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CANADA

DOMINION BUREAU OF STATISTICS

No. T.

CERSUS AND STATISTICS OFFICE STORAGE.

of the

Production of Iron and Steel
in Canada

January, 1921.

Prepared under the direction of

S. J. Cook,

Chief of the MINING, METALEURGICAL and CHEMICAL Division.

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#### Prefatory Note:

The present bulletin is published by the Dominion Bureau of Statistics in continuance of the service provided for many years past by the Mines Branch of the Department of Mines. A few changes have been inaugurated, notably the reporting on a monthly basis instead of quarterly; and the record of pig iron production by grades, which formerly was only shown in the annual report. All quantities have also been reported in gross tons of 2240 pounds, whereas formerly the figures of pig iron and steel production were always reported in short tons. The thanks of the Bureau may be here expressed to the operators who have, without exception, promptly furnished the data necessary for the preparation of this report, and assurance may be given that no effort will be spared to make reports on iron and steel statistics for Canada comprehensive and in every way possible, adequate to the requirements of the trade.

The delay in publishing the present Bulletin has been due to the fact that the decision to issue a monthly report was only reached at the end of March, and as a consequence, returns for the months of the first quarter were all collected during the month of April. Reports for the months of Tebruary, March and April will follow this publication Abmediately, and beginning with the record for the month of May, prompt issuance of the Monthly Report of the Production of Iron and Steel in Canada," may be expected.

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# THE PRODUCTION OF IRON AND STEEL IN CANADA auring January. 1921.

### PIG IRON AND FERRO-ALIOYS

With only seven blast furnaces operating in Canada during January, out of a total of twenty furnaces installed, the total production of pig iron, exclusive of ferro-alloys was the lowest on record since 1904, and amounted to only 41,249 long tons of which 28,326 tons were made for the use of the firms producing, and the remainder or 12,923 tons for sale.

The 28,326 tons made by firms for their own use was produced by the basic process, using coke. Of the 12,923 tons made for sale, 137 tons was basic, 3,027 tons foundry, and 9,759 tons was reported as malleable.

The entire production of pig iron above recorded was made in blast furnaces, there being no output during the month of low phosphorus pig from electric furnace plants. Blast furnaces were operated in January at Sault Ste. Marie, Midland, Port Colbourne, in Contario, and at Sydney in Cape Breton.

at Sault Ste. Marie and ferro-silicon in the several grades (15%, 25% and 50%) was made in Ontario at Welland, Niagara Falls, Chippawa, and Hamilton. The Total Production of spiegeleisen and ferro-alloys during the month was 5,284 long tons.

The production of pig iron and ferro-alloys during January is shown in the following table:

To Augusti	Made in Blast	Furnaces (Tons	of 2240 lbs.)		
PIG IRON:	For Maker's Own Use	For Sale	TOTAL PRODUCTION.		
Basic		3;027	28:463		
POTAL.	28,326	9,759	42,359		
Ferro-Alloys	- Total Production	- 5284 <b>lo</b> ng	tons.		
No. of blast furnaces					
Active at end	of month		7		

Idle at end of month

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In order that the value of the current figures regarding the output of pig iron may be studied in relation to data for previous years a table has been prepared in which the average monthly production is shown for the ten-year period from 1907 to 1916, inclusive, and the actual production by months for the years 1917 to 1920, inclusive. This table will be kept up to date in subsequent issues of this Peport.

AVERAGE MONTHEM PRODUCTION OF PIG IRON IN CANADA - 1907 - 1916

(In 1000's of Long Tons).

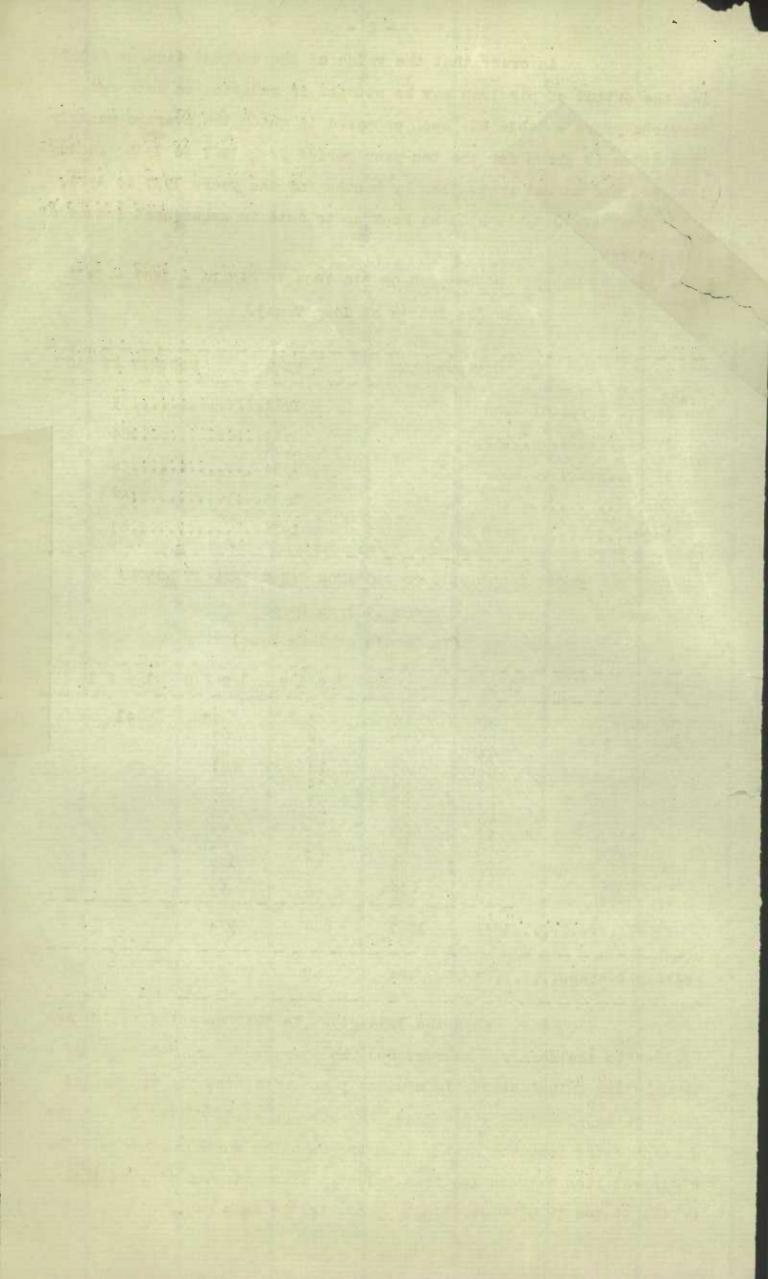
YMAR	MONTHAY AVERAGE	YEAR	MONTHLY AVERAGE
40.11.000000		1922	
1978	69 4 8 6 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1913	84
1909		1934	58
1910	8 3 6 9 8 9 9 9 9	7975	63
3023000000		1936,	87

