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CANADA

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Monthly Report
of the
PRODUCTION OF IRON AND STEEL
IN CANADA

DECEMBER, 1922

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PRODUCTION OF IRON AND STEEL
IN CANADA

December, 1922

PIG IRON AND STEEL INGOTS

The production of pig iron during December was 4.7 per cent above the record of the previous month, the tonnages being 34,289 long tons in November and 35,891 in the month under review. The average monthly production throughout the year just closed was 31,921 tons and the output during December exceeded the average by 12.4 per cent.

The total production of pig iron in 1922 was 383,057 tons as compared with an output of 594,354 tons in the previous year. The decrease was therefore 211,297 tons or 35.5 per cent. The maximum production in the past year occurred in March when 41,733 tons was reported. The minimum output of 23,363 tons was reported for May and the production during the following four months was less than 32,000 tons each. The output during the last quarter was only 421 tons less than that of the first three months of the year and exceeded the second quarter by 22,370 tons and the third quarter by 23,266 tons.

The production of ferro-alloys was well maintained throughout the last year, the output for December being 2,246 tons. The total production in 1922 was 20,749 tons as compared with 22,493 tons during the previous year. An output of 28,173 tons was reported for 1920 and 48,601 tons in the maximum year of 1919.

The number of blast furnaces in operation remained unchanged during December; two at Sydney, one at Hamilton and one at Sault Ste. Marie.

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 twelve months ending December.

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

Table 1 (a) - DECEMBER - 1922.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
PIG IRON:					
Basic.....	27,701	- - -	- -	- -	27,701
Foundry.....	- - -	937	- -	- -	937
Malleable.....	- - -	7,253	- -	- -	7,253
All other.....	- - -	- - -	- -	- -	- -
TOTAL PIG IRON.....	27,701	8,190	- -	- -	35,891
TOTAL FERRO-ALLOYS.....	- - -	- - -	- -	2,246	2,246

Table 1 (b) - NOVEMBER - 1922.

PIG IRON:					
Basic.....	26,156	- - -	- -	- -	26,156
Foundry.....	- - -	8,133	- -	- -	8,133
Malleable.....	- - -	- - -	- -	- -	- -
Castings.....	- - -	- - -	- -	- -	- -
TOTAL PIG IRON.....	26,156	8,133	- -	- -	34,289
TOTAL FERRO-ALLOYS.....	- - -	- - -	- -	1,502	1,502

Table 1 (c) - TOTAL for the TWELVE months ending DECEMBER, 1922.

PIG IRON:					
Basic.....	252,870	430	- -	- -	253,300
Foundry.....	303	99,134	- -	- -	99,437
Malleable.....	- - -	30,216	- -	- -	30,216
All other.....	- - -	- - -	- -	104	104
TOTAL PIG IRON.....	253,173	129,780	- -	104	383,057
TOTAL FERRO-ALLOYS.....	4,389	342	- -	16,018	20,749

No. of blast furnaces:

	First of Month	End of Month
ACTIVE.....	4.....	4.....
IDLE.....	16.....	16.....

Table 2 (a) shows the average monthly production of pig iron in Canada for the ten-year period from 1907 to 1916, inclusive, and Table 2 (b) shows the actual production by months for the years 1917 to date.

TABLE 2 (A), AVERAGE MONTHLY PRODUCTION OF
PIG IRON, STEEL INGOTS AND CASTINGS
IN CANADA, 1907 - 1916.

In 1000's of Long Tons

YEAR	MONTHLY AVERAGE		YEAR	MONTHLY AVERAGE	
	Iron	Steel		Iron	Steel
1907	48	53	1912	75	71
1908	47	44	1913	84	87
1909	56	56	1914	58	62
1910	60	61	1915	68	76
1911	68	66	1916	87	106

