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**PRODUCTION OF IRON AND STEEL**  
in Canada

JANUARY 1932

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**PRODUCTION OF IRON AND STEEL IN CANADA**  
**JANUARY 1932**

**PIG IRON.**— Production of pig iron in Canada during January was 10,305 tons as compared with corresponding totals of 13,862 tons in the next preceding month and 35,592 tons in January of a year ago. This month's output consisted entirely of foundry iron; no basic iron was made.

January furnace charges included 15,319 long tons of iron ore, 4,204 short tons of Canadian limestone and 11,050 short tons of coke. The coke was all made in Canada from imported coal.

During the month no furnaces were shut down nor banked with the result that conditions on January 31 were unchanged from December 31. The active furnace was located at Hamilton, Ont., and had a capacity of 550 tons a day. In addition to the furnace in blast, one 300-ton furnace at Sault Ste. Marie, Ont.; was banked during the entire month.

**FERRO-ALLOYS.**— Production of ferro-alloys in Canada amounted to 1,823 tons in January, a slight increase over the 1,814 tons of the previous month. In January, 1931, output was reported at 4,467 tons.

STEEL INGOTS AND CASTINGS.- Production of steel ingots and direct steel castings in Canada during January totalled 25,060 tons, an advance of 20 per cent over the 20,969 tons of December but less than one-half the 57,598 tons made in January, 1931. The increase over December was due to the greater tonnage of B.O.H. steel ingots produced, this grade advancing to 21,954 tons from 17,879 tons, while electric ingots and direct steel castings showed little change.

PRICES.- Demand for iron and steel continued for small spot tonnages, with few price changes recorded. Conditions showed little variation from the previous month, with most plants still operating at reduced capacity. No. 1 and No. 2. foundry pig iron were quoted at \$23.80 and \$23.30 at Montreal, and at \$22.60 and \$22.10 per long ton at Toronto, the same prices that obtained throughout 1931. The Bureau's index for "Iron and Its Products" fell from 87.3 in December, 1931, to 87.1 in January, 1932. This decline was ascribed principally to reduced quotations for steel tank plates and automobile body plates.

UNITED STATES.- "Iron Age". Although steel ingot production is believed to have made a slight gain in January over December, pig iron output failed to increase, having, in fact, decreased 0.8 per cent, but apparently this loss was caused by a decline in merchant iron which offset a minor improvement in the steel making grades. January's output of pig iron was estimated at 31,380 tons a day, against 31,625 tons a day in December. The loss in production occurred despite a net gain of five furnaces during the month indicating that some furnaces operated with the blast slowed down.

# PIG IRON AND FERRO-ALLOYS IN CANADA

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

| ITEM              | JANUARY 1932   |          |        | DECEMBER 1931  |          |        |
|-------------------|----------------|----------|--------|----------------|----------|--------|
|                   | For<br>Own Use | For Sale | TOTAL  | For<br>Own Use | For Sale | TOTAL  |
| In blast furnace: |                |          |        |                |          |        |
| Basic.....        | .....          | .....    | .....  | 5,693          | .....    | 5,693  |
| Foundry.....      | .....          | 10,305   | 10,305 | .....          | 8,169    | 8,169  |
| Malleable.....    | .....          | .....    | .....  | .....          | .....    | .....  |
| TOTAL.....        | .....          | 10,305   | 10,305 | 5,693          | 8,169    | 13,862 |
| Ferro-alloys..... | .....          | 1,823    | 1,823  | .....          | 1,814    | 1,814  |

Table 2. CUMULATIVE PRODUCTION FOR THE TWELVE MONTHS ENDING DECEMBER  
(Tons of 2240 lb.)

