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on

PRODUCTION OF IRON AND STEEL

in Canada

MARCH 1929

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

MARCH 1929

PIG IRON.— Production of pig iron in Canada as reported by the Dominion Bureau of Statistics for March, amounted to 86,176 long tons. This output, while 8 per cent under the total of 93,939 tons for the previous month, was the greatest tonnage for any March since 1918 and exceeded by 10 per cent the 78,390 tons for March, 1928. Compared with the figures of the preceding month March records showed that the tonnage of foundry iron advanced to 7,958 tons from 5,947 tons, while basic iron dropped to 74,070 tons from 82,835 tons and malleable iron to 4,148 tons from 5,157 tons.

Furnace charges for the month included 154,756 long tons of imported iron ore, 50,674 short tons of limestone and 98,708 short tons of coke. Of the limestone 10,548 tons were of Canadian origin; of the coke 65,535 tons were made from Canadian coal and 29,471 tons were made in Canada from imported coal. The balance of the limestone and coke were imported.

No additional furnaces were blown in during the month and none were shut down, leaving the same 7 furnaces in blast at the end of March as on February 28th. The active furnaces had a daily capacity of 2,775 long tons per day, or about 67 per cent of the total capacity of all blast furnaces in Canada, and were located as follows: 3 at Sydney, N.S., 2 at Hamilton, Ont., and 2 at Sault Ste. Marie, Ont.

For the three months ending March 31, 1929, the cumulative production of pig iron totalled 267,879 tons, an increase of 29 per cent over the 208,087 tons produced in the corresponding period of last year which in turn was 17 per cent better than the 178,049 tons reported for the first quarter of 1927.

FERRO-ALLOYS.— Production of ferro-alloys in Canada during March amounted to 5,972 tons marking a slight increase over the total of 5,790 tons for February. For the first three months of this year the tonnage totalled 18,237 tons as compared with 13,304 tons during the first quarter of a year ago.

STEEL INGOTS AND CASTINGS.- March production of 137,158 tons of steel ingots and direct steel castings is reported by the Dominion Bureau of Statistics as the best monthly output since October, 1918, when the total was 164,000 tons. The total for March was 16 per cent higher than the 118,258 tons of March, 1928, and 17 per cent over the 117,445 tons produced in February of this year. Compared with the figures for the previous month, data for March showed an advance in the output of steel ingots to 131,329 tons from 112,027 tons and in direct steel castings to 5,829 tons from 5,418 tons.

Production for the three months ending March totalled 370,863 tons. This was the best first quarter tonnage reported since 1918 and exceeded the total of 301,373 tons for the corresponding period of a year ago by 23 per cent. This year's output to date included 354,362 tons of steel ingots and 16,501 tons of steel castings. Most of the ingots were made for the further use of the producers and the greater part of the tonnage of castings was intended for sale.

PRICES.- Pig iron prices were again unchanged in March, No. 1 foundry at Montreal being quoted at \$25.50 to \$26.00 and No. 2 foundry at \$25.00 to \$25.50 while at Toronto both grades were still \$24.10 to \$24.60. The Bureau's index of prices for the group "Iron and its Products" on the base 1926 = 100 was 93.4 as compared with 93.3 in February, the rise being due chiefly to advances in some lines of steel scrap.

UNITED STATES.- In the United States production of pig iron during March amounted to 119,822 tons per day. This daily rate was the best reported since June, 1923, and exceeded by 4.6 per cent the February average of 114,507 tons. The gain in February over January was 3.1 per cent. During the month 9 furnaces were blown in and 4 were shut down, a net gain of 5, the same as in February.

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PIG IRON AND FERRO-ALLOYS IN CANADA

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

| ITEM | MARCH 1929 | | | FEBRUARY 1929 | | |
|-------------------|----------------|----------|--------|----------------|----------|--------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| In blast furnace: | | | | | | |
| Basic..... | 73,848 | 222 | 74,070 | 82,641 | 194 | 82,835 |
| Foundry..... | 145 | 7,813 | 7,958 | 151 | 5,796 | 5,947 |
| Malleable..... | ----- | 4,148 | 4,148 | ----- | 5,157 | 5,157 |
| TOTAL..... | 73,993 | 12,183 | 86,176 | 82,792 | 11,147 | 93,939 |
| Ferro-alloys..... | ----- | 5,972 | 5,972 | ----- | 5,790 | 5,790 |

Table 2. CUMULATIVE PRODUCTION FOR THE THREE MONTHS ENDING MARCH
(Tons of 2240 lb.)

| ITEM | 1929 | | | 1928 | | |
|-------------------|----------------|----------|---------|----------------|----------|---------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| In blast furnace: | | | | | | |
| Basic..... | 211,464 | 624 | 212,088 | 161,104 | 4,367 | 165,471 |
| Foundry..... | 439 | 45,522 | 45,961 | 6,479 | 26,423 | 32,902 |
| Malleable..... | ----- | 9,830 | 9,830 | ----- | 9,714 | 9,714 |
| TOTAL..... | 211,903 | 55,976 | 267,879 | 167,583 | 40,504 | 208,087 |
| Ferro-alloys..... | ----- | 18,237 | 18,237 | ----- | 13,304 | 13,304 |