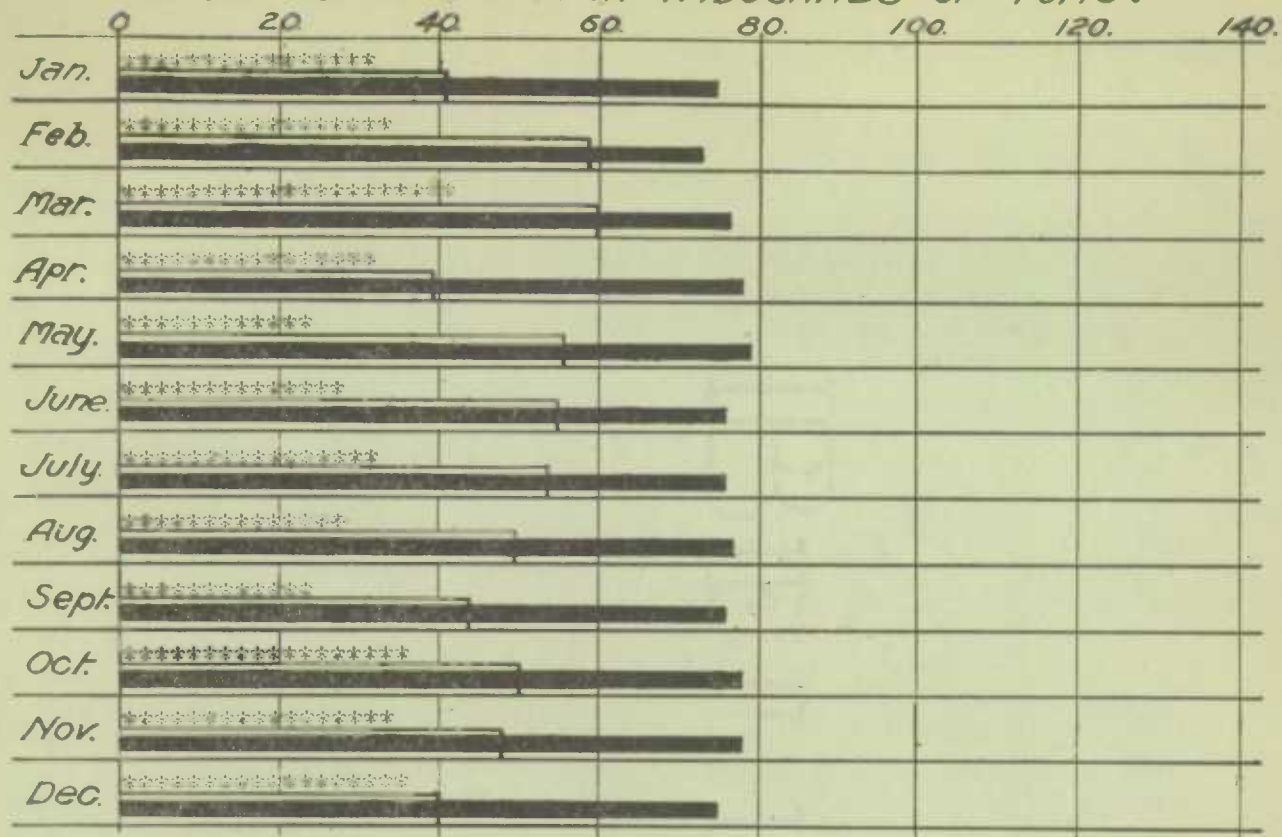
TABLE 2 (B) TOTAL PRODUCTION OF PIG IRON, STEEL INGOTS AND CASTINGS
IN CANADA BY MONTHS

From 1917 to Date

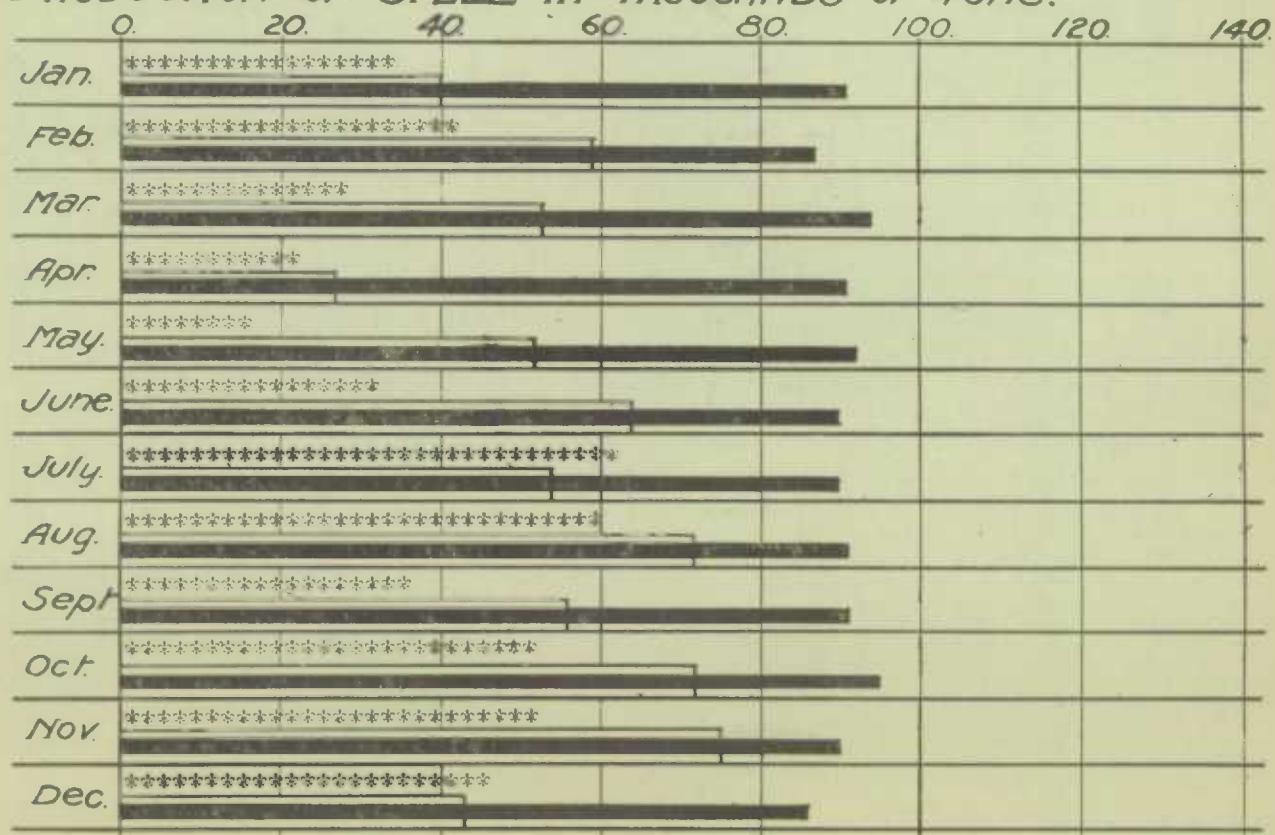
(In 1000's of Long Tons)

