

Published by Authority of the HON. JAMES A. MacKINNON, M.P.
Minister of Trade and Commerce

25-9-41
Price
10 cents

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.

MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

AUGUST - 1941

PIG IRON - Production of pig iron in Canada during August totalled 105,795 tons as compared with 102,005 tons made in the previous month and 88,885 tons in August, 1940. The August total included 86,972 tons of basic iron, 7,604 tons of foundry iron and 11,219 tons of malleable iron.

Blast furnace charges for August, with the totals for eight months in parenthesis included 182,851 (1,465,087) tons of iron ore, 49,369 (394,226) short tons of limestone and 103,211 (829,452) short tons of coke. From the charges for the first eight months of this year a total of 833,351 tons of pig iron were made compared with 734,436 tons and 422,028 tons produced during the corresponding periods of 1940 and 1939, respectively.

FERRO-ALLOYS - Output of 16,251 tons of ferro-alloys in August compares with 17,599 tons in July and 9,697 in August, 1940. This month's total was made up of nine different grades, listed according to tonnage as follows: ferrosilicon, ferrochrome, ferromanganese, silicomanganese, spiegelisen, ferrochrome silicon, calcium silicon, ferrophosphorus and silicospiegeleisen.

STEEL INGOTS AND CASTINGS - Production of steel ingots and direct steel castings totalled 202,746 tons in August compared with 197,316 tons in July and 172,210 tons in August of a year ago. This month's total included 193,034 tons of ingots and 9,712 tons of castings.

During the first eight months of this year the cumulative production of steel amounted to 1,548,497 tons compared with 1,300,033 tons and 813,309 tons during the corresponding periods of 1940 and 1939, respectively.

PRODUCTION IN THE UNITED STATES (From the "Iron Age") - During August, when furnaces were reported to be working at 97.5 per cent of capacity, the production of coke pig iron in the United States averaged 154,562 tons a day compared with 153,896 tons in July. A net gain of 2 active furnaces was recorded, 4 being put in blast and 2 taken off.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING AUGUST AND JULY, 1941 (Tons of 2,240 pounds)

	AUGUST, 1941			JULY, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	86,972	...	86,972	84,879	...	84,879
Foundry .....	...	7,604	7,604	...	6,208	6,208
Malleable .....	...	11,219	11,219	...	10,918	10,918
TOTAL	86,972	18,823	105,795	84,879	17,126	102,005
Ferro-alloys .....	...	16,251	16,251	...	17,599	17,599

Table 2 - CUMULATIVE PRODUCTION FOR THE EIGHT MONTHS ENDING AUGUST, 1941 and 1940

	1 9 4 1			1 9 4 0		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
	(Tons of 2,240 pounds)					
PIG IRON -						
Basic	692,955	5,451	698,406	599,434	19,196	618,630
Foundry .....	...	61,695	61,695	99	67,171	67,270
Malleable	647	72,603	73,250	52	48,484	48,536
TOTAL	693,602	139,749	833,351	599,585	134,851	734,436
Ferro-alloys .....	...	121,730(x)	121,730	...	77,198	77,198

(x) Revised.

Table 3 - IRON BLAST FURNACE CHARGES DURING AUGUST AND JULY AND EIGHT MONTHS ENDING AUGUST, 1941

		AUGUST, 1941	JULY, 1941	EIGHT MONTHS ending AUGUST, 1941
Unit				
Iron ore	Long tons	182,851	177,250	1,465,087
Limestone	Short tons	49,596	48,789	394,226
Coke	Short tons	103,211	102,503	829,452

(b) STEEL INGOTS AND CASTINGS

Table 4 - PRODUCTION DURING AUGUST AND JULY, 1941 (Tons of 2,240 pounds)

	AUGUST, 1941			JULY, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic	168,735	3,442	177,177	158,604	15,849	174,453
Electric	11,904	3,953	15,857	11,359	2,357	13,716
Total Steel Ingots	180,639	12,395	193,034	169,963	18,206	188,169

Table 4 - PRODUCTION DURING AUGUST AND JULY, 1941 (Concluded) (Tons of 2,240 pounds)

