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Monthly Report

of the

PRODUCTION OF IRON AND STEEL
IN CANADA

APRIL, 1922

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MONTHLY REPORT
of the
PRODUCTION OF IRON AND STEEL
IN CANADA

April - 1922

PIG IRON AND FERRO-ALLOYS

Pig iron production in Canada during April declined 9000 tons from the output reported in the preceding month, but an analysis of the output shows that 5000 tons more iron was produced for direct sale than in March of this year. The total pig iron production amounted to 32,572 long tons comprising 12,142 tons of basic iron; 14,952 tons foundry and 5,478 tons of malleable. Of the basic iron all but 104 tons was produced for the use of the makers. Practically the whole of the foundry iron on the other hand was produced for sale. The production of malleable iron was slightly lower than in March and amounted to 5,478 tons all of which was produced for direct sale.

Ferro-alloys, principally 75% ferro-silicon, declined from 1,668 tons in March to 695 tons in the month under review.

The number of furnaces in blast remained unchanged. Two furnaces were operated throughout the month by the Algoma Steel Company at Sault Ste. Marie and one furnace owned by the Steel Company of Canada at Hamilton was kept in blast.

In the United States the output of pig iron in April showed a gain of 3,395 tons per day over the March record and there was a net gain of seven furnaces in blast. The production of iron in April was probably slightly less because of the coal strike, although it is stated that so far the effect of the coal strike has been very small.

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 four months ending April.

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

Table 1 (a) - April - 1922.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
PIG IRON:					
Basic.....	12,038	104	--	--	12,142
Foundry.....	30	14,922	--	--	14,952
Malleable.....	--	5,478	--	--	5,478
Castings.....	--	--	--	--	--
TOTAL PIG IRON.....	12,068	20,504	--	--	32,572
TOTAL FERRO-ALLOYS.....	--	--	--	693	693

Table 1 (b) - March - 1922.

PIG IRON:					
Basic.....	25,903	71	--	--	25,974
Foundry.....	43	10,080	--	--	10,123
Malleable.....	--	5,636	--	--	5,636
Castings.....	--	--	--	--	--
TOTAL PIG IRON.....	25,946	15,787	--	--	41,733
TOTAL FERRO-ALLOYS.....	--	--	--	1,068	1,068

Table 1 (c) - TOTAL for the FOUR months ending April, 1922.

PIG IRON:					
Basic.....	86,223	430	--	--	86,653
Foundry.....	104	42,190	--	--	42,294
Malleable.....	--	11,114	--	--	11,114
Castings.....	--	--	--	--	--
TOTAL PIG IRON.....	86,327	53,734	--	--	140,061
TOTAL FERRO-ALLOYS.....	--	--	--	3,597	3,597

No. of blast furnaces:

	First of Month	End of Month
ACTIVE.....	3.....	3
IDLE.....	17.....	17

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.

