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Monthly ReportPRODUCTION OF IRON AND STEEL IN CANADAFEBRUARY, 1948

Pig Iron - Production of pig iron in Canada amounted to 151,123 net tons in February compared with 150,632 tons in the corresponding month of last year. The total for the current month included 123,324 tons of basic iron, 15,117 tons of foundry iron and 12,682 tons of malleable iron.

Ferro-alloys - Output of ferro-alloys in February amounted to 11,823 net tons compared with 17,125 tons in the previous month and with 9,357 tons in February of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferromanganese, ferrochrome, chrom-x and ferrophosphorus.

Steel Ingots and Castings - Production of steel ingots and steel castings during February totalled 239,646 net tons compared with 229,222 tons in February of last year. Output in the month under review included 230,183 tons of ingots and 9,463 tons of castings.

(a) Pig Iron and Ferro-alloys

Table 1 - Production During January and February, 1948

|                            | January, 1948  |             |         | February, 1948 |             |         |
|----------------------------|----------------|-------------|---------|----------------|-------------|---------|
|                            | For own<br>use | For<br>sale | Total   | For own<br>use | For<br>sale | Total   |
| (Net tons of 2,000 pounds) |                |             |         |                |             |         |
| <u>Pig Iron -</u>          |                |             |         |                |             |         |
| Basic .....                | 125,264        | 8,846       | 134,110 | 118,435        | 4,889       | 123,324 |
| Foundry .....              | 650            | 18,867      | 19,517  | 2,080          | 13,037      | 15,117  |
| Malleable .....            | ...            | 6,415       | 6,415   | ...            | 12,682      | 12,682  |
| Total Pig Iron .....       | 125,914        | 34,128      | 160,042 | 120,515        | 30,608      | 151,123 |
| <u>Ferro-alloys .....</u>  | ...            | 17,125      | 17,125  | ...            | 11,823      | 11,823  |

Table 2 - Cumulative Production For the Two Months Ended February, 1947 and 1948

|                            | 1 9 4 7        |             |         | 1 9 4 8        |             |         |
|----------------------------|----------------|-------------|---------|----------------|-------------|---------|
|                            | For own<br>use | For<br>sale | Total   | For own<br>use | For<br>sale | Total   |
| (Net tons of 2,000 pounds) |                |             |         |                |             |         |
| <u>Pig Iron -</u>          |                |             |         |                |             |         |
| Basic .....                | 244,373        | 7,053       | 251,426 | 243,699        | 13,735      | 257,434 |
| Foundry .....              | 745            | 50,505      | 51,250  | 2,730          | 31,904      | 34,634  |
| Malleable .....            | ...            | 25,269      | 25,269  | ...            | 19,097      | 19,097  |
| Total Pig Iron ..          | 245,118        | 82,827      | 327,945 | 246,429        | 64,736      | 311,165 |
| <u>Ferro-alloys .....</u>  | ...            | 19,001      | 19,001  | ...            | 28,948      | 28,948  |



# Iron and Steel

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Table 3 - Iron Blast Furnace Charges During January and February, 1948 and Two Months Ended February, 1948

|                                  | January<br>1948 | February<br>1948 | Two Months Ended<br>February, 1948 |
|----------------------------------|-----------------|------------------|------------------------------------|
| (Net tons of 2,000 pounds)       |                 |                  |                                    |
| Iron ore .....                   | 316,842         | 289,351          | 606,193                            |
| Mill cinder, scale, sinter, etc. | 18,268          | 12,756           | 31,024                             |
| Limestone .....                  | 68,040          | 62,574           | 130,618                            |
| Dolomite .....                   | 12,760          | 8,964            | 21,724                             |
| Coke .....                       | 164,847         | 150,989          | 315,836                            |
| Scrap iron and steel .....       | 5,101           | 4,494            | 9,595                              |

