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CENSUS OF INDUSTRY
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OTTAWA - CANADA

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MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

AUGUST, 1942

PIG IRON - Production of pig iron in Canada amounted to 162,578 tons in August as compared with 172,153 tons in the previous month and with 118,400 tons in August, 1941. The total for the current month included 135,997 tons of basic iron, 15,652 tons of foundry iron and 10,929 tons of malleable iron.

FERRO-ALLOYS - Output of ferro-alloys in August amounted to 15,961 tons compared with 16,718 tons in the previous month and with 18,301 tons in August of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferro-manganese, ferrochrome, chrom-X, spiegeleisen and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and steel castings during August totalled 248,868 tons compared with 256,560 tons in July of this year and with 227,075 tons made in August, 1941. Output in the month under review included 234,378 tons of ingots and 14,490 tons of castings. The average daily rate of output was 8,028 tons in August against 8,276 tons in July.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING AUGUST AND JULY, 1942

	<u>AUGUST, 1942</u>			<u>JULY, 1942</u>		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
	(Tons of 2,000 pounds)					
<u>PIG IRON -</u>						
Basic	135,197	800	135,997	143,902	2,850	146,752
Foundry .....	...	15,652	15,652	...	13,282	13,282
Malleable .....	...	10,929	10,929	...	12,119	12,119
TOTAL PIG IRON	135,197	27,381	162,578	143,902	28,251	172,153
Ferro-alloys .....	...	15,961	15,961	...	16,718	16,718

Table 2 - CUMULATIVE PRODUCTION FOR THE EIGHT MONTHS ENDED AUGUST, 1942 and 1941

	1 9 4 2			1 9 4 1		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
	(Tons of 2,000 pounds)					
PIG IRON -						
Basic	1,048,419	34,763	1,083,188	705,550	6,105	711,655
Foundry .....	...	110,834	110,834	...	69,098	69,098
Malleable .....	...	114,709	114,709	725	81,315	82,040
TOTAL PIG IRON ...	1,048,419	260,312	1,308,731	706,275	156,518	862,793
Ferro-alloys .....	...	140,522	140,522	...	136,338	136,538

Table 3 - IRON BLAST FURNACE CHARGES DURING AUGUST AND JULY, 1942 and EIGHT MONTHS ENDED AUGUST, 1942

	AUGUST, 1942	JULY, 1942	EIGHT MONTHS ENDED AUGUST, 1942
	(Tons of 2,000 pounds)		
Iron ore	298,782	302,221	2,362,894
Limestone	71,449	72,051	563,779
Coke	150,174	157,805	1,171,227
Scrap iron and steel	11,779	11,139	87,316

Table 4 - IRON BLAST FURNACES IN CANADA

Name of Company	Location of of furnaces	Number of stacks	Total Annual Capacity (Net tons)
Dominion Steel and Coal Corp. Ltd.	Sydney, N.S.	3	430,560
Canadian Furnace Limited	Port Colborne, Ont.	2	221,760
The Steel Company of Canada, Limited	Hamilton, Ont.	3	757,000
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	654,000
	TOTAL	12	2,123,320

Table 5 - DESCRIPTION OF IRON BLAST FURNACES AT END OF AUGUST, 1942

Condition of furnaces	Number of furnaces	Total Annual Capacity Net tons	Per cent
In blast	8	1,463,320	67
Banked (x)	4	654,000	33
Blown out .....	...	...	...
TOTAL FURNACES REPORTING	12	2,123,320	100

(x) Banked on last day of month because of strike.

(b) STEEL INGOTS AND STEEL CASTINGS

Table 6 - PRODUCTION DURING AUGUST AND JULY, 1942

	AUGUST, 1942			JULY, 1942		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
	(Tons of 2,000 pounds)					
<u>STEEL INGOTS -</u>						
Open hearth - Basic	206,615	466	207,081	212,114	3,522	215,636
Electric	23,385	3,912	27,297	21,577	3,692	25,269
Total Steel Ingots..	230,000	4,378	234,378	233,691	7,214	240,905
Alloy steel ingots included in above	35,179	102	35,281	33,143	102	33,245
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	120	1,810	1,930	120	2,032	2,152
Converter .....	...	509	509	...	505	505
Electric	5,072	6,979	12,051	5,513	7,485	12,998
Total Steel Castings..	5,192	9,298	14,490	5,633	10,022	15,655
Alloy steel castings	1,420	2,074	3,494	1,287	2,105	3,392
TOTAL INGOTS AND CASTINGS	235,192	13,676	248,868	239,324	17,236	256,560

Table 7 - CUMULATIVE PRODUCTION FOR THE EIGHT MONTHS ENDED AUGUST, 1942 and 1941

	1 9 4 2			1 9 4 1		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
	(Tons of 2,000 pounds)					
<u>STEEL INGOTS -</u>						
Open hearth - Basic	1,684,306	59,580	1,743,886	1,462,234	91,564	1,553,798
Electric	174,877	29,547	204,424	96,598	10,099	106,697
Total Steel Ingots ...	1,859,183	89,127	1,948,310	1,558,832	101,663	1,660,495
Alloy steel ingots included in above	218,982	1,041	220,023	...	...	...
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	1,750	15,492	17,242	2,000	16,343	18,343
Converter	43	3,295	3,338	...	1,630	1,630
Electric	37,907	57,869	95,776	15,848	38,000	53,848
Total Steel Castings..	39,700	76,656	116,356	17,848	55,973	73,821
Alloy steel castings included in above	11,423	13,781	25,204	...	...	...
TOTAL INGOTS AND CASTINGS	1,898,883	165,783	2,064,666	1,576,680	157,636	1,734,316



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Iron and Steel

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Table 8 - PIG IRON AND SCRAP CHARGED TO STEEL FURNACES

	AUGUST, 1942	JULY, 1942	EIGHT MONTHS ENDED AUGUST, 1942
	(Tons of 2,000 pounds)		
Pig iron	131,109	136,206	1,061,880
Scrap - Own make	76,709	72,328	591,849
Purchased	68,608	74,913	635,428

Table 9 - STEEL FURNACE CAPACITY AT END OF AUGUST, 1942

	Annual Capacity (Net tons)
Ingots - Basic open hearth	2,765,000
Electric	386,000
TOTAL INGOTS	3,151,000
Steel castings	251,000
TOTAL INGOTS AND CASTINGS	3,402,000