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CANADA

DEPARTMENT OF TRADE AND COMMERCE

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on
PRODUCTION OF IRON AND STEEL
in Canada

APRIL 1930

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PRODUCTION OF IRON AND STEEL IN CANADA

APRIL 1930

PIG IRON.- Production of pig iron in Canada during April was maintained at a slightly higher daily rate than in the preceding month. April output averaged 2,411 tons per day to make a total of 72,339 tons while the corresponding figures for March showed a daily average of 2,406 tons or a total of 74,582 tons. In April of last year production aggregated 79,341 tons.

Compared with the figures for the previous month, data for April showed an increased output of the basic and foundry grades, this gain being offset by a decline in the tonnage of malleable iron. Production of basic iron advanced to 59,338 tons from 57,234 tons, and foundry iron increased to 11,175 tons from 9,054 tons but malleable iron dropped to 1,826 tons from 8,294 tons.

For the four months ending February, the cumulative production of pig iron totalled 304,600 tons, a decline of 12 per cent from the 347,220 tons reported for the first four months of a year ago. This year's output to date included 216,732 tons of basic iron, 61,130 tons of foundry iron and 26,738 tons of malleable iron.

Blast furnace charges during the month under review, included 131,763 long tons of imported iron ore, 40,521 short tons of limestone and 82,283 short tons of coke. Of limestone, 11,277 tons were mined in Canada; and all of the coke was carbonized in Canada but only 28,897 tons were made from Canadian coal.

On April 1 a 500 ton furnace was blown in at Sydney and on April 5 a 300 ton furnace was blown out, leaving six furnaces in blast in Canada on April 30, the same number as on March 31. These active furnaces had a daily capacity of 2,375 long tons per day, or about 57 per cent of the total capacity of all iron blast furnaces in Canada and were located as follows: 2 at Sydney, N.S.; 2 at Hamilton, Ont.; and 2 at Sault Ste. Marie, Ont.

FERRO-ALLOYS.- Production of ferro-alloys in Canada during April at 7,389 tons was the highest tonnage reported since the 7,418 tons of November, 1929, and compares with 5,279 tons in March. This month's total included two grades, ferrosilicon and ferromanganese.

STEEL INGOTS AND CASTINGS.- Production of steel ingots and direct steel castings in Canada during April totalled 102,691 tons. This tonnage was the lowest reported for any month of the year to date, being 13 per cent under the 117,487 tons of the previous month, and compares with a production of 122,102 tons in April of a year ago. The decline from March was mostly accounted for by the lowered output of basic open hearth steel ingots which dropped to 92,183 tons from 106,674 tons; direct steel castings declined slightly to 7,586 tons from 7,812 tons.

For the four months ending April, the cumulative production of steel ingots and direct steel castings amounted to 441,968 tons, a decline of 10 per cent from the total of 492,965 tons made in the corresponding period of last year which in turn was 19 per cent better than the 414,153 tons reported for the first four months of 1928. This year's output to date included 413,378 tons of steel ingots and 28,602 tons of steel castings.

PRICES.- Early April markets for pig iron were moderately active until buyers had covered immediate needs. Later in the month, however, sales declined to the lowest point reached so far this year. Prices for No. 1 and No. 2 foundry pig iron did not change at Toronto and Montreal. No. 1 in these markets sold at \$22.60 and \$24.00 per gross ton respectively. The Bureau's index for "Iron and its products" changed from 92.6 to 92.5 in April due to lower prices for malleable and basic pig iron and steel billets.

UNITED STATES.- In the United States the rate of pig iron production in April amounted to 106,062 tons per day, or slightly better than 1 per cent over the average of 104,715 tons a day in March. The rate of output was back again to that of last November when the daily production was 106,047 tons. During the month seven furnaces were blown in and nine shut down, a net loss of two active furnaces.