Table 4 - Iron Blast Furnaces in Canada

| Name of Company                    | Location of Furnaces   | Number<br>of<br>stacks | Total Annual<br>Capacity<br>(Net tons) |
|------------------------------------|------------------------|------------------------|--|
| Dominion Steel and Coal Corp. Ltd. | Sydney, N.S.           | 4                      | 730,000                                |
| Canadian Furnace Limited           | Port Colborne, Ont.    | 2                      | 221,760                                |
| The Steel Company of Canada, Ltd.  | Hamilton, Ont.         | 3                      | 757,000                                |
| The Algoma Steel Corporation       | Sault Ste. Marie, Ont. | 5                      | 1,035,000                              |
|                                    | Total .....            | 14                     | 2,743,760                              |

Table 5 - Description of Iron Blast Furnaces at End of February, 1948

| Condition of Furnaces | Number of<br>furnaces | Total Annual Capacity<br>Net tons | Per cent |
|-----------------------|-----------------------|-----------------------------------|----------|
| In blast .....        | 11                    | 2,319,890                         | 84.5     |
| Banked .....          | ...                   | ...                               | ...      |
| Blown out .....       | 3                     | 423,870                           | 15.5     |
| Total .....           | 14                    | 2,743,760                         | 100.0    |

## (b) Steel Ingots and Steel Castings

Table 6 - Production During January and February, 1948

|   | January        |             |         | February       |             |         |
|---|----------------|-------------|---------|----------------|-------------|---------|
|   | For own<br>use | For<br>sale | Total   | For own<br>use | For<br>sale | Total   |
| (Net tons of 2,000 pounds)                      |                |             |         |                |             |         |
| <u>Steel Ingots</u>                             |                |             |         |                |             |         |
| Open hearth - Basic .....                       | 210,048        | 1,997       | 212,045 | 191,124        | 3,584       | 194,708 |
| Electric .....                                  | 35,448         | 275         | 35,723  | 35,227         | 248         | 35,475  |
| Total Steel Ingots ...                          | 245,496        | 2,272       | 247,768 | 226,351        | 3,832       | 230,183 |
| Alloy steel ingots<br>included in above .....   | 14,556         | ...         | 14,556  | 13,188         | ...         | 13,188  |
| <u>Steel Castings</u>                           |                |             |         |                |             |         |
| Open hearth - Basic .....                       | 134            | 2,571       | 2,705   | 211            | 2,939       | 3,150   |
| Converter .....                                 | 5              | 35          | 40      | 1              | 42          | 43      |
| Electric .....                                  | 1,016          | 5,197       | 6,213   | 892            | 5,378       | 6,270   |
| Total Steel Castings..                          | 1,155          | 7,803       | 8,958   | 1,104          | 8,359       | 9,463   |
| Alloy steel castings<br>included in above ..... | 406            | 742         | 1,148   | 390            | 643         | 1,033   |
| TOTAL INGOTS AND CASTINGS                       | 246,651        | 10,075      | 256,726 | 227,455        | 12,191      | 239,646 |





Table 7 - Cumulative Production For the Two Months Ended February, 1947 and 1948

|   | 1 9 4 7        |             |         | 1 9 4 8        |             |         |
|---|----------------|-------------|---------|----------------|-------------|---------|
|   | For own<br>use | For<br>sale | Total   | For own<br>use | For<br>sale | Total   |
| (Net tons of 2,000 pounds)                      |                |             |         |                |             |         |
| <u>Steel Ingots</u>                             |                |             |         |                |             |         |
| Open hearth - Basic .....                       | 375,711        | 23,007      | 398,718 | 401,172        | 5,581       | 406,753 |
| Electric .....                                  | 67,963         | ...         | 67,963  | 70,675         | 523         | 71,198  |
| Total Steel Ingots ...                          | 443,674        | 23,007      | 466,681 | 471,847        | 6,104       | 477,951 |
| Alloy steel ingots<br>included in above .....   | 16,952         | ...         | 16,952  | 27,744         | ...         | 27,744  |
| <u>Steel Castings</u>                           |                |             |         |                |             |         |
| Open hearth - Basic .....                       | 322            | 2,615       | 2,937   | 345            | 5,510       | 5,855   |
| Converter .....                                 | 6              | 73          | 79      | 6              | 77          | 83      |
| Electric .....                                  | 2,696          | 6,627       | 9,323   | 1,908          | 10,575      | 12,483  |
| Total Steel Castings .                          | 3,024          | 9,315       | 12,339  | 2,259          | 16,162      | 18,421  |
| Alloy steel castings<br>included in above ..... | 998            | 1,104       | 2,102   | 796            | 1,385       | 2,181   |
| TOTAL INGOTS AND CASTINGS                       | 446,698        | 32,322      | 479,020 | 474,106        | 22,266      | 496,372 |

