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

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MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

OCTOBER, 1941

PIG IRON - Production of pig iron in October totalled 137,114 tons compared with 111,757 tons in the previous month and with 109,385 tons in October of last year. The total this month included 114,597 tons of basic iron, 11,717 tons of foundry iron and 10,800 tons of malleable iron.

Blast furnace charges during October included 245,377 tons of iron ore, 66,074 short tons of limestone and 134,806 short tons of coke. For the year to date, a total of 1,910,772 tons of ore, 512,981 tons of limestone and 1,076,620 tons of coke were charged to iron furnaces in Canada to make 1,082,222 tons of pig iron. During the first ten months of last year the output of pig iron amounted to 948,841 tons.

FERRO-ALLOYS - Output of ferro alloys in October amounted to 16,809 tons compared with 16,912 tons for last month and with 15,016 tons for October, 1940. This month's total was made up of the following alloys listed in order of tonnage made: ferrosilicon, ferrochrome, silicomanganese, spiegeleisen, ferromanganese, ferrochrome silicon, calcium silicon, and silicospiegel.

STEEL INGOTS AND STEEL CASTINGS - Production of steel ingots and steel castings totalled 222,853 tons in October compared with 200,559 tons in the previous month and with 185,091 tons in October of a year ago. This month's total included 211,309 tons of steel ingots and 11,544 tons of steel castings.

During the first ten months of this year, the cumulative production of steel amounted to 1,971,903 tons, this representing an increase of 19.5 per cent over the total of 1,649,639 tons made in the corresponding period last year.

PRODUCTION IN THE UNITED STATES - (From the "Iron Age") - In the United States the tonnage of pig iron made during October was 2.7 per cent greater than in September, although on a daily basis the output decreased to 156,665 net tons from 157,230 tons. The rate of operations decreased to 97.9 per cent of capacity from 98.8 per cent in September.

Steel production in the United States during October exceeded that of any previous month. In establishing this new record, the industry operated at an average of 99.0 per cent of capacity.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING OCTOBER AND SEPTEMBER, 1941

	OCTOBER, 1941			SEPTEMBER, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Tons of 2,240 pounds)						
PIG IRON -						
Basic .....	111,400	3,197	114,597	86,586	6,186	92,772
Foundry .....	...	11,717	11,717	...	7,167	7,167
Malleable .....	...	10,800	10,800	...	11,818	11,818
TOTAL PIG IRON ...	111,400	25,714	137,114	86,586	25,171	111,757
Ferro-alloys .....	...	16,809	16,809	...	16,912	16,912

Table 2 - CUMULATIVE PRODUCTION FOR THE TEN MONTHS ENDING OCTOBER, 1941 and 1940

	1 9 4 1			1 9 4 0		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Tons of 2,240 pounds)						
PIG IRON -						
Basic .....	890,941	14,834	905,775	760,496	29,590	790,086
Foundry .....	...	80,579	80,579	99	88,072	88,171
Malleable .....	647	95,221	95,868	52	70,532	70,584
TOTAL PIG IRON ...	891,588	190,634	1,082,222	760,647	188,194	948,841
Ferro-alloys .....	...	155,451	155,451	...	105,361	105,361

Table 3 - IRON BLAST FURNACE CHARGES DURING OCTOBER AND TEN MONTHS ENDING OCTOBER, 1941

Unit		OCTOBER, 1941	SEPTEMBER, 1941	TEN MONTHS ending OCTOBER, 1941
Iron ore .....	Long tons	245,377	200,308	1,910,772
Limestone .....	Short tons	66,074	52,681	512,981
Coke .....	Short tons	134,806	112,362	1,076,620

(b) STEEL INGOTS AND STEEL CASTINGS

Table 4 - PRODUCTION DURING OCTOBER AND SEPTEMBER, 1941 (Tons of 2,240 pounds)

	OCTOBER, 1941			SEPTEMBER, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic .....	186,266	7,378	193,644	167,347	6,039	173,386
Electric .....	13,452	4,213	17,665	12,441	4,519	16,960
Total Steel Ingots .....	199,718	11,591	211,309	179,788	10,558	190,346
STEEL CASTINGS -						
Open hearth - Basic .....	296	1,985	2,281	226	2,263	2,489
Converter .....	...	316	316	...	216	216
Electric .....	2,912	6,035	8,947	1,824	5,684	7,508
Total Steel Castings .....	3,208	8,336	11,544	2,050	8,163	12,213
TOTAL INGOTS AND CASTINGS..	202,926	19,927	222,853	181,838	18,721	200,559