PIG IRON AND FERRO-ALLOYS IN CANADA

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

| ITEM | APRIL 1930 | | | MARCH 1930 * | | |
|-------------------|----------------|----------|--------|----------------|----------|--------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| In blast furnace: | | | | | | |
| Basic..... | 58,651 | 687 | 59,338 | 56,841 | 393 | 57,234 |
| Foundry..... | | 11,175 | 11,175 | 189 | 8,865 | 9,054 |
| Malleable..... | | 1,826 | 1,826 | | 8,294 | 8,294 |
| TOTAL..... | 58,651 | 13,688 | 72,339 | 57,030 | 17,552 | 74,582 |
| Ferro-alloys..... | | 7,389 | 7,389 | | 5,279 | 5,279 |

Table 2. CUMULATIVE PRODUCTION FOR THE FOUR MONTHS ENDING APRIL
(Tons of 2240 lb.)

| ITEM | 1930 | | | 1929 | | |
|-------------------|----------------|----------|---------|----------------|----------|---------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| In blast furnace: | | | | | | |
| Basic..... | 215,319 | 1,413 | 216,732 | 268,653 | 1,074 | 269,727 |
| Foundry..... | 571 | 60,559 | 61,130 | 536 | 64,464 | 65,000 |
| Malleable..... | | 26,738 | 26,738 | | 12,493 | 12,493 |
| TOTAL..... | 215,890 | 88,710 | 304,600 | 269,189 | 78,031 | 347,220 |
| Ferro-alloys..... | | 24,432 | 24,432 | | 23,981 | 23,981 |

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

| | APRIL | MARCH | YEAR TO DATE |
|------------------------------------|---------|---------|-----------------|
| Imported Iron ore..... Long tons | 131,763 | 133,084 | 550,886 |
| Canadian Limestone..... Short tons | 11,277 | 12,116 | 45,095 |
| Imported Limestone..... " " | 29,244 | 30,445 | 123,627 |
| Coke made in Canada:- | | | |
| From Canadian coal..... " " | 28,897 | 27,056 | 108,335 |
| From Imported coal..... " " | 53,386 | 53,468 | 209,548 |
| Imported coke..... " " | | | 14,901 |

* Revised

STEEL INGOTS AND CASTINGS IN CANADA

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

| ITEM | APRIL 1930 | | | MARCH 1930 | | |
|--------------------------------|----------------|----------|---------|----------------|----------|---------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| STEEL INGOTS: | | | | | | |
| Open Hearth-Basic | 92,132 | 51 | 92,183 | 106,674 | ----- | 106,674 |
| Acid | ----- | ----- | ----- | ----- | ----- | ----- |
| Electric | 2,038 | ----- | 2,038 | 2,062 | ----- | 2,062 |
| Other | 874 | ----- | 874 | 939 | ----- | 939 |
| TOTAL STEEL INGOTS | 95,044 | 51 | 95,095 | 109,675 | ----- | 109,675 |
| STEEL CASTINGS: | | | | | | |
| Open Hearth-Basic | 142 | 3,702 | 3,844 | 148 | 3,720 | 3,868 |
| Acid | ----- | ----- | ----- | ----- | ----- | ----- |
| Bessemer | 4 | 289 | 293 | 5 | 257 | 262 |
| Electric | 11 | 3,438 | 3,449 | 31 | 3,648 | 3,682 |
| TOTAL DIRECT STEEL CASTINGS | 157 | 7,429 | 7,586 | 187 | 7,625 | 7,812 |
| GRAND TOTAL | 95,201 | 7,480 | 102,681 | 109,862 | 7,625 | 117,487 |

