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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

NOVEMBER, 1941

PIG IRON - Production of pig iron in November totalled 133,735 gross tons compared with 137,114 tons in the previous month and with 109,576 tons in November of last year. The total for this month included 111,619 tons of basic iron, 12,456 tons of foundry iron and 9,660 tons of malleable iron.

Blast furnace charges during November included 243,073 gross tons of iron ore, 65,795 net tons of limestone and 135,981 net tons of coke. For the year to date, a total of 2,153,850 gross tons of ore, 578,776 net tons of limestone and 1,212,601 net tons of coke were charged to iron blast furnaces in Canada to make 1,215,957 gross tons of pig iron. In the first eleven months of last year the output of pig iron amounted to 1,058,417 tons.

FERRO-ALLOYS - The output of ferro-alloys in November totalled 17,078 gross tons compared with 16,809 tons in the previous month and 11,654 tons in November of last year. This month's total was made up of the following alloys - ferrosilicon, ferrochrome, silicomanganese, ferromanganese, ferrochrome silicon, silicospiegel and ferrophosphorus.

STEEL INGOTS AND STEEL CASTINGS - Production of steel ingots and steel castings totalled 221,367 gross tons in November compared with 222,853 tons in the previous month and with 176,113 tons in November of a year ago. This month's total included 209,801 tons of steel ingots and 11,566 tons of steel castings.

For this year to the end of November, the output of steel amounted to 2,193,276 tons compared with 1,825,752 tons in the corresponding period of last year.

PRODUCTION IN THE UNITED STATES - (From the "Iron Age") - In the United States the output of pig iron on a daily basis increased slightly to 156,764 net tons from 156,655 net tons per day in October. The operating rate in November was 97.7 per cent of capacity. Steel furnaces operated at about 97 per cent of capacity during November when 6,969,987 net tons of steel were produced.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING NOVEMBER AND OCTOBER, 1941

	NOVEMBER, 1941			OCTOBER, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Tons of 2,240 pounds)						
PIG IRON -						
Basic	106,133	5,486	111,619	111,400	3,197	114,597
Foundry .....	...	12,456	12,456	...	11,717	11,717
Malleable .....	...	9,660	9,660	...	10,800	10,800
TOTAL PIG IRON	106,133	27,602	133,735	111,400	25,714	137,114
Ferro-alloys .....	...	17,078	17,078	...	16,809	16,809

Table 2 - CUMULATIVE PRODUCTION FOR THE ELEVEN MONTHS ENDING NOVEMBER 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	997,074	20,320	1,017,394	841,071	31,957	873,028
Foundry .....	...	93,035	93,035	99	102,639	102,738
Malleable	647	104,381	105,528	104	82,547	82,651
TOTAL PIG IRON ..	997,721	218,236	1,215,957	841,274	217,143	1,058,417
Ferro-alloys .....	...	173,530	173,530	...	117,015	117,015

Table 3 - IRON BLAST FURNACE CHARGES DURING NOVEMBER AND ELEVEN MONTHS ENDING NOVEMBER, 1941

		NOVEMBER 1941	OCTOBER 1941	ELEVEN MONTHS ENDING NOVEMBER, 1941
Unit				
Iron ore	Long tons	243,078	245,377	2,153,850
Limestone	Short tons	65,795	66,074	578,776
Coke	Short tons	135,981	134,806	1,312,601

(b) STEEL INGOTS AND STEEL CASTINGS

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

	NOVEMBER, 1941			OCTOBER, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic	182,160	9,154	191,314	186,266	7,378	193,644
Electric	15,649	2,338	18,487	15,452	4,213	17,665
Total Steel Ingots	197,809	11,992	209,801	199,718	11,591	211,309
STEEL CASTINGS -						
Open hearth - Basic	251	2,393	2,644	296	1,985	2,281
Converter .....	...	322	322	...	316	316
Electric	2,865	5,735	8,600	2,912	6,035	8,947
Total Steel Castings	3,116	8,450	11,566	3,208	8,336	11,544
TOTAL INGOTS AND CASTINGS ..	200,925	20,442	221,367	202,926	19,927	222,853

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Table 5 - CUMULATIVE PRODUCTION FOR THE ELEVEN MONTHS ENDING NOVEMBER 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)						
STEEL INGOTS -						
Open hearth - Basic	1,841,339	104,325	1,945,664	1,602,668	45,689	1,648,357
Electric	127,790	20,587	148,377	112,844	...	112,844
Total Steel Ingots ...	1,969,129	124,912	2,094,041	1,715,512	45,689	1,761,201
STEEL CASTINGS -						
Open hearth - Basic	2,559	21,235	23,792	2,720	15,227	17,947
Converter .....	...	2,309	2,309	...	1,495	1,495
Electric	21,751	51,383	73,134	12,570	32,539	45,109
Total Steel Castings..	24,310	74,925	99,235	15,290	49,261	64,551
TOTAL INGOTS AND CASTINGS	1,993,439	199,837	2,193,276	1,730,802	94,950	1,825,752

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	
	Pig Iron	Steel		Pig 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		TOTAL CANADA	
	1940	1941	1940	1941	1940	1941	1940	1941
January	34	36	71	67	105	103	167	186
February	23	29	64	62	87	91	140	173
March	34	33	58	69	92	102	157	195
April	31	34	53	69	84	103	153	201
May	37	34	56	80	93	114	175	206
June	33	31	56	81	89	112	166	187
July	34	23	62	74	96	102	170	197
August	34	23	55	83	89	106	172	203
September	32	24	73	88	105	112	165	201
October	35	32	74	105	109	137	185	223
November	33	35	77	101	110	134	176	221
TOTAL - 11 MONTHS ...	360	337	699	879	1,059	1,216	1,826	2,193
December	35	...	75	...	110	...	186	...
TOTAL	395	...	774	...	1,169	...	2,012	...



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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.