro-alloys .....	...	2,228	2,228	...	7,583	7,583

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, December, November, and Year to Date, 1933.

		December, 1933	November, 1933	Year to date
Imported iron ore	long ton	66,414	53,543	399,331
Canadian limestone	short ton	3,900	3,373	21,888
Imported limestone	short ton	19,054	13,829	110,347
Coke made in Canada -				
From Canadian coal	short ton	17,628	16,897	135,323
From imported coal	short ton	18,973	15,666	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	D E C E M B E R, 1933			N O V 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	47,354	...	47,354	39,972	...	39,972
Acid .....	...	...	...	...	...	...
Electric	953	...	953	1,739	...	1,739
Other .....	...	...	...	...	...	...
Total Steel Ingots	48,307	...	48,307	41,711	...	41,711
<u>STEEL CASTINGS</u>						
Open hearth - Basic	54	355	409	52	436	488
Acid .....	...	...	...	...	...	...
Bessemer .....	...	17	17	...	64	64
Electric	64	760	824	2	834	836
Total Direct Steel Castings	118	1,132	1,250	54	1,334	1,388
GRAND TOTAL	48,425	1,132	49,557	41,765	1,334	43,099

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 - 1931. (In 1000's of long tons)

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

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	
	1932	1933	1932	1933	1932	1933	1932	1933
January .....	...	16	10	13	10	29	25	41
February .....	...	6	11	...	11	6	28	12
March .....	...	...	18	...	18	...	44	11
April .....	...	...	17	...	17	...	36	12
May .....	...	...	13	...	13	...	29	23
June .....	...	1	8	...	8	1	18	32
July .....	...	16	7	16	7	32	28	49
August .....	...	18	6	19	6	35	27	49
September .....	...	16	6	15	6	31	23	38
October .....	...	17	7	10	7	27	17	48
November	14	16	...	14	14	30	37	43
December	16	15	11	23	27	38	27	50
TOTAL	30	119	114	110	144	229	339	408
Monthly Average	2	10	10	9	12	19	29	34

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 December, 1933.

Condition of furnace	Number of furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast	4	1,625	39
Banked .....	...	...	...
Blown out	7	2,600	61
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.

