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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

MAY, 1944

PIG IRON - Production of pig iron in Canada amounted to 175,207 net tons in May compared with 154,746 tons in the corresponding month of last year. The total for the current month included 148,800 tons of basic iron, 11,073 tons of foundry iron and 15,334 tons of malleable iron.

FERRO-ALLOYS - Output of ferro-alloys in May amounted to 15,876 net tons compared with 12,818 tons in the previous month and with 17,971 tons in May of a year ago. The following alloys were produced: ferrosilicon, silicomanganese, ferro-manganese, ferrochrome, chrom-x and ferrophosphorus.

STEEL INGOTS AND CASTINGS - Production of steel ingots and steel castings during May totalled 263,431 net tons compared with 271,737 tons in May of last year. Output in the month under review included 251,463 tons of ingots and 11,968 tons of castings.

(a) PIG IRON AND FERRO-ALLOYS

Table 1 - PRODUCTION DURING MAY AND APRIL, 1944

| | May, 1944 | | | April, 1944 | | |
|----------------------------|----------------|-------------|---------|----------------|-------------|---------|
| | For own use | For sale | TOTAL | For own use | For sale | TOTAL |
| (Net tons of 2,000 pounds) | | | | | | |
| <u>PIG IRON</u> - | | | | | | |
| Basic | 132,597 | 16,203 | 148,800 | 129,681 | 17,710 | 147,391 |
| Foundry | ... | 11,073 | 11,073 | ... | 7,693 | 7,693 |
| Malleable | ... | 15,334 | 15,334 | ... | 15,280 | 15,280 |
| TOTAL PIG IRON ... | 132,597 | 42,610 | 175,207 | 129,681 | 40,683 | 170,364 |
| <u>FERRO-ALLOYS</u> | ... | 15,876 | 15,876 | ... | 12,818 | 12,818 |

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Table 2 - CUMULATIVE PRODUCTION FOR THE FIVE MONTHS ENDED MAY, 1944 and 1943

| | 1 9 4 4 | | | 1 9 4 3 | | |
|--------------------|----------------------------|-------------|---------|----------------|-------------|---------|
| | For own use | For sale | TOTAL | For own use | For sale | TOTAL |
| | (Net tons of 2,000 pounds) | | | | | |
| PIG IRON - | | | | | | |
| Basic | 590,134 | 58,559 | 648,693 | 569,688 | 20,917 | 590,605 |
| Foundry | ... | 56,467 | 56,467 | ... | 57,543 | 57,543 |
| Malleable | ... | 82,464 | 82,464 | ... | 71,752 | 71,752 |
| TOTAL PIG IRON ... | 590,134 | 197,490 | 787,624 | 569,688 | 150,212 | 719,900 |
| FERRO-ALLOYS | ... | 73,336 | 73,336 | ... | 93,642 | 93,642 |

Table 3 - IRON BLAST FURNACE CHARGES DURING MAY AND APRIL, 1944 and FIVE MONTHS ENDED MAY, 1944

| | May, 1944 | April, 1944 | Five Months Ended May, 1944 |
|----------------------------|----------------------------|-------------|--------------------------------|
| | (Net tons of 2,000 Pounds) | | |
| Iron ore | 329,316 | 322,039 | 1,471,386 |
| Limestone | 73,433 | 75,660 | 332,539 |
| Coke | 158,119 | 151,033 | 707,375 |
| Scrap iron and steel | 10,036 | 8,815 | 44,167 |

Table 4 - IRON BLAST FURNACES IN CANADA

| Name of Company | Location of furnaces | Number of | Total Annual Capacity (Net tons) |
|------------------------------------|------------------------|--------------|--|
| Dominion Steel and Coal Corp. Ltd. | Sydney, N.S. | 4 | 715,400 |
| 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 | 1,062,000 |
| | TOTAL | 14 | 2,756,160 |

Table 5 - DESCRIPTION OF IRON BLAST FURNACES AT END OF MAY, 1944

| Condition of furnaces | Number of furnaces | Total Annual Capacity Net tons | Per cent |
|-----------------------|--------------------|-----------------------------------|----------|
| In blast | 10 | 2,534,560 | 84.7 |
| Banked | 1 | 122,600 | 4.4 |
| Blown out | 3 | 299,000 | 10.9 |
| TOTAL | 14 | 2,756,160 | 100.0 |

