CANADA

# THE PRIMARY IRON AND STEEL INDUSTRY

## 1956

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

# THE PRIMARY IRON AND STEEL INDUSTRY
# 1956

*Published by Authority of*
The Honourable Gordon Churchill, Minister of Trade and Commerce

6512-624-126 Price 25 cents Vol. 2—Part XII—J-1

EDMOND CLOUTIER, C.M.G., O.A., D.S.P., Queen's Printer and Controller of Stationery, Ottawa, 1958

## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** – The Primary Industries, including mining, forestry and fisheries; **Volume II** – Manufacturing; **Volume III** – Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

I – General Review of the Manufacturing Industries, $1.50
II – The Manufacturing Industries of Canada, (7 sections, as follows:)
- Section A. Summary for Canada, 25¢
- Section B. Atlantic Provinces, 50¢
- Section C. Quebec, 25¢
- Section D. Ontario, 25¢
- Section E. Prairie Provinces, 40¢
- Section F. British Columbia, 25¢
- Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢

III – Foods and Beverages
IV – Tobacco and Tobacco Products
V – Rubber Products
VI – Leather Products
VII – Textile Mills
VIII – Knitting Mills
IX – Clothing
X – Wood and Paper Products
XI – Printing Trades
XII – Iron and Steel Products
XIII – Transportation Equipment
XIV – Non-ferrous Metal Products
XV – Electrical Apparatus and Supplies
XVI – Non-metallic Mineral Products
XVII – Products of Petroleum and Coal
XVIII – Chemicals and Allied Products
XIX – Miscellaneous Manufactures

The present report belongs in Part XII, Iron and Steel Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

A – General Review, 25¢
B – The Agricultural Implements Industry, 25¢
C – The Boilers and Plate Work Industry, 25¢
D – The Bridge Building and Structural Steel Industry, 25¢
E – The Hardware, Tools and Cutlery Industry, 25¢
F – The Heating and Cooking Apparatus Industry, 25¢
G – The Machinery Industry, 25¢
H – The Machine Shops Industry, 25¢
I – The Iron Castings Industry, 25¢
J – The Primary Iron and Steel Industry, 25¢
K – The Sheet Metal Products Industry, 25¢
L – The Wire and Wire Goods Industry, 25¢
M – The Miscellaneous Iron and Steel Products Industry, 25¢

# THE PRIMARY IRON AND STEEL INDUSTRY

# 1956

Statistics for the Primary Iron and Steel Industry include data for all establishments in Canada which were engaged chiefly in the manufacture of (a) pig iron, (b) ferro-alloys, (c) steel ingots and steel castings, (d) hot-rolled steel products, (e) cold-drawn steel bars, strips and shapes. Forty-eight firms were included in this industry in 1956 and reports were received from 63 different plants or departments, including 5 blast furnace departments, 4 ferro-alloy plants, 38 steel furnace divisions and 16 rolling or drawing mills. Separate reports were received for blast furnace departments, for steel furnace divisions and rolling mills, even when all three were units of a single works.

Factory sales of pig iron, ferro-alloys, steel ingots and castings and finished rolled products were 29.4 per cent higher in value in 1956 than in 1955, the totals being $680,860,470 and $526,318,453 respectively. Eighteen plants in Ontario (comprising 26 separate plants or departments) accounted for 78.1 per cent of the total for Canada, or $531,684,074, 15 plants in Quebec (comprising 16 separate plants or departments) accounted for 10.6 per cent, or $71,614,798; 3 plants in Nova Scotia (comprising 5 separate plants or departments) for 7.5 per cent, or $51,321,212, while the remaining $26,240,386 or 3.8 per cent was accounted for by 14 plants in Manitoba, Alberta and British Columbia (comprising 16 separate plants or departments).

In 1956 a total of 36,043 people was employed in this industry, an increase of 10.9 per cent over the 1955 total of 32,507. Seventy-one per cent of the employees, or 25,654, worked in plants in Ontario, 4,366 in Nova Scotia, 4,273 in Quebec and 1,750 in Manitoba, Alberta and British Columbia. Payments in salaries and wages during 1956 amounted to $162,880,867, an increase of 19 per cent over the previous year's total of $136,879,403. Most of the increase was accounted for by wages which rose to $136,177,828 from $113,770,485. Salaries advanced to $26,703,039 from $23,108,918.

