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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

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MONTHLY REPORT

PRODUCTION OF IRON AND STEEL IN CANADA

APRIL, 1942

PIG IRON - Production of pig iron in Canada totalled 160,408 net tons compared with 167,116 tons in March of this year and with 115,725 tons in April, 1941. The average daily output in April was 5,347 tons against 5,390 tons in March. The total for the month under review included 135,160 tons of basic iron, 9,679 tons of foundry iron and 15,569 tons of malleable iron. Stocks of pig iron held by the producers at the end of April amounted to 35,578 tons.

FERRO-ALLOYS - Output of ferro-alloys in April amounted to 18,128 net tons compared with 20,261 tons in the previous month and with 18,100 tons in April of a year ago. The current month's total included the following alloys: ferrosilicon, silicomanganese, ferromanganese, ferrochrome, ferrochrome silicon, chrom-X, spiegeleisen, calcium silicon and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and direct steel castings during April totalled 264,988 net tons compared with 265,903 tons made in March of this year and with 224,761 tons made in April, 1941. Output in the month under review included 249,848 tons of ingots and 15,140 tons of castings. Steel furnaces operated at about 99 per cent of capacity during the month. The daily rate of output was 8,833 tons in April against 8,577 tons in March.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING APRIL AND MARCH, 1942.

|                      | APRIL, 1942                |             |         | MARCH, 1942    |             |         |
|----------------------|----------------------------|-------------|---------|----------------|-------------|---------|
|                      | 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 .....          | 130,845                    | 4,315       | 135,160 | 130,588        | 5,701       | 136,289 |
| Foundry .....        | ...                        | 9,679       | 9,679   | ...            | 15,361      | 15,361  |
| Malleable .....      | ...                        | 15,569      | 15,569  | ...            | 15,466      | 15,466  |
| TOTAL PIG IRON ..... | 130,845                    | 29,563      | 160,408 | 130,588        | 36,528      | 167,116 |
| Ferro-alloys .....   | ...                        | 18,128      | 18,128  | ...            | 20,261      | 20,261  |

# Iron and Steel

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Table 2 - CUMULATIVE PRODUCTION FOR THE FOUR MONTHS ENDED APRIL, 1942 and 1941

|                      | 1 9 4 2                    |             |         | 1 9 4 1        |             |         |
|----------------------|----------------------------|-------------|---------|----------------|-------------|---------|
|                      | For own<br>use             | For<br>sale | TOTAL   | For own<br>use | For<br>sale | TOTAL   |
|                      | (Net tons of 2,000 pounds) |             |         |                |             |         |
| PIG IRON -           |                            |             |         |                |             |         |
| Basic .....          | 501,149                    | 22,219      | 523,368 | 367,334        | 5,156       | 372,490 |
| Foundry .....        |                            | 54,599      | 54,599  |                | 37,733      | 37,733  |
| Malleable .....      |                            | 56,686      | 56,686  | 725            | 36,620      | 37,345  |
| TOTAL PIG IRON ..... | 501,149                    | 133,504     | 634,653 | 368,059        | 79,509      | 447,568 |
| Ferro alloys .....   |                            | 73,751      | 73,751  |                | 65,032      | 65,032  |

Table 3 - IRON BLAST FURNACE CHARGES DURING APRIL and MARCH, 1942 and FOUR MONTHS APRIL, 1942

|                            | APRIL,<br>1942             | MARCH,<br>1942 | FOUR MONTHS ENDED<br>APRIL, 1942 |
|----------------------------|----------------------------|----------------|----------------------------------|
|                            | (Net tons of 2,000 pounds) |                |                                  |
| Iron ore .....             | 293,101                    | 302,258        | 1,155,371                        |
| Limestone .....            | 67,976                     | 69,104         | 273,916                          |
| Coke .....                 | 143,764                    | 144,722        | 563,024                          |
| Scrap iron and steel ..... | 9,639                      | 11,371         | 38,452                           |

Table 4 - IRON BLAST FURNACES IN CANADA

| Name of Company                      | Location<br>of<br>furnaces | Number<br>of<br>stacks | Total Annual<br>Capacity<br>(Net tons) |
|--------------------------------------|----------------------------|------------------------|--|
| Dominion Steel and Coal Corp. Ltd.   | Sydney, N.S.               | 3                      | 490,560                                |
| Canadian Furnace Limited             | Port Colborne, Ont.        | 2                      | 221,760                                |
| The Steel Company of Canada, Limited | Hamilton, Ont.             | 3                      | 757,000                                |
| The Algoma Steel Corporation         | Sault Ste. Marie, Ont.     | 4                      | 654,000                                |
|                                      | TOTAL .....                | 12                     | 2,123,320                              |

Table 5 - DESCRIPTION OF IRON BLAST FURNACES AT END OF APRIL, 1942

| Condition of furnaces          | Number of<br>furnaces | Total Annual Capacity<br>Net tons | Per cent |
|--------------------------------|-----------------------|-----------------------------------|----------|
| In blast .....                 | 11                    | 2,000,720                         | 94       |
| Banked .....                   | ...                   | ...                               | ...      |
| Blown out (x) .....            | 1                     | 122,600                           | 6        |
| TOTAL FURNACES REPORTING ..... | 12                    | 2,123,320                         | 100      |

(x) Has not operated for some years--now being reconditioned.

