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on

PRODUCTION OF IRON AND STEEL

in Canada

SEPTEMBER 1928

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DOMINION BUREAU OF STATISTICS, CANADA
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PRODUCTION OF IRON AND STEEL IN CANADA

SEPTEMBER 1928

PIG IRON.-- Production of pig iron in Canada during September at 90,516 long tons was slightly under the output of 91,522 tons in August but was almost double the total of 52,470 tons reported for September of last year. Compared with data for the previous month September figures showed increases in the tonnages of basic and foundry grades but these were not sufficient to offset the sharp decline in the output of malleable iron. Output of basic iron advanced to 57,424 tons from 54,826 tons, and foundry iron to 21,292 tons from 15,215 tons, while the tonnage of malleable iron dropped to 11,800 tons from 21,481 tons.

For the nine months ending September 30, 1928, the cumulative production of pig iron totalled 745,473 tons, an increase of 31 per cent over the 570,414 tons made during the corresponding period of a year ago which in turn was 15 per cent greater than the output of 496,876 tons during the first nine months of 1926. Production this year included 525,449 tons of basic iron, 160,976 tons of foundry iron and 59,048 tons of malleable iron; of the total tonnage, 525,186 tons, or 70 per cent, were made for the further use of the producers and the remainder, 220,287 tons, or 30 per cent, was intended for sale.

Blast furnace charges during September included 157,314 long tons of imported iron ore, 47,376 short tons of limestone and 103,636 tons of coke. This year, to the end of the third quarter, blast furnace charges totalled 1,293,426 tons of imported iron ore, 409,118 short tons of limestone and 812,739 short tons of coke. Of the total limestone used only 92,954 tons were of Canadian origin, and of the total coke charged, 264,392 tons were made in Canada from Canadian coal, 507,479 tons were made in Canada from imported coal and the remainder was imported.

The number of furnaces in blast on September 30 remained the same as on August 31. The active furnaces had a daily capacity of 2,775 long tons per day and were located as follows: 2 at Sydney, N.S.; 2 at Hamilton, Ont.; 2 at Sault Ste. Marie, Ont.; and 1 at Port Colborne, Ont.

FERRO-ALLOYS.- Production of ferro-alloys in Canada fell off sharply in September to 2,008 tons from 2,537 tons in the previous month. For the nine months' period production totalled 33,414 tons, a decline of 28 per cent from the 42,834 tons produced during the corresponding period of last year. The output in both years consisted of the grades running 78 to 80 per cent manganese and 15 to 90 per cent silicon.

STEEL INGOTS AND CASTINGS.- Production of steel ingots and direct steel castings in Canada during September amounted to 99,888 long tons, an increase of 13 per cent over the 88,677 tons of August and 84 per cent greater than the 54,250 tons reported for September of a year ago. The gain over August was due to the advance in the tonnage of steel ingots to 97,275 tons from 85,631 tons while the output of direct steel castings dropped to 2,613 tons from 3,046 tons.

Cumulative production for the first nine months of the year totalled 919,710 tons. This tonnage was 36 per cent over the 674,289 tons produced during the first three quarters of 1927 which in turn was 12 per cent above the 600,542 tons made during the corresponding period of 1926. This year's output, to date, included 888,039 tons of steel ingots and 31,671 tons of direct steel castings.

PRICES.- Pig iron prices were again unchanged in September, No. 1 and No. 2 foundry at Montreal being still quoted at \$25.00 to \$25.50. At Toronto both grades were \$23.10 to \$23.60. The Bureau's index for the group, Iron and Its Products, (1913 prices = 100) was practically stationary, being 138.6 in August and 138.7 in September.

UNITED STATES.- In the United States the average rate of pig iron production during September was 102,077 tons per day, a gain of 897 tons or less than 1 per cent over the daily rate of August. While the actual increase was small there was a large net gain in the number of active furnaces, most of which were put in operation during the closing days of the month; 17 were blown in and 3 were shut down, a net gain of 14.

PIG IRON AND FERRO-ALLOYS IN CANADA

Table 1. PRODUCTION FOR THE CURRENT AND PRECEDING MONTH (Tons of 2240 lb.)

ITEM	SEPTEMBER 1928			AUGUST 1928		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	57,001	423	57,424	54,091	735	54,826
Foundry.....	140	21,152	21,292	198	15,017	15,215
Malleable.....	-----	11,800	11,800	-----	21,481	21,481
TOTAL.....	57,141	33,375	90,516	54,289	37,233	91,522
Ferro-alloys.....	-----	2,008	2,008	-----	2,537	2,537

Table 2. CUMULATIVE PRODUCTION FOR THE NINE MONTHS ENDING SEPTEMBER
(Tons of 2240 lb.)