| ITEM              | 1931           |          |         | 1930+          |          |         |
|-------------------|----------------|----------|---------|----------------|----------|---------|
|                   | For<br>Own Use | For Sale | TOTAL   | For<br>Own Use | For Sale | TOTAL   |
| In blast furnace: |                |          |         |                |          |         |
| Basic.....        | 308,437        | 3,413    | 311,850 | 481,791        | 12,440   | 494,231 |
| Foundry.....      | 718            | 80,174   | 80,892  | 36,863         | 156,211  | 193,074 |
| Malleable.....    | .....          | 27,296   | 27,296  | 13,220         | 46,653   | 59,873  |
| TOTAL.....        | 309,155        | 110,883  | 420,038 | 531,874        | 215,304  | 747,178 |
| Ferro-alloys..... | .....          | 45,731   | 45,731  | .....          | 65,223   | 65,223  |

Table 3. BLAST FURNACE CHARGES - JANUARY 1932, DECEMBER AND YEAR 1931.

|                         |            |        |        | YEAR                       |
|-------------------------|------------|--------|--------|----------------------------|
|                         |            |        |        | 1931                       |
|                         |            |        |        | JANUARY 1932 DECEMBER 1931 |
| Imported Iron ore.....  | Long tons  | 15,319 | 22,736 | 735,878                    |
| Canadian Limestone..... | Short tons | 4,204  | 4,663  | 68,158                     |
| Imported Limestone..... | " "        | .....  | 1,623  | 152,948                    |
| Coke made in Canada:-   |            |        |        |                            |
| From Canadian coal..... | " "        | .....  | .....  | 116,880                    |
| From Imported coal..... | " "        | 11,050 | 14,178 | 301,420                    |
| Imported coke.....      | " "        | .....  | .....  | 18,713                     |

+ Revised.



# STEEL INGOTS AND CASTINGS IN CANADA

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

| ITEM                           | JANUARY 1932   |          |        | DECEMBER 1931  |          |        |
|--------------------------------|----------------|----------|--------|----------------|----------|--------|
|                                | For<br>Own Use | For Sale | TOTAL  | For<br>Own Use | For Sale | TOTAL  |
| STEEL INGOTS:                  |                |          |        |                |          |        |
| Open Hearth-Basic              | 21,855         | 99       | 21,954 | 17,398         | 481      | 17,879 |
| Acid                           |                |          |        |                |          |        |
| Electric                       | 2,117          |          | 2,117  | 2,107          |          | 2,107  |
| Other                          |                |          |        |                |          |        |
| TOTAL STEEL INGOTS             | 23,972         | 99       | 24,071 | 19,505         | 481      | 19,986 |
| STEEL CASTINGS:                |                |          |        |                |          |        |
| Open Hearth-Basic              | 124            | 254      | 378    | 28             | 288      | 316    |
| Acid                           |                |          |        |                |          |        |
| Bessemer                       | 3              | 66       | 69     | 2              | 70       | 72     |
| Electric                       | 139            | 403      | 542    | 17             | 578      | 595    |
| TOTAL DIRECT STEEL<br>CASTINGS | 266            | 723      | 989    | 47             | 936      | 983    |
| GRAND TOTAL                    | 24,238         | 822      | 25,060 | 19,552         | 1,417    | 20,969 |

Table 5 CUMULATIVE PRODUCTION FOR THE TWELVE MONTHS ENDING DECEMBER

|                                | 1931        |          |         | 1930        |          |           |
|--------------------------------|-------------|----------|---------|-------------|----------|-----------|
|                                | For Own Use | For Sale | TOTAL   | For Own Use | For Sale | TOTAL     |
| STEEL INGOTS                   |             |          |         |             |          |           |
| Open Hearth-Basic              | 610,438     | 1,524    | 611,962 | 924,674     | 753      | 925,427   |
| Acid                           |             |          |         |             |          |           |
| Electric                       | 26,035      |          | 26,035  | 30,071      | 1,390    | 31,461    |
| Other                          |             |          |         |             |          |           |
| TOTAL STEEL INGOTS             | 636,473     | 1,524    | 637,997 | 954,745     | 2,143    | 956,888   |
| STEEL CASTINGS                 |             |          |         |             |          |           |
| Open Hearth-Basic              | 1,337       | 13,547   | 14,884  | 4,833       | 19,939   | 24,772    |
| Acid                           |             | 19       | 19      |             |          |           |
| Bessemer                       | 40          | 1,488    | 1,528   | 46          | 2,268    | 2,314     |
| Electric                       | 238         | 18,421   | 18,659  | 1,391       | 24,213   | 25,604    |
| TOTAL DIRECT STEEL<br>CASTINGS | 1,615       | 33,475   | 35,090  | 6,270       | 46,420   | 52,690    |
| GRAND TOTAL                    | 638,088     | 34,999   | 673,087 | 961,015     | 48,563   | 1,009,578 |