Materials used in manufacturing processes cost $301,298,582 in 1956 compared with $212,288,266 in 1955, and the cost of fuel and electricity was $38,311,951 as against $31,182,580, a 39 per cent increase in the expenditures for materials, fuel and power.

## PIG IRON

Output of 3,568,203 net tons of pig iron in 1956 was 11 per cent higher than the 3,215,367 tons reported for the previous year. Production of basic iron amounted to 2,990,222 tons or 83.8 per cent of the total; foundry iron amounted to 150,354 tons and malleable iron to 427,627 tons.

Producers' sales of pig iron totalled 649,213 tons at $34,501,520 compared with 609,978 tons at $30,539,000 in 1955.

Charges to iron blast furnaces during the year included 4,667,506 tons of crude iron ore, 1,855,052 tons of beneficiated iron ore (sintered, pelletized, etc.), 3,051,914 tons of coke and 1,091,143 tons of limestone.

Imports of pig iron during the calendar year declined to 12,637 tons from the 14,518 tons in 1955. Exports improved slightly to 257,627 tons from 254,472 tons reported in the previous year.

Producers' stocks of pig iron at the end of 1956 totalled 113,629 tons compared with 136,415 tons at the end of the previous year.

The apparent consumption of pig iron in Canada, as calculated by deducting the exports from the sum of the production and imports, and allowing for changes in producers' stocks, amounted to 3,345,999 tons in 1956, or about 12.8 per cent higher than in 1955 when the apparent domestic supply was 2,966,892 tons.

Producers of pig iron in Canada had 16 blast furnaces at the end of 1956 which could produce 4.22 million net tons if operated at rated capacity. Actual production at 3,568,203 net tons in 1956 showed an operating rate of about 85 per cent. Thirteen furnaces were in blast at the year-end.

## FERRO-ALLOYS

Ferro-alloys were made in 1956 by 10 establishments, 5 of which recovered ferrosilicon as a by-product in the manufacture of abrasives. Output of ferro-alloys in 1956 to 240,480 tons, an increase of 26.7 per cent over the 189,805 tons reported in 1955.

Altogether, ferrosilicon was made in nine different plants, ferrochrome-silicon in two, ferromanganese in one, silicomanganese in one, spiegeleisen in two and ferrophosphorus in one.

## STEEL INGOTS AND CASTINGS

Steel production rose by about 16.9 per cent to 5,301,202 tons in 1956 from 4,534,672 in 1955, the output of steel ingots increasing to 5,180,421 tons from 4,446,341 tons, while castings production advanced to 120,781 tons from 88,331 tons. Factory sales of ingots and castings totalled 164,288 tons at $55,326,132.

Thirty-eight steel plants were in operation during the year. At the end of 1956 these plants had 124 furnaces, including 37 basic open-hearth furnaces with an annual rated capacity of 4,270,000 tons, 82 electric furnaces rated at 964,450 tons and 2 converters at 4,800. Also included in the total were three oxygen vessels or converters of the Linz-Donaivitz type with a combined capacity of 525,000 tons. Two 25-ton Bessemer converters rated at 120,000 tons annually, used for duplexing, also were in operation during the year.

Operating steel furnaces in 1956 used 2,902,367 net tons of pig iron, 2,865,563 tons of scrap iron or steel, 472,476 tons of iron ore, 232,065 tons of limestone, 202,352 tons of dolomite, 147,911 tons of lime, 138,763 tons of silica sand, 10,784 tons of magnesite and 67,123 tons of ferro-alloys.

## ROLLED AND DRAWN STEEL

In 1956 there were 13 mills occupied chiefly in hot-rolling of steel products and 3 mills making only cold-drawn and cold-rolled shapes. Of course, some of the former also cold-rolled steel as part of their operations. Nine of these mills were in Ontario, 2 in Nova Scotia, 2 in Quebec and 1 each in Manitoba, Alberta and British Columbia.

