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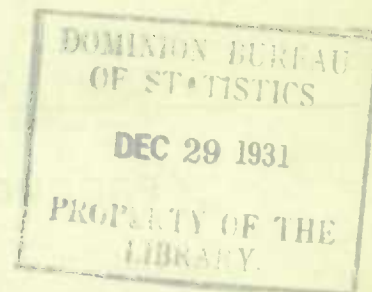
**PRODUCTION OF IRON AND STEEL**

in Canada

NOVEMBER 1931

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## **PRODUCTION OF IRON AND STEEL IN CANADA**

**NOVEMBER 1931**

PIG IRON - Production of pig iron in Canada during November at 14,292 long tons showed an increase of almost 24 per cent over the 11,562 tons of the preceding month. The advance over October was due to an output of 6,537 tons of foundry iron and as no foundry iron was produced in the previous month this tonnage more than offset the decline in basic iron to 7,755 tons from 11,562 tons.

Furnace charges for the month included 24,550 long tons of imported iron ore, 6,667 short tons of limestone and 14,891 short tons of coke. Of the limestone 4,595 tons were quarried in Canada and the balance was imported. All of the coke was carbonized in Canada from imported coal. For the year to date, furnace charges included 713,142 tons of iron ore, 215,420 tons of limestone and 422,835 tons of coke.

During the month one 300 ton furnace at Sault Ste. Marie, Ontario, was blown in with the result that 2 furnaces were in blast on November 30; in addition there is one 550 tons furnace banked at Sydney, N.S. The 2 active furnaces had a capacity of 850 tons a day, or about 20 per cent of the total capacity of all the iron blast furnaces in Canada, and were located as follows: 1 at Sault Ste. Marie, Ontario, and 1 at Hamilton, Ontario.

For the eleven months ending November 30, 1931, the cumulative production of pig iron in Canada amounted to 406,176 tons, as compared with a total of 709,155 tons during the corresponding period of last year. This year's output included 306,157 tons of basic iron, 72,723 tons of foundry iron and 27,296 tons of malleable iron.

FERRO-ALLOYS - Production of ferro-alloys in Canada at 1,911 tons in November was practically unchanged from the 1,912 tons reported for October. The bulk of this month's output consisted of ferromanganese, the balance being ferrosilicon.

STEEL INGOTS AND CASTINGS - Production of steel ingots and direct steel castings in Canada during November amounted to 28,337 tons. When compared with the 30,926 tons of October, the figures for this month showed a loss of 8 per cent; ingots dropped to 27,285 tons from 29,546 tons and castings to 1,052 tons from 1,380 tons.

For the first eleven months of this year production aggregated 652,118 tons as against 955,642 tons and 1,297,273 tons during the corresponding periods of 1930 and 1929, respectively. This year's output included 618,011 tons of ingots and 34,107 tons of castings.

PRICES - Business in iron and steel remained very quiet, sales continuing for small lots to meet current needs. No price advances were noted, but the fact that several plants which had been closed down for some time past, again resumed operations towards the latter part of the month, was regarded as indicating a more favourable outlook for the industry.

No. 1 and No. 2 foundry pig iron were \$22.60 and \$22.10 per gross ton at Toronto, and \$23.80 and \$23.30 per gross ton at Montreal, the same prices as obtained in October. The Bureau's index for Iron and Its Products, on the base 1926 - 100, fell from 87.3 in October to 87.0 in November, owing principally to reduced quotations for scrap iron and steel.

UNITED STATES - In the United States pig iron production underwent a further decline during November, the loss from the previous month amounting to 2.8 per cent or about the same as the drop from September to October. Output for the month averaged 36,782 tons a day, a recession in the daily figure of 1,066 tons. During the month there was a net loss of three furnaces, leaving 67 in blast, compared with 69 at the lowest point of the 1921 depression. Production of steel ingots was slightly greater than in October and the daily average for this grade was the highest since August.

PIG IRON AND FERRO-ALLOYS IN CANADA

Table 1. PRODUCTION FOR THE CURRENT AND PRECEDING MONTH (Tons of 2240 lb.)

ITEM	NOVEMBER 1931			OCTOBER 1931		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	7,755	-----	7,755	11,562	-----	11,562
Foundry.....	-----	6,537	6,537	-----	-----	-----
Malleable.....	-----	-----	-----	-----	-----	-----
TOTAL.....	7,755	6,537	14,292	11,562	-----	11,562
Ferro-alloys .....	-----	1,911	1,911	-----	1,912	1,912

Table 2. CUMULATIVE PRODUCTION FOR THE ELEVEN MONTHS ENDING NOVEMBER  
(Tons of 2240 lb.)

ITEM	1931			1930		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	302,744	3,413	306,157	469,570	6,115	475,685
Foundry.....	718	72,005	72,723	1,004	172,235	173,239
Malleable.....	-----	27,296	27,296	-----	60,231	60,231
TOTAL.....	303,462	102,714	406,176	470,574	238,581	709,155
Ferro-alloys .....	-----	43,917	43,917	-----	62,964	62,964

Table 3. BLAST FURNACE CHARGES - NOVEMBER, OCTOBER, AND YEAR TO DATE

		NOVEMBER	OCTOBER	YEAR TO DATE
Imported Iron ore.....	Long tons	24,550	17,861	713,142
Canadian Limestone.....	Short tons	4,595	5,002	64,095
Imported Limestone.....	" "	2,072	-----	151,325
Coke made in Canada:-				
From Canadian coal.....	" "	-----	-----	116,880
From Imported coal.....	" "	14,891	10,719	287,242
Imported coke.....	" "	-----	-----	18,713



# STEEL INGOTS AND CASTINGS IN CANADA

Table 4 PRODUCTION FOR THE CURRENT AND PRECEDING MONTH (Tons of 2240 lb.)

