

41 008

CANADA

DOMINION BUREAU OF STATISTICS

Vol. 1.

NO. 3.

Revised File Copy

Property of the Library

Received JUN 12 1921

Dom. Bureau of Statistics

Monthly Report
of the
PRODUCTION OF IRON AND STEEL
IN CANADA

MARCH, 1921

Prepared under the direction of

S. J. COOK,

Chief of the
MINING, METALLURGICAL
and CHEMICAL Division

Ottawa
1921

11/11/11



PROBATION DEPARTMENT

RECEIVED

NOV 11 1911

Monthly Report
of the
PRODUCTION OF IRON AND STEEL
IN CANADA
MARCH, 1921

PIG IRON AND FERRO-ALLOYS

The total output of pig iron during March was approximately 2700 tons higher than in February, the actual figures for the month of March being 60,443 long tons. The increased production was entirely from blast furnaces and this in spite of the fact that at the close of the month only five (5) furnaces were active. The output of basic iron dropped about 30% to 35,552 long tons, all of which was made by firms for their own use. Almost three times as much foundry iron and nearly twice as much malleable were made in March as compared with the production during the preceding month. The greater part of all the pig iron made was for the use of the firms operating the furnaces, the actual figures being 46,719 long tons of pig iron made for this purpose, while 13,701 long tons of foundry and malleable iron was produced for sale. Electric furnace production dropped from 199 tons to 23 tons. No spiegeleisen was made in Canada during March, and the production of ferro-silicon also declined, the entire output amounting only to 949 long tons.

The increase in the production of foundry iron during March is encouraging since nearly 5,000 tons of the increase was made for sale, although the price of No. 2 foundry and of malleable, as quoted by "Iron Age," declined from one to two dollars during the month, on the several United States markets. The production of foundry iron by firms for their own use also rose above 6,000 tons for the month. No production of foundry iron by firms for their own use was reported during either January or February of this year.

The one blast furnace operated by the Steel Company of Canada which was reported as idle at the close of February, was active at the end of March, but three of the four furnaces operated by the Algoma Steel Corporation were idle at the close of the month, as compared with three active at the end of the preceding month. The furnace at Port Colborne and one furnace at Sydney, C.B., were also in blast, making a total of five (5) furnaces active in Canada at the end of the month.

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

In the United States the March daily rate of iron output decreased nearly 18,000 tons from the average for February, and there was a net loss of fifty (50) furnaces, with the result that the month's output reached the lowest figure since the latter part of 1914. The decline in production is more emphasized by comparison with the corresponding figures for November and December, 1914, when the average daily output was between 48,000 tons and 50,000 tons. The possible capacity was then much less than now.

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

Table I (a) - MARCH - 1921.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
PIG IRON:					
Basic	35,662				35,662
Foundry	6,142	10,631	23		16,796
Malleable	4,915	3,070			7,985
TOTAL PIG IRON	46,719	13,701	23		60,443
TOTAL FERRO-ALLOYS					949

Table I (b) - FEBRUARY - 1921.

PIG IRON:					
Basic	47,575				
Foundry		5,847	199		6,046
Malleable		4,090			
TOTAL PIG IRON	47,575	9,937	199		57,711
TOTAL FERRO-ALLOYS					2,094

Table I (c) - TOTAL for the three months ending MARCH, 1921.

PIG IRON:					
Basic	111,563	137			111,700
Foundry	6,142	19,505	222		25,869
Malleable	4,915	16,919			21,834
TOTAL PIG IRON	122,620	36,561	222		159,403
TOTAL FERRO-ALLOYS					8,327

No. of blast furnaces:

ACTIVE at end of month	5
IDLE at end of month	15

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 IN CANADA, 1907 - 1916.

(In 1000's of Long Tons)

YEAR	MONTHLY AVERAGE	YEAR	MONTHLY AVERAGE
1907	48	1912	75
1908	47	1913	84
1909	56	1914	58
1910	60	1915	68
1911	68	1916	87

Table 2 (b)

TOTAL PRODUCTION OF PIG IRON IN CANADA BY MONTHS

From 1917 to Date

(In 1000's of Long Tons)

MONTH	1917	1918	1919	1920	1921
January	80	66	93	73	41
February	75	70	78	64	58
March	93	86	82	69	60
April	90	93	83	77	
May	97	94	74	87	
June	89	92	59	80	
July	83	98	54	84	
August	90	86	60	93	
September	90	85	51	94	
October	92	96	50	105	
November	87	95	65	94	
December	78	106	70	54	
TOTAL	1044	1067	819	974 To date	159
MONTHLY AVERAGE	87	89	68	81 To date	53

