

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

Historical File Copy

PRODUCTION OF IRON AND STEEL IN CANADADECEMBER, 1936.

REVIEW FOR 1936 - Pig iron production in Canada during 1936 was 13 per cent higher than in 1935 and the output of primary steel was up 18 per cent. Pig iron at 678,672 long tons and steel at 1,114,550 long tons each recorded an improvement, for the fourth year in succession, after the low in 1932 of 144,130 tons for pig iron and 339,346 tons for steel, but fell short of the high established in 1929 at 1,080,160 tons for pig iron and 1,878,024 tons for steel.

Support for this primary industry was afforded by an improvement in business generally. The employment index for all iron and steel industries advanced to 92.1 on December 1, 1936, from 86.8 on December 1, 1935. The primary group was up to 120.9 from 115.7 but the major gain was to 140.5 from 120.0 in the plants making automobiles and parts, due to plant expansions and extensive retooling operations. The heavy machinery index advanced to 110.4 from 93.6 and the heating appliances index to 121.6 from 105.3. The mining index rose to 150.3 from 131.1.

While production figures covering all iron and steel products are not available customs figures for the year ending November, 1936, when compared with the corresponding period of 1935 show an increase in the imports of iron and its products of \$16 millions and an improvement in the exports of over \$3 millions. Of the increase in imports, rolling mill products accounted for \$3 millions, machinery, \$7 millions, and farm implements, \$3.5 millions. In exports, scrap iron and steel accounted for \$1.3 millions of the gain, blooms, billets and ingots for \$1.1 millions, machinery for \$0.7 millions and tools for \$0.2 millions.

DECEMBER, 1936.

PIG IRON - Production of pig iron in Canada at 68,499 tons in December compares with 74,337 tons in the previous month and 70,647 tons in December of a year ago. The decline from November was in the basic and foundry grades, the former dropping to 57,264 tons from 60,716 tons and the latter to 2,236 tons from 8,104 tons. The malleable grade advanced to 8,999 tons from 5,517 tons in November.

During the month the furnace at Port Colborne, Ontario, was blown out, leaving 5 furnaces in blast on December 31st. The active furnaces represented 51 per cent of the total capacity of all the iron blast furnaces in Canada and were located as follows: 2 at Sydney, N.S., 2 at Hamilton, Ont., and 1 at Sault Ste. Marie, Ont.

During the year 1,218,838 long tons of iron ore, 345,621 short tons of limestone and 674,833 short tons of coke were charged to iron blast furnaces to make 678,672 tons of pig iron. Of the limestone, 120,275 tons were quarried in Canada and of the coke, 602,850 tons were carbonized in Canada including 298,400 tons from Canadian coal.

FERRO-ALLOYS - Output of ferro-alloys amounted to 6,775 tons in December to make a total for the year of 74,065 tons, a gain of 31 per cent over the 56,616 tons made in 1935.

STEEL INGOTS AND CASTINGS - Production of steel ingots and castings during December advanced to 103,952 tons from 98,534 tons in the previous month and 98,888 tons in December, 1935. The improvement over November was accounted for by an advance in the ingots to 100,443 tons from 96,408 tons and in direct castings to 3,509 tons from 2,126 tons.

PRICES - A general rise in basic commodity prices and active trading featured Canadian iron and steel markets in December prior to the holiday season. Consumer demand consisted largely of spot tonnages but some sales for first quarter delivery were reported with bookings of this type rather slow. Keener interest in replacements and in plant improvements in several steel mills was credited to expectations of more extensive overseas orders. The Dominion Bureau of Statistics index number of wholesale prices of "Iron and Its Products" on the base 1926 = 100, rose from 88.3 in November to 91.4 in December, due mainly to higher quotations for pig iron, steel sheets, cast iron pipe and scrap iron and steel. No. 1 foundry pig iron rose from \$22.00 in November to \$24.00 per long ton delivered at Montreal in December. No. 2 foundry advanced from \$21.50 to \$22.00 per long ton at Montreal and from \$21.00 to \$21.50 per long ton at Toronto during this period.

UNITED STATES - In the United States the December production of pig iron averaged 99,843 tons a day, a gain of 1.6 per cent over the daily rate of 98,246 tons of November. During the month there was a gain of 6 active furnaces, 170 being in blast on January 1 as against 164 on December 1. Total output for 1936 at 30.6 million tons was 45.7 per cent over the 21 million tons of the previous year.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - Production during DECEMBER and NOVEMBER, 1936. (Tons of 2,240 lb.)

	DECEMBER, 1936			NOVEMBER, 1936		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>PIG IRON</u> -						
Basic	57,264	...	57,264	48,736	11,980	60,716
Foundry .....	...	2,236	2,236	...	8,104	8,104
Malleable	129	8,870	8,999	...	5,517	5,517
TOTAL	57,393	11,106	68,499	48,736	25,601	74,337
<u>Ferro-alloys</u> .....	...	6,775	6,775	...	5,950	5,950

Table 2 - Cumulative Production for the TWELVE MONTHS ending DECEMBER, 1936 and 1935. (Tons of 2,240 lb.)

