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OTTAWA - CANADA

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MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

JULY, 1940.

PIG IRON - Canadian iron blast furnaces operated at 93 per cent of capacity on July 31, 1940.

Production of pig iron during July amounted to 95,924 long tons compared with 88,656 tons in the previous month and 59,587 tons in July of last year. This month's output consisted of 81,608 tons of basic iron, 6,170 tons of foundry iron and 8,146 tons of malleable iron. Included in the furnace charges for the month were 181,360 long tons of iron ore, 50,727 short tons of limestone and 102,458 short tons of coke.

During the seven months ending July 31, 1940, a total of 645,551 tons of pig iron was produced compared with corresponding figures for other years, as follows- 356,108 tons in 1939, 455,396 tons in 1938, and 503,680 tons in 1937.

FERRO-ALLOYS - Output of ferro-alloys totalled 9,257 tons in July compared with 10,128 tons in June, and 6,475 tons in July, 1939. This month's total included seven different alloys which ranged in order of tonnage as follows: ferrosilicon, ferromanganese, silicomanganese, spiegeleisen, ferrochrome and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and direct steel castings totalled 169,577 tons in July against 166,213 tons in June and 111,149 in the corresponding month of a year ago. This month's total included 164,501 tons of ingots and 5,076 tons of castings.

For the seven months ending July, the cumulative output of steel ingots and castings amounted to 1,127,823 tons against 691,290 tons during the corresponding period of last year.

PRICES - Continuing the upward movement of June, prices of scrap iron advanced still further in July while quotations of other iron and steel products held firm. No. 1 machinery cast iron delivered at Canadian foundries rose \$1.00 and No. 2 \$2.00 per ton over June quotations. Canadian steel output was maintained at high levels to meet the increasing demand for war materials. Demand for pig iron increased and imports of scrap materials from the United States remained around record levels. Latterly, the United States government placed restrictive measures on the export of No. 1 heavy melting scrap steel. No. 1 foundry pig iron delivered at Toronto remained unchanged at \$26.00 per gross ton.

UNITED STATES - (Extracts from the "Iron Age") - In the United States the production of coke pig iron reached 86.3 per cent of capacity in July, the highest level for the year to date. On a daily basis the gain in July was 2.7 per cent over that in June, or to 130,772 tons from 127,297 tons. During the month three furnaces were taken off blast and eight blown in.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING JULY AND JUNE, 1940. (Tons of 2,240 pounds)

	JULY, 1940			JUNE, 1940		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	80,249	1,359	81,608	74,360	695	75,055
Foundry.....	...	6,170	6,170	...	10,877	10,877
Malleable.....	...	8,146	8,146	...	2,724	2,724
TOTAL.....	80,249	15,675	95,924	74,360	14,296	88,656
Ferro-alloys.....	-	9,257	9,257	...	10,128	10,128

Table 2 - CUMULATIVE PRODUCTION FOR THE SEVEN MONTHS ENDING JULY, 1940 and 1939
(Tons of 2,240 pounds)

	1940			1939		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	526,234	14,618	540,852	318,688	11,229	329,917
Foundry.....	99	57,818	57,917	-	17,742	17,742
Malleable.....	52	46,730	46,782	-	8,449	8,449
TOTAL.....	526,385	119,166	645,551	318,688	37,420	356,108
Ferro-alloys .....	...	67,501	67,501	...	37,379	37,379

Table 3 - IRON BLAST FURNACE CHARGES DURING JULY AND JUNE, 1940 AND SEVEN MONTHS
ENDING JULY, 1940.

	Unit	JULY	JUNE	SEVEN MONTHS
Iron ore.....	Long ton	181,360	163,121	1,151,003
Limestone.....	Short ton	50,727	46,488	317,450
Coke.....	Short ton	102,458	93,705	679,404

(x) Revised.

STEEL INGOTS AND CASTINGS

Table 4 - PRODUCTION DURING JULY AND JUNE, 1940 (Tons of 2,240 pounds)

	JULY			JUNE		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic....	148,861	4,646	153,507	141,446	7,605	149,051
Electric.....	10,994	...	10,994	11,543	...	11,543
Other.....	...	...	...	...	...	...
Total Steel Ingots...	159,855	4,646	164,501	152,989	7,605	160,594
STEEL CASTINGS -						
Open hearth - Basic...	233	893	1,126	237	1,112	1,349
Converter.....	...	126	126	...	146	146
Electric.....	1,241	2,583	3,824	1,195	2,929	4,124
	1,474	3,602	5,076	1,432	4,187	5,619
GRAND TOTAL.....	161,329	8,248	169,577	154,421	11,792	166,213

Table 5 - CUMULATIVE PRODUCTION FOR THE SEVEN MONTHS ending JULY, 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.....	993,194	21,938	1,015,132	632,849	555	633,404
Electric.....	69,931	...	69,931	31,321	...	31,321
Other.....	...	...	...	...	...	...
Total Steel Ingots.....	1,063,125	21,938	1,085,063	664,170	555	664,725
<u>STEEL CASTINGS -</u>						
Open hearth - Basic.....	1,767	11,222	12,989	967	5,683	6,650
Converter.....	...	833	833	...	374	374
Electric.....	7,275	21,663	28,938	4,247	15,294	19,541
Total Direct Steel Castings..	9,042	33,718	42,760	5,214	21,351	26,565
GRAND TOTAL.....	1,172,167	55,656	1,127,823	669,384	21,906	691,290

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

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
Total - 7 Months.....	132	226	224	420	356	646	691	1,128
August.....	23		43		66		122	
September.....	24		42		66		125	
October.....	24		62		86		150	
November.....	25		63		88		147	
December.....	31		63		94		150	
TOTAL FOR YEAR.....	259		497		756		1,385	

+ Revised.



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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	400
The Steel Company of Canada, Limited	Hamilton, Ont.	2	975
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	1,700

Table 9 - DESCRIPTION OF FURNACES AT END OF JULY, 1940.

Condition of furnaces	Number of furnaces	Total Daily Capacity Long tons	Per cent
In blast.....	9	3,975	95
Banked.....	...	...	...
Blown out.....	31	300	7
Total Furnaces Reporting.....	10	4,275	100

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