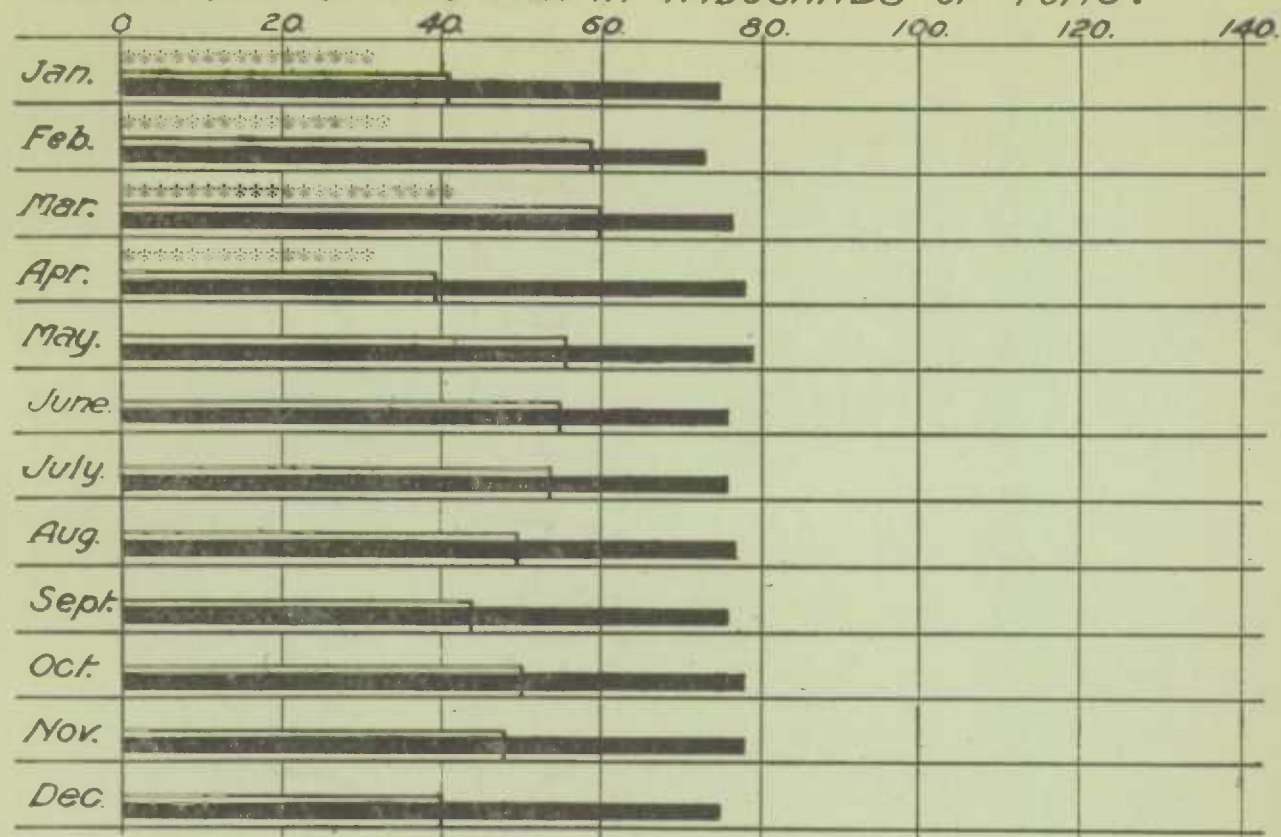
TABLE 2 (A), AVERAGE MONTHLY PRODUCTION OF
PIG IRON, STEEL INGOTS AND CASTINGS
IN CANADA, 1907 - 1916.
In 1000's of Long Tons

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

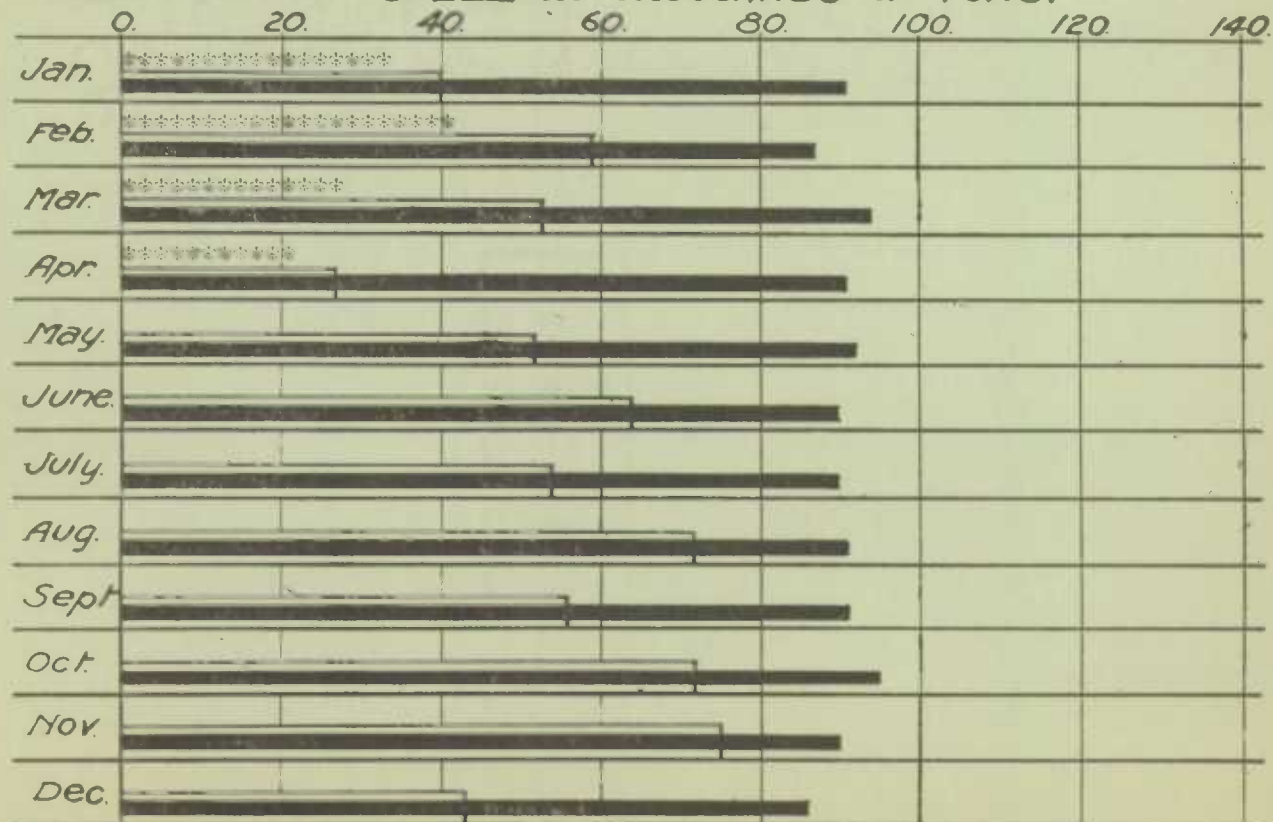
TABLE 2 (B) TOTAL PRODUCTION OF PIG IRON, STEEL INGOTS AND CASTINGS
IN CANADA BY MONTHS
From 1917 to Date
(In 1000's of Long Tons)

