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MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA - CANADA

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UNLESS SPECIFIED ALL TONNAGES ARE 2,240 POUNDS

MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

NOVEMBER, 1940

PIG IRON - Production of pig iron in Canada advanced to 109,576 tons in November from 109,335 tons in October. On a daily basis, the rate of increase was 3.5 per cent over October and 24.8 per cent over November of a year ago. This month's total included 82,942 tons of basic iron, 14,567 tons of foundry iron and 12,067 tons of malleable iron.

Blast furnace charges during November included 194,780 tons of iron ore, 54,720 short tons of limestone and 111,951 short tons of coke. For the year to date, a total of 1,900,569 tons of ore, 528,343 short tons of limestone and 1,110,933 short tons of coke were charged to iron blast furnaces in Canada to make 1,058,417 tons of pig iron. In the first eleven months of last year the output of pig iron amounted to 861,582 tons.

FERRO-ALLOYS - Output of ferro-alloys in November totalled 11,654 tons compared with 15,016 tons in the previous month and 7,285 tons in November of last year. This month's total was made up of the following five grades, listed according to tonnage made: ferrosilicon, silicomanganese, ferrochrome, ferromanganese and ferro-phosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and direct steel castings amounted to 176,113 tons in November compared with 185,091 tons in October of this year and 147,182 tons in November, 1939. This month's total included 170,603 tons of ingots and 5,510 tons of castings.

Cumulative output for the eleven months ending November 30, 1940, was reported at 1,825,752 tons, an advance of 48 per cent over the total of 1,234,765 tons made during the corresponding period of last year.

PRICES - The Canadian iron and steel market continued steady in November and an index number of iron and its products remained unchanged at 106.1. This compared with an index of 101.9 in November, 1939 and was the highest reached since April, 1925. Production of pig iron and steel ingots approached records for the industry and importations were heavy. To assure supplies for industries engaged in war work, an order was issued by the Wartime Industries Control Board limiting purchases of steel for other than war purposes, to current requirements only. Pig iron prices remained unchanged from October, No. 1 foundry delivered at Toronto being quoted at \$26.00 per long ton.

UNITED STATES - PIG IRON (From "The Iron Age") - Output of pig iron in the United States during November averaged 146,760 tons per day, a gain of 2.3 per cent

over the daily average of 143,463 tons for October. During the current month, six furnaces were blown in and one was blown out. The operating rate for the industry was at 97.2 per cent of capacity.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING NOVEMBER and OCTOBER, 1940

	NOVEMBER, 1940			OCTOBER, 1940		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>PIG IRON -</u>						
Basic .....	80,575	2,367	82,942	78,839	5,778	84,617
Foundry .....	...	14,567	14,567	...	13,368	13,368
Malleable .....	52	12,015	12,067	...	11,400	11,400
TOTAL .....	80,627	28,949	109,576	78,839	30,546	109,385
Ferro-alloys .....	...	11,654	11,654	...	15,016	15,016

Table 2 - CUMULATIVE PRODUCTION FOR THE ELEVEN MONTHS ENDING NOVEMBER, 1940 and 1939

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>PIG IRON -</u>						
Basic .....	841,071	31,957	873,028	551,176	21,019	572,195
Foundry .....	99	102,639	102,738	...	65,670	65,670
Malleable .....	104	82,547	82,651	...	23,697	23,697
TOTAL .....	841,274	217,143	1,058,417	551,176	110,386	661,562
Ferro-alloys .....	...	117,015	117,015	...	64,740	64,740

Table 3 - IRON BLAST FURNACE CHARGES DURING NOVEMBER and OCTOBER, 1940 and ELEVEN MONTHS ENDING NOVEMBER, 1940

	Unit	NOVEMBER	OCTOBER	ELEVEN MONTHS
Iron ore .....	Long ton	194,780	201,287	1,900,569
Limestone .....	Short ton	54,720	55,659	528,343
Coke .....	Short ton	111,951	114,518	1,110,933

