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PRODUCTION OF IRON AND STEEL IN CANADA

NOVEMBER, 1933.

PIG IRON -- Production of pig iron in Canada during November amounted to 29,592 long tons which was the highest tonnage reported for any month since July 1931 when 40,303 tons were made. In October of this year production was reported at 27,002 tons and in November of last year at 14,149 tons.

For the first eleven months of 1933 the cumulative production of pig iron totalled 190,464 tons, an advance of 39 per cent over the 117,099 tons made in the corresponding period of 1932. This year's tonnage included 159,833 tons of basic iron, 17,149 tons of foundry iron and 13,482 tons of malleable iron.

Blast furnace charges during November included 53,543 long tons of imported iron ore, 17,202 short tons of limestone and 32,563 short tons of coke. Of the limestone 3,373 tons were quarried in Canada while all the coke was carbonized in Canada. For the year to date, a total of 332,917 tons of ore, 109,281 tons of limestone and 206,824 tons of coke were used to produce 190,464 tons of pig iron.

FERRO ALLOYS - November production of ferro-alloys in Canada dropped to 7,583 tons from the 9,563 tons of the previous month. Output consisted of the spiegeleisen and ferro-silicon grades with the former predominating.

STEEL INGOTS AND CASTINGS Output of 43,093 tons of steel ingots and direct steel castings in Canada during November while off from the 48,496 tons made in October marked an improvement over the 37,088 tons made in November 1932. The decline from the previous month was in the ingot grades which dropped to 41,711 tons from 47,230 tons while direct steel castings advanced slightly to 1,388 tons from 1,266 tons.

For the eleven months ending November 30, 1933 the output of steel totalled 358,424 tons, an advance of 13 per cent over the 312,033 tons made in the first eleven months of 1932. This year's total included 343,788 tons of ingots and 14,636 tons of direct castings.

PRICES - Quotations for iron and steel products in November varied but slightly from those of the previous month. Market conditions also were practically unchanged, with steady sales of small spot tonnages prevailing. Demand for machinery, tools and steel in fairly good quantities, on the part of the mining industry, again made up most of the business done, but an increase in inquiries by the automobile manufacturers was also noted towards the latter part of the month. The Dominion Bureau of Statistics index number of wholesale prices of "Iron and Its Products" rose from 85.7 in October to 86.1 in November, due chiefly to price advances for galvanized steel sheets, and scrap iron and steel. Prices of No. 1 and No. 2 foundry pig iron remained unchanged. Each grade, delivered at Montreal was quoted at \$22.00 per gross ton, while delivered at Toronto, the former was \$20.50 and the latter at \$20.00 per gross ton.

UNITED STATES - In the United States the daily rate of pig iron production at 21,042 tons showed a gain of about 1 per cent over the October figure of 20,800 tons. During November four furnaces were blown in and two blown out or banked, to make a net gain of two active furnaces.

(a) PIG IRON AND FERRO-ALLOYS IN CANADA

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

Item	N O V E M B E R, 1933			O C T O B E R, 1933		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>In blast furnace:-</u>						
Basic	19,808	...	19,808	25,659	...	25,659
Foundry .....	...	4,814	4,814	...	1,343	1,343
Malleable .....	...	4,970	4,970	...	...	...
TOTAL	19,808	9,784	29,592	25,659	1,343	27,002
Ferro-alloys .....	...	7,583	7,583	...	9,563	9,563

Table 2 - Cumulative Production for the Eleven Months ending November (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	147,189	12,644	159,833	82,216	...	82,216
Foundry .....	...	17,149	17,149	...	21,057	21,057
Malleable .....	...	13,482	13,482	...	13,826	13,826
TOTAL	147,189	43,275	190,464	82,216	34,883	117,099
Ferro-alloys .....	...	28,341	28,341	100	14,297	14,397

Table 3 - Iron Blast Furnace Charges, November, October and Year to Date, 1933.

	November, 1933	October, 1933	Year to Date
Imported iron ore long ton	53,543	48,535	332,917
Canadian limestone short ton	3,373	3,761	17,988
Imported limestone short ton	13,829	12,449	91,293
<u>Coke made in Canada -</u>			
From Canadian coal ... short ton	16,897	18,689	117,695
From imported coal ... short ton	15,666	9,289	61,978
Imported Coke short ton	...	1,103	27,151

(b) STEEL INGOTS AND DIRECT CASTINGS

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

Item	N O V E M B E R, 1933			O C T O B E R, 1933		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS</u>						
Open hearth - Basic	39,972	...	39,972	45,773	87	45,860
Acid .....	...	...	...	...	...	...
Electric	1,739	...	1,739	1,370	...	1,370
Other .....	...	...	...	...	...	...
TOTAL STEEL INGOTS	41,711	...	41,711	47,143	87	47,230
<u>STEEL CASTINGS</u>						
Open hearth - Basic	52	436	488	55	211	266
Acid .....	...	...	...	...	...	...
Bessemer .....	...	64	64	...	60	60
Electric	2	834	836	24	916	940
TOTAL DIRECT STEEL CASTINGS ..	54	1,334	1,388	79	1,187	1,266
GRAND TOTAL	41,765	1,334	43,099	47,222	1,274	48,496

Table 5 - Cumulative Production for the Eleven Months ending November.

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	327,784	117	327,901	282,728	619	283,347
Acid .....	...	...	...	...	...	...
Electric	15,887	...	15,887	18,240	...	18,240
Other .....	...	...	...	...	...	...
TOTAL STEEL INGOTS	343,671	117	343,788	300,968	619	301,587
<u>STEEL CASTINGS</u>						
Open hearth - Basic	301	4,223	4,524	419	2,212	2,631
Acid .....	...	...	...	...	...	...
Bessemer	8	288	296	74	735	809
Electric	278	9,538	9,816	285	6,721	7,006
TOTAL DIRECT STEEL CASTINGS ..	587	14,049	14,636	778	9,668	10,446
GRAND TOTAL	344,258	14,166	358,424	301,746	10,287	312,033

Table 6 - Average Monthly Production of Pig Iron, Steel Ingots and Castings in Canada, 1916-1931. (In 1000's of long tons)

Years	<u>Monthly Average</u>		Years	<u>Monthly Average</u>	
	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	-	16	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	-	11	-	27	-	31	-
TOTAL	30	104	114	87	144	191	343	358
Monthly Average	2	9	10	8	12	17	29	32

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 November, 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

/ One furnace was used to make spiegeleisen only.

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

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