Rolling mill sales increased 30.3 per cent to $545,509,529 from $418,649,586 in 1955. The main items sold during the year under review were 795,675 tons of hot-rolled bars at $112,281,656; 319,666 tons of plates at $36,936,168; 439,246 tons of rails and rail fastenings at $45,596,348; 236,969 tons of semi-finished forms such as blooms, billets, etc., at $20,573,136; 315,564 tons of structural shapes at $36,361,986; 403,602 tons of wire rods at $42,565,418 (see footnote 2); 46,162 tons of cold-reduced bars at $14,513,166; 61,565 tons of cold-rolled strip at $13,981,363; 347,231 tons of skelp (hot and cold-rolled) at $35,305,224; and other rolled products, including hot and cold rolled sheets and strip, tin plate, galvanized sheets, etc., totalling 1,187,242 tons at $177,895,587.

---

Note: Three major changes in concept affecting the data for this industry were introduced in 1954. The first one involved a change in the method of counting establishments; the second concerned a change in valuing shipments of wire rods transferred to makers' own processing plants; while the third concerned the method for calculating "value added". These three changes are reviewed in the footnotes below.

1. Prior to 1954, blast furnace departments, steel furnace divisions and rolling mills which were units of a single works filed separate reports and these departments were counted individually as establishments. These units continued to file separate reports in 1954 and subsequent years but the method of counting establishments was changed so that the separate operations or units at a single works were collectively considered as one establishment. On this account, the number of establishments since 1954 shown in Table 2 is less than in previous years.

2. Prior to 1954, shipments of wire rods transferred to makers' own fabricating plants were considered as "shipments for own use" and, therefore, not included in "Factory Sales". For the most part these shipments were made to makers' fabricating plants which are classified to the Wire and Wire Goods Industry. The normal practice for statistical purposes has been to consider shipments of this kind from one industry group to another as part of the total sales of the producing industry and as materials by the consuming industry. The treatment of wire rods constituted an exception which has affected the calculation of "value added" for these two industries. Therefore, in order to bring the treatment of wire rods in line with usual statistical procedures, producers in 1954 and subsequent years were asked to consider the sales of wire rods to own fabricating plants as "Factory Sales". For this reason the value of products shown in this bulletin for the years 1954-1956 in Tables 2, 31 and 39 is higher by the value applied to these shipments. In 1954 the value of these shipments is estimated to be about $16,000,000, in 1955 about $21,000,000 and in 1956 about $27,000,000.

3. Figures for value added by manufacture, shown in Table 2, prior to 1953 were obtained by subtracting the cost of materials used, including fuel and electricity, from the gross selling value of products. Since 1954 information not previously available on the value of year-end inventory holdings at plant and plant warehouses has been taken into account in calculating the value added figure.

**TABLE 1. Provincial Distribution of Active Plants in the Primary Iron and Steel Industry, 1956**

| Province | Number of firms | Pig iron | | Steel ingots and castings | | Rolling and drawing mills | Ferro-alloys[1] |
|---|---|---|---|---|---|---|---|
| | | Number of plants | Number of blast furnaces | Number of plants | Number of steel furnaces | | |
| Nova Scotia | 3 | 1 | 3 | 2 | 7 | 2 | – |
| Quebec | 15 | – | – | 12 | 25 | 2 | 2 |
| Ontario | 18 | 4 | 13 | 11 | 71 | 9 | 2 |
| Manitoba | 2 | – | – | 2 | 6 | 1 | – |
| Alberta | 3 | – | – | 3 | 3 | 1 | – |
| British Columbia | 9 | – | – | 8 | 12 | 1 | – |
| **Canada** | **50**[2] | **5** | **16** | **38** | **124** | **16** | **4** |

1. Not including artificial abrasive plants which made ferrosilicon as a by-product.
2. Only 48 separate firms were included in this industry in 1956; however two of these operated plants in both Ontario and Quebec.

**TABLE 2. Principal Statistics of the Primary Iron and Steel Industry, Significant Years, 1929-1956 and by Provinces, 1955 and 1956**

