

41-003 CV TIN
Published by Authority of the HON. JAMES A. MacKINNON, M.P.

Price -
10 cents

Minister of Trade and Commerce
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

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MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

JUNE, 1940

PIG IRON - Production of pig iron in Canada during June amounted to 88,656 long tons compared with 93,254 tons in the previous month and 52,805 tons in June, 1939. The decline from May averaged 53 tons a day or 1.8 per cent. Output included 75,055 tons of basic iron, 10,877 tons of foundry iron and 2,724 tons of malleable iron.

Blast furnace charges for the month included 163,121 tons of iron ore, 46,488 short tons of limestone and 93,705 short tons of coke. For the year to date cumulative charges amounted to 969,643 tons of ore, 266,723 short tons of limestone and 576,946 short tons of coke from which 549,627 tons of pig iron were produced. During the first half of 1939 production totalled 296,521 tons.

FERRO - ALLOYS - Output of ferro-alloys at 10,128 tons in June compared with 10,272 tons made in May and 10,015 tons in June of a year ago. This month's total included six different alloys listed according to tonnage as follows: ferrosilicon, spiegeleisen, silicomanganese, ferromanganese, ferrochrome and ferro-phosphorus.

STEEL INGOTS AND CASTINGS - Production of 166,213 tons of steel ingots and castings during June compares with 174,417 tons in the next preceding month and 107,902 tons in June of last year. This month's total included 160,594 tons of ingots and 5,619 tons of castings.

For the first half of this year a total of 958,246 tons was produced, against 580,141 tons during the six-month period ending June 30, 1939.

PRICES - Prices of iron and steel products held firm to higher in June and the Dominion Bureau of Statistics index of Iron and Its Products rose from 102.3 in May to 102.6. While no actual shortage of scrap material was reported, imports of scrap iron and steel from the United States were at record levels, May deliveries approximating 50,000 tons. Turnings and borings advanced \$3.50 to \$10.00 per long ton and No. 1 and 2 machinery cast iron each rose \$1.50 to \$17.00 and \$14.00 per ton respectively. Operations in Canadian steel mills approached capacity levels and further large contracts for war materials were placed. No. 1 Foundry pig iron delivered at Toronto was quoted at \$26.00 per ton, the same price as has obtained since October 1939.

UNITED STATES - (From the "Iron Age") - Producers of coke pig iron in the United States operated at 83.9 per cent of capacity to produce an average of 127,297 tons a day in June. This tonnage was 12.3 per cent over that in May when the daily average amounted to 113,345 tons. During the month twelve furnaces were put in blast and two were taken off, a net gain of ten active furnaces.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING JUNE AND MAY, 1940 (Tons of 2,240 pounds)

	JUNE, 1940			MAY, 1940		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	74,360	695	75,055	75,687	2,866	78,553
Foundry .....	...	10,877	10,877	...	7,914	7,914
Malleable .....	...	2,724	2,724	52	6,735	6,787
TOTAL	74,360	14,296	88,656	75,739	17,515	93,254
Ferro-alloys .....	...	10,128	10,128	...	10,272	10,272

Table 2 - CUMULATIVE PRODUCTION FOR THE SIX MONTHS ENDING JUNE, 1940 and 1939 (Tons of 2,240 pounds)

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
PIG IRON -						
Basic	445,985	13,259	459,244	265,595	4,735	270,330
Foundry	99	51,648	51,747	...	17,742	17,742
Malleable	52	38,584	38,636	...	8,449	8,449
TOTAL	446,136	103,491	549,627	265,595	30,926	296,521
Ferro-alloys .....	...	58,244	58,244	...	30,904	30,904

Table 3 - IRON BLAST FURNACE CHARGES DURING JUNE AND MAY, 1940 AND SIX MONTHS ENDING JUNE, 1940

	Unit	JUNE	MAY	SIX MONTHS
Iron ore	Long ton	163,121	(x)170,501	969,643
Limestone	Short ton	46,488	50,120	266,723
Coke	Short ton	93,705	97,376	576,946

(x) Revised

STEEL INGOTS AND CASTINGS

Table 4 - PRODUCTION DURING JUNE AND MAY, 1940 (Tons of 2,240 pounds)

	J U N E			M A Y		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic	141,446	7,605	149,051	148,144	9,529	157,673
Electric	11,543	...	11,543	11,030	...	11,030
Other .....	...	...	...	...	...	...
Total Steel Ingots	152,989	7,605	160,594	159,174	9,529	168,703
STEEL CASTINGS -						
Open hearth - Basic	237	1,112	1,349	290	1,538	1,828
Converter .....	...	146	146	...	121	121
Electric	1,195	2,929	4,124	974	2,791	3,765
Total Direct Steel Castings	1,432	4,187	5,619	1,264	4,450	5,714
GRAND TOTAL	154,421	11,792	166,213	160,438	13,979	174,417

Table 5 - CUMULATIVE PRODUCTION FOR THE SIX MONTHS ending JUNE, 1940 and 1939

	1 9 4 0			1 9 3 9		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
STEEL INGOTS -						
Open hearth - Basic	844,333	17,292	861,625	531,095	555	531,650
Electric	58,937	...	58,937	25,265	...	25,265
Other .....	...	...	...	...	...	...
Total Steel Ingots	903,270	17,292	920,562	556,360	555	556,915
STEEL CASTINGS -						
Open hearth - Basic	1,534	10,329	11,863	876	5,231	6,107
Converter .....	...	707	707	...	311	311
Electric	6,034	19,080	25,114	3,635	13,173	16,808
Total Direct Steel Castings	7,568	30,116	37,684	4,511	18,715	23,226
GRAND TOTAL	910,838	47,408	958,246	560,871	19,270	580,141

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

Table 7 - PRODUCTION OF PIG IRON, BY MONTHS and BY PROVINCES, and STEEL INGOTS and CASTINGS, BY MONTHS, 1939 and 1940 (In 1000's of long tons)

Month	+ P I G I R O N						: S T E E L	
	NOVA SCOTIA		ONTARIO		TOTAL CANADA		: TOTAL CANADA	
	1939	1940	1939	1940	1939	1940	1939	1940
January	16	34	42	71	58	105	78	167
February	13	23	28	64	41	87	77	140
March	12	34	29	58	41	92	96	157
April	19	31	27	53	46	84	100	153
May	25	37	33	56	58	93	121	175
June	24	33	29	56	53	89	108	166
Total - 6 Months	109	192	188	358	297	550	580	958
July	23		36		59		111	
August	23		43		66		122	
September	24		42		66		125	
October	24		62		86		150	
November	25		63		88		147	
December	31		63		94		150	
TOTAL FOR YEAR	259		497		756		1,385	

+ Revised.



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, Limited	Hamilton, Ont.	2	975
The Algoma Steel Corporation	Sault Ste. Marie, Ont.	4	1,600

Table 9 - DESCRIPTION OF FURNACES AT END OF JUNE, 1940

Condition of furnaces	Number of furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast	7	3,175	77
Banked .....	...	...	...
Blown out	3	950	23
Total Furnaces Reporting ...	10	4,125	100

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