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		
June	89	122	92	148	59	68	80	91	55	64		
July	83	124	98	147	54	66	84	94	54	54		
August	90	130	86	152	60	54	93	105	50	72		
September	90	133	85	149	51	60	94	99	44	55		
October	92	144	96	164	50	66	105	111	50	72		
November	87	141	95	116	65	82	94	97	48	75		
December	78	139	106	105	70	87	54	56	40	43		
TOTAL	1044	1558	1067	1681	819	924	974	1109	595	667	141	127
MONTHLY AVERAGE	87	130	89	140	68	77	81	92	50	56	35	32

PRODUCTION OF PIG IRON IN THOUSANDS OF TONS.



PRODUCTION OF STEEL IN THOUSANDS OF TONS.



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

STEEL INGOTS AND CASTINGS

The decline in the production of steel ingots and castings in Canada noted in the March report was further accentuated during the month of April, the total output declining to 21,935 tons as compared with 29,941 tons in March. Included in the April production was 20,513 tons of steel ingots and 1,422 tons of direct steel castings.

Almost the entire quantity of steel ingots was made by the basic open hearth process and was used by the producing firms in further processes of manufacture. Of the direct steel castings made 1,338 tons was produced for direct sale and consisted of 630 tons electric steel, 537 tons basic open hearth and 171 tons of bessemer castings. The production of steel ingots and castings during April was the lowest recorded since monthly records of production have been obtained, and amounted to only 24% of the average production in April during the ten years 1911-1920. The output of steel ingots and castings in April, 1921 also established a low record for that year and totalled only 27,000 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 reference Table 3 (b) shows the total production by grades of steel ingots and castings during the four months ending April.

The bar chart shown on the preceeding 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.)

	MARCH			APRIL		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	28,222	-----	28,222	20,499	-----	20,499
Acid	-----	-----	-----	-----	-----	-----
Bessemer	2	4	6	1	2	3
Electric	-----	-----	-----	2	9	11
TOTAL STEEL INGOTS	28,224	4	28,228	20,502	11	20,513
STEEL CASTINGS:						
Open Hearth-Basic	669	9	678	27	537	564
Acid	-----	-----	-----	-----	-----	-----
Bessemer	11	201	212	4	171	175
Electric	52	771	823	53	630	683
TOTAL DIRECT STEEL CASTINGS	732	981	1,713	84	1,338	1,422
GRAND TOTAL	28,956	985	29,941	20,586	1,349	21,935

Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the FOUR MONTHS ending APRIL, 1922.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	120,816	-----	120,816
Acid	-----	-----	-----
Bessemer	5	11	16
Electric	2	9	11
TOTAL STEEL INGOTS	120,823	20	120,843
STEEL CASTINGS:			
Open Hearth-Basic	833	1,856	2,689
Acid	-----	-----	-----
Bessemer	19	590	609
Electric	150	2,984	3,134
TOTAL DIRECT STEEL CASTINGS	1,002	5,430	6,432
GRAND TOTAL	121,825	5,450	127,275

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