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

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MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

MAY, 1943

PIG IRON - Production of pig iron in Canada amounted to 154,746 net tons in May compared with 171,386 tons in the corresponding month of last year. The total for the current month included 124,315 tons of basic iron, 15,505 tons of foundry iron and 14,926 tons of malleable iron.

FERRO-ALLOYS - Output of ferro-alloys in May amounted to 17,971 net tons compared with 18,698 net tons in the previous month and with 19,428 tons in May of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferromanganese, ferrochrome, chrom-x, spiegeleisen and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and steel castings during May totalled 271,737 net tons compared with 272,247 tons in May of last year. Output in the month under review included 259,289 tons of ingots and 12,448 tons of castings.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING MAY AND APRIL, 1943

	May, 1943			April, 1943		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<u>PIG IRON</u> -						
Basic	118,415	5,900	124,315	121,877	5,000	126,877
Foundry .....	...	15,505	15,505	...	10,170	10,170
Malleable .....	...	14,926	14,926	...	13,439	13,439
TOTAL PIG IRON	118,415	36,331	154,746	121,877	28,609	150,486
Ferro-alloys .....	...	17,971	17,971	...	18,698*	18,698*

* Revised.

Iron and Steel

Table 2 - CUMULATIVE PRODUCTION FOR THE FIVE MONTHS ENDED MAY, 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	569,688	20,917	590,605	639,886	27,183	667,069
Foundry	-	57,543	57,543	-	64,215	64,215
Malleable	-	71,752	71,752	-	74,755	74,755
TOTAL PIG IRON	569,688	150,212	719,900	639,886	166,153	806,039
Ferro-alloys	-	93,642*	93,642*	-	93,179	93,179

* Revised.

Table 3 - IRON BLAST FURNACE CHARGES DURING MAY AND APRIL, 1943 AND FIVE MONTHS ENDED MAY, 1943

	May, 1943	April, 1943	Five Months Ended May, 1943
(Net tons of 2,000 pounds)			
Iron ore	280,972	277,566	1,312,539
Limestone	67,303	69,423	311,273
Coke	140,484	137,744	651,692
Scrap iron and steel	11,182	10,047	46,298

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 MAY, 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

Table 6 - PRODUCTION DURING MAY AND APRIL, 1943

	May, 1943			April, 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	223,563	1,547	225,110	217,993	1,401	219,394
Electric	30,843	3,336	34,179	28,565	3,501	32,066
Total Steel Ingots	254,406	4,883	259,289	246,558	4,902	251,460
Alloy steel ingots included in above	37,833	-	37,833	34,322	-	34,322
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	123	2,461	2,584	127	2,309	2,436
Converter	-	433	433	-	377	377
Electric	3,371	6,060	9,431	2,999	7,085	10,084
Total Steel Castings ...	3,494	8,954	12,448	3,126	9,771	12,897
Alloy steel castings included in above	433	1,488	1,921	392	2,381	2,773
TOTAL INGOTS AND CASTINGS	257,900	13,837	271,737	249,684	14,673	264,357

Table 7 - CUMULATIVE PRODUCTION FOR THE FIVE MONTHS ENDED MAY, 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 ...	1,032,346	4,738	1,037,084	1,060,460	48,728	1,109,188
Electric	133,931	17,116	151,047	106,946	18,055	125,001
Total Steel Ingots ..	1,166,277	21,854	1,188,131	1,167,406	66,783	1,234,189
Alloy steel ingots included in above ...	163,670	88	163,758	120,727	722	121,449
<u>STEEL CASTINGS -</u>						
Open hearth - Basic ...	607	11,698	12,305	1,388	9,480	10,868
Converter	-	1,944	1,944	22	1,814	1,836
Electric	23,519	33,753	57,272	22,144	36,038	58,182
Total Steel Castings	24,126	47,395	71,521	23,554	47,332	70,886
Alloy steel castings included in above ...	5,594	11,281	16,875	7,454	7,731	15,185
TOTAL INGOTS AND CASTINGS	1,190,403	69,249	1,259,652	1,190,960	114,115	1,305,075

Table 8 - PIG IRON AND SCRAP CHARGED TO STEEL FURNACES

	May, 1943	April, 1943	Five Months Ended May, 1943
(Net tons of 2,000 pounds)			
Pig iron	136,511	135,834	633,557
Scrap - own make	88,692	82,412	391,010
purchased	74,477	70,517	366,584



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Iron and SteelTable 9 - STEEL FURNACE CAPACITY AT END OF MAY, 1943

	Annual Capacity
	(Net tons)
Ingots - Basic open hearth	2,765,000
Electric	407,000
TOTAL INGOTS	3,172,000
Steel castings	281,600
TOTAL INGOTS AND CASTINGS	3,453,600