# TOTAL PRODUCTION OF PIC TRON IN CANADA BY MONTHS

(In Moders of Long Tons)

MCNTH	1937	1 9 3 8	1919	1920	1921
January February Merch Acril May July August September Cotober November	8 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6.965.4.2.B.6.5.6.5.6.5.6.5.6.5.6.5.6.5.6.5.6.5.6	28 28 4 9 4 0 1 5 5 6 5 6 5 6 5 6 5 6 5 6 6 6 6 6 6 6	-73 64 57 77 88 84 79 10 94 10 94	41
TOTAL	1044	1067	819	974	
Mentaly &verage	87	99	63	81	

Plotted in the form of surve, and the average daily production of place in the United States is similarly recorded, the two curves are found to be practically parallel, the average daily United States production being somewhat higher than the Canadian monthly average. The close relation between the iron industry of Canada and that of the United States is very strikingly presented in this way.



## STEEL INGOTS AND CASTINGS

The decline in production noted in the pig iron industry is reflected in the steel industry, the output of steel ingots and castings in Canada during January amounting to only 40,058 long tons.

This constitutes the lowest record since 1904.

Practically the entire production of steel ingots was made for use in further processes of manufacture by the producing firms only 371 long tons being made for sale. By far the greater part of the steel ingots was made in basic open hearth furnaces, the amount credited to this source being 36,410 tons.

Acid open hearth production amounted to only 107 tons while a total of 393 tons of ingots was made in electric furnaces.

Direct steel castings produced during the month amounted to 3,127 tons, of which 2,515 tons were made directly for sale. Most of the output came from electric furnaces, and the major part of the remainder from basic open hearths. Small quantities were made by the acid process, and some 200 tons in Bessemer converters.

The totals for the month by classes and grades are shown in the following table:

KIND.	QUANTITY MADE, FOR OWN USE	n trade frame, these dress dress dress dente	O IBS.  POTAL  PRODUCTION
Coen hearth (a) Basic  (b) Acid  Bessemer,  (inc.all converters)  Crucible	7	14	36,430
TOTAL STEEL INGOTS	36,560	371	
Open hearth (a) Basic	57	957 59	1,014
Bessemer, (inc.all converters) Chucable		155	1,822
TOTAL DIRECT STEEL CARO	INGS 613	2,535	3,127

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In order that comparisons may be drawn with pig iron production data, a table, similar to that given in the preceding section, has been made, in which the average monthly output of steed ingots and direct steel castings is shown for the years 1907 to 1916, inclusive, and the actual monthly figures are given for succeeding years. For convenience, the data show the production in thousands of gross tons (2240 lbs.).

AVERAGE MONTHLY PRODUCTION OF STEEL INGOTS AND DURECT STEEL CASTINGS

			- 1907-1916	
		(In 1000's of	Long Tens)	
	YEAR	MONTHLY AVERAGE	YEAR	MONTHLY AVERAGE
-		and and are are are are are are are		
	7007:		3932:	77
	1908	44	1933	
			3,934	
		6.1	1925	
			1916	

TOTAL PRODUCTION OF STEEL INGOTS AND CASTINGS IN CANADA BY MONTHS

#### From 1917 to Date

(In 1600's of Long Tons)

	1211	1918	1919	1220	1221
January February March April May June July August Schleber Movember Todamber	108 108 126 125 129 122 124 136 144 141 100	130 124 161 169 169 147 132 149 164 105	107 90 100 100 656 656 666 682 87	92 84 97 93 93 109 109 129	
MOUTHWY AVERAGE	530	 240	77	92	

