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DOMINION BUREAU OF STATISTICS

Monthly Report  
of the  
PRODUCTION OF IRON AND STEEL  
IN CANADA

SEPTEMBER, 1923

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PRODUCTION OF IRON AND STEEL  
IN CANADA

September - 1923

PIG IRON AND FERRO-ALLOYS

The production of pig iron and ferro-alloys in Canada during the month of September was 75,216 long tons, a decline of 18.8% from the August production of 92,587 tons. The output of basic pig iron was 27.5% less at 46,580 tons; foundry iron amounted to 17,536 tons, a decline of 29.8% while the output of malleable iron showed an increase of 232% to a total of 11,100 tons.

As usual, practically the whole output of basic pig iron reported was made for the use of the producing firms; but the slackening demand for iron was reflected in the lowered output. September tonnage made for use was only about two-thirds of that reported in August. Foundry iron and malleable iron, on the other hand were largely made for sale.

The cumulative production for the three quarters ending September was 684,596 tons, the output for the nine months of 1922 and 1921 being 275,989 tons and 457,157 tons respectively. The average monthly production during the first nine months of the present calendar year was 75,000 tons. This record has only been exceeded once before, during the past five years, namely, in 1920, when the average for the nine months' period was about 80,000 tons.

Ferro-alloys rose to 2,581 tons, a slight increase over the 2,258 tons in August. The production consisted almost entirely of the grade containing 15% silicon content.

Two furnaces at Sault Ste. Marie were banked leaving seven furnaces in blast at the end of the month, including two at Hamilton, Ont.; one at Port Colborne, Ont.; one at Sault Ste. Marie, Ont.; and three at Sydney, N.S.

Table 1 (a) shows the production of pig iron by grades, and ferro-alloys during the month. For comparison Table 1 (b) shows the corresponding data for the preceding month and Table 1 (c) shows the total output of pig iron and ferro-alloys for the nine months ending September 1923.

PIG IRON AND FERRO-ALLOYS PRODUCTION (Tons of 2240 lbs.)

Table 1 (a) - SEPTEMBER - 1923.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
PIG IRON:					
Basic.....	45,826	754	- -	- -	46,580
Foundry.....	97	17,439	- -	- -	17,536
Malleable.....	398	10,702	- -	- -	11,100
All other.....	- - -	- - -	- -	- -	- -
TOTAL PIG IRON.....	46,321	28,895	- -	- -	75,216
TOTAL FERRO-ALLOYS.....	- - -	- - -	- -	2,581	2,581

Table 1 (b) - AUGUST - 1923.

PIG IRON:					
Basic.....	63,909	377	- -	- -	64,286
Foundry.....	109	24,853	- -	- -	24,962
Malleable.....	- - -	3,339	- -	- -	3,339
All other.....	- - -	- - -	- -	- -	- -
TOTAL PIG IRON.....	64,018	28,569	- -	- -	92,587
TOTAL FERRO-ALLOYS.....	- - -	- - -	- -	2,258	2,258

Table 1 (c) - TOTAL for the NINE months ending SEPTEMBER, 1923.

PIG IRON:					
Basic.....	426,000	8,678	- -	- -	434,678
Foundry.....	858	175,537	- -	- -	176,395
Malleable.....	609	72,914	- -	- -	73,523
All other.....	- - -	- - -	- -	- -	- -
TOTAL PIG IRON.....	427,467	257,129	- -	- -	684,596
TOTAL FERRO-ALLOYS.....	- - -	- - -	- -	20,194	20,194

No. of blast furnaces:

	First of Month	End of Month
ACTIVE.....	9.....	7
IDLE.....	11.....	13

Table 2 (a) shows the average monthly production of pig iron in Canada for the ten-year period from 1909 to 1918, inclusive, and Table 2 (b) shows the actual production by months for the years 1919 to date.

Table 2 (A), AVERAGE MONTHLY PRODUCTION OF  
PIG IRON, STEEL INGOTS AND CASTINGS  
IN CANADA, 1909 - 1918.  
In 1000's of Long Tons

YEAR	MONTHLY AVERAGE		YEAR	MONTHLY AVERAGE	
	Iron	Steel		Iron	Steel
1909	56	56	1914	58	62
1910	60	61	1915	68	76
1911	68	66	1916	87	106
1912	75	71	1917	87	130
1913	84	87	1918	89	140