	AUGUST, 1941			JULY, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	234	2,305	2,539	228	1,833	2,061
Converter .....	...	210	210	...	200	200
Electric	1,775	5,188	6,963	2,022	4,864	6,886
Total Steel Castings ...	2,009	7,703	9,712	2,250	6,897	9,147
GRAND TOTAL	182,648	20,098	202,746	172,213	25,103	197,316

Table 5 - CUMULATIVE PRODUCTION FOR THE EIGHT MONTHS ENDING AUGUST, 1941 and 1940

	1 9 4 1			1 9 4 0		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
(Tons of 2,240 pounds)						
<u>STEEL INGOTS -</u>						
Open hearth - Basic	1,305,566	81,754	1,387,320	1,143,659	26,700	1,170,359
Electric	86,248	9,017	95,265	81,583	...	81,583
Total Steel Ingots	1,391,814	90,771	1,482,585	1,225,242	26,700	1,251,942
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	1,786	14,592	16,378	2,012	12,127	14,139
Converter .....	...	1,455	1,455	...	956	956
Electric	14,150	33,929	48,079	8,593	24,398	32,996
Total Steel Castings ..	15,936	49,976	65,912	10,610	37,481	48,091
GRAND TOTAL	1,407,750	140,747	1,548,497	1,235,852	64,181	1,300,033

Table 6 - AVERAGE MONTHLY PRODUCTION OF PIG IRON, STEEL INGOTS AND CASTINGS IN CANADA, 1916 - 1939 (In 1000's of long tons)

Year	Monthly Average		Year	Monthly Average	
	Iron	Steel		Iron	Steel
1916	87	106	1928	86	103
1917	87	130	1929	90	115
1918	89	139	1930	62	84
1919	68	77	1931	35	56
1920	81	92	1932	12	28
1921	50	56	1933	19	34
1922	32	40	1934	34	63
1923	73	73	1935	50	78
1924	49	55	1936	57	93
1925	48	63	1937	75	117
1926	63	65	1938	59	96
1927	59	76	1939	63	115



1010636323

- 4 -

Iron and Steel

Table 7 - PRODUCTION OF PIG IRON, BY MONTHS AND BY PROVINCES, and STEEL INGOTS AND CASTINGS, BY MONTHS, 1940 and 1941 (In 1000's of long tons)

	P I G		I R O N		S T E E L			
	NOVA SCOTIA		ONTARIO		TOTAL CANADA		TOTAL CANADA	
	1940	1941	1940	1941	1940	1941	1940	1941
January	34	36	71	67	105	103	167	186
February	23	29	64	62	87	91	140	173
March	34	33	58	69	92	102	157	195
April	31	34	53	69	84	103	153	201
May	37	34	56	80	93	114	175	206
June	33	31	56	81	89	112	166	187
July	34	28	62	74	96	102	170	197
August	34	23	55	83	89	106	172	203
Total - 8 Months ...	260	248	475	585	735	833	1,300	1,548
September	32		73		105		165	
October	35		74		109		185	
November	33		77		110		176	
December	35		75		110		185	
TOTAL	395		774		1,169		2,011	

Table 8 - IRON BLAST FURNACES IN CANADA

Name of Company	Location of furnace	Number of stacks	Total Daily Capacity (Long tons)
Dominion Steel and Coal Corp. Ltd.	Sydney, N.S.	3	1,200
Canadian Furnace Limited	Port Colborne, Ont.	1	350
The Steel Company of Canada, Ltd.	Hamilton, Ont.	2	975
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	1,600

Table 9 - DESCRIPTION OF FURNACES AT END OF AUGUST, 1941

Condition of Furnaces	Number of furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast	8	3,275	79.4
Banked .....	...	...	...
Blown out	2(x)	850	20.6
Total Furnaces Reporting	10	4,125	100.0

(x) One furnace has not operated for some years.

NOTE: Figures in this report are the latest available at time of printing. Where necessary, data for earlier months have been revised.

Unless otherwise specified, a ton equals 2,240 pounds.