ITEM	NOVEMBER 1931			OCTOBER 1931		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS:						
Open Hearth-Basic	24,810	90	24,900	27,243	351	27,594
Acid	-----	-----	-----	-----	-----	-----
Electric	2,335	-----	2,385	1,952	-----	1,952
Other	-----	-----	-----	-----	-----	-----
TOTAL STEEL INGOTS	27,195	90	27,285	29,195	351	29,546
STEEL CASTINGS:						
Open Hearth-Basic	31	306	337	79	351	430
Acid	-----	-----	-----	-----	-----	-----
Bessemer	3	93	96	3	167	170
Electric	29	590	619	10	770	780
TOTAL DIRECT STEEL CASTINGS	63	989	1,052	92	1,288	1,380
GRAND TOTAL	27,258	1,079	28,337	29,287	1,639	30,926

Table 5 CUMULATIVE PRODUCTION FOR THE ELEVEN MONTHS ENDING NOVEMBER

	1931			1930		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS						
Open Hearth-Basic	593,040	1,043	594,083	869,443	716	870,159
Acid	-----	-----	-----	-----	-----	-----
Electric	23,928	-----	23,928	26,541	-----	26,541
Other	-----	-----	-----	7,232	-----	7,232
TOTAL STEEL INGOTS	616,968	1,043	618,011	903,216	716	903,932
STEEL CASTINGS						
Open Hearth-Basic	1,309	13,259	14,568	1,672	23,590	25,262
Acid	-----	19	19	-----	-----	-----
Bessemer	38	1,418	1,456	46	2,020	2,066
Electric	221	17,843	18,064	262	24,120	24,382
TOTAL DIRECT STEEL CASTINGS	1,568	32,539	34,107	1,980	49,730	51,710
GRAND TOTAL	618,536	33,582	650,118	905,196	50,446	955,642

Table 6 AVERAGE MONTHLY PRODUCTION OF  
PIG IRON, STEEL INGOTS AND CASTINGS  
IN CANADA, 1916 - 1929.  
(In 1000's of Long Tons)

YEAR	MONTHLY AVERAGE		YEAR	MONTHLY AVERAGE	
	Iron	Steel		Iron	Steel
1916	87	106	1923	73	74
1917	87	130	1924	49	54
1918	89	140	1925	48	63
1919	68	77	1926	63	64
1920	81	92	1927	59	76
1921	50	56	1928	86	103
1922	32	40	1929	91	115

TABLE 7 PRODUCTION OF PIG IRON BY MONTHS AND BY PROVINCES, AND STEEL  
INGOTS AND CASTINGS BY MONTHS IN CANADA (In 1000's of  
Long Tons) 1930-1931.

MONTH	PIG IRON						STEEL	
	Nova Scotia		Ontario		Total Canada		Total Canada	
	1930	1931	1930	1931	1930	1931	1930	1931
January	23	15	64	21	87	36	115	58
February	19	14	52	32	71	46	107	83
March	22	17	53	40	75	57	117	99
April	21	17	51	37	72	54	103	91
May	19	15	62	36	81	51	99	75
June	16	15	50	41	66	56	95	56
July	16	8	49	32	65	40	68	45
August	16	-	41	23	57	23	58	52
September	16	-	33	18	49	18	56	33
October	15	-	25	12	40	12	65	31
November	15	-	31	14	46	14	72	28
December	16	-	22	-	38	-	56	-
TOTAL	214	101	533	306	747	407	1,011	651
MONTHLY AVERAGE	18	9	44	25	62	34	84	54

Table 8. BLAST FURNACES IN CANADA, 1930.

Name of Company	Location	Number of Stacks	Total Daily Capacity (Long Tons)
British Empire Steel Corporation, Ltd.	Sydney, N.S.	4	1,450
Canadian Furnace Co., Ltd.	Port Colborne, Ont.	1	350
The Steel Company of Canada, Ltd.,	Hamilton, Ont.	2	825
Algoma Steel Corporation, Ltd.	Sault Ste. Marie, Ont.	4	1,600
TOTAL		11	4,225

Table 9. DESCRIPTION OF FURNACES AT END OF NOVEMBER, 1931.

Condition of Furnace	Number of Furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast.....	2	850	20
Banked.....	1	550	13
Blown out.....	8	2,825	67
Total furnaces reporting.....	11	4,225	100



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TABLE 1. SUMMARY OF THE RESULTS OF THE 1981 CENSUS OF CANADA

Age Group	Male	Female	Total
0-14	1,234,567	1,345,678	2,580,245
15-24	1,123,456	1,234,567	2,358,023
25-34	1,012,345	1,123,456	2,135,801
35-44	901,234	1,012,345	1,913,579
45-54	890,123	901,234	1,791,357
55-64	789,012	890,123	1,679,135
65-74	678,901	789,012	1,467,913
75-84	567,890	678,901	1,246,791
85+	456,789	567,890	1,024,679
Total	8,000,000	8,000,000	16,000,000

TABLE 2. SUMMARY OF THE RESULTS OF THE 1981 CENSUS OF CANADA

Age Group	Male	Female	Total
0-14	1,234,567	1,345,678	2,580,245
15-24	1,123,456	1,234,567	2,358,023
25-34	1,012,345	1,123,456	2,135,801
35-44	901,234	1,012,345	1,913,579
45-54	890,123	901,234	1,791,357
55-64	789,012	890,123	1,679,135
65-74	678,901	789,012	1,467,913
75-84	567,890	678,901	1,246,791
85+	456,789	567,890	1,024,679
Total	8,000,000	8,000,000	16,000,000