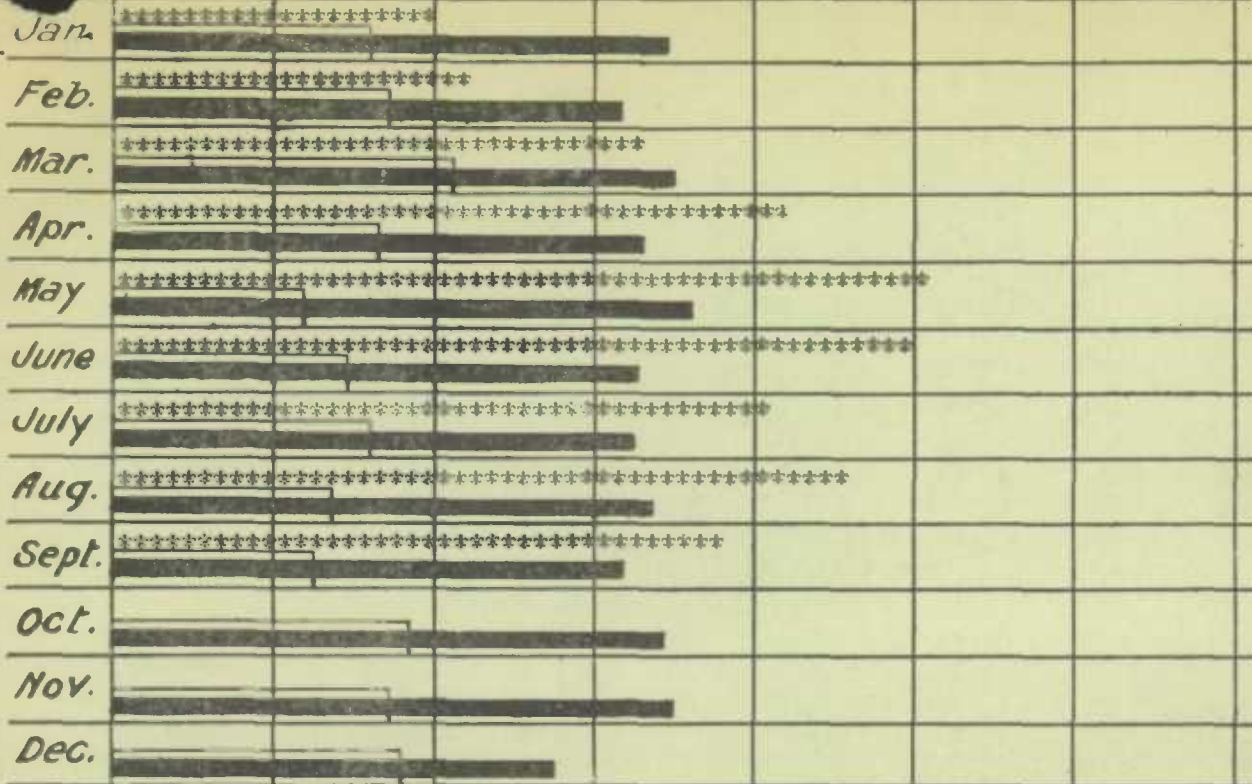
TABLE 2 (B) TOTAL PRODUCTION OF PIG IRON, STEEL INGOTS AND CASTINGS  
IN CANADA BY MONTHS  
From 1919 to Date  
(In 1000's of Long Tons)

MONTH	1919		1920		1921		1922		1923	
	Iron	Steel	Iron	Steel	Iron	Steel	Iron	Steel	Iron	Steel
January	93	107	73	92	41	40	32	33	41	48
February	78	90	64	84	58	59	34	42	44	46
March	82	100	69	97	60	53	42	30	65	89
April	83	75	77	93	39	27	33	22	84	93
May	74	69	87	90	56	52	23	17	102	104
June	59	68	80	91	55	64	29	33	99	96
July	54	66	84	94	54	54	32	63	82	74
August	60	54	93	105	50	72	27	59	93	105
September	51	60	94	99	44	56	25	36	75	66
October	50	66	105	111	50	72	37	53		
November	65	82	94	97	48	75	34	51		
December	70	87	54	56	40	43	36	47		
TOTAL	819	924	974	1109	595	667	384	486	685	721
MONTHLY AVERAGE	68	77	81	92	50	56	32	40	76	80