## (b) STEEL INGOTS AND STEEL CASTINGS

Table 6 - PRODUCTION DURING APRIL AND MARCH, 1942

|   | APRIL, 1942                |             |         | MARCH, 1942    |             |         |
|---|----------------------------|-------------|---------|----------------|-------------|---------|
|   | For own<br>use             | For<br>sale | TOTAL   | For own<br>use | For<br>sale | TOTAL   |
|   | (Net tons of 2,000 pounds) |             |         |                |             |         |
| STEEL INGOTS -                                |                            |             |         |                |             |         |
| Open hearth - Basic .....                     | 218,385                    | 4,252       | 222,637 | 209,953        | 16,036      | 225,989 |
| Electric .....                                | 24,040                     | 3,171       | 27,211  | 21,621         | 4,084       | 25,705  |
| Total Steel Ingots .....                      | 242,425                    | 7,423       | 249,848 | 231,574        | 20,120      | 251,694 |
| Alloy steel ingots<br>included in above ..... | 24,683                     | 73          | 24,756  | 22,484         | 255         | 22,739  |



Table 6 - PRODUCTION DURING APRIL AND MARCH, 1942 (Concluded)

|   | APRIL, 1942                |        |         | MARCH, 1942 |        |         |
|---|----------------------------|--------|---------|-------------|--------|---------|
|   | For own                    | For    | TOTAL   | For own     | For    | TOTAL   |
|   | use                        | sale   |         | use         | sale   |         |
|   | (Net tons of 2,000 pounds) |        |         |             |        |         |
| <u>STEEL CASTINGS -</u>                             |                            |        |         |             |        |         |
| Open hearth - Basic . . . . .                       | 252                        | 2,088  | 2,340   | 267         | 1,811  | 2,078   |
| Converter . . . . .                                 | ...                        | 396    | 396     | ...         | 359    | 359     |
| Electric . . . . .                                  | 5,162                      | 7,242  | 12,404  | 4,681       | 7,091  | 11,772  |
| Total Steel Castings..                              | 5,414                      | 9,726  | 15,140  | 4,948       | 9,261  | 14,209  |
| Alloy steel castings<br>included in above . . . . . | 1,691                      | 1,378  | 3,069   | 1,423       | 1,576  | 2,999   |
| TOTAL INGOTS AND CASTINGS                           | 247,839                    | 17,149 | 264,988 | 236,522     | 29,381 | 265,903 |

Table 7 - CUMULATIVE PRODUCTION FOR THE FOUR MONTHS ENDED APRIL, 1942 and 1941

| Table 7 - CUMULATIVE PRODUCTION FOR THE FOUR MONTHS ENDED APRIL, 1942 and 1941 |                            |               |                  |                |               |                |
|--|----------------------------|---------------|------------------|----------------|---------------|----------------|
|  | 1 9 4 2                    |               |                  | 1 9 4 1        |               |                |
|  | For own<br>use             | For<br>sale   | TOTAL            | For own<br>use | For<br>sale   | TOTAL          |
|  | (Net tons of 2,000 pounds) |               |                  |                |               |                |
| <b>STEEL INGOTS -</b>  |                            |               |                  |                |               |                |
| Open hearth - Basic . . . . .  | 832,433                    | 46,895        | 879,328          | 735,698        | 30,775        | 766,473        |
| Electric . . . . .   | 83,850                     | 14,337        | 98,187           | 45,707         | 526           | 46,303         |
| Total Steel Ingots . . . . .   | 916,283                    | 61,232        | 977,515          | 781,405        | 31,371        | 812,776        |
| Alloy steel ingots<br>included in above . . . . .                              | 94,197                     | 621           | 94,818           | ...            | ...           | ...            |
| <b>STEEL CASTINGS -</b>  |                            |               |                  |                |               |                |
| Open hearth - Basic . . . . .  | 1,180                      | 7,429         | 8,609            | 972            | 7,034         | 8,006          |
| Converter . . . . .  | ...                        | 1,476         | 1,476            | ...            | 760           | 760            |
| Electric . . . . .   | 16,888                     | 28,340        | 45,228           | 7,359          | 16,879        | 24,238         |
| Total Steel Castings..   | 18,068                     | 37,245        | 55,313           | 8,331          | 24,673        | 33,004         |
| Alloy steel castings<br>included in above . . . . .                            | 6,217                      | 5,872         | 12,089           | ...            | ...           | ...            |
| <b>TOTAL INGOTS AND CASTINGS</b>   | <b>934,351</b>             | <b>98,477</b> | <b>1,032,828</b> | <b>789,736</b> | <b>56,044</b> | <b>845,780</b> |

Table 8 - PIG IRON AND SCRAP CHARGED TO STEEL FURNACES

|                        | APRIL,<br>1942             | MARCH,<br>1942 | FOUR MONTHS ENDED<br>APRIL, 1942 |
|------------------------|----------------------------|----------------|----------------------------------|
|                        | (Net tons of 2,000 pounds) |                |                                  |
| Pig iron .....         | 133,401                    | 137,682        | 523,338                          |
| Scrap - own make ..... | 70,596                     | 72,320         | 284,194                          |
| purchased .....        | 84,783                     | 97,694         | 340,039                          |

Table 9 - STEEL FURNACE CAPACITY AT END OF APRIL, 1942

|  | Annual Capacity  |
|--|------------------|
|  | (Net tons)       |
| Ingots - Basic open hearth .....       | 2,667,000        |
| Electric .....                         | 356,000          |
| <b>TOTAL INGOTS</b> .....              | <b>3,023,000</b> |
| Steel castings .....                   | 215,000          |
| <b>TOTAL INGOTS AND CASTINGS</b> ..... | <b>3,238,000</b> |

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