| Year and province | Establishments | Employees | Salaries and wages | Cost of fuel and electricity at plant | Cost of materials at plant | Value added by manufacture[3] | Gross selling value of products at works |
|---|---|---|---|---|---|---|---|
| | No. | No. | $ | $ | $ | $ | $ |
| 1929 | 45 | 11,218 | 18,534,681 | 6,691,961 | 32,514,596 | 33,025,438 | 72,231,995 |
| 1933 | 50 | 5,200 | 6,049,189 | 2,699,837 | 7,598,931 | 8,193,781 | 18,492,549 |
| 1937 | 55 | 14,054 | 19,926,498 | 6,934,008 | 33,805,631 | 33,841,030 | 74,580,669 |
| 1939 | 54 | 13,827 | 20,410,517 | 6,069,661 | 29,629,376 | 40,235,444 | 75,934,481 |
| 1942 | 61 | 33,245 | 60,874,818 | 18,734,178 | 110,551,516 | 102,820,061 | 232,105,755 |
| 1945 | 63 | 29,378 | 57,862,489 | 16,002,441 | 86,417,375 | 89,859,343 | 192,279,159 |
| 1949 | 55 | 29,097 | 82,958,229 | 22,352,965 | 147,229,391 | 136,152,628 | 305,734,984 |
| 1952 | 58 | 35,001 | 124,387,290 | 31,421,918 | 239,901,158 | 233,577,318 | 504,000,394 |
| 1953 | 62 | 34,956 | 129,709,556 | 29,572,323 | 212,374,287 | 216,957,645 | 458,904,255 |
| 1954 | 51[1] | 28,861 | 108,817,430 | 23,730,461 | 145,110,350 | 217,487,185 | 383,154,196[2] |
| 1955 | | | | | | | |
| Nova Scotia | 3 | 4,089 | 14,542,200 | 2,415,033 | 18,838,833 | 17,925,406 | 43,561,192 |
| Quebec | 15 | 3,689 | 14,368,957 | 3,021,747 | 16,693,689 | 34,025,151 | 53,577,923 |
| Ontario | 18 | 23,369 | 102,907,093 | 24,807,449 | 171,581,869 | 228,709,663 | 412,013,769 |
| Manitoba | 2 | | | | | | |
| Alberta | 3 | 1,360 | 5,061,153 | 938,351 | 5,173,875 | 11,132,906 | 17,165,569 |
| British Columbia | 9 | | | | | | |
| **Canada** | **50**[1] | **32,507** | **136,879,403** | **31,182,580** | **212,288,266** | **291,793,126** | **526,318,453**[2] |
| 1956 | | | | | | | |
| Nova Scotia | 3 | 4,366 | 16,706,991 | 3,270,900 | 25,989,767 | 23,646,154 | 51,321,212 |
| Quebec | 15 | 4,273 | 16,938,168 | 3,979,343 | 25,111,454 | 43,405,627 | 71,614,798 |
| Ontario | 18 | 25,654 | 122,151,730 | 29,673,417 | 239,452,056 | 271,173,067 | 531,684,074 |
| Manitoba | 2 | | | | | | |
| Alberta | 3 | 1,750 | 7,083,978 | 1,388,291 | 10,745,305 | 14,298,148 | 26,240,386 |
| British Columbia | 9 | | | | | | |
| **Canada** | **50**[1] | **36,043** | **162,880,867** | **38,311,951** | **301,298,582** | **352,522,996** | **680,860,470**[2] |

1. See footnote 1 of introductory text.
2. See footnote 2 of introductory text.
3. See footnote 3 of introductory text.

**TABLE 3. Inventories[1], 1956**

| | Raw materials and supplies | Goods in process | Finished goods of own manufacture | Total |
|---|---|---|---|---|
| | $ | $ | $ | $ |
| Opening: | | | | |
| Nova Scotia | 5,835,650 | 1,190,899 | 553,749 | 7,580,298 |
| Quebec | 3,785,938 | 1,815,930 | 1,456,565 | 7,058,433 |
| Ontario | 45,929,395 | 22,190,991 | 19,042,353 | 87,162,739 |
| Manitoba, Alberta and British Columbia | 2,260,064 | 580,259 | 346,464 | 3,186,787 |
| **Canada** | **57,811,047** | **25,778,079** | **21,399,131** | **104,988,257** |
| Closing: | | | | |
| Nova Scotia | 8,120,345 | 1,509,821 | 1,820,436 | 11,450,602 |
| Quebec | 6,298,716 | 2,786,291 | 1,367,830 | 10,452,837 |
| Ontario | 61,444,173 | 27,228,907 | 22,618,903 | 111,291,983 |
| Manitoba, Alberta and British Columbia | 5,053,423 | 803,077 | 315,004 | 6,171,504 |
| **Canada** | **80,916,657** | **32,328,096** | **26,122,173** | **139,366,926** |