Table 3. BLAST FURNACE CHARGES - MARCH, FEBRUARY, AND YEAR TO DATE

| | | MARCH 1929 | FEBRUARY 1929 | YEAR TO DATE |
|-------------------------|------------|------------|---------------|-----------------|
| Imported Iron ore..... | Long tons | 154,756 | 151,722 | 460,975 |
| Canadian Limestone..... | Short tons | 10,548 | 9,411 | 30,405 |
| Imported Limestone..... | " " | 40,126 | 40,549 | 116,586 |
| Coke made in Canada:- | | | | |
| From Canadian coal..... | " " | 65,535 | 39,337 | 131,512 |
| From Imported coal..... | " " | 29,471 | 49,820 | 136,172 |
| Imported coke..... | " " | 3,702 | 6,347 | 22,403 |

STEEL INGOTS AND CASTINGS IN CANADA

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

| ITEM | MARCH 1929 | | | FEBRUARY 1929 | | |
|--------------------------------|----------------|----------|---------|----------------|----------|---------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| STEEL INGOTS: | | | | | | |
| Open Hearth-Basic | 128,610 | 178 | 128,788 | 109,976 | 241 | 110,217 |
| Acid | ----- | ----- | ----- | ----- | ----- | ----- |
| Electric | 1,230 | ----- | 1,230 | 841 | ----- | 841 |
| Other | 1,311 | ----- | 1,311 | 969 | ----- | 969 |
| TOTAL STEEL INGOTS | 131,151 | 178 | 131,329 | 111,786 | 241 | 112,027 |
| STEEL CASTINGS: | | | | | | |
| Open Hearth-Basic | 184 | 27 | 211 | 174 | 298 | 472 |
| Acid | 4 | 2,541 | 2,545 | 5 | 2,212 | 2,217 |
| Bessemer | 7 | 325 | 332 | 10 | 321 | 331 |
| Electric | 10 | 2,731 | 2,741 | 8 | 2,390 | 2,398 |
| TOTAL DIRECT STEEL CASTINGS | 205 | 5,624 | 5,829 | 197 | 5,221 | 5,418 |
| GRAND TOTAL | 131,356 | 5,802 | 137,158 | 111,983 | 5,462 | 117,445 |

Table 5 CUMULATIVE PRODUCTION for the THREE MONTHS ending MARCH

| | 1929 | | | 1928 | | |
|--------------------------------|-------------|----------|---------|-------------|----------|---------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| STEEL INGOTS. | | | | | | |
| Open Hearth-Basic | 346,933 | 419 | 347,352 | 285,504 | ----- | 285,504 |
| Acid | ----- | ----- | ----- | ----- | ----- | ----- |
| Electric | 3,106 | ----- | 3,106 | 2,723 | 60 | 2,783 |
| Other | 3,904 | ----- | 3,904 | 1,517 | 183 | 1,700 |
| TOTAL STEEL INGOTS | 353,943 | 419 | 354,362 | 289,744 | 243 | 289,987 |
| STEEL CASTINGS: | | | | | | |
| Open Hearth-Basic | 533 | 378 | 911 | 528 | 4,638 | 5,166 |
| Acid | 24 | 7,254 | 7,278 | ----- | ----- | ----- |
| Bessemer | 25 | 872 | 897 | 15 | 471 | 486 |
| Electric | 24 | 7,391 | 7,415 | 127 | 5,607 | 5,734 |
| TOTAL DIRECT STEEL CASTINGS | 606 | 15,895 | 16,501 | 670 | 10,716 | 11,386 |
| GRAND TOTAL | 354,549 | 16,314 | 370,863 | 290,414 | 10,959 | 301,373 |

Table 6 AVERAGE MONTHLY PRODUCTION OF

PIG IRON, STEEL INGOTS AND CASTINGS

IN CANADA, 1916 - 1927.

(In 1000's of Long Tons)

| YEAR | MONTHLY AVERAGE | | YEAR | MONTHLY AVERAGE | |
|-----------|-----------------|-------|-----------|-----------------|-------|
| | Iron | Steel | | Iron | Steel |
| 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 |
| 1921..... | 50 | 56 | 1927..... | 59 | 76 |

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) 1928-1929.

| MONTH | PIG IRON | | | | STEEL | | | |
|----------------------|-------------|------|---------|------|--------------|------|--------------|------|
| | Nova Scotia | | Ontario | | Total Canada | | Total Canada | |
| | 1928 | 1929 | 1928 | 1929 | 1928 | 1929 | 1928 | 1929 |
| January..... | 22 | 21 | 43 | 67 | 65 | 88 | 84 | 116 |
| February..... | 24 | 41 | 41 | 53 | 65 | 94 | 99 | 117 |
| March..... | 26 | 32 | 52 | 54 | 78 | 86 | 118 | 137 |
| April..... | 25 | | 50 | | 75 | | 113 | |
| May..... | 24 | | 64 | | 88 | | 118 | |
| June..... | 24 | | 73 | | 97 | | 117 | |
| July..... | 21 | | 74 | | 95 | | 83 | |
| August..... | 23 | | 69 | | 92 | | 89 | |
| September..... | 24 | | 67 | | 91 | | 100 | |
| October..... | 25 | | 68 | | 93 | | 109 | |
| November..... | 30 | | 65 | | 95 | | 108 | |
| December..... | 35 | | 68 | | 103 | | 103 | |
| TOTAL..... | 303 | 94 | 734 | 174 | 1,037 | 268 | 1,241 | 370 |
| MONTHLY AVERAGE..... | 25 | 31 | 61 | 58 | 86 | 89 | 103 | 123 |

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 MARCH 1929

| 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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