Table 5 CUMULATIVE PRODUCTION for the FOUR MONTHS ending APRIL

| | 1930 | | | 1929 | | |
|--------------------------------|-------------|----------|---------|-------------|----------|---------|
| | For Own Use | For Sale | TOTAL | For Own Use | For Sale | TOTAL |
| STEEL INGOTS. | | | | | | |
| Open Hearth-Basic | 400,940 | 171 | 401,111 | 461,047 | 515 | 461,562 |
| Acid | ----- | ----- | ----- | ----- | ----- | ----- |
| Electric | 8,117 | ----- | 8,117 | 3,811 | ----- | 3,811 |
| Other | 4,150 | ----- | 4,150 | 4,871 | ----- | 4,871 |
| TOTAL STEEL INGOTS | 413,207 | 171 | 413,378 | 469,729 | 515 | 470,244 |
| STEEL CASTINGS: | | | | | | |
| Open Hearth-Basic | 710 | 13,782 | 14,492 | 714 | 3,427 | 4,141 |
| Acid | ----- | ----- | ----- | 24 | 7,254 | 7,278 |
| Bessemer | 19 | 892 | 911 | 29 | 1,080 | 1,109 |
| Electric | 93 | 13,106 | 13,199 | 47 | 10,146 | 10,193 |
| TOTAL DIRECT STEEL CASTINGS | 822 | 27,780 | 28,602 | 814 | 21,907 | 22,721 |
| GRAND TOTAL | 414,029 | 27,951 | 441,980 | 470,543 | 22,422 | 492,965 |

Table 6 AVERAGE MONTHLY PRODUCTION OF

PIG IRON, STEEL INGOTS AND CASTINGS

IN CANADA, 1916 - 1929.

(In 1000's of Long Tons)

| YEAR | MONTHLY AVERAGE | | YEAR | MONTHLY AVERAGE | |
|------|-----------------|-------|------|-----------------|-------|
| | Iron | Steel | | Iron | Steel |
| 1916 | 87 | 106 | 1923 | 73 | 74 |
| 1917 | 87 | 130 | 1924 | 49 | 54 |
| 1918 | 89 | 140 | 1925 | 48 | 63 |
| 1919 | 68 | 77 | 1926 | 63 | 64 |
| 1920 | 81 | 92 | 1927 | 59 | 76 |
| 1921 | 50 | 56 | 1928 | 86 | 103 |
| 1922 | 32 | 40 | 1929 | 91 | 115 |

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) 1929-1930.

| MONTH | PIG IRON | | | | STEEL | | | |
|-----------------|-------------|------|---------|------|--------------|------|--------------|------|
| | Nova Scotia | | Ontario | | Total Canada | | Total Canada | |
| | 1929 | 1930 | 1929 | 1930 | 1929 | 1930 | 1929 | 1930 |
| January | 21 | 23 | 67 | 64 | 88 | 87 | 116 | 115 |
| February | 41 | 19 | 53 | 52 | 94 | 71 | 117 | 107 |
| March | 32 | 22 | 54 | 53 | 86 | 75 | 137 | 117 |
| April | 24 | 21 | 55 | 51 | 79 | 72 | 122 | 103 |
| May | 24 | | 57 | | 81 | | 126 | |
| June | 25 | | 65 | | 90 | | 120 | |
| July | 23 | | 77 | | 100 | | 130 | |
| August | 31 | | 82 | | 113 | | 120 | |
| September | 31 | | 68 | | 99 | | 99 | |
| October | 24 | | 67 | | 91 | | 116 | |
| November | 22 | | 65 | | 87 | | 94 | |
| December | 22 | | 61 | | 83 | | 82 | |
| TOTAL | 320 | 85 | 771 | 220 | 1,091 | 305 | 1,379 | 442 |
| MONTHLY AVERAGE | 27 | 21 | 64 | 55 | 91 | 76 | 115 | 110 |

Table 8. BLAST FURNACES IN CANADA, 1929.

| 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 | 350 |
| The Steel Company of Canada, Ltd., | Hamilton, Ont. | 2 | 825 |
| Algoma Steel Corporation, Ltd. | Sault Ste. Marie, Ont. | 4 | 1,600 |
| TOTAL | | 11 | 4,175 |

Table 9. DESCRIPTION OF FURNACES AT END OF APRIL 1930

| Condition of Furnace | Number of Furnaces | Total Daily Capacity | |
|-------------------------------|--------------------|----------------------|----------|
| | | Long tons | Per cent |
| In blast..... | 6 | 2,375 | 57 |
| Banked..... | - | - | - |
| Blown out..... | 5 | 1,800 | 43 |
| Total furnaces reporting..... | 11 | 4,175 | 100 |

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