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CANADA

R. H. Coats

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Monthly Report
of the
PRODUCTION OF IRON AND STEEL
IN CANADA

NOVEMBER, 1921

Prepared under the direction of

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1921

Monthly Report

of the

PRODUCTION OF IRON AND STEEL IN CANADA

November - 1921.

The production of pig iron during November was fairly well maintained, the total output of basic iron amounting to 41,232 long tons as compared with 42,356 tons in the preceding month. With the exception of some 300 tons the whole output was produced by makers for their own further use. Foundry iron fell off slightly from 7,217 tons in October to 6,384 tons in November, practically all of which was produced for sale. No malleable iron has been made in Canada since August and no electric castings have been made since September. The quantity of the last-named commodity produced, however, is always small and is entirely the product of electric furnaces. No electric iron was made in either October or November, but contracts awarded for the manufacture of rails kept two furnaces in operation at Sault Ste. Marie, and two more at Sydney, while the varied interests of the Steel Company of Canada permitted of the operation of one blast furnace at Hamilton. These five furnaces, all of which were in blast at the beginning of the month, were the only units operated during the period.

The output of ferro-alloys showed a creditable increase from 1,266 tons in October to 1,683 tons in November, in spite of the fact that only two plants were in operation. No spiegeleisen was made during the month, the output of ferro-alloys consisting entirely of ferro-silicon in grades from 15% to 75%.

While the output of pig iron and ferro-alloys in Canada during November was not up to the monthly average established for the year, the production reflected a little of the stability looked for in the iron trade and confirmed the opinion expressed in the October report that the output of iron would be well maintained throughout the closing months of the year.

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 month of October and Table 1 (c) shows the total output for the eleven months of the calendar year to date.

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

Table 1 (a) - November - 1921.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
PIG IRON:					
Basic	41,014	309	--	--	41,323
Foundry	97	6,287	--	--	6,384
Malleable	--	--	--	--	--
Castings	--	--	--	--	--
TOTAL PIG IRON	41,111	6,596	--	--	47,707
TOTAL FERRO-ALLOYS	--	--	--	1,683	1,683

Table 1 (b) - October - 1921.

PIG IRON:					
Basic	41,846	510	--	--	42,356
Foundry	87	7,130	--	--	7,217
Malleable	--	--	--	--	--
Castings	--	--	--	--	--
TOTAL PIG IRON	41,933	7,640	--	--	49,573
TOTAL FERRO-ALLOYS	--	--	--	1,266	1,266

Table 1 (c) - TOTAL for the eleven months ending November, 1921.

PIG IRON:					
Basic	429,398	1,482	--	--	430,880
Foundry	33,199	60,935	222	--	94,356
Malleable	7,837	20,976	--	--	28,813
Castings	--	--	--	388	388
TOTAL PIG IRON	470,434	83,393	222	388	554,437
TOTAL FERRO-ALLOYS	9,583	167	--	11,897	21,647

No. of blast furnaces:

	First of Month	End of Month
ACTIVE	5	5
IDLE	15	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	39
May	97	94	74	87	56
June	89	92	59	80	55
July	83	98	54	84	54
August	90	86	60	93	50
September	90	85	51	94	44
October	92	96	50	105	50
November	87	95	65	94	48
December	78	106	70	54	
TOTAL	1044	1067	819	974	To date 555
MONTHLY AVERAGE	87	89	68	81	To date 50

STEEL INGOTS AND CASTINGS

The production of steel ingots and castings in November showed a decided improvement, the output rising from a high record of 72,204 long tons in October to a total of 75,039 long tons in the month just closed. Of the November output 73,806 tons was made by the producers for their own use mostly in the manufacture of steel rails. A small amount was produced for direct sale the total under this item being 1,233 long tons practically all of which was in the form of steel castings.

Basic open hearth castings amounted to 716 tons; bessemer, 81 tons; and electric steel, 584 tons. Steel ingots produced by the makers for their own further use were made almost entirely by the basic open hearth process, only 41 tons being credited to other processes, chiefly electric. Very small quantities of steel ingots were produced for direct sale.

The favourable turn in the steel making industry noted in the October report continued throughout November, although the principal activities reported were in the manufacture of steel ingots for further use in manufacturing processes. While therefore a considerable increase was noted in the output, the field of production remained somewhat limited. It has been nevertheless a matter of some satisfaction that there has been considerable improvement in at least one section of the steel trade, and the general expectation is that the field will broaden and that the other branches of the industry will show improvement in the near future.

Table 3 (a) shows the production of steel ingots and castings during the current and preceding month, and Table 3 (b) shows the total output for the eleven months ending November. Table 4 (a) and 4 (b) show the monthly outputs of steel ingots and castings for the past fifteen years.

Table 3 (a)

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

	OCTOBER			NOVEMBER		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	69,809	-----	69,809	73,615	-----	73,615
Acid	-----	-----	-----	-----	-----	-----
Bessemer	1	3	4	1	2	3
Electric	542	-----	542	40	-----	40
TOTAL STEEL INGOTS	70,352	3	70,355	73,656	2	73,658
STEEL CASTINGS:						
Open Hearth-Basic	228	792	1,020	129	587	716
Acid	-----	-----	-----	-----	-----	-----
Bessemer	14	113	127	8	73	81
Electric	6	696	702	13	571	584
TOTAL DIRECT STEEL CASTINGS	248	1,601	1,849	150	1,231	1,381
GRAND TOTAL	70,600	1,604	72,204	73,806	1,233	75,039

Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the Eleven MONTHS ending NOVEMBER, 1921.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	600,782	-----	600,782
Acid	239	-----	239
Bessemer	36	56	92
Electric	2,200	660	2,860
TOTAL STEEL INGOTS	603,257	716	603,973
STEEL CASTINGS:			
Open Hearth-Basic	1,374	4,424	5,798
Acid	4	252	256
Bessemer	234	1,304	1,538
Electric	2,209	11,057	13,266
TOTAL DIRECT STEEL CASTINGS	3,821	17,037	20,858
GRAND TOTAL	607,078	17,753	624,831

Table 4 (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	27
May	139	156	69	90	52
June	122	148	68	91	64
July	124	147	66	94	54
August	130	152	54	105	72
September	133	149	60	99	56
October	144	164	66	111	72
November	141	116	82	97	75
December	139	105	87	56	
TOTAL	1558	1681	924	1109 To date	624
MONTHLY AVERAGE	130	140	77	92 To date	57

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