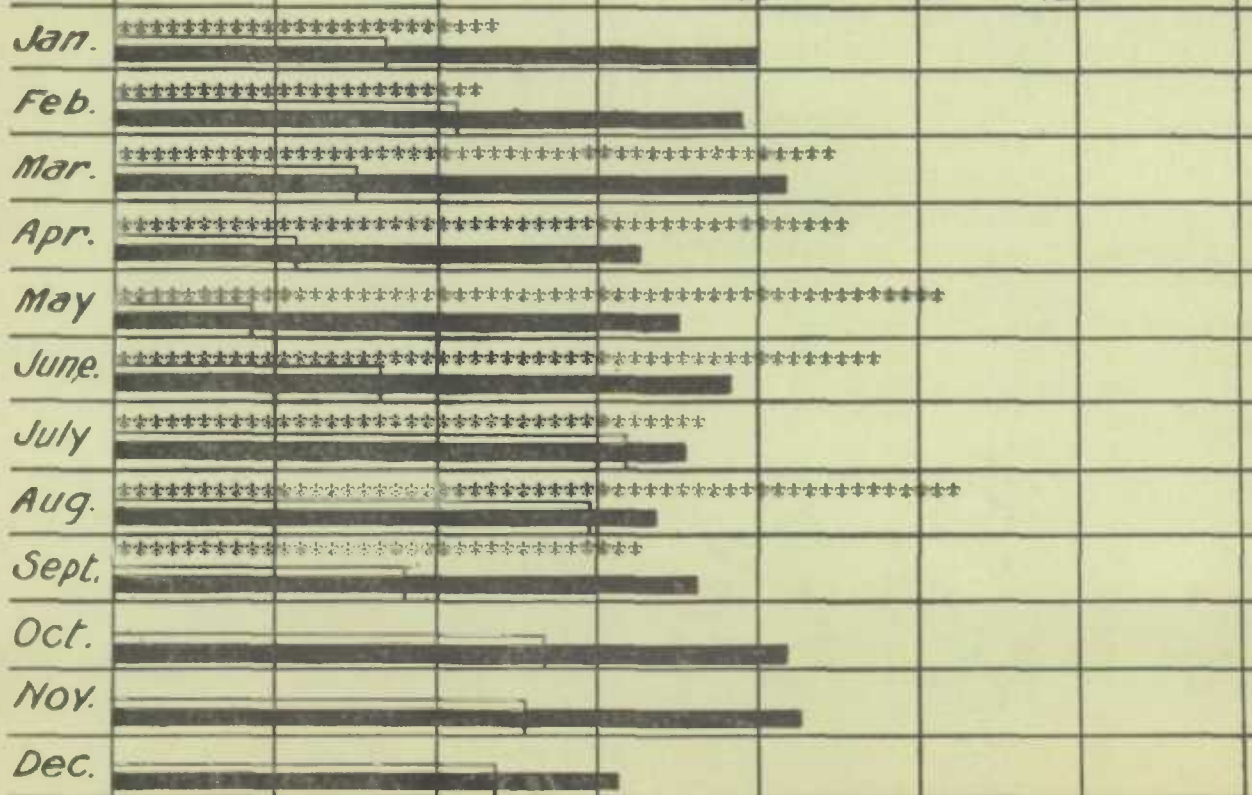
# PRODUCTION OF PIG IRON IN THOUSANDS OF TONS.

0 20. 40. 60. 80. 100. 120. 140.



# PRODUCTION OF STEEL IN THOUSANDS OF TONS.

0 20. 40. 60. 80. 100. 120. 140.



..... = 1923

□ = 1922

■ = AVERAGE 1919 TO 1921

## STEEL INGOTS AND CASTINGS

The low output of pig iron in September was reflected in a decreased production of steel ingots and castings, the absolute quantity being 66,334 gross tons as compared with 105,056 tons, the preceding month. Practically the whole of this decline was in the production of basic open hearth steel ingots for the further use of the reporting firms, production of direct steel castings remaining at about the same level as during August.

The cumulative production for the nine months ending September was 721,352 tons, a marked increase over the quantity produced for the same periods of 1922 and 1921 when 334,835 tons and 477,588 tons, respectively, were made. The average monthly output to the end of September this year was 80,000 tons which average has only been exceeded in the last five years by the 9-months' average in 1920 which was about 94,000 tons.

Orders booked during September for machine tools and other steel products were said to be for small quantities only. Activity in construction has stimulated the demand for machine tools, and dealers' also reported an improvement in the quantity of second-hand equipment turned over. Mining development has further stimulated this demand and the machinery interests were reported as anticipating an active demand for their products.

Table 3 (a) shows the production of steel ingots and castings in Canada during the month just closed and the month immediately preceding. For comparison Table 3 (b) shows the total production by grades, of steel ingots and castings during the nine months ending September 1923.

The bar chart shown on the preceding page enables the reader to make quick comparisons between the three-year average production in any month of pig iron and of steel ingots and castings with the actual output in the same month of 1922 and 1923.

Table 3 (a)

PRODUCTION OF STEEL INGOTS AND CASTINGS IN CANADA  
FOR THE CURRENT AND PRECEDING MONTH  
(Tons of 2240 lbs.)

	AUGUST 1923			SEPTEMBER 1923		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	100,817	-----	100,817	62,135	-----	62,135
Acid	-----	-----	-----	-----	-----	-----
Bessemer	-----	-----	-----	-----	-----	-----
Electric	-----	-----	-----	-----	-----	-----
TOTAL STEEL INGOTS	100,817	-----	100,817	62,135	-----	62,135
STEEL CASTINGS:						
Open Hearth-Basic	317	2,355	2,672	378	2,203	2,581
Acid	-----	523	523	-----	536	536
Bessemer	7	405	412	6	307	313
Electric	31	601	632	14	704	769
TOTAL DIRECT STEEL CASTINGS	355	3,884	4,239	398	3,750	4,199
GRAND TOTAL	101,172	3,884	105,056	62,533	3,750	66,334

Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the NINE MONTHS ending SEPTEMBER, 1923.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	686,400	-----	686,400
Acid	-----	-----	-----
Bessemer	-----	-----	-----
Electric	-----	-----	-----
TOTAL STEEL INGOTS	686,400	-----	686,400
STEEL CASTINGS:			
Open Hearth-Basic	1,281	20,415	22,276
Acid	-----	3,077	3,077
Bessemer	81	3,076	3,157
Electric	68	6,303	6,442
TOTAL DIRECT STEEL CASTINGS	2,030	32,871	34,952
GRAND TOTAL	688,430	32,871	721,352



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