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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

JUNE, 1942

PIG IRON - Production of pig iron in Canada during June totalled 167,961 net tons compared with 171,386 tons made in the previous month and 125,790 tons in June of a year ago. The total for the current month included 133,370 tons of basic iron, 17,685 tons of foundry iron and 16,906 tons of malleable iron. Stocks of pig iron held by the producers at the end of June amounted to 48,042 tons.

FERRO-ALLOYS - Output of ferro-alloys in June amounted to 14,664 net tons compared with 19,428 tons in the previous month and with 16,463 tons in June of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferro-manganese, ferrochrome, ferrochrome silicon, chrom-X, spiegeleisen and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and steel castings during June totalled 254,163 net tons compared with 272,247 tons made in May of this year and with 209,622 tons made in June, 1941. Output in the month under review included 238,838 tons of ingots and 15,325 tons of castings. Steel furnaces operated at about 95 per cent of capacity during the month. The daily rate of output was 8,472 tons in June against 8,782 tons in May.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING JUNE AND MAY, 1942

	JUNE, 1942			MAY, 1942		
	For own use	For sale	TOTAL	For sale use	For sale	TOTAL
	(Net tons of 2,000 pounds)					
<u>PIG IRON</u> -						
Basic .....	129,434	3,936	133,370	138,737	4,964	143,701
Foundry .....	...	17,685	17,685	...	9,616	9,616
Malleable .....	...	16,906	16,906	...	18,069	18,069
TOTAL PIG IRON .....	129,434	38,527	167,961	138,737	32,649	171,386
Ferro-alloys .....	...	14,664	14,664	...	19,428	19,428

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Table 2 - CUMULATIVE PRODUCTION FOR THE SIX MONTHS ENDED JUNE, 1942 and 1941

	1942			1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
	(Net tons of 2,000 pounds)					
PIG IRON -						
Basic .....	769,320	31,119	800,439	583,636	6,105	589,741
Foundry .....	...	81,900	81,900	...	53,629	53,629
Malleable .....	...	91,661	91,661	725	56,522	57,247
TOTAL PIG IRON ...	769,320	204,680	974,000	584,361	116,256	700,617
Ferro-alloys .....	...	107,843	107,843	...	98,426	98,426

Table 3 - IRON BLAST FURNACE CHARGES DURING JUNE AND MAY, 1942 and SIX MONTHS ENDED MAY, 1942

	JUNE, 1942	MAY, 1942	SIX MONTHS ENDED JUNE, 1942
	(Net tons of 2,000 pounds)		
Iron ore .....	297,465	309,055	1,761,891
Limestone .....	71,900	74,463	420,279
Coke .....	149,902	150,322	863,248
Scrap iron and steel ....	14,063	11,883	64,338

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, 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 JUNE, 1942

Condition of furnaces	Number of furnaces	Total Annual Capacity Net tons	Per cent
In blast .....	12	2,123,320	100
Banked .....	...	...	...
Blown out .....	...	...	...
TOTAL FURNACES REPORTING .....	12	2,123,320	100

## (b) STEEL INGOTS AND STEEL CASTINGS

Table 6 - PRODUCTION DURING JUNE AND MAY, 1942

	JUNE, 1942			MAY, 1942		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
	(Net tons of 2,000 pounds)					
STEEL INGOTS -						
Open hearth - Basic ....	205,117	6,864	211,981	228,027	1,833	299,860
Electric .....	22,969	3,888	26,857	23,096	3,718	26,814
Total Steel Ingots ...	228,086	10,752	238,838	251,123	5,551	256,674
Alloy steel ingots included in above .....	29,933	115	30,048	26,530	101	26,631

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Table 6 - PRODUCTION DURING JUNE AND MAY, 1942 (Concluded)

	JUNE, 1942			MAY, 1942		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Net tons of 2,000 pounds)						
<u>STEEL CASTINGS -</u>						
Open hearth - Basic .....	122	2,170	2,292	208	2,051	2,259
Converter .....	21	467	488	22	338	360
Electric .....	5,178	7,367	12,545	5,256	7,698	12,954
Total Steel Castings..	5,245	10,080	15,325	5,486	10,087	15,573
Alloy steel castings included in above .....	1,262	1,871	3,133	1,237	1,859	3,096
TOTAL INGOTS AND CASTINGS	233,331	20,832	254,163	256,609	15,638	272,247

Table 7 - CUMULATIVE PRODUCTION FOR THE SIX MONTHS ENDED JUNE, 1942 and 1941

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	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 ....	1,265,577	55,592	1,321,169	1,035,614	64,359	1,159,973
Electric .....	129,915	21,943	151,858	70,543	3,032	73,575
Total Steel Ingots ....	1,395,492	77,535	1,473,027	1,166,157	67,391	1,233,548
Alloy steel ingots included in above ....	150,660	837	151,497	Not available		
<u>STEEL CASTINGS -</u>						
Open hearth - Basic ....	1,510	11,650	13,160	1,483	11,708	13,191
Converter .....	43	2,281	2,324	...	1,170	1,170
Electric .....	27,322	43,405	70,727	11,595	26,742	38,337
Total Steel Castings ..	28,875	57,336	86,211	13,078	39,620	52,698
Alloy steel castings included in above ....	8,716	9,602	18,318	Not available		
TOTAL INGOTS AND CASTINGS	1,424,367	134,871	1,559,238	1,179,235	107,011	1,286,246

Table 8 - PIG IRON AND SCRAP CHARGED TO STEEL FURNACES

	JUNE, 1942	MAY, 1942	SIX MONTHS ENDED JUNE, 1942
(Net tons of 2,000 pounds)			
Pig iron .....	131,444	133,732	794,565
Scrap - Own make .....	81,386	77,230	442,812
Purchased .....	68,426	83,442	491,907

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

	Annual Capacity
	(Net tons)
Ingots - Basic open hearth .....	2,667,000
Electric .....	386,000
TOTAL INGOTS .....	3,053,000
Steel castings .....	215,000
TOTAL INGOTS AND CASTINGS .....	3,268,000



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