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**PRODUCTION OF IRON AND STEEL**

in Canada

AUGUST 1931

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

### **AUGUST 1931**

**PIG IRON** - Production of pig iron in Canada dropped to a new low for the year to date in August when it amounted to only 23,212 tons as compared with 40,303 tons in the previous month and was the smallest tonnage reported for any month since the 22,544 tons of December, 1924.

Compared with the figures for the next preceding month data for August showed the decline was general to all grades of iron. Basic iron was off to 13,598 tons from 19,949 tons, foundry iron to 9,614 tons from 16,084 and no malleable iron was reported as against 4,270 tons of this grade in July.

Furnace charges during the month included 38,845 long tons of imported iron ore, 11,416 short tons of limestone and 24,799 short tons of coke. Of the limestone 5,693 tons were mined in Canada and of the coke 23,509 tons were carbonized in Canada from imported coal; the balance of the coke and limestone was imported.

Three furnaces were in blast in Canada on August 31, 1931. These active furnaces had a daily capacity of 1,350 long tons per day, or about 32 per cent of the total capacity of all iron blast furnaces in Canada, and were located as follows: 1 at Hamilton, Ont., 1 at Port Colborne, Ont., and 1 at Sault Ste. Marie Ont. In addition to the above, 2 furnaces, 1 at Sault Ste. Marie, Ont., and 1 at Sydney N.S., were banked. The banked furnaces have a capacity of 850 tons a day.

For the eight months ending August the cumulative production of pig iron in Canada totalled 362,737 tons as compared with 573,321 tons and 730,871 tons in the corresponding periods of 1930 and 1929, respectively. This year's output to date included 275,612 tons of basic iron, 60,004 tons of foundry iron and 27,121 tons of malleable iron.

**FERRO-ALLOYS.**— Production of 8,248 tons of ferro-alloys in Canada during August was the highest tonnage reported for any month of the year to date. It exceeded the 3,262 tons of the previous month by 153 per cent. This month's output consisted mostly of spiegeleisen, ferromanganese, silico speigel and ferrosilicon.

**STEEL INGOTS AND CASTINGS.**— Production of steel ingots and direct steel castings in Canada reached a total of 52,491 tons in August. This was the first month in five to show an increase over the preceding month since output started falling off in April. The high for the year to date was 99,341 tons in March. August output was 16 per cent over the 45,097 tons of July and 5,135 tons less than the amount produced in August a year ago.

The gain of August over July was accounted for by the increased tonnage of B.O.H. steel ingots, which grade rose to 49,280 tons from 40,958 tons; this advance more than offset the decline in electric ingots to 1,593 tons from 1,820 tons and in the drop in direct steel castings to 1,618 tons from 2,319 tons.

For the eight months ending August production aggregated 559,465 tons as against 762,663 tons and 988,951 tons in the corresponding periods of 1930 and 1929, respectively. This year's output to date included 529,199 tons of steel ingots and 30,266 tons of steel castings.

**PRICES.**— New business in iron and steel showed some improvement although melters still continued to buy in small lots to meet immediate needs. A somewhat better demand for structural steel was noted, particularly in Eastern Canada, and it is anticipated that contracts involving considerable tonnages of steel will be placed shortly.

No. 1 and No. 2 foundry pig iron at \$22.60 and \$22.10 at Toronto and at \$23.80 and \$23.30 per gross ton at Montreal were unchanged from the previous month. The Bureau's index for Iron and Its Products fell from 87.1 to 86.8 owing chiefly to price reductions for wire nails, and galvanized barbed wire.

**UNITED STATES.**— Further losses in output of pig iron in the United States brought the daily average for August down to 41,308 tons, a decline of 12 per cent. This daily average was smaller than the corresponding average made in January 1900, 31 years ago. August total production was smaller than for any month since October 1921. During the month six furnaces were blown in, seven were blown out and five were banked, making a net loss of six.

PIG IRON AND FERRO-ALLOYS IN CANADA

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

ITEM	AUGUST 1931			JULY 1931		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	12,137	1,461	13,598	18,078	1,871	19,949
Foundry.....	71	9,543	9,614	-----	16,084	16,084
Malleable.....	-----	-----	-----	-----	4,270	4,270
TOTAL.....	12,208	11,004	23,212	18,078	22,225	40,303
Ferro-alloys .....	-----	8,248	8,248	-----	3,262	3,262

Table 2. CUMULATIVE PRODUCTION FOR THE EIGHT MONTHS ENDING AUGUST  
(Tons of 2240 lb.)

ITEM	1931			1930		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	272,199	3,413	275,612	392,929	4,199	397,128
Foundry.....	718	59,286	60,004	864	128,677	129,541
Malleable.....	-----	27,121	27,121	-----	46,652	46,652
TOTAL.....	272,917	89,820	362,737	393,793	179,528	573,321
Ferro-alloys .....	-----	34,394	34,394	-----	51,691	51,691

Table 3. BLAST FURNACE CHARGES - AUGUST, JULY, AND YEAR TO DATE

		AUGUST	JULY	YEAR TO DATE
Imported Iron ore.....	Long tons	38,845	67,374	641,241
Canadian Limestone.....	Short tons	5,693	5,438	49,679
Imported Limestone.....	" "	5,723	15,703	145,970
Coke made in Canada:-				
From Canadian coal.....	" "	-----	9,448	116,880
From Imported coal.....	" "	23,509	22,923	243,854
Imported coke .....	" "	1,290	9,080	18,513



# STEEL INGOTS AND CASTINGS IN CANADA

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

ITEM	AUGUST 1931			JULY 1931		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS:						
Open Hearth-Basic Acid	49,183	97	49,280	40,731	227	40,958
Electric	1,593	---	1,593	1,820	---	1,820
Other	---	---	---	---	---	---
TOTAL STEEL INGOTS	50,776	97	50,873	42,551	227	42,778
STEEL CASTINGS:						
Open Hearth-Basic Acid	125	505	630	70	997	1,067
Bessemer	3	104	107	4	117	121
Electric	35	846	881	6	1,125	1,131
TOTAL DIRECT STEEL CASTINGS	163	1,455	1,618	80	2,239	2,319
GRAND TOTAL	50,939	1,552	52,491	42,631	2,466	45,097

Table 5 CUMULATIVE PRODUCTION FOR THE EIGHT MONTHS ENDING AUGUST

	1931			1930		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS						
Open Hearth-Basic Acid	510,530	470	511,000	694,409	618	695,027
Electric	18,199	---	18,199	16,582	---	16,582
Other	---	---	---	6,669	---	6,669
TOTAL STEEL INGOTS	528,729	470	529,199	717,660	618	718,278
STEEL CASTINGS						
Open Hearth-Basic Acid	1,137	12,098	13,235	1,246	20,832	22,078
Bessemer	32	996	1,028	34	1,514	1,548
Electric	171	15,832	16,003	193	20,566	20,759
TOTAL DIRECT STEEL CASTINGS	1,340	28,926	30,266	1,473	42,912	44,385
GRAND TOTAL	530,069	29,396	559,465	719,133	43,530	762,663

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		49		56	
October	15		25		40		65	
November	15		31		46		72	
December	16		22		38		56	
TOTAL	214	101	533	262	747	363	1,011	559
MONTHLY AVERAGE	18	12	44	33	62	45	84	70

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 AUGUST, 1931.

Condition of Furnace	Number of Furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast	3	1,350	32
Banked	2	850	20
Blown out	6	2,025	48
Total furnaces reporting	11	4,225	100



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