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UNLESS SPECIFIED ALL TONNAGES ARE 2,240 POUNDSMONTHLY REPORTPRODUCTION OF IRON AND STEEL IN CANADADECEMBER, 1940

PIG IRON - Production of pig iron in Canada averaged 3,564 tons a day in December to make a total for the month of 110,477 tons. The daily average was 2.4 per cent under the 3,653 tons reported for November and 16.9 per cent over the 3,048 tons made each day in December of a year ago. This month's total included 101,601 tons of basic iron, 5,186 tons of foundry iron and 3,690 tons of malleable iron.

Furnace charges for December included 202,432 tons of ore, 56,779 short tons of limestone and 111,799 short tons of coke to make a total charge for the twelve-month period of 2,103,001 tons of ore, 585,122 short tons of limestone and 1,222,732 short tons of coke. From these charges the nine active blast furnaces in Canada operating at 78.7 per cent of capacity produced 1,168,894 tons of pig iron as compared with outputs of 755,731 tons in 1939 and 705,427 tons in 1938.

FERRO-ALLOYS - Output of ferro-alloys amounted to 13,397 tons and was made up of six different grades listed according to tonnage, as follows: ferrosilicon, spiegeleisen, silicomanganese, ferromanganese, ferrochrome, silicospiegel and ferro-phosphorus. During the calendar year production totalled 138,412 tons compared with 76,375 tons in 1939 and 55,926 tons in 1938.

STEEL INGOTS AND CASTINGS - Production of steel ingots and direct steel castings amounted to 185,420 tons in December against 176,113 tons in November of this year and 150,207 tons in December, 1939. This month's total included 180,418 tons of ingots and 5,002 tons of castings.

During 1940 Canadian steel furnaces operated at 85.1 per cent of capacity to produce 2,011,172 tons of steel. This total compares with 1,384,870 tons in 1939 and 1,155,190 tons in 1938.

PRICES - Prices of iron and steel products in the Dominion Bureau of Statistics wholesale price index were maintained at unchanged levels in the last quarter of the year. The December index number of wholesale prices of iron and its products on the base 1926=100 held at 106.1 compared with 102.1 in December 1939 and 98.1 in December 1938.

New business increased in volume due to the continued placing of war contracts and the high November output was further augmented by heavy imports. With operations approaching capacity levels, considerable plant expansion was reported under way. Orders were for a wide variety of commodities among which sheets, merchant bars, and wire featured.

Prices of No. 1 foundry pig iron delivered remained at \$26.00 per long ton.

UNITED STATES PRODUCTION - According to the "Iron Age" the production of coke pig iron in the United States averaged 142,407 tons a day in December compared with 146,774 tons daily in November, the decline in the operating rate being 94.4 per cent from 97.1 per cent of capacity. For the twelve months of 1940, the gain over the previous year amounted to 32.2 per cent, or to 127,912 tons from 96,700 tons a day. Blast furnace operations in the United States during 1940 were at 84.4 per cent of capacity.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING DECEMBER and NOVEMBER, 1940

	DECEMBER, 1940			NOVEMBER, 1940		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>PIG IRON -</u>						
Basic	98,786	2,815	101,601	80,575	2,367	82,942
Foundry .....	...	5,186	5,186	...	14,567	14,567
Malleable .....	...	3,690	3,690	52	12,015	12,067
TOTAL	98,786	11,691	110,477	80,627	28,949	109,576
Ferro-alloys .....	...	18,397	18,397	...	11,654	11,654

Table 2 - CUMULATIVE PRODUCTION FOR THE TWELVE MONTHS ENDING DECEMBER, 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	939,857	34,772	974,629	630,875	24,685	655,560
Foundry	99	107,825	107,924	...	71,709	71,709
Malleable	104	86,237	86,341	...	28,462	28,462
TOTAL	940,060	228,834	1,168,894	630,875	124,856	755,731
Ferro-alloys .....	...	135,412	135,412	...	76,375	76,375

Table 3 - IRON BLAST FURNACE CHARGES DURING DECEMBER and NOVEMBER, 1940 and TWELVE MONTHS ENDING DECEMBER, 1940

	Unit	DECEMBER	NOVEMBER	TWELVE MONTHS
Iron ore	Long ton	202,432	194,780	2,103,001
Limestone	Short ton	56,779	54,720	585,122
Coke	Short ton	111,799	111,951	1,222,732

STEEL INGOTS AND CASTINGS

Table 4 - PRODUCTION DURING DECEMBER AND NOVEMBER, 1940

	DECEMBER			NOVEMBER		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS -</u>						
Open hearth - Basic ...	154,669	15,203	169,872	154,311	6,491	160,802
Electric	10,546	...	10,546	9,801	...	9,801
Other .....	...	...	...	...	...	...
Total Steel Ingots ..	165,215	15,203	180,418	164,112	6,491	170,603
<u>STEEL CASTINGS -</u>						
Open hearth - Basic ...	204	661	865	245	1,106	1,351
Converter .....	...	162	162	...	277	277
Electric	1,259	2,716	3,975	1,182	2,700	3,882
Total Steel Castings.	1,463	3,539	5,002	1,427	4,083	5,510
GRAND TOTAL	166,678	18,742	185,420	165,539	10,574	176,113

Table 5 - CUMULATIVE PRODUCTION FOR THE TWELVE MONTHS ENDING DECEMBER, 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	1,757,337	60,892	1,818,229	1,253,146	6,085	1,259,231
Electric	123,390	...	123,390	71,177	...	71,177
Other .....	...	...	...	...	...	...
Total Steel Ingots	1,880,727	60,892	1,941,619	1,324,323	6,085	1,330,408
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	2,924	15,888	18,812	2,964	12,637	15,601
Converter .....	...	1,657	1,657	...	834	834
Electric	13,829	35,255	49,084	1,017	37,010	38,027
Total Direct Steel Castings	16,753	52,800	69,553	3,981	50,481	54,462
GRAND TOTAL	1,897,480	113,692	2,011,172	1,328,304	56,566	1,384,870

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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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	73	167
February	15	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	165
October	24	35	62	74	86	109	150	185
November	25	33	63	77	88	110	147	176
December	31	35	63	75	94	110	150	185
TOTAL	259	395	497	774	756	1,169	1,385	2,011

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 DECEMBER, 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.