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DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA - CANADA

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UNLESS SPECIFIED ALL TONNAGES ARE 2,240 POUNDS

MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

OCTOBER, 1940

Canadian steel furnaces operating at 92½ per cent of capacity established a new record for the industry at 185,091 tons in October. About 93 per cent of Canada's iron furnace capacity was in blast during the month and the 109,385 tons of pig iron made was only surpassed by the 112,528 tons reported for August, 1929.

PIG IRON - Production of pig iron in October totalled 109,385 tons compared with 105,020 tons in the previous month and 85,758 tons in October of last year. This month's total included 84,617 tons of basic iron, 13,368 tons of foundry iron and 11,400 tons of malleable iron.

Blast furnace charges during October included 201,287 tons of iron ore, 55,659 short tons of limestone and 114,518 tons of coke. For the year to date, a total of 1,705,789 tons of ore, 473,623 tons of limestone and 998,982 tons of coke were charged to iron furnaces in Canada to make 948,841 tons of pig iron. The comparative total for a year ago was 573,740 tons.

FERRO-ALLOYS - Output of ferro-alloys in October amounted to 15,016 tons compared with 13,147 tons in September and 6,357 tons in October, 1939. This month's total was made up of the following five alloys, listed according to the tonnage made: ferrosilicon, ferromanganese, ferrochrome, silicomanganese and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and steel castings totalled 185,091 tons in October compared with 164,515 tons in the previous month and 149,890 tons made in October of a year ago. This month's total included 179,137 tons of ingots and 5,954 tons of castings.

Cumulative output of steel for the first ten months of this year amounted to 1,649,639 tons against 1,087,583 tons made during the ten months ending October, 1939.

PRICES - Canadian prices of iron and steel products held firm to higher in October and an index moved up to 106.1 from 106.0 in September, due to a rise in scrap metal. No. 1 and No. 2 machinery cast iron, delivered at Canadian foundries, each advanced \$1.00 to \$19.00 and \$17.00 per ton respectively. Demand approximated record levels and was buoyed up by the continued placing of war contracts. Orders for steel sheets by the auto industry were heavy, and reports indicated capacity output of plates, with imports necessary to meet current requirements.

No. 1 foundry pig iron, delivered at Toronto remained unchanged at \$26.00 per long ton.

UNITED STATES - According to the Iron Age, the October production of coke pig iron in the United States reached the highest peak in the history of the industry both in total output and in daily average. On a daily basis, production in October made a gain of 3 per cent over that in September, or from 139,218 to 143,418 short tons. The operating rate of the industry was 94.8 per cent. Three furnaces were put in blast during the month and one blown out for repairs.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING OCTOBER and SEPTEMBER, 1940

	OCTOBER, 1940			SEPTEMBER, 1940		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>PIG IRON</u> -						
Basic	78,839	5,778	84,617	82,223	4,616	86,839
Foundry .....	...	13,368	13,368	...	7,533	7,533
Malleable .....	...	11,400	11,400	...	10,648	10,648
TOTAL	78,839	30,546	109,385	82,223	22,797	105,020
Ferro-alloys .....	...	15,016	15,016	...	13,147	13,147

Table 2 - CUMULATIVE PRODUCTION FOR THE TEN MONTHS ENDING OCTOBER, 1940 and 1939

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>PIG IRON</u> -						
Basic	760,496	29,590	790,086	485,001	18,155	503,156
Foundry	99	88,072	88,171	...	54,110	54,110
Malleable	52	70,532	70,584	...	16,474	16,474
TOTAL	760,647	188,194	948,841	485,001	88,739	573,740
Ferro-alloys .....	...	105,361	105,361	...	57,455	57,455

Table 3 - IRON BLAST FURNACE CHARGES DURING OCTOBER and SEPTEMBER, 1940 and TEN MONTHS ENDING OCTOBER, 1940

	Unit	OCTOBER	SEPTEMBER	TEN MONTHS
Iron ore	Long ton	201,287	195,602	1,705,789
Limestone	Short ton	55,659	51,379	473,623
Coke	Short ton	114,518	110,145	998,982

STEEL INGOTS AND CASTINGS

Table 4 -- PRODUCTION DURING OCTOBER and SEPTEMBER, 1940

	OCTOBER			SEPTEMBER		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS -</u>						
Open hearth - Basic	162,177	5,920	168,097	142,521	6,578	149,099
Electric	11,040	...	11,040	10,420	...	10,420
Other .....	...	...	...	...	...	...
Total Steel Ingots	173,217	5,920	179,137	152,941	6,578	159,519
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	251	1,227	1,478	212	767	979
Converter .....	...	107	107	...	155	155
Electric	1,398	2,971	4,369	1,392	2,470	3,862
Total Steel Castings ...	1,649	4,305	5,954	1,604	3,392	4,996
GRAND TOTAL	174,866	10,225	185,091	154,545	9,970	164,515

Table 5 - CUMULATIVE PRODUCTION FOR THE TEN MONTHS ending OCTOBER, 1940 and 1939

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS -</u>						
Open hearth - Basic	1,448,357	39,198	1,487,555	986,958	5,918	992,876
Electric	103,043	...	103,043	54,662	8	54,670
Other .....	...	...	...	...	...	...
Total Steel Ingots	1,551,400	39,198	1,590,598	1,041,620	5,926	1,047,546
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	2,475	14,121	16,596	1,429	9,088	10,517
Converter .....	...	1,218	1,218	...	615	615
Electric	11,388	29,339	41,227	5,515	23,390	28,905
Total Direct Steel Castings	13,863	45,178	59,041	6,944	33,093	40,037
GRAND TOTAL	1,565,263	84,376	1,649,639	1,048,564	39,019	1,087,583

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	76	1939	63	115



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Table 7 - PRODUCTION OF PIG IRON, BY MONTHS and BY PROVINCES, and STEEL INGOTS AND CASTINGS, BY MONTHS, 1939 and 1940 (In 1000's of long tons)

Month	P I G I R O N						S T E E L	
	NOVA SCOTIA		ONTARIO		TOTAL CANADA		TOTAL CANADA	
	1939	1940	1939	1940	1939	1940	1939	1940
January	16	34	42	71	58	105	78	167
February	13	23	28	64	41	87	77	140
March	12	34	29	58	41	92	96	157
April	19	31	27	53	46	84	100	153
May	25	37	33	56	58	93	121	175
June	24	33	29	56	53	89	108	166
July	23	34	36	62	59	96	111	170
August	23	34	43	55	66	89	122	172
September	24	32	42	73	66	105	125	165
October	24	35	62	74	86	109	150	185
Total - 10 Months.	203	327	371	622	574	949	1,088	1,650
November	25		63		88		147	
December	31		63		94		150	
TOTAL FOR YEAR ...	259		497		756		1,385	

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, Limited	Hamilton, Ont.	2	975
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	1,600

Table 9 - DESCRIPTION OF FURNACES AT END OF OCTOBER, 1940

Condition of furnaces	Number of furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast	9	3,825	93
Banked .....	...	...	...
Blown out	1	300	7
Total Furnaces Reporting	10	4,125	100

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