MONTH	1917		1918		1919		1920		1921		1922	
	Iron	Steel	Iron	Steel	Iron	Steel	Iron	Steel	Iron	Steel	Iron	Steel
January	80	117	66	130	93	107	73	92	41	40	32	33
February	75	108	70	124	78	90	64	84	58	59	34	42
March	93	136	86	141	82	100	69	97	60	53	42	30
April	90	125	93	149	83	75	77	93	39	27	33	22
May	97	139	94	156	74	69	87	90	56	52	23	17
June	89	122	92	148	59	68	80	91	55	64	29	33
July	83	124	98	147	54	66	84	94	54	54	32	63
August	90	130	86	152	60	54	93	105	50	72	27	59
September	90	133	85	149	51	60	94	99	44	56	25	36
October	92	144	96	164	50	66	105	111	50	72	37	53
November	87	141	95	116	65	82	94	97	48	75	34	51
December	78	139	106	105	70	87	54	56	40	43	36	47
TOTAL	1044	1558	1067	1681	819	924	974	1109	595	667	384	486
MONTHLY AVERAGE	87	130	89	140	68	77	81	92	50	56	32	40

PRODUCTION OF PIG IRON IN THOUSANDS OF TONS.



PRODUCTION OF STEEL IN THOUSANDS OF TONS.



***** = 1922; = 1921; = average 1911 to 1920.

The Steel production in December declined 4,763 long tons below the output of November, the record for the month under review being 46,655 tons as compared with 51,418 tons in the previous month. The total production during 1922 was 485,643 tons while 667,484 tons was produced in 1921. The decline during the last year was 181,841 tons or 27.3 per cent. Of these quantities 463,113 tons of steel ingots was reported in 1922 as compared with 645,075 tons produced in the previous year, a decrease of 181,962 tons or 28.2 per cent. The production of direct steel castings on the other hand was nearly maintained as 22,530 tons was produced as compared with 22,409 tons in 1921.

There was a considerable improvement in the production of steel during the last six months as compared with the output of the first half of the year. The total steel production for the six months ending June 30, was 177,080 tons while 308,140 tons were produced during the last half of the year. This represents an increase of 131,060 tons or 74 per cent. The production of open hearth basic ingots for further use indicated a similar trend in that the monthly average for the first six months of 1922 was 27,938 tons as compared with an average of 49,197 tons during the last half of the year. The monthly average during the whole of 1921, was 53,489 tons.

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 twelve months ending December.

The bar chart shown on the preceding page enables the reader to make quick comparisons between the ten-year average production in any month of pig iron and of steel ingots and castings with the actual output in the same month of 1921 and 1922.

Table 3 (a)

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

	NOVEMBER			DECEMBER		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	48,821	-----	48,821	43,456	-----	43,456
Acid	-----	-----	-----	-----	-----	-----
Bessemer	-----	-----	-----	-----	-----	-----
Electric	-----	-----	-----	-----	-----	-----
TOTAL STEEL INGOTS	48,821	-----	48,821	43,456	-----	43,456
STEEL CASTINGS:						
Open Hearth-Basic	59	1,153	1,212	75	1,241	1,316
Acid	-----	-----	-----	-----	-----	-----
Bessemer	8	255	263	6	362	368
Electric	5	1,117	1,122	5	1,510	1,515
TOTAL DIRECT STEEL CASTINGS	72	2,525	2,597	86	3,113	3,199
GRAND TOTAL	48,893	2,525	51,418	43,582	3,113	46,655

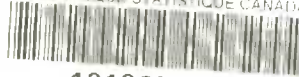
Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the TWELVE MONTHS ending DECEMBER, 1922.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	462,795	-----	462,795
Acid	-----	-----	-----
Bessemer	7	18	25
Electric	168	125	293
TOTAL STEEL INGOTS	462,970	143	463,113
STEEL CASTINGS:			
Open Hearth-Basic	1,423	7,318	8,741
Acid	-----	-----	-----
Bessemer	61	3,051	3,112
Electric	979	9,698	10,677
TOTAL DIRECT STEEL CASTINGS	2,463	20,067	22,530
GRAND TOTAL	465,433	20,210	485,643

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