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Monthly Report

of the

PRODUCTION OF IRON AND STEEL

IN CANADA

JUNE, 1921

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Ottawa
1921

Monthly Report
of the
PRODUCTION OF IRON AND STEEL
IN CANADA

JUNE, 1921

PIG IRON AND FERRO-ALLOYS

The advance in the output of pig iron and ferro-alloys in Canada, noted in the May report, was fairly well maintained during the month of June. Pig iron production declined slightly from 56,091 long tons to 54,812 tons, but the amount of basic iron made rose from 44,002 long tons to 48,870 tons, all of which was used by the makers. The output of foundry iron made for direct sale dropped slightly from 4,709 tons in May to 4,389 tons in the month under review. Foundry iron produced by makers for their own further use, showed a considerable decrease from 5,206 tons in May to only 825 tons in June, so that the total output of foundry iron declined from 9,915 tons in May to 5,214 tons in June. Malleable iron was also lower, dropping from 2,162 tons in May to 661 tons in the current month. Sixty-seven tons of iron castings was made from electric furnaces. No other electric iron was produced during the month. A total of 717 tons of ferro-alloys was made during June, as compared with 944 tons during the preceding month.

Six blast furnaces were active at the end of June, one additional furnace having been blown in during the month by the Dominion Steel Corporation at Sydney. At the close of the month, three furnaces were being operated at Sault Ste. Marie, one at Hamilton, and two at Sydney.

During the six months ending June, 309,206 long tons of pig iron was made in Canada, as compared with a total of 449,810 long tons during the same period in 1920. The output for the first six months of this year was, therefore, only about 69% of the amount made during the corresponding period of 1920. Of the pig iron made, 249,008 long tons was produced from blast furnaces by firms for their own use in further processes of manufacture; 59,897 tons made in blast furnaces was produced for direct sale. Of the 301 tons of electric iron made during the period, 222 tons was made for use and 79 tons of iron castings was made for sale as such. An analysis of the pig iron output for the six months ending June shows that 71% of the total was basic iron; 21% foundry iron, and 8% malleable iron. Coke was the only fuel used in the manufacture of pig iron in Canada during the period.

The production of ferro-alloys, including the several grades of ferro-silicon, and also spiegeleisen, amounted to 10,781 tons during the half-year.

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 month of May, and Table I (c) shows the total output for the six months of the calendar year to date.



THE

REPUBLICAN PARTY

OF THE STATE OF NEW YORK

STATE OF NEW YORK
COUNTY OF ALBANY
IN SENATE
JANUARY 18, 1891
REPORT
OF THE
COMMISSIONERS OF THE LAND OFFICE
IN RESPONSE TO A RESOLUTION
PASSED BY THE SENATE
MAY 18, 1890

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

Table I (a) - JUNE - 1921.

	IN BLAST FURNACES		IN ELECTRIC FURNACES		TOTAL PRODUCTION
	For Own Use	For Sale	For Own Use	For Sale	
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

Table I (b) - MAY - 1921.

PIG IRON:					
Basic	43,972	30			44,002
Foundry	5,206	4,709			9,915
Malleable		2,162			2,162
Castings				12	12
TOTAL PIG IRON	49,178	6,901		12	56,091
TOTAL FERRO-ALLOYS					944

Table I (c) - TOTAL for the six months ending JUNE, 1921.

PIG IRON:					
Basic	220,376	167			220,543
Foundry	23,717	39,988	222		63,927
Malleable	4,915	19,742			24,657
Castings				79	79
TOTAL PIG IRON	249,008	59,897	222	79	309,206
TOTAL FERRO-ALLOYS					10,781

No. of blast furnaces:

	First of Month	End of Month
ACTIVE	5	6
IDLE	15	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	40
May	97	94	74	87	57
June	89	92	59	80	56
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	312
MONTHLY AVERAGE	87	89	68	81 To date	52

