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MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

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MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

AUGUST, 1940

PIG IRON - Production of pig iron in Canada at 88,885 tons in August was 7 per cent under the 95,924 tons made in the previous month and 35 per cent over the 65,920 tons reported for August, 1939. Figures for this month compared with those of July, show that basic iron dropped to 77,778 tons from 81,608 tons and foundry iron to 1,754 tons from 8,146 tons, while the malleable grade advanced to 9,353 tons from 6,170 tons.

Furnace charges for August included 157,897 tons of iron ore, 48,635 short tons of limestone and 75,527 short tons of coke. For the year to date, a total of 1,308,900 tons of ore, 366,085 short tons of limestone and 754,931 short tons of coke were charged to iron blast furnaces in Canada to make 734,436 tons of pig iron. The comparative production figure for the first eight months of a year ago was 422,028 tons.

FERRO-ALLOYS - During August, 9,697 tons of ferro-alloys were produced in Canada against 9,257 tons in the previous month and 3,313 tons in August of a year ago. The total for the current month included five different alloys, listed according to tonnage as follows: ferrosilicon, ferromanganese, silicomanganese, ferro-chrome and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Output of steel ingots and direct steel castings totalled 172,210 tons in August compared with 169,577 tons in July and 122,019 tons in the corresponding month of a year ago. This month's output included 166,879 tons of ingots and 5,331 tons of castings.

Cumulative output for the eight months ending August 31, 1940 amounted to 1,300,033 tons, the comparative figure for last year being 813,309 tons.

PRICES - Prices of iron and steel products in the Canadian market held from firm to higher during August. Most commodities remained unchanged but boiler plate rose 13 1/2 per cent and black steel sheets (Canadian and foreign) moved about 7 per cent above July. Interest in all lines of finished and semi-finished steel broadened, with demand for plates very heavy due to Canada's shipbuilding programme. The Dominion Bureau of Statistics index number of wholesale prices of Iron and Its Products on the base 1926=100 rose from 102.8 in July to 105.7 in August. No. 1 foundry pig iron delivered at Toronto remained at \$26.00 per gross ton.

PIG IRON PRODUCTION IN THE UNITED STATES - (From the "Iron Age") - In the United States the production of coke pig iron averaged 136,711 net tons a day during August. This output was 4.5 per cent over that in July and the third highest on record, being exceeded only by an output of 138,877 net tons daily in November of last year and by the record figure of 140,834 net tons in May, 1929. The operating

rate for the industry was 90.4 per cent against 86.3 per cent in July. Five furnaces were blown in and two taken off blast during the month.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING AUGUST and JULY, 1940 (Tons of 2,240 pounds)

	AUGUST, 1940			JULY, 1940		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	73,200	4,578	77,778	80,249	1,359	81,608
Foundry .....	...	9,353	9,353	...	6,170	6,170
Malleable .....	...	1,754	1,754	...	8,146	8,146
TOTAL	73,200	15,685	88,885	80,249	15,675	95,924
Ferro-alloys ...	...	9,697	9,697	...	9,257	9,257

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

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	599,434	19,196	618,630	370,896	14,283	385,179
Foundry	99	67,171	67,270	...	25,455	25,455
Malleable	52	48,484	48,536	...	11,394	11,394
TOTAL	599,585	134,851	734,436	370,896	51,132	422,028
Ferro-alloys ...	...	77,198	77,198	...	40,692	40,692

Table 3 - IRON BLAST FURNACE CHARGES DURING AUGUST and JULY, 1940 and EIGHT MONTHS ENDING AUGUST, 1940

	Unit	AUGUST	JUNE	EIGHT MONTHS
Iron ore	Long ton	157,897	181,360	1,308,900
Limestone	Short ton	48,635	50,727	366,085
Coke	Short ton	75,527	102,458	754,931

STEEL INGOTS AND CASTINGS

Table 4 - PRODUCTION DURING AUGUST and JULY, 1940 (Tons of 2,240 pounds)

	AUGUST			JULY		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic	150,465	4,762	155,227	148,861	4,646	153,507
Electric	11,652	...	11,652	10,994	...	10,994
Other .....	...	...	...	...	...	...
Total Steel Ingots	162,117	4,762	166,879	159,855	4,646	164,501
STEEL CASTINGS -						
Open hearth - Basic	245	905	1,150	233	893	1,126
Converter .....	...	123	123	...	126	126
Electric	1,323	2,735	4,058	1,241	2,583	3,824
Total Steel Castings ...	1,568	3,763	5,331	1,474	3,602	5,076
GRAND TOTAL	163,685	8,525	172,210	161,329	8,248	169,577

Table 5 - CUMULATIVE PRODUCTION FOR THE EIGHT MONTHS ending AUGUST, 1940 and 1939

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic	1,145,659	26,700	1,170,359	744,409	580	744,989
Electric	81,583	...	81,583	38,520	...	38,520
Other .....	...	...	...	...	...	...
Total Steel Ingots	1,225,242	26,700	1,251,942	782,929	580	783,509
STEEL CASTINGS -						
Open hearth - Basic	2,012	12,127	14,139	1,066	6,240	7,306
Converter .....	...	956	956	...	444	444
Electric	8,598	24,398	32,996	4,568	17,482	22,050
Total Direct Steel Castings	10,610	37,481	48,091	5,634	24,166	29,800
GRAND TOTAL	1,235,852	64,181	1,300,033	788,563	24,746	813,309

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	35	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
TOTAL - 8 MONTHS..	155	260	267	475	422	735	813	1,300
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	



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Table 8 - IRON BLAST FURNACES IN CANADA (Revised)

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 AUGUST, 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 - (1) Figures in this report are the latest available at time of printing.
Where necessary, data for earlier months have been revised.

(2) All tonnages quoted in this report are of 2,240 pounds unless otherwise specified.