1. Book value of all manufacturing inventories owned and held at plant and plant warehouses.

## (a) PIG IRON

**TABLE 4. Production of Pig Iron and Sales by Producers, 1955 and 1956**

| Grade | Delivered in molten condition | Machine-cast | Total tonnage made | Sales | |
|---|---|---|---|---|---|
| | | | | Quantity | Income from sales |
| | Net tons | | | | $ |
| 1955 | | | | | |
| Basic | 2,422,387 | 169,275 | 2,591,662 | 19,955 | 974,624 |
| Foundry[1] | – | 176,710 | 176,710 | 163,250 | 8,138,269 |
| Malleable | 652 | 446,343 | 446,995 | 426,773 | 21,426,107 |
| **Total** | **2,423,039** | **792,328** | **3,215,367** | **609,978** | **30,539,000** |
| 1956 | | | | | |
| Basic | 2,747,571 | 242,651 | 2,990,222 | 88,122 | 4,542,632 |
| Foundry[1] | – | 150,354 | 150,354 | 143,178 | 7,639,844 |
| Malleable | 219 | 427,408 | 427,627 | 417,913 | 22,319,044 |
| **Total** | **2,747,790** | **820,413** | **3,568,203** | **649,213** | **34,501,520** |

1. Includes silvery pig.

# PRODUCTION OF IRON AND STEEL IN CANADA, 1947-1956

(THOUSAND NET TONS)