STEEL INGOTS AND CASTINGS

The output of steel ingots and castings in Canada during the month of June was the highest for any month during the present calendar year, the output rising to 64,103 long tons, an increase of more than twelve thousand tons over the production for the previous month, which was 52,001 tons. Direct steel ingots accounted for 62,339 tons as compared with 50,068 tons during the preceding month, and of this quantity, 62,190 tons was basic open hearth steel produced by the makers for their own use. A total of 144 tons of electric steel ingots was made, of which 139 tons was made for further use by the firms reporting. Basic open hearth steel castings were also a little higher for the month, the production being 389 tons, consisting of 100 tons made for further use and 289 tons made for sale. Steel castings made from electric furnaces showed a slight decline from 1,738 tons in May to 1,278 tons in June, of which 1,164 tons was made for sale, and the balance was used by the producing firms.

The total production of steel ingots and direct steel castings during the six months ending June amounted to 295,140 long tons, of which 284,197 tons was produced for use in further processes of manufacturing by the makers; the balance, or 10,943 tons was made for sale. By far the greater amount of steel made was produced by the basic open hearth process, the total for this item amounting to 282,648 long tons, of which 280,839 tons was in the form of steel ingots and was used by the makers, and the balance, or 1,809 tons, in direct steel castings. Of this latter amount, 1,423 tons was made for sale, and 386 tons for the use of the producers. Electric steel production amounted to 10,938 tons of which 9,585 tons was produced as direct steel castings and 1,353 tons was in the form of ingots. Nearly eight thousand tons of the direct steel castings made from electric furnaces was marketed directly as finished product. Very little acid open hearth steel was made during the six months' period, the amounts recorded being 239 tons of ingots made for further use, and 256 tons of direct steel castings, practically all of which was sold as such, making a total of 495 tons in all. Converter steel production amounted to 1,059 tons, most of which was made for direct sale as steel castings.

The average monthly production of steel ingots and direct steel castings for the half-year ending June 30, 1921, amounted to slightly more than forty-nine thousand long tons, the total output for the period being 295,000 tons. During the same months in 1920, the average production was ninety-one thousand tons, and the total, 547,000 tons. The monthly average for the eight-year period, 1907 to 1914, inclusive, was sixty-two-and-one-half thousand tons, so that the June production this year is somewhat higher than the pre-war average.

Table 3 (a)

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

	MAY			JUNE		
	For Own Use	For Sale	Total	For Own Use	For Sale	Total
STEEL INGOTS:						
Open Hearth-Basic	49,884	-----	49,884	62,190	-----	62,190
Acid	132	-----	132	-----	-----	-----
Bessemer	-----	-----	-----	2	3	5
Electric	35	17	52	139	5	144
TOTAL STEEL INGOTS	50,051	17	50,068	62,331	8	62,339
STEEL CASTINGS:						
Open Hearth-Basic	56	-----	56	100	289	389
Acid	-----	37	37	-----	-----	-----
Bessemer	9	93	102	12	85	97
Electric	146	1,592	1,738	114	1,164	1,278
TOTAL DIRECT STEEL CASTINGS	211	1,722	1,933	226	1,538	1,764
GRAND TOTAL	50,262	1,739	52,001	62,557	1,546	64,103

Table 3 (b)

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS

For the SIX MONTHS ending JUNE, 1921.

	For Own Use	For Sale	Total Production
STEEL INGOTS:			
Open Hearth-Basic	280,839	-----	280,839
Acid	239	-----	239
Bessemer	26	44	70
Electric	775	578	1,353
TOTAL STEEL INGOTS	281,879	622	282,501
STEEL CASTINGS:			
Open Hearth-Basic	386	1,423	1,809
Acid	4	252	256
Bessemer	186	803	989
Electric	1,742	7,843	9,585
TOTAL DIRECT STEEL CASTINGS	2,318	10,321	12,639
GRAND TOTAL	284,197	10,943	295,140