ITEM	1928			1927		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
In blast furnace:						
Basic.....	517,816	7,633	525,449	390,792	10,526	401,318
Foundry.....	7,370	153,606	160,976	6,773	130,929	137,702
Malleable.....	-----	59,048	59,048	-----	31,394	31,394
TOTAL.....	525,186	220,287	745,473	397,565	172,849	570,414
Ferro-alloys.....	-----	33,414	33,414	-----	42,834	42,834

Table 3. BLAST FURNACE CHARGES - SEPTEMBER, AUGUST AND YEAR TO DATE

		SEPTEMBER 1928	AUGUST 1928	YEAR TO DATE
Imported Iron ore.....	Long tons	157,314	156,773	1,293,426
Canadian Limestone.....	Short tons	9,463	10,665	92,954
Imported Limestone.....	" "	37,913	36,354	316,164
Coke made in Canada:-				
From Canadian coal.....	" "	30,368	30,480	264,392
From Imported coal.....	" "	63,733	54,819	507,479
Imported coke.....	" "	9,535	10,699	40,868

STEEL INGOTS AND CASTINGS IN CANADA

Table 4 PRODUCTION FOR THE CURRENT AND PRECEDING MONTH (Tons of 2240 lb.)

ITEM	SEPTEMBER 1928			AUGUST 1928		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS:						
Open Hearth-Basic	95,665	-----	95,665	84,487	-----	84,487
Acid	-----	-----	-----	-----	-----	-----
Electric	685	-----	685	852	-----	852
Other	925	-----	925	292	-----	292
TOTAL STEEL INGOTS	97,275	-----	97,275	85,631	-----	85,631
STEEL CASTINGS:						
Open Hearth-Basic	187	1,123	1,310	186	1,246	1,432
Acid	-----	-----	-----	-----	-----	-----
Bessemer	11	110	121	4	184	188
Electric	5	1,177	1,182	3	1,423	1,426
TOTAL DIRECT STEEL CASTINGS	203	2,410	2,613	193	2,853	3,046
GRAND TOTAL	97,478	2,410	99,888	85,824	2,853	88,677

Table 5 CUMULATIVE PRODUCTION for the NINE MONTHS ending SEPTEMBER

	1928			1927		
	For Own Use	For Sale	TOTAL	For Own Use	For Sale	TOTAL
STEEL INGOTS.						
Open Hearth-Basic	874,864	-----	874,864	636,017	-----	636,017
Acid	-----	-----	-----	-----	-----	-----
Electric	7,463	184	7,647	-----	-----	-----
Other	5,345	183	5,528	5,468	13	5,481
TOTAL STEEL INGOTS	887,672	367	888,039	641,485	13	641,498
STEEL CASTINGS:						
Open Hearth-Basic	1,716	13,173	14,889	1,432	14,566	15,998
Acid	-----	-----	-----	-----	-----	-----
Bessemer	79	1,361	1,440	67	1,572	1,639
Electric	170	15,172	15,342	207	14,947	15,154
TOTAL DIRECT STEEL CASTINGS	1,965	29,706	31,671	1,706	31,085	32,791
GRAND TOTAL	889,637	30,073	919,710	643,191	31,098	674,289

Table 6 AVERAGE MONTHLY PRODUCTION OF
PIG IRON, STEEL INGOTS AND CASTINGS
IN CANADA, 1915 - 1926.
(in 1000's of Long Tons)

YEAR	MONTHLY AVERAGE		YEAR	MONTHLY AVERAGE	
	Iron	Steel		Iron	Steel
1915	68	76	1921	50	56
1916	87	106	1922	32	40
1917	87	130	1923	73	74
1918	89	140	1924	49	54
1919	68	77	1925	48	63
1920	81	92	1926	63	64

TABLE 7 PRODUCTION OF PIG IRON BY MONTHS AND BY PROVINCES, AND STEEL
INGOTS AND CASTINGS BY MONTHS IN CANADA (In 1000's of
Long Tons) 1927-1928.

MONTH	PIG IRON						STEEL	
	Nova Scotia		Ontario		Total Canada		Total Canada	
	1927	1928	1927	1928	1927	1928	1927	1928
January	22	22	30	43	52	65	59	84
February	20	24	31	41	51	65	56	99
March	25	26	51	52	76	78	107	118
April	24	25	53	50	77	75	109	113
May	24	24	55	64	79	88	97	118
June	21	24	48	73	69	97	60	117
July	20	21	31	74	51	95	55	83
August	16	23	47	69	63	92	77	89
September	14	24	38	67	52	91	54	100
October	15		23		38		56	
November	21		17		38		81	
December	26		37		63		96	
TOTAL	248	213	461	533	709	746	907	921
MONTHLY AVERAGE	21	24	38	59	59	83	76	102

Table 8. BLAST FURNACES IN CANADA, 1928 REVISED

Name of Company	Location	Number of Stacks	Total Daily Capacity (Long Tons)
British Empire Steel Corporation, Ltd.	Sydney, N.S.	4	1,400
Canadian Furnace Co., Ltd.	Port Colborne, Ont.	1	300
The Steel Company of Canada, Ltd.,	Hamilton, Ont.	2	825
Algoma Steel Corporation, Ltd.	Sault Ste. Marie, Ont.	4	1,600
TOTAL		11	4,125

Table 9. DESCRIPTION OF FURNACES AT END OF SEPTEMBER 1928

Condition of Furnace	Number of Furnaces	Total Daily Capacity	
		Long tons	Per cent
In blast.....	7	2,775	67
Banked.....	-	-	-
Blown out.....	4	1,350	33
Total furnaces reporting.....	11	4,125	100

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