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DOMINION BUREAU OF STATISTICS

Monthly Report

of the

PRODUCTION OF IRON AND STEEL

IN CANADA

JULY, 1921

Prepared under the direction of

S. J. COOK,

Chief of the
MINING, METALLURGICAL
and CHEMICAL Division

Ottawa
1921

**Monthly Report
of the
PRODUCTION OF IRON AND STEEL
IN CANADA**

JULY, 1921

PIG IRON AND FERRO-ALLOYS

The total output of pig iron and ferro-alloys during July showed an increase of more than two thousand tons over the production reported by the Dominion Bureau of Statistics for June. Pig iron output remained steady at slightly over fifty-four thousand tons, but the production of the several grades varied considerably from the amounts reported for the preceding month. Basic iron declined from 48,870 long tons in June to 40,720 tons in July, all of which was produced by the makers for their own use. Foundry iron which showed a total of 5,214 tons in June was nearly double, at 10,339 tons in July. Of this amount 9,135 tons was used by the makers, and the balance, 1,204 tons was produced for sale. The ratio of foundry iron produced for use to the amount made for sale was, therefore, eight to one in July, while in the preceding month the ratio was one to five. There was a marked increase in the production of malleable iron during the month, the output rising from 661 tons made in June for sale to 2,922 tons made during July for the use of the producing firms. Electric iron castings showed an advance over the previous month's record, the figures for the two months being 67 tons in June and 105 tons in July. Of the entire output of pig iron over 90% was reported as having been made for the further use of the companies producing.

The production of spiegeleisen was resumed in July and a total of 2,830 long tons was made for further use.

Other ferro-alloys, consisting entirely of the several grades of ferro-silicon amounted to 659 tons during the month, all of which was made in electric furnaces and produced for sale.

There were no changes during the month in the number of blast furnaces active, the six furnaces reported in blast at the end of June being kept in operation throughout the month. At the close of the month, therefore, six furnaces were active, namely, three at Sault Ste. Marie, one at Hamilton and two at Sydney.

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 June, and Table 1 (c) shows the total output for the seven months of the calendar year to date.

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

Table I (a) - JULY - 1921.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
PIG IRON:					
Basic	40,720				40,720
Foundry	9,135	1,204			10,339
Malleable	2,922				2,922
Castings				105	105
TOTAL PIG IRON	52,777	1,204		105	54,086
TOTAL FERRO-ALLOYS	2,830			659	3,489

Table I (b) - JUNE - 1921.

PIG IRON:					
Basic	48,870				48,870
Foundry	825	4,389			5,214
Malleable		661			661
Castings				67	67
TOTAL PIG IRON	49,695	5,050		67	54,812
TOTAL FERRO-ALLOYS				717	717

Table I (c) - TOTAL for the seven months ending JULY, 1921.

PIG IRON:					
Basic	261,096	167			261,263
Foundry	32,852	41,192	222		74,266
Malleable	7,837	19,742			27,579
Castings				184	184
TOTAL PIG IRON	301,785	61,101	222	184	363,292
TOTAL FERRO-ALLOYS	7,130	73		7,067	14,270

No. of blast furnaces:

	First of Month	End of Month
ACTIVE	6	6
IDLE	14	14

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	
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 363
MONTHLY AVERAGE	87	89	68	81	To date 52

STEEL INGOTS AND CASTINGS

While the output of steel ingots and castings during the month of July was still almost 4000 tons in excess of the monthly average for the seven months of the current year, the actual output was about 10,000 tons lower than the quantity produced during the preceding month. The principal decline was in the production of steel ingots which dropped from 52,339 tons in June to 52,641 tons in July. Practically all the steel made during the month was basic open hearth, 52,111 tons being produced by the makers for their own further use. In addition to this amount four tons of converter steel and 446 tons of electric steel was made and used. The total output of steel ingots made for sale amounted to only 160 tons during the month. The production of basic open hearth steel castings during July was nearly double that of the previous month, the actual output amounting to 630 tons as compared with 369 tons in the preceding month. The ratio of the production for use to the production for sale was maintained and the quantities produced were 185 tons of basic open hearth steel castings made for use and 445 tons for sale.

Electric steel production declined 1,278 tons in June to 608 tons in the current month. Of the latter amount 277 tons was produced for further use and 331 tons for sale.

Converter steel castings produced during the month, amounted to 99 tons, all but 10 tons of which was made for sale.

From the foregoing it will be seen that the output of direct steel castings of all kinds amounted to a total of 1337 tons during July, a decline of more than 400 tons from the 1764 tons produced in June. Of the 1337 tons reported, 865 tons was made for sale and 472 tons was used by the producers. The average monthly production for the seven months ending July, of the current year was 50,000 tons. The output for the past three months, it will be noted, has been in excess of the average monthly production for this year to date.

Table 3 (a)

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

	JUNE			JULY		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	62,190		62,190	52,111		52,111
Acid						
Bessemer	2	3	5	4	3	7
Electric	139	5	144	446	77	523
TOTAL STEEL INGOTS	62,331	8	62,339	52,561	80	52,641
STEEL CASTINGS:						
Open Hearth-Basic	100	289	389	185	445	630
Acid						
Bessemer	12	85	97	10	89	99
Electric	114	1,164	1,278	277	331	608
TOTAL DIRECT STEEL CASTINGS	226	1,538	1,764	472	865	1,337
GRAND TOTAL	62,557	1,546	64,103	53,033	945	53,978

Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the SEVEN MONTHS ending JULY, 1921.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	332,950		332,950
Acid	239		239
Bessemer	30	47	77
Electric	1,221	655	1,876
TOTAL STEEL INGOTS	334,440	702	335,142
STEEL CASTINGS:			
Open Hearth-Basic	571	1,868	2,439
Acid	4	252	256
Bessemer	196	892	1,088
Electric	2,019	8,174	10,193
TOTAL DIRECT STEEL CASTINGS	2,790	11,186	13,976
GRAND TOTAL	337,230	11,888	349,118

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	
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	349
MONTHLY AVERAGE	130	140	77	92 To date	50

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