	1936			1935		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>PIG IRON</u> -						
Basic	513,953	17,222	531,175	447,913	20,331	468,244
Foundry	1,300	82,493	83,793	...	62,294	62,294
Malleable	2,126	61,578	63,704	...	69,337	69,337
TOTAL	517,379	161,293	678,672	447,913	151,962	599,875
<u>Ferro-alloys</u> .....	...	74,065	74,065	...	56,616	56,616

Table 3 - Iron Blast Furnace Charges, DECEMBER, NOVEMBER, and YEAR TO DATE, 1936.

		DECEMBER	NOVEMBER	YEAR TO DATE
Imported iron ore	long tons	128,115	135,232	1,218,838
Canadian limestone	short tons	11,561	10,567	120,275
Imported limestone	short tons	25,356	26,787	225,346
Coke made in Canada -				
From Canadian coal	short tons	29,959	29,101	298,400
From imported coal	short tons	33,315	31,730	304,450
Imported coke	short tons	3,865	10,444	71,983

(b) STEEL INGOTS AND DIRECT CASTINGS

Table 4 - Production for DECEMBER and NOVEMBER, 1936. (Tons of 2,240 lb.)

	DECEMBER, 1936			NOVEMBER, 1936		
	For own use	For sale	TOTAL	For own use	For sale	TOTAL
<u>STEEL INGOTS</u>						
Open hearth - Basic	95,545	55	95,600	92,341	...	92,341
Electric	4,843	...	4,843	4,067	...	4,067
Other .....	...	...	...	...	...	...
Total Steel Ingots	100,388	55	100,443	96,408	...	96,408
<u>STEEL CASTINGS</u>						
Open hearth -, Basic	172	751	923	141	387	528
Bessemer .....	...	72	72	...	34	34
Electric	473	2,041	2,514	177	1,387	1,564
Total Direct Steel Castings ..	645	2,864	3,509	318	1,808	2,126
GRAND TOTAL	101,033	2,919	103,952	96,726	1,808	98,534

Table 5 - Cumulative Production for the TWELVE MONTHS ending DECEMBER, 1936 and 1935.

	1	9	3	6	1	9	3	5
	For own use	For sale		TOTAL	For own use	For sale		TOTAL
<u>STEEL INGOTS</u>								
Open hearth - Basic	1,036,951	55	1,037,006	871,681	763	872,444		
Electric	43,506	...	43,506	36,742	...	36,742		
Other .....	...	...	...	...	...	...
Total Steel Ingots	1,080,457	55	1,080,512	908,423	763	909,186		
<u>STEEL CASTINGS</u>								
Open hearth - Basic	1,421	8,744	10,165	1,615	7,504	9,119		
Bessemer .....	...	565	565	...	645	645		
Electric	3,460	19,848	23,308	3,995	18,582	22,577		
Total Direct Steel Castings ..	4,881	29,157	34,038	5,610	26,731	32,341		
GRAND TOTAL	1,085,338	29,212	1,114,550	914,033	27,494	941,527		

1010636236

Table 6 - Average Monthly Production of Pig Iron, Steel Ingots and Castings in Canada, 1916 - 1935. (In 1000's of long tons)

Years	Monthly Average		Years	Monthly Average	
	Iron	Steel		Iron	Steel
1916	87	106	1926	63	64
1917	87	130	1927	59	76
1918	89	140	1928	86	103
1919	68	77	1929	91	115
1920	61	92	1930	62	84
1921	50	56	1931	36	56
1922	32	40	1932	12	29
1923	73	74	1933	19	34
1924	49	54	1934	34	63
1925	48	63	1935	50	78

Table 7 - Production of Pig Iron, by Months and by Provinces, and Steel Ingots and Castings, by Months, 1935 and 1936. (In 1000's of long tons)

Month	P I G		I R O N		: S T E E L	
	NOVA SCOTIA		ONTARIO		TOTAL CANADA	
	1935	1936	1935	1936	1935	1936
January	17	18	27	43	44	61
February	16	21	21	35	37	56
March	17	22	28	32	45	54
April	16	23	27	31	43	54
May	16	27	29	32	45	59
June	15	27	30	29	45	56
July	17	12	34	23	51	35
August	17	11	37	28	54	39
September	17	15	37	37	54	52
October	11	26	35	44	46	70
November	23	28	42	46	65	74
December	26	28	45	40	71	68
TOTAL	208	258	392	420	600	678
Monthly Average	17	21	33	35	50	56

Table 8 - Iron Blast Furnaces in Canada, 1936.

Names of Companies	Location of furnaces	Number of stacks	Total Daily Capacity (long tons)
Dominion Steel & Coal Corp. Ltd.	Sydney, N.S.	4	1,450
Canadian Furnace Co. Ltd.	Port Colborne, Ont.	1	350
The Steel Company of Canada, Limited	Hamilton, Ont.	2	825
Algoma Steel Corporation, Ltd.	Sault Ste. Marie, Ont.	4	1,600

Table 9 - Description of Furnaces at end of DECEMBER, 1936.

Condition of furnace	Number of furnaces	TOTAL DAILY CAPACITY	
		Long tons	Per cent
In blast	5	2,175	51
Banked	6	2,050	49
Blown out	11	4,225	100
Total Furnaces reporting			

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