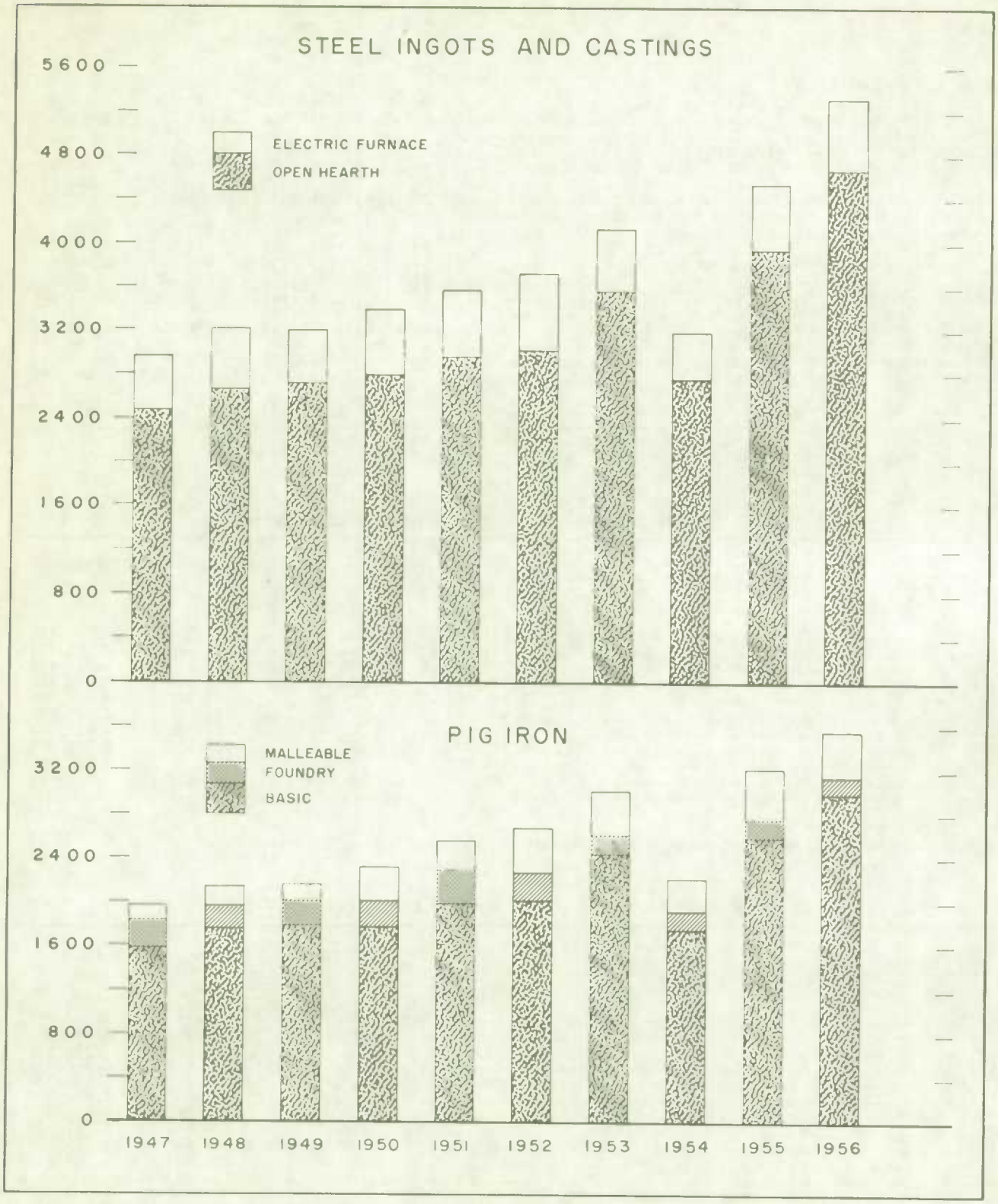

**TABLE 5. Materials Charged to Iron Blast Furnaces, 1955 and 1956**

| Material | 1955 | | 1956 | |
|---|---|---|---|---|
| | Quantity | Cost at furnace | Quantity | Cost at furnace |
| | Net tons | $ | Net tons | $ |
| Crude iron ore used in making pig iron — | | | | |
| (a) From Canadian mines | 900,875 | 7,258,208 | 1,055,757 | 9,421,231 |
| (b) From foreign mines | 3,837,301 | 31,997,175 | 3,611,749 | 32,545,279 |
| Pyrite cinder | — | — | — | — |
| Iron ore (sintered, pelletized, etc.) — | | | | |
| (a) From Canadian mines | | | 730,981 | 7,442,968 |
| (b) From foreign mines | | | 19,330 | 226,093 |
| (c) From own processing (not to include mine sinter plant) | 1,279,259 | 10,964,713 | 1,104,741 | 10,817,239 |
| Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.) | | | 272,134 | 870,752 |
| Scrap | 125,485 | 1,226,914 | 173,914 | 3,210,797 |
| Limestone — (a) From Canadian quarries | 592,366 | 1,586,436 | 560,746 | 1,503,649 |
| (b) From foreign sources | 475,331 | 653,092 | 530,397 | 793,193 |
| Dolomite — (a) From Canadian quarries | 286,485 | 447,178 | 294,117 | 467,038 |
| (b) From foreign sources | — | — | 8,991 | 16,738 |
| Coke (including own make) | 2,817,048 | 37,798,907 | 3,051,914 | 42,393,488 |
| Firebrick, fireclay and other refractories | — | 133,800 | — | 190,066 |
| Other materials and process supplies | — | 402,520 | — | 417,481 |
| Less credit for flue dust produced | 1 | 1 | 310,894 | 858,686 |
| **Total cost of materials and process supplies** | — | **92,468,943** | | **109,457,326** |

1. Not collected separately in 1955.

**TABLE 6. Production[1] of Pig Iron, by Grades, 1947-1956**

| Year | Basic | Foundry | Malleable | Total |
|---|---|---|---|---|
| | Net tons | | | |
| 1947 | 1,587,254 | 234,612 | 140,982 | 1,962,848[2] |
| 1948 | 1,741,613 | 216,246 | 167,880 | 2,125,739 |
| 1949 | 1,790,328 | 215,768 | 148,389 | 2,154,485 |
| 1950 | 1,753,440 | 238,263 | 315,418 | 2,317,121 |
| 1951 | 1,988,942 | 306,264 | 257,687 | 2,552,893 |
| 1952 | 2,053,691 | 220,754 | 407,140 | 2,681,585 |
| 1953 | 2,436,504 | 182,821 | 392,943 | 3,012,268 |
| 1954 | 1,740,712 | 167,797 | 302,520 | 2,211,029 |
| 1955 | 2,591,662 | 176,710 | 446,995 | 3,215,367 |
| 1956 | 2,990,222 | 150,354 | 427,627 | 3,568,203 |

