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**PRODUCTION OF IRON AND STEEL**

in Canada

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

**PIG-IRON.**— Production of pig iron in Canada during October at 91,409 long tons was slightly under the output of 98,816 tons reported for the previous month but compared favourably with the total of 93,186 tons produced in October of a year ago.

Compared with the figures for September, data for the month under review showed that the decline was due to a lower output of foundry iron which more than offset gains in the basic and malleable grades. Basic iron advanced to 63,011 tons from 55,194 tons and malleable iron to 9,084 tons from 6,141 tons, while foundry iron dropped to 19,314 tons from 37,481 tons.

For the ten months ending October 31, 1929, the cumulative production of pig iron amounted to 921,096 tons, a gain of 10 per cent over the 838,659 tons made during the first ten months of last year. This year's output to date included 676,252 tons of basic iron, 182,348 tons of foundry iron and 62,496 tons of malleable iron. During the corresponding period of 1928, the output was made up of 591,274 tons of basic iron, 174,715 tons of foundry iron and 72,670 tons of malleable iron.

Blast furnace charges during October included 162,852 long tons of imported iron ore, 49,388 short tons of limestone and 100,370 short tons of coke. Of the limestone, 11,880 tons were mined in Canada; of the coke 88,675 tons were produced in Canada, 31,623 tons being from Canadian coal and 57,052 tons from imported coal.

During the month, one furnace at Sydney, N.S., was banked, resulting in 7 blast furnaces being in blast on October 31. The active furnaces had a capacity of 2,825 long tons per day, or 68 per cent of the total capacity of all blast furnaces in Canada, and were located as follows: 2 at Sydney, N.S.; 2 at Hamilton, Ont.; 2 at Sault Ste. Marie, Ont.; and 1 at Port Colborne, Ont.

FERRO-ALLOYS.- Production of ferrosilicon and ferromanganese in Canada during October at 7,674 tons was 8 per cent greater than the total of 7,131 tons reported for the previous month. For the first ten months of this year production aggregated 65,606 tons.

STEEL INGOTS AND CASTINGS.- Production of steel ingots and direct steel castings in Canada in October amounted to 115,674 tons, a gain of 17 per cent over the output of 99,000 tons in the previous month and 6 per cent over the total of 108,987 tons made in October, 1928. Compared with the totals for the previous month, October figures showed an advance in steel ingots to 110,165 from 93,584 tons while steel castings were little changed at 5,509 tons as against 5,416 tons.

For the ten months ending October 31, 1929, the cumulative production of steel ingots and castings at 1,203,625 tons was the highest reported for the first ten months of any year since 1918 and was 17 per cent higher than 1,028,697 tons produced during the corresponding period of a year ago. This year's output to date included 1,144,019 tons of steel ingots and 59,606 tons of steel castings.

PRICES.- Pig iron prices were quoted \$1.00 lower in October in an attempt to cope more effectively with the competition of American border markets. Market activity during the month was confined largely to spot demand which was reported as fairly satisfactory. No. 1 foundry iron at Montreal dropped from \$26.00 to \$25.00 per gross ton and No. 2 foundry was likewise \$1.00 cheaper at \$24.50. At Toronto, No. 1 foundry iron fell from \$24.60 to \$23.60 and No. 2 from \$24.10 to \$23.10. The Bureau's index for "Iron and Its Products" declined slightly from 93.9 to 93.8.

UNITED STATES.- Data collected by the "Iron Age" showed that in the United States the production of coke pig iron during October established a new record for that month and that a new total was also registered for the first ten months of any year. Output in October was at the rate of 115,745 tons per day, a decline of 840 tons from the revised September rate of 116,585 tons per day. During the month 8 furnaces were blown in and ten shut down, a net loss of 2 active furnaces.

PIG IRON AND FERRO-ALLOYS IN CANADA

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

ITEM	OCTOBER 1929			SEPTEMBER 1929		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	60,299	2,712	63,011	53,580	1,614	55,194
Foundry.....	183	19,131	19,314	5,480	32,001	37,481
Malleable.....	-----	9,084	9,084	-----	6,141	6,141
TOTAL.....	60,482	30,927	91,409	59,060	39,756	98,816
Ferro-alloys.....	-----	7,674	7,674	-----	7,131	7,131

Table 2. CUMULATIVE PRODUCTION FOR THE TEN MONTHS ENDING OCTOBER  
(Tons of 2240 lb.)

