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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

FEBRUARY, 1945

PIG IRON - Production of pig iron in Canada amounted to 149,487 net tons in February compared with 141,878 tons in the corresponding month of last year. The total for the current month included 126,637 tons of basic iron, 9,403 tons of foundry iron and 13,447 tons of malleable iron.

FERRO-ALLOYS - Output of ferro-alloys in February amounted to 13,402 net tons compared with 12,130 tons in the previous month and with 14,720 tons in February of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferromanganese, ferrochrome, chrom-x and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and steel castings during February totalled 250,464 net tons compared with 229,852 tons in February of last year. Output in the month under review included 235,602 tons of ingots and 14,862 tons of castings.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING FEBRUARY AND JANUARY, 1945

	February, 1945			January, 1945		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<u>PIG IRON -</u>						
Basic .....	118,457	8,180	126,637	122,002	5,396	127,398
Foundry .....	-	9,403	9,403	-	13,594	13,594
Malleable .....	-	13,447	13,447	-	14,977	14,977
TOTAL PIG IRON .....	118,457	31,030	149,487	122,002	33,967	155,969
<u>FERRO-ALLOYS</u> .....	-	13,402	13,402	-	12,130	12,130

Table 2 - CUMULATIVE PRODUCTION FOR THE TWO MONTHS ENDED FEBRUARY 1945 and 1944

	1 9 4 5			1 9 4 4		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<u>PIG IRON -</u>						
Basic .....	240,459	13,576	254,035	200,664	11,779	212,443
Foundry .....	-	22,997	22,997	-	29,285	29,285
Malleable .....	-	28,424	28,424	-	32,278	32,278
TOTAL PIG IRON .....	240,459	64,997	305,456	200,664	73,342	274,006
<u>FERRO-ALLOYS</u> .....	-	25,532	25,532	-	31,215	31,215

Table 3 - IRON BLAST FURNACE CHARGES DURING FEBRUARY AND JANUARY, 1945 AND TWO MONTHS ENDED FEBRUARY, 1945.

	February 1945	January 1945	Two Months Ended February, 1945
(Net tons of 2,000 pounds)			
Iron ore .....	267,124	284,231	551,355
Mill cinder, scale, sinter, etc.	20,333	19,868	40,201
Limestone .....	58,949	60,475	119,424
Dolomite .....	6,167	6,580	12,747
Coke .....	134,699	144,237	278,936
Scrap iron and steel .....	5,678	6,450	12,128

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.	4	730,000
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.	5	1,062,000
TOTAL .....		14	2,770,760

Table 5 - DESCRIPTION OF IRON BLAST FURNACES AT END OF FEBRUARY, 1945

Condition of furnaces	Number of furnaces	Total Annual Capacity Net tons	Per cent
In blast .....	9	2,201,700	79.4
Banked .....	"	"	"
Blown out .....	5	569,060	20.6
TOTAL .....	14	2,770,760	100.0

(b) STEEL INGOTS AND STEEL CASTINGS

Table 6 - PRODUCTION DURING FEBRUARY AND JANUARY, 1945

	February, 1945			January, 1945		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
STEEL INGOTS -						
Open hearth - Basic .....	198,769	885	199,654	219,284	1,170	220,454
Electric .....	32,638	3,310	35,948	31,152	2,068	33,220
Total Steel Ingots .....	231,407	4,195	235,602	250,436	3,238	253,674
Alloy steel ingots included in above .....	38,730	-	38,730	37,730	-	37,730



(b) STEEL INGOTS AND STEEL CASTINGS - Continued

Table 6 - PRODUCTION DURING FEBRUARY AND JANUARY, 1945

	February, 1945			January, 1945		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<b>STEEL CASTINGS -</b>						
Open hearth - Basic .....	116	2,635	2,751	135	2,857	2,992
Converter .....	3	42	45	3	51	54
Electric .....	5,796	6,270	12,066	5,577	6,425	12,002
Total Steel Castings .....	5,915	8,947	14,862	5,715	9,333	15,048
Alloy steel castings included in above .....	399	1,664	2,063	870	1,314	2,184
TOTAL INGOTS AND CASTINGS .....	237,322	13,142	250,464	256,151	12,571	268,722

Table 7 - CUMULATIVE PRODUCTION FOR THE TWO MONTHS ENDED FEBRUARY, 1945 and 1944

	1 9 4 5			1 9 4 4		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<b>STEEL INGOTS -</b>						
Open hearth - Basic .....	418,053	2,055	420,108	387,923	684	388,607
Electric .....	63,790	5,378	69,168	57,256	28	57,284
Total Steel Ingots .....	481,843	7,433	489,276	445,179	712	445,891
Alloy steel ingots included in above .....	76,460	-	76,460	46,628	-	46,628
<b>STEEL CASTINGS -</b>						
Open hearth - Basic .....	251	5,492	5,743	231	6,265	6,496
Converter .....	6	93	99	-	340	340
Electric .....	11,373	12,695	24,068	5,583	13,728	19,311
Total Steel Castings .....	11,630	18,280	29,910	5,814	20,333	26,147
Alloy steel castings included in above .....	1,269	2,978	4,247	788	3,626	4,414
TOTAL INGOTS AND CASTINGS .....	493,473	25,713	519,186	450,993	21,045	472,038

Table 8 - PIG IRON AND SCRAP CHARGED TO STEEL FURNACES

	February 1945	January 1945	Two Months Ended February, 1945
(Net tons)			
Pig iron .....	121,534	133,114	254,648
Scrap - Own make .....	82,247	85,743	167,990
Purchased .....	73,335	76,006	149,341



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Table 9 - STEEL FURNACE CAPACITY AT END OF FEBRUARY, 1945

	Annual Capacity
	(Net tons)
Ingots - Basic open hearth .....	2,785,400
Electric .....	573,200
Total Ingots .....	3,358,600
Steel castings .....	264,800
TOTAL INGOTS AND CASTINGS .....	3,623,400

Table 10 - MONTHLY PRODUCTION OF PIG IRON, FERRO-ALLOYS AND STEEL, 1944 and 1945

Month	Pig iron	Ferro- alloys	S t e e l		
			Ingots	Castings	Total steel
			(Net tons of 2,000 pounds)		
<u>1944</u>					
January .....	132,128	16,495	229,324	12,862	242,186
February .....	141,878	14,720	216,567	13,285	229,852
March .....	168,047	13,427	261,171	14,368	275,539
April .....	170,364	12,818	250,157	10,668	260,825
May .....	175,207	15,876	251,463	11,968	263,431
June .....	161,899	17,906	228,774	11,976	240,750
July .....	166,004	14,508	224,774	9,644	234,418
August .....	151,452	18,808	235,556	11,199	246,755
September .....	145,406	14,568	231,292	11,433	242,725
October .....	154,119	15,631	263,263	12,261	275,524
November .....	146,972	15,280	256,504	12,419	268,923
December .....	139,152	12,391	229,562	13,920	243,482
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TOTAL, 1944 .....	1,852,628	182,428	2,878,407	146,003	3,024,410
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<u>1945</u>					
January .....	155,969	12,130	253,674	15,048	268,722
February .....	149,487	13,402	235,602	14,862	250,464
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TOTAL TWO MONTHS ....	305,456	25,532	489,276	29,910	519,186