(b) STEEL INGOTS AND STEEL CASTINGS

Table 6 - PRODUCTION DURING MAY AND APRIL, 1944

| | May, 1944 | | | April, 1944 | | |
|---|----------------|-------------|---------|----------------|-------------|---------|
| | For own use | For sale | TOTAL | For own use | For sale | TOTAL |
| (Net tons of 2,000 pounds) | | | | | | |
| <u>STEEL INGOTS -</u> | | | | | | |
| Open hearth--Basic | 215,334 | 4,000 | 219,334 | 219,823 | 1,743 | 221,566 |
| Electric | 32,105 | 24 | 32,129 | 28,591 | ... | 28,591 |
| Total Steel Ingots | 247,439 | 4,024 | 251,463 | 248,414 | 1,743 | 250,157 |
| Alloy steel ingots included in above | 23,681 | ... | 23,681 | 24,404 | ... | 24,404 |
| <u>STEEL CASTINGS -</u> | | | | | | |
| Open hearth--Basic | 186 | 2,977 | 3,163 | 168 | 2,368 | 2,536 |
| Converter | ... | 151 | 151 | ... | 123 | 123 |
| Electric | 1,904 | 6,750 | 8,654 | 1,813 | 6,191 | 8,009 |
| Total Steel Castings .. | 2,090 | 9,378 | 11,968 | 1,936 | 8,682 | 10,668 |
| Alloy steel castings included in above | 230 | 691 | 921 | 258 | 814 | 1,072 |
| TOTAL INGOTS AND CASTINGS | 249,529 | 13,902 | 263,431 | 250,400 | 10,425 | 260,825 |

Table 7 - CUMULATIVE PRODUCTION FOR THE FIVE MONTHS ENDED MAY, 1944 and 1943

| | 1 9 4 4 | | | 1 9 4 3 (x) | | |
|---|----------------|-------------|-----------|----------------|-------------|-----------|
| | For own use | For sale | TOTAL | For own use | For sale | TOTAL |
| (Net tons of 2,000 pounds) | | | | | | |
| <u>STEEL INGOTS -</u> | | | | | | |
| Open hearth--Basic | 1,054,613 | 7,139 | 1,061,802 | 1,032,346 | 4,738 | 1,037,084 |
| Electric | 146,799 | 81 | 146,880 | 139,524 | 17,978 | 157,502 |
| Total Steel Ingots | 1,201,412 | 7,270 | 1,208,682 | 1,171,870 | 22,716 | 1,194,586 |
| Alloy steel ingots includ- ed in above | 116,296 | ... | 116,296 | 166,925 | 346 | 167,271 |
| <u>STEEL CASTINGS -</u> | | | | | | |
| Open hearth--Basic | 765 | 15,224 | 15,989 | 607 | 11,698 | 12,305 |
| Converter | ... | 820 | 820 | ... | 1,944 | 1,944 |
| Electric | 12,187 | 34,155 | 46,342 | 17,926 | 32,891 | 50,817 |
| Total Steel Castings .. | 12,952 | 50,199 | 63,151 | 18,533 | 46,533 | 65,066 |
| Alloy steel castings included in above | 1,716 | 7,183 | 8,899 | 2,339 | 11,023 | 13,362 |
| TOTAL INGOTS AND CASTINGS | 1,214,364 | 57,469 | 1,271,833 | 1,190,403 | 69,249 | 1,259,652 |

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Table 8 - PIG IRON AND SCRAP CHARGED TO STEEL FURNACES

| | May, 1944 | April, 1944 | Five Months Ended May, 1944 |
|-----------------------|----------------------------|-------------|--------------------------------|
| | (Net tons of 2,000 pounds) | | |
| Pig iron | 136,619 | 134,253 | 621,469 |
| Scrap--Own make | 91,257 | 75,782 | 415,726 |
| Purchased | 65,781 | 78,812 | 380,638 |

Table 9 - STEEL FURNACE CAPACITY AT END OF MAY, 1944

| | Annual Capacity (Net tons) |
|---------------------------------|-------------------------------|
| Ingots--Basic open hearth | 2,765,000 |
| Electric | 541,200 |
| Total Ingots | 3,306,200 |
| Steel Castings | 252,800 |
| TOTAL INGOTS AND CASTINGS | 3,559,000 |