ITEM	1929			1928		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	661,740	14,512	676,252	580,615	10,659	591,274
Foundry.....	6,788	175,560	182,348	7,543	167,272	174,815
Malleable.....	758	61,738	62,496	-----	7,670	72,670
TOTAL.....	669,286	251,810	921,096	588,158	250,501	838,659
Ferro-alloys.....	-----	65,606	65,606	-----	35,541	35,541

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

			OCTOBER 1929	SEPTEMBER 1929	YEAR TO DATE
Imported Iron ore.....	Long tons		162,852	175,469	1,621,947
Canadian Limestone.....	Short tons		11,880	10,663	110,515
Imported Limestone.....	" "		37,503	41,971	398,579
Coke made in Canada:-					
From Canadian coal.....	" "		31,623	41,221	372,415
From Imported coal.....	" "		57,052	55,314	551,204
Imported coke.....	" "		11,695	10,745	70,198



# STEEL INGOTS AND CASTINGS IN CANADA

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

ITEM	OCTOBER 1929			SEPTEMBER 1929		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS:						
Open Hearth-Basic	108,729	-----	108,729	91,634	-----	91,634
Acid	-----	-----	-----	-----	-----	-----
Electric	1,382	-----	1,382	1,465	-----	1,465
Other	54	-----	54	485	-----	485
TOTAL STEEL INGOTS	110,165	-----	110,165	93,584	-----	93,584
STEEL CASTINGS:						
Open Hearth-Basic	184	2,815	2,999	205	2,880	3,085
Acid	-----	-----	-----	-----	-----	-----
Bessemer	2	229	231	3	171	174
Electric	11	2,268	2,279	23	2,134	2,157
TOTAL DIRECT STEEL CASTINGS	197	5,312	5,509	231	5,185	5,416
GRAND TOTAL	110,362	5,312	115,674	93,815	5,185	99,000

Table 5 CUMULATIVE PRODUCTION for the TEN MONTHS ending OCTOBER

	1929			1928		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS.						
Open Hearth-Basic	1,123,965	4,047	1,128,012	978,568	-----	978,568
Acid	-----	-----	-----	-----	-----	-----
Electric	9,749	-----	9,749	8,286	184	8,470
Other	6,258	-----	6,258	6,255	183	6,438
TOTAL STEEL INGOTS	1,139,972	4,047	1,144,019	993,109	367	993,476
STEEL CASTINGS:						
Open Hearth-Basic	1,819	22,155	23,974	1,918	14,585	16,503
Acid	24	7,254	7,278	-----	-----	-----
Bessemer	55	2,215	2,270	87	1,531	1,618
Electric	123	25,961	26,084	270	16,830	17,100
TOTAL DIRECT STEEL CASTINGS	2,021	57,585	59,606	2,275	32,946	35,221
GRAND TOTAL	1,141,993	61,632	1,203,625	995,384	33,313	1,028,697

TABLE 6 AVERAGE MONTHLY PRODUCTION OF  
PIG IRON, STEEL INGOTS AND CASTINGS

IN CANADA, 1916 - 1927.

(In 1000's of Long Tons)

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

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) 1928-1929.

MONTH	PIG IRON						STEEL	
	Nova Scotia		Ontario		Total Canada		Total Canada	
	1928	1929	1928	1929	1928	1929	1928	1929
January	22	21	43	67	65	88	84	116
February	24	41	41	53	65	94	99	117
March	26	32	52	54	78	86	118	137
April	25	24	50	55	75	79	113	122
May	24	24	64	57	88	81	118	126
June	24	25	73	65	97	90	117	120
July	21	23	74	77	95	100	83	130
August	23	31	69	82	92	113	89	120
September	24	31	67	68	91	99	100	99
October	25	24	68	67	93	91	109	116
November	30		65		95		108	
December	35		68		103		103	
TOTAL	303	276	734	645	1,037	921	1,241	1,203
MONTHLY AVERAGE	25	23	61	54	86	77	103	100

Table 8. BLAST FURNACES IN CANADA, 1929.

Name of Company	Location	Number of Stacks	Total Daily Capacity (Long Tons)
British Empire Steel Corporation, Ltd.	Sydney, N.S.	4	1,400
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	4,175

Table 9. DESCRIPTION OF FURNACES AT END OF OCTOBER 1929

Condition of Furnace	Number of Furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast.....	7	2,825	68
Banked.....	1	300	7
Blown out.....	3	1,050	25
Total furnaces reporting.....	11	4,175	100

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