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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

Dominion Statistician:	S. A. Cudmore, M.A. (Oxon.), F.S.S., F.R.S.C.
Chief - Mining, Metallurgical and Chemical Branch:	W. H. Losee, B.Sc.
Statistician - Metal and Chemical Products:	H. McLeod, B.Sc.

MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

MARCH, 1943

PIG IRON - Production of pig iron in Canada amounted to 160,101 net tons in March compared with 167,116 tons in the corresponding month of last year. The total for the current month included 128,458 tons of basic iron, 11,600 tons of foundry iron and 20,043 tons of malleable iron.

FERRO-ALLOYS - Output of ferro-alloys in March amounted to 18,611 net tons compared with 16,356 tons in the previous month and with 20,261 tons in March 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 March totalled 270,962 net tons compared with 265,903 tons in March of last year. Output in the month under review included 254,207 tons of ingots and 16,755 tons of castings.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING MARCH AND FEBRUARY, 1943

	March, 1943			February, 1943		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<u>PIG IRON</u> -						
Basic	122,349	6,109	128,458	112,294	1,561	113,855
Foundry .....	...	11,600	11,600	...	^x 11,297	^x 11,297
Malleable .....	...	20,043	20,043	...	^x 13,088	^x 13,088
TOTAL PIG IRON	122,349	37,752	160,101	112,294	^x 25,946	^x 138,240
Ferro-alloys	18,611	18,611	...	16,356	16,356

x Revised.

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Table 2 - CUMULATIVE PRODUCTION FOR THE THREE MONTHS ENDED MARCH, 1943 and 1942

	1 9 4 3			1 9 4 2		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
PIG IRON -						
Basic	329,396	10,017	339,413	370,304	17,904	388,208
Foundry .....	...	31,868	31,868	...	44,920	44,920
Malleable .....	...	43,387	43,387	...	41,117	41,117
TOTAL PIG IRON	329,396	85,272	414,668	370,304	103,941	474,245
Ferro-alloys .....	...	50,298	50,298	...	55,623	55,623

Table 3 - IRON BLAST FURNACE CHARGES DURING MARCH AND FEBRUARY, 1943 AND THREE MONTHS ENDED MARCH, 1943

	March, 1943	February, 1943	Three Months Ended March, 1943
(Net tons of 2,000 pounds)			
Iron ore	289,708	244,941	754,001
Limestone	69,919	56,834	174,547
Coke	146,491	122,738	373,364
Scrap iron and steel	10,766	9,425	25,069

Table 4 - IRON BLAST FURNACES IN CANADA

Name of Company	Location of furnaces	Number of Stacks	Total Annual Capacity (Net tons)
Dominion Steel and Coal Corp. Ltd.	Sydney, N.S.	3	490,560
Canadian Furnace Limited	Port Colborne, Ont.	2	221,760
The Steel Company of Canada, Ltd.	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 MARCH, 1943

Condition of furnaces	Number of furnaces	Total Annual Capacity Net tons	Per cent
In blast	11	1,980,240	93.3
Banked .....	...	...	...
Blown out	1	143,080	6.7
TOTAL	12	2,123,320	100.0

(b) STEEL INGOTS AND STEEL CASTINGS

Tabl3 6 - PRODUCTION DURING MARCH AND FEBRUARY, 1943

	March, 1943			February, 1943		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<u>STEEL INGOTS -</u>						
Open hearth - Basic	222,589	999	223,588	203,126	547	203,673
Electric	26,599	4,020	30,619	24,525	3,333	27,858
Total Steel Ingots ...	249,188	5,019	254,207	227,651	3,880	231,531
Alloy steel ingots included in above	35,763	...	35,763	26,783	88	26,871
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	145	2,551	2,696	136	2,157	2,293
Converter .....	...	479	479	...	350	350
Electric	6,360	7,020	13,380	4,895	6,519	11,414
Total Steel Castings..	6,705	10,050	16,755	5,031	9,026	14,057
Alloy steel castings included in above	2,347	2,486	4,833	1,650	2,655	4,305
TOTAL INGOTS AND CASTINGS	255,893	15,069	270,962	232,682	12,906	245,588

Table 7 - CUMULATIVE PRODUCTION FOR THE THREE MONTHS ENDED MARCH, 1943 and 1942

	1 9 4 3			1 9 4 2		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<u>STEEL INGOTS -</u>						
Open hearth - Basic	590,790	1,790	592,580	614,048	42,643	656,691
Electric	74,523	10,279	84,802	59,810	11,166	70,976
Total Steel Ingots ...	665,313	12,069	677,382	673,858	53,809	727,667
Alloy steel ingots included in above	91,515	88	91,603	69,514	548	70,062
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	357	6,928	7,285	928	5,341	6,269
Converter .....	...	1,134	1,134	...	1,080	1,080
Electric	17,149	20,608	37,757	11,726	21,098	32,824
Total Steel Castings..	17,506	28,670	46,176	12,654	27,519	40,173
Alloy steel castings included in above	4,769	7,412	12,181	4,526	4,494	9,020
TOTAL INGOTS AND CASTINGS	682,819	40,739	723,558	686,512	81,328	767,840

Table 8 - PIG IRON AND SCRAP CHARGED TO STEEL FURNACES

	March, 1943	February, 1943	Three months ended February, 1943
(Net tons of 2,000 pounds)			
Pig iron	137,576	124,807	361,212
Scrap - own make	82,821	72,967	219,876
purchased	78,764	73,618	221,590



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Table 9 - STEEL FURNACE CAPACITY AT END OF MARCH, 1943

	Annual Capacity
	(Net tons)
Ingots - Basic open hearth	2,765,000
Electric	407,000
TOTAL INGOTS	3,172,000
Steel castings	278,650
TOTAL INGOTS AND CASTINGS	3,450,650