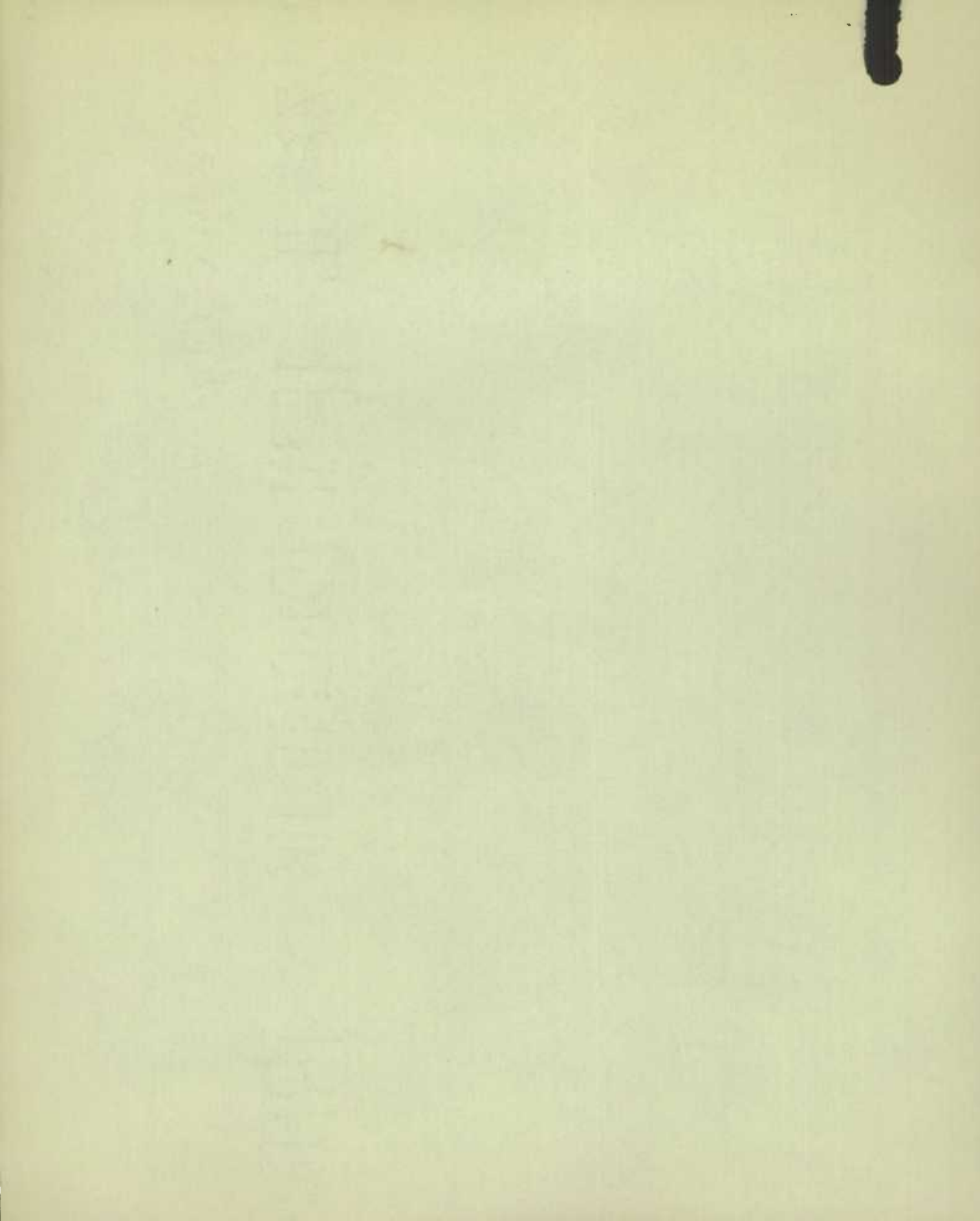


Table 4 (a)

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	
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 295
MONTHLY AVERAGE	130	140	77	92	To date 49

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