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Monthly Report

of the

PRODUCTION OF IRON AND STEEL

IN CANADA

SEPTEMBER, 1921

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1921

Monthly Report
of the
PRODUCTION OF IRON AND STEEL
IN CANADA

SEPTEMBER, 1921

PIG IRON AND FERRO-ALLOYS

The Mining Branch of the Dominion Bureau of Statistics reports that the production of pig iron and ferro-alloys in Canada during the month of September showed a slight decline from the amount reported for the preceding month. The output of pig iron during September amounted to a total of 43,709 long tons as compared with 50,156 tons in August. The whole of the decline was in the output of basic pig iron made by firms for their own use, the quantity reported for this purpose being 38,590 tons, a decline slightly more than 8,000 tons from the preceding month. Production of basic iron for sale was small, but 409 tons was produced for this purpose. Foundry iron production for sale rose to 4,541 tons as compared with 1,785 tons in August. No malleable iron was made during the month. Electric iron remained about the same at 103 tons.

Ferro-alloys produced during the month amounted to a total of 914 tons all of which was ferro-silicon made in electric furnaces and produced by makers for direct sale. The production of ferro-silicon during September was therefore about 50 tons less than during the preceding month, and owing to the fact that no spiegeleisen was made, in September, the total production of ferro-alloys shows a very marked decrease from the August figures. There was no change in September of the number of furnaces in blast. There were, therefore, five furnaces operating at the close of the month, namely: two at Sault Ste Marie, one at Hamilton, and two at Sydney. This leaves fifteen furnaces idle throughout the month.

The total output of pig iron during the nine months ending September, amounted to 457,157 tons, or slightly over 63% of the amount produced during the same period in 1920. The production for the half year amounted to 69% of the total for the same period in 1920.

The past three months have been very quiet in the iron trade, but there has been a gradual improvement in the steel industry of United States during the past two months, and as the trend of Canadian output parallels that of the United States, it is probable that a gradual improvement will be noted during 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 (b) shows the corresponding data for the month of August, and Table 1 (c) shows the total output for the nine months of the calendar year to date.

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

Table 1 (a) - September -1921.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
PIG IRON:					
Basic.....	38,590	409	---	---	38,999
Foundry.....	66	4,541	---	---	4,607
Malleable.....	---	---	---	---	---
Castings.....	---	---	---	103	103
TOTAL PIG IRON.....	38,656	4,950	---	103	43,709
TOTAL FERRO-ALLOYS.....	---	---	---	914	914

Table 1 (b) - August - 1291.

PIG IRON:					
Basic.....	46,852	87	---	---	46,939
Foundry.....	97	1,785	---	---	1,882
Malleable.....	---	1,234	---	---	1,234
Castings.....	---	---	---	101	101
TOTAL PIG IRON.....	46,949	3,106	---	101	50,156
TOTAL FERRO-ALLOYS.....	2,453	94	---	967	3,514

Table 1 (c) - TOTAL for the nine months ending September, 1921.

PIG IRON:					
Basic.....	346,538	663	---	---	347,201
Foundry.....	33,015	47,518	222	---	80,755
Malleable.....	7,837	20,976	---	---	28,813
Castings.....	---	---	---	388	388
TOTAL PIG IRON.....	387,390	69,157	222	388	457,157
TOTAL FERRO-ALLOYS.....	9,583	167	---	8,948	18,698

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	56
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	
November	87	95	65	94	
December	78	106	70	54	
TOTAL	1044	1067	819	974	To date 457
MONTHLY AVERAGE	87	89	68	81	To date 51

STEEL INGOTS AND CASTINGS.

Reflecting the low output of pig iron during September, the production of steel ingots and castings declined from 72,023 tons in the preceding month to 56,447 long tons in the month now under review. The whole of this decline was in the output of basic, open hearth steel ingots, production of bessemer ingots and electric steel remaining at about the same level as during August.

Basic open hearth castings showed a small improvement rising from 770 tons in August to 853 tons in September. Bessemer castings were about the same at 140 tons, while electric steel castings rose slightly from 812 tons to 975 tons. Of the steel ingots and castings produced during the month, 54,754 tons was made by firms for their own further use and 1,692 tons was produced for sale. The latter figure shows an improvement of about 300 tons from the amount reported for the preceding month.

The total output of steel ingots and castings for the nine months ending September amounted to 477,588 long tons as compared with 845,000 tons during the first three-quarters of 1920. The output for this year is, therefore, equal to about 57% of the quantity made in the same time last year.

During the nine months, the output of steel ingots totalled 459,960 long tons while steel castings amounted to 17,628 long tons. Makers produced for their own consumption 459,249 long tons of steel ingots of which 457,358 tons was basic open hearth steel, the balance being electric, acid open hearth or bessemer product. During the same time, 3,423 tons of castings was made and used, while a total of 14,205 tons of direct steel castings was produced for sale. Of this latter amount, 10,890 tons was made in electric furnaces, the balance being made by basic open hearth, bessemer or acid open hearth process.

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 nine months ending September. Tables 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.)

	AUGUST			SEPTEMBER		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	70,088	-----	70,088	54,320	-----	54,320
Acid	-----	-----	-----	-----	-----	-----
Bessemer	2	3	5	2	1	3
Electric	241	5	246	156	-----	156
TOTAL STEEL INGOTS	70,331	8	70,339	54,478	1	54,479
STEEL CASTINGS:						
Open Hearth-Basic	287	483	770	159	694	853
Acid	-----	-----	-----	-----	-----	-----
Bessemer	6	96	102	10	130	140
Electric	64	748	812	107	868	975
TOTAL DIRECT STEEL CASTINGS	357	1,327	1,684	276	1,692	1,968
GRAND TOTAL	70,688	1,335	72,023	54,754	1,692	56,447

Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the NINE MONTHS ending SEPTEMBER, 1921.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	457,358	-----	457,358
Acid	239	-----	239
Bessemer	34	51	85
Electric	1,618	660	2,278
TOTAL STEEL INGOTS	459,249	711	459,960
STEEL CASTINGS:			
Open Hearth-Basic	1,017	3,045	4,062
Acid	4	252	256
Bessemer	212	1,118	1,330
Electric	2,190	10,890	11,980
TOTAL DIRECT STEEL CASTINGS	3,423	14,205	17,628
GRAND TOTAL	462,672	14,916	477,588

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	
November	141	116	82	97	
December	139	105	87	56	
TOTAL	1558	1681	924	1109	To date 477
MONTHLY AVERAGE	130	140	77	92	To date 53

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