Table 8 - Pig Iron and Scrap Charged to Steel Furnaces During January and February, 1948, and Two Months Ended February, 1948

|                            | January<br>1948 | February<br>1948 | Two Months Ended<br>February, 1948 |
|----------------------------|-----------------|------------------|------------------------------------|
| (Net tons of 2,000 pounds) |                 |                  |                                    |
| Pig iron .....             | 127,021         | 121,865          | 248,886                            |
| Scrap - Own make .....     | 75,745          | 76,704           | 152,449                            |
| Purchased .....            | 73,778          | 65,764           | 139,542                            |

Table 9 - Steel Furnace Capacity at End of February, 1948

|                                  | Annual Capacity |
|----------------------------------|-----------------|
| (Net tons of 2,000 pounds)       |                 |
| Ingots - Basic open hearth ..... | 2,770,000       |
| Electric .....                   | 475,000         |
| Total Ingots .....               | 3,245,000       |
| Steel castings .....             | 302,000         |
| Total Ingots and Castings ..     | 3,547,000       |

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Table 10 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1947 and 1948

| Month            | Pig Iron  | Ferro-<br>alloys | S t e e l                  |          | Total<br>Steel |
|------------------|-----------|------------------|----------------------------|----------|----------------|
|                  |           |                  | Ingots                     | Castings |                |
|                  |           |                  | (Net tons of 2,000 pounds) |          |                |
| <u>1 9 4 7</u>   |           |                  |                            |          |                |
| January .....    | 177,313   | 9,644            | 243,557                    | 6,241    | 249,798        |
| February .....   | 150,632   | 9,357            | 223,124                    | 6,098    | 229,222        |
| March .....      | 164,403   | 14,197           | 263,193                    | 6,539    | 269,732        |
| April .....      | 160,749   | 13,015           | 244,998                    | 7,158    | 252,156        |
| May .....        | 160,230   | 15,325           | 235,978                    | 8,098    | 244,076        |
| June .....       | 159,826   | 16,212           | 230,581                    | 7,716    | 238,297        |
| July .....       | 157,153   | 12,402           | 226,443                    | 5,898    | 232,341        |
| August .....     | 166,878   | 11,398           | 226,180                    | 7,574    | 233,754        |
| September .....  | 169,630   | 11,152           | 225,457                    | 8,731    | 234,188        |
| October .....    | 163,335   | 14,691           | 247,171                    | 9,290    | 256,461        |
| November .....   | 174,147   | 11,551           | 246,785                    | 8,587    | 255,372        |
| December .....   | 165,551   | 10,838           | 241,065                    | 8,704    | 249,769        |
| Total for Year . | 1,969,847 | 149,832          | 2,854,532                  | 90,634   | 2,945,166      |
| <u>1 9 4 8</u>   |           |                  |                            |          |                |
| January .....    | 160,042   | 17,125           | 247,768                    | 8,958    | 256,726        |
| February .....   | 151,123   | 11,823           | 230,183                    | 9,463    | 239,646        |
| Total Two Months | 311,165   | 28,948           | 477,951                    | 18,421   | 496,372        |

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