Table 6 AVERAGE MONTHLY PRODUCTION OF

PIG IRON, STEEL INGOTS AND CASTINGS

IN CANADA, 1916 - 1930.

(In 1000's of Long Tons)

| YEAR | MONTHLY AVERAGE |       | YEAR | MONTHLY AVERAGE |       |
|------|-----------------|-------|------|-----------------|-------|
|      | Iron            | Steel |      | Iron            | Steel |
| 1916 | 87              | 106   | 1924 | 49              | 54    |
| 1917 | 87              | 130   | 1925 | 48              | 63    |
| 1918 | 89              | 140   | 1926 | 63              | 64    |
| 1919 | 68              | 77    | 1927 | 59              | 76    |
| 1920 | 81              | 92    | 1928 | 86              | 103   |
| 1921 | 50              | 56    | 1929 | 91              | 115   |
| 1922 | 32              | 40    | 1930 | 62              | 84    |
| 1923 | 73              | 74    |      |                 |       |

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) 1931-1932.

| MONTH           | PIG IRON    |      |         |      |              |      | STEEL        |      |
|-----------------|-------------|------|---------|------|--------------|------|--------------|------|
|                 | Nova Scotia |      | Ontario |      | Total Canada |      | Total Canada |      |
|                 | 1931        | 1932 | 1931    | 1932 | 1931         | 1932 | 1931         | 1932 |
| January         | 15          | -    | 21      | 10   | 36           | 10   | 58           | 25   |
| February        | 14          |      | 32      |      | 46           |      | 83           |      |
| March           | 17          |      | 40      |      | 75           |      | 99           |      |
| April           | 17          |      | 37      |      | 54           |      | 91           |      |
| May             | 15          |      | 36      |      | 51           |      | 75           |      |
| June            | 15          |      | 41      |      | 56           |      | 56           |      |
| July            | 8           |      | 32      |      | 40           |      | 45           |      |
| August          | -           |      | 23      |      | 23           |      | 52           |      |
| September       | -           |      | 18      |      | 18           |      | 33           |      |
| October         | -           |      | 12      |      | 12           |      | 31           |      |
| November        | -           |      | 14      |      | 14           |      | 28           |      |
| December        | -           |      | 14      |      | 14           |      | 21           |      |
| TOTAL           | 101         | -    | 320     | 10   | 421          | 10   | 672          | 25   |
| MONTHLY AVERAGE | 8           | -    | 27      | 10   | 36           | 10   | 56           | 25   |

Table 8. BLAST FURNACES IN CANADA, 1931.

| Name of Company                        | Location               | Number of Stacks | Total Daily Capacity (Long Tons) |
|--|------------------------|------------------|----------------------------------|
| British Empire Steel Corporation, Ltd. | Sydney, N.S.           | 4                | 1,450                            |
| 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               | 4,225                            |

Table 9. DESCRIPTION OF FURNACES AT END OF JANUARY, 1932.

| Condition of Furnace          | Number of Furnaces | Total Daily Capacity |          |
|-------------------------------|--------------------|----------------------|----------|
|                               |                    | Long tons            | Per cent |
| In blast.....                 | 1                  | 550                  | 13       |
| Banked .....                  | -                  | -                    | -        |
| Blown out.....                | 10                 | 3,675                | 87       |
| Total furnaces reporting..... | 11                 | 4,225                | 100      |



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