STEEL INGOTS AND CASTINGS

The production of steel ingots and castings declined from 58,547 long tons in February to 53,050 long tons in March. Practically the whole of this decline was in the manufacture of basic open hearth steel ingots, the figures for this item being 56,157 long tons in February and 50,946 long tons in March. On the other hand there was a slight increase in the production of steel ingots by the electric process, the output being 351 tons as against 222 tons in February. A larger proportion of electric steel was made in Canada by firms for their own use than in the preceding month, the amount made for this purpose in March being 3000 tons out of a total of 351 tons, as compared with 93 tons in February out of a total of 222 tons. The total production of steel ingots in March amounted to 51,318 long tons as compared with 56,402 tons in February.

The total production of direct steel castings declined from 2,145 tons in February to 1,732 tons in March, but the proportion between the quantities made for further use by the firms producing, and the quantities made for sale remained about the same. The output made for sale was 1,320 tons in March or about 250 tons less than last month. Scarcely perceptible changes occurred throughout the rest of the steel list.

Table 3 (a) shows the production of steel ingots and castings in Canada during the month of March, and gives for comparison the corresponding data for the month of February. Table 3 (b) show the progress made during the calendar year to date in the manufacture of steel ingots and castings. Table 4 (a) shows the average monthly output of steel for the years 1907 to 1916, inclusive, and Table 4 (b) gives the actual monthly figures for the succeeding years to date.

Very little comment of an encouraging character can be made on the iron and steel situation in Canada at the present time. It seems nevertheless true that if the present uncertainty continues for an indefinite period the accumulated needs of the steel working and construction industries may become such as to create better market conditions for the steel trade. Unemployment throughout the country means decreased earnings not only for the individual but for industrial firms as well, and when earnings decrease, buying power shrinks correspondingly, and markets decline. These conditions are self-propagating and conditions gradually grow worse until some definite outside influence is brought to bear. The cautious investor does not buy in a falling market, but when the decline seems to have run its course there is always money forthcoming to create new industries and to restore dormant industries to their previous state of commercial activity.

Table 3 (a)

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

	MARCH			FEBRUARY		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	50,946	-----	50,946	56,157	-----	56,157
Acid	-----	-----	-----	-----	-----	-----
Bessemer	9	12	21	8	15	23
Electric	300	51	351	93	129	222
TOTAL STEEL INGOTS	51,255	63	51,318	56,258	144	56,402
STEEL CASTINGS:						
Open Hearth-Basic	62	90	152	67	-----	67
Acid	-----	-----	-----	4	156	160
Bessemer	4	94	98	69	267	336
Electric	346	1,136	1,482	431	1,151	1,582
TOTAL DIRECT STEEL CASTINGS	412	1,320	1,732	571	1,574	2,145
GRAND TOTAL	51,667	1,383	53,050	56,829	1,718	58,547

Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the THREE MONTHS ending MARCH, 1921.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	143,513	-----	143,513
Acid	107	-----	107
Bessemer	24	41	65
Electric	429	537	966
TOTAL STEEL INGOTS	144,073	578	144,651
STEEL CASTINGS:			
Open Hearth-Basic	186	1,047	1,233
Acid	4	215	219
Bessemer	150	516	666
Electric	1,255	3,631	4,886
TOTAL DIRECT STEEL CASTINGS	1,595	5,409	7,004
GRAND TOTAL	145,668	5,987	151,655

Table 2 (a)

AVERAGE MONTHLY PRODUCTION OF STEEL INGOTS AND DIRECT STEEL CASTINGS

IN CANADA, 1907 - 1916.

(In 1000's of Long Tons)

YEAR	MONTHLY AVERAGE	YEAR	MONTHLY AVERAGE
1907	53	1912	71
1908	44	1913	87
1909	56	1914	62
1910	61	1915	76
1911	66	1916	106

Table 4 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS IN CANADA BY MONTHS

From 1917 to Date

(In 1000's of Long Tons)

MONTH	1917	1918	1919	1920	1921
January	117	130	107	92	40
February	108	124	90	84	59
March	136	141	100	97	53
April	125	149	75	93	
May	139	156	69	90	
June	122	148	68	91	
July	124	147	66	94	
August	130	152	54	105	
September	133	149	60	99	
October	144	164	66	111	
November	141	116	82	97	
December	139	105	87	56	
TOTAL	1558	1681	924	1109 To date	152
MONTHLY AVERAGE	130	140	77	92 To date	51

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010636051