# Iron and Steel

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Table 5 - CUMULATIVE PRODUCTION FOR THE TEN MONTHS ENDING OCTOBER, 1941 and 1940

	1	9	4	1	1	9	4	0
	For own	For			For own	For		
	use	sale	TOTAL		use	sale	TOTAL	
	(Tons of 2,240 pounds)							
<b>STEEL INGOTS -</b>								
Open hearth - Basic ....	1,659,179	95,171	1,754,350		1,448,357	39,198	1,487,555	
Electric .....	112,141	17,749	129,890		103,043	...	103,043	
Total Steel Ingots ...	1,771,320	112,920	1,884,240		1,551,400	39,198	1,590,598	
<b>STEEL CASTINGS -</b>								
Open hearth - Basic ....	2,308	18,840	21,148		2,475	14,121	16,596	
Converter .....	...	1,987	1,987		...	1,218	1,218	
Electric .....	18,886	45,648	64,634		11,388	29,839	41,227	
Total Steel Castings..	21,194	66,475	87,669		13,863	45,178	59,041	
<b>TOTAL INGOTS AND CASTINGS</b>	1,792,514	179,395	1,971,909		1,565,263	84,376	1,649,639	

Table 6 - AVERAGE MONTHLY PRODUCTION OF PIG IRON, STEEL INGOTS AND CASTINGS IN CANADA, 1916 - 1939 (In 1000's of long tons)

Year	Monthly Average		Year	Monthly Average	
	Iron	Steel		Iron	Steel
1916 .....	87	106	1928 .....	86	103
1917 .....	87	130	1929 .....	90	115
1918 .....	89	139	1930 .....	62	84
1919 .....	68	77	1931 .....	35	56
1920 .....	81	92	1932 .....	12	28
1921 .....	50	56	1933 .....	19	34
1922 .....	32	40	1934 .....	34	63
1923 .....	73	73	1935 .....	50	78
1924 .....	49	55	1936 .....	57	93
1925 .....	48	63	1937 .....	75	117
1926 .....	63	65	1938 .....	59	96
1927 .....	59	75	1939 .....	63	115

Table 7 - PRODUCTION OF PIG IRON, BY MONTHS AND BY PROVINCES, and STEEL INGOTS AND CASTINGS, BY MONTHS, 1940 and 1941 (In 1000's of long tons)

	P I G		I R O N		S T E E L	
	NOVA SCOTIA		ONTARIO		TOTAL CANADA	
	1940	1941	1940	1941	1940	1941
January .....	34	36	71	67	105	103
February .....	23	29	64	62	87	91
March .....	34	33	58	69	92	102
April .....	31	34	53	69	84	103
May .....	37	34	56	80	93	114
June .....	33	31	56	81	89	112
July .....	34	28	62	74	96	102
August .....	34	23	55	83	89	106
September .....	32	24	73	88	105	112
October .....	35	32	74	105	109	137
TOTAL - 10 MONTHS ...	327	304	622	778	949	1,082
November .....	33		77		110	
December .....	35		75		110	
TOTAL .....	395		774		1,169	2,012



Table 8 - IRON BLAST FURNACES IN CANADA

Name of Company	Location of furnace	Number of stacks	Total Daily Capacity (Long tons)
Dominion Steel and Coal Corp. Ltd.	Sydney, N.S.	3	1,200
Canadian Furnace Limited	Port Colborne, Ont.	1	350
The Steel Company of Canada, Ltd.	Hamilton, Ont.	3	1,825
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	1,600

Table 9 - DESCRIPTION OF FURNACES AT END OF OCTOBER, 1941

Condition of Furnaces	Number of furnaces	Total Daily Capacity Long tons	Per cent
In blast .....	10	4,675	94.0
Banked .....	...	...	...
Blown out .....	1(x)	300	6.0
TOTAL FURNACES REPORTING .....	11	4,975	100.0

(x) This furnace has not operated for some years.

NOTE: Figures in this report are the latest available at time of printing. Where necessary, data for earlier months have been revised.

Unless otherwise specified, a ton equals 2,240 pounds.