

41-003 CV
Published by Authority of the HON. JAMES A. MacKINNON, M.P.
Minister of Trade and Commerce

22-10-41
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

SEPTEMBER - 1941

PIG IRON - Production of pig iron in Canada amounted to 111,757 tons in September as compared with 105,795 tons in the previous month and 105,020 tons in September, 1940. This month's total included 92,772 tons of basic iron, mostly for the use of the producing companies, 7,167 tons of foundry iron and 11,818 tons of malleable iron made for sale.

Two additional furnaces were blown in during the month, one at Sydney, N.S., and one at Hamilton, Ont., making a total of 10 active furnaces on September 30. Blast furnace charges for September, with the totals for the nine months in parenthesis, included 200,308 (1,665,395) tons of iron ore, 52,681 (446,907) short tons of limestone and 112,362 (941,814) short tons of coke. From the charges for the first nine months of this year a total of 945,108 tons of pig iron was made, compared with 839,456 tons and 487,982 tons during the first three quarters of 1940 and 1939, respectively.

FERRO-ALLOYS - Output of 16,912 tons of ferro-alloys in September compares with 16,251 tons in August and 13,147 tons in September, 1940. This month's total was made up of ten different grades, listed according to tonnage, as follows: ferrosilicon, ferrochrome, silicomanganese, ferromanganese, spiegeleisen, silicospiegel, ferrochrome silicon, calcium silicon, calcium manganese silicon and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and steel castings totalled 200,559 tons in September and 202,746 tons in August of this year, and 164,515 tons in September, 1940. This month's total included 190,346 tons of ingots and 12,213 tons of castings.

During the first three quarters of this year the cumulative production of steel amounted to 1,749,056 tons. Corresponding totals for the corresponding periods of 1940 and 1939 were reported at 1,464,548 tons and 937,693 tons.

PRODUCTION IN THE UNITED STATES (From the "Iron Age") - In the United States the output of pig iron during September showed a gain of one per cent over August, the average daily tonnage going to 157,230 from 154,562. The operating rate for this industry was 98.8 per cent of capacity compared with 97.5 per cent in August. On Oct. 1, there were 216 furnaces in blast, compared with 213 in blast on Sept. 1.

Iron and Steel

- 2 -

(a) PIG IRON AND FERRO-ALLOYS

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

	SEPTEMBER, 1941			AUGUST, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	86,536	6,186	92,722	86,972	...	86,972
Foundry .....	...	7,167	7,167	...	7,604	7,604
Malleable .....	...	11,818	11,818	...	11,219	11,219
TOTAL	86,536	25,171	111,757	86,972	18,823	105,795
Ferro-alloys .....	...	16,912	16,912	...	16,251	16,251

Table 2 - CUMULATIVE PRODUCTION FOR THE NINE MONTHS ENDING SEPTEMBER, 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	779,541	11,637	791,178	681,657	23,812	705,469
Foundry .....	...	63,362	63,362	99	74,704	74,803
Malleable	647	34,421	45,068	52	59,152	59,134
TOTAL	780,188	164,320	944,508	681,808	157,648	839,456
Ferro-alloys .....	...	133,642	133,642	...	90,345	90,345

Table 3 - IRON BLAST FURNACE CHARGES DURING SEPTEMBER AND NINE MONTHS ENDING SEPTEMBER, 1941

Unit	SEPTEMBER, 1941	AUGUST, 1941	NINE MONTHS ending SEPTEMBER, 1941
Iron ore Long tons	209,308	132,351	1,885,595
Limestone Short tons	52,681	49,596	446,207
Coke Short tons	112,362	108,211	941,314

(b) STEEL INGOTS AND CASTINGS

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

	SEPTEMBER, 1941			AUGUST, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic	167,347	6,039	173,386	168,735	8,442	177,177
Electric	12,441	4,519	16,960	11,904	3,953	15,857
Total Steel Ingots	179,788	10,558	190,346	180,639	12,395	193,034

Iron and Steel

- 3 -

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

	SEPTEMBER, 1941			AUGUST, 1941		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL CASTINGS -</u>						
Open hearth - Basic	226	2,263	2,489	234	2,305	2,539
Converter .....	...	216	216	...	210	210
Electric	1,324	5,684	7,508	1,775	5,138	6,363
Total Steel Castings ...	2,050	8,163	12,213	2,009	7,703	3,712
GRAND TOTAL	131,353	13,721	200,550	132,643	20,033	202,746

Table 5 - CUMULATIVE PRODUCTION FOR THE NINE MONTHS ENDING SEPTEMBER, 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)						

STEEL INGOTS -

Open hearth - Basic	1,472,913	37,793	1,560,706	1,286,130	33,278	1,319,458
Electric	98,689	15,536	112,225	32,003	...	32,003
Total Steel Ingots	1,571,602	101,329	1,672,931	1,378,133	33,278	1,411,461

STEEL CASTINGS -

Open hearth - Basic	2,012	16,855	13,367	2,224	12,394	15,118
Converter .....	...	1,671	1,671	...	1,111	1,111
Electric	15,274	39,613	55,537	9,999	26,363	36,853
Total Steel Castings ...	17,286	58,139	76,125	12,214	40,873	53,097
GRAND TOTAL	1,589,588	159,468	1,749,056	1,390,337	74,151	1,464,548

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	37	106	1928	36	103
1917	37	130	1929	30	115
1918	39	130	1930	62	34
1919	63	77	1931	35	56
1920	31	32	1932	12	23
1921	50	56	1933	19	34
1922	32	40	1934	34	63
1923	73	73	1935	50	78
1924	49	55	1936	57	95
1925	48	63	1937	75	117
1926	63	65	1938	59	96
1927	59	76	1939	63	115



1010636325

Iron and Steel

- 4 -

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	
	1940	1941	1940	1941	1940	1941
January	34	36	71	67	105	103
February	23	29	64	62	87	91
March	34	33	58	69	92	102
April	31	34	53	69	84	103
May	37	34	56	80	93	114
June	33	31	56	31	92	112
July	34	28	62	74	96	102
August	34	23	55	83	89	106
September	32	24	73	88	105	112
Total - 9 Months ...	292	272	548	673	840	945
October	35		74		109	
November	33		77		110	
December	35		75		110	
TOTAL	395		774		1,169	

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.	3	1,925
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	1,600

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

Condition of Furnaces	Number of furnaces	Total Daily Capacity Long tons	Per cent
In blast	10	4,675	94.0
Banked .....	...	...	...
Blown out	1(x)	300	6.0
Total Furnaces Reporting	11	4,975	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.