STEEL INGOTS AND CASTINGS

**Table 4 - PRODUCTION DURING NOVEMBER and OCTOBER, 1940**

	NOVEMBER			OCTOBER		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS -</u>						
Open hearth - Basic .....	154,311	6,491	160,802	162,177	5,920	168,097
Electric .....	9,801	...	9,801	11,040	...	11,040
Other .....	...	...	...	...	...	...
Total Steel Ingots ....	164,112	6,491	170,603	173,217	5,920	179,137
<u>STEEL CASTINGS -</u>						
Open hearth - Basic .....	245	1,106	1,351	251	1,227	1,478
Converter .....	...	277	277	...	107	107
Electric .....	1,182	2,700	3,882	1,398	2,971	4,369
Total Steel Castings ..	1,427	4,083	5,510	1,649	4,305	5,954
GRAND TOTAL .....	165,539	10,574	176,113	174,866	10,225	185,091

**Table 5 - CUMULATIVE PRODUCTION FOR THE ELEVEN MONTHS ENDING NOVEMBER, 1940 and 1939**

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS -</u>						
Open hearth - Basic .....	1,602,668	45,689	1,648,357	1,118,036	5,918	1,123,954
Electric .....	112,844	...	112,844	63,215	8	63,223
Other .....	...	...	...	...	...	...
Total Steel Ingots .....	1,715,512	45,689	1,761,201	1,181,251	5,926	1,187,177
<u>STEEL CASTINGS -</u>						
Open hearth - Basic .....	2,720	15,227	17,947	1,720	11,633	13,353
Converter .....	...	1,495	1,495	...	679	679
Electric .....	12,570	32,539	45,109	6,834	27,222	33,556
Total Direct Steel Castings	15,290	49,261	64,551	8,054	39,534	47,588
GRAND TOTAL .....	1,730,802	94,950	1,825,752	1,189,305	45,460	1,234,765

**Table 6 - AVERAGE MONTHLY PRODUCTION OF PIG IRON, STEEL INGOTS AND CASTINGS IN CANADA, 1916 - 1939 (In 1000's of long tons)**

Year	Monthly Average		Year	Monthly Average	
	Iron	Steel		Iron	Steel
1916 .....	87	106	1928 .....	86	103
1917 .....	87	130	1929 .....	90	115
1918 .....	89	139	1930 .....	62	84
1919 .....	68	77	1931 .....	35	56
1920 .....	81	92	1932 .....	12	28
1921 .....	50	56	1933 .....	19	34
1922 .....	32	40	1934 .....	34	63
1923 .....	73	73	1935 .....	50	78
1924 .....	49	55	1936 .....	57	93
1925 .....	48	63	1937 .....	75	117
1926 .....	63	65	1938 .....	59	96
1927 .....	59	76	1939 .....	63	115





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- 4 -

Table 7 - PRODUCTION OF PIG IRON, BY MONTHS and BY PROVINCES, and STEEL INGOTS AND CASTINGS, BY MONTHS, 1939 and 1940 (In 1000's of long tons)

Month	P I G		I R O N		: S T E E L			
	NOVA SCOTIA		ONTARIO		TOTAL CANADA : TOTAL CANADA			
	1939	1940	1939	1940	1939	1940	1939	1940
January .....	16	34	42	71	58	105	78	167
February .....	13	23	28	64	41	87	77	140
March .....	12	34	29	58	41	92	96	157
April .....	19	31	27	53	46	84	100	153
May .....	25	37	33	56	58	93	121	175
June .....	24	33	29	56	53	89	108	166
July .....	23	34	36	62	59	96	111	170
August .....	23	34	43	55	66	89	122	172
September .....	24	32	42	73	66	105	125	185
October .....	24	35	62	74	86	109	150	185
November .....	25	33	63	76	88	109	147	176
Total - 11 Months .....	228	360	434	698	662	1,058	1,235	1,826
December .....	31		63		94		150	
TOTAL FOR YEAR .....	259		497		756		1,385	

Table 8 - IRON BLAST FURNACES IN CANADA

Name of Company	Location of furnace	Number of stacks	Total Daily Capacity (Long tons)
Dominion Steel and Coal Corp. Ltd.	Sydney, N.S.	3	1,200
Canadian Furnace Limited	Port Colborne, Ont.	1	350
The Steel Company of Canada, Limited	Hamilton, Ont.	2	975
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	1,600

Table 9 - DESCRIPTION OF FURNACES AT END OF NOVEMBER, 1940

Condition of furnaces	Number of furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast .....	9	3,825	93
Banked .....	...	...	...
Blown out .....	1	300	7
Total Furnaces Reporting .....	10	4,125	100

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