1. See footnote to Table 17.
2. Includes 1,272 tons produced in British Columbia by an electric furnace process.

**TABLE 7. Production[1] of Pig Iron, by Provinces, 1947-1956**

| Year | Nova Scotia | Ontario | Total |
|---|---|---|---|
| | Net tons | | |
| 1947 | 354,789 | 1,606,787 | 1,962,848[2] |
| 1948 | 438,430 | 1,687,309 | 2,125,739 |
| 1949 | 472,885 | 1,681,600 | 2,154,485 |
| 1950 | 513,029 | 1,804,092 | 2,317,121 |
| 1951 | 485,900 | 2,066,993 | 2,552,893 |
| 1952 | 395,262 | 2,286,323 | 2,681,585 |
| 1953 | 440,005 | 2,572,263 | 3,012,268 |
| 1954 | 314,297 | 1,896,732 | 2,211,029 |
| 1955 | 402,759 | 2,812,608 | 3,215,367 |
| 1956 | 466,306 | 3,101,897 | 3,568,203 |

1. See footnote to Table 17.
2. Includes 1,272 tons produced in British Columbia by an electric furnace process.

**TABLE 8. Production of Pig Iron, by Months, 1955 and 1956**

| Month | 1955 | | | 1956 | | |
|---|---|---|---|---|---|---|
| | For own use | For sale | Total | For own use | For sale | Total |
| | Net tons | | | | | |
| January | 181,885 | 17,579 | 199,464 | 256,267 | 28,817 | 285,084 |
| February | 194,284 | 20,791 | 215,075 | 237,929 | 30,528 | 268,457 |
| March | 256,406 | 19,323 | 275,729 | 254,543 | 38,099 | 292,642 |
| April | 223,812 | 48,375 | 272,187 | 237,745 | 49,338 | 287,083 |
| May | 223,879 | 60,197 | 284,076 | 215,796 | 75,504 | 291,300 |
| June | 214,868 | 60,181 | 275,049 | 232,830 | 70,288 | 303,118 |
| July | 216,353 | 50,442 | 266,795 | 240,091 | 67,551 | 307,642 |
| August | 209,224 | 79,640 | 288,864 | 262,010 | 54,716 | 316,726 |
| September | 199,127 | 77,668 | 276,795 | 236,566 | 59,258 | 295,824 |
| October | 222,312 | 71,111 | 293,423 | 250,317 | 57,313 | 307,630 |
| November | 208,878 | 75,494 | 284,372 | 219,251 | 79,649 | 298,900 |
| December | 254,361 | 29,177 | 283,538 | 275,645 | 38,152 | 313,797 |
| **Total** | **2,605,389** | **609,978** | **3,215,367** | **2,918,990** | **649,213** | **3,568,203** |

Note. Above breakdown developed from a special monthly report on primary iron and steel including revisions necessary to affect reconciliation with annual totals shown in table 4.

**TABLE 9. Sales of Pig Iron by Producers, 1947-1956**

| Year | Tonnage sold | Income from sales | Year | Tonnage sold | Income from sales |
|---|---|---|---|---|---|
| | | $ | | | $ |
| 1947 | 458,300 | 14,172,493 | 1952 | 752,963 | 37,998,156 |
| 1948 | 454,341 | 17,165,056 | 1953 | 626,624 | 31,510,562 |
| 1949 | 391,423 | 16,400,258 | 1954 | 455,552 | 22,142,040 |
| 1950 | 636,558 | 27,484,529 | 1955 | 609,978 | 30,539,000 |
| 1951 | 726,357 | 36,891,960 | 1956 | 649,213 | 34,501,520 |

**TABLE 10. Iron ore, Fuel and Flux Charged to Iron Blast Furnaces, 1947-1956**

| Year | Iron ore[1] | Mill cinder[2], scale, etc. | Iron and steel scrap | Coke | Limestone | Dolomite |
|---|---|---|---|---|---|---|
| | Net tons | | | | | |
| 1947 | 3,672,975 | 154,595 | 39,474 | 1,903,419 | 780,600 | 99,507 |
| 1948 | 3,910,618 | 273,846 | 44,374 | 2,075,263 | 887,297 | 115,443 |
| 1949 | 3,846,066 | 298,598 | 58,240 | 2,011,749 | 827,455 | 121,847 |
| 1950 | 4,173,513 | 287,032 | 42,510 | 2,139,615 | 865,492 | 148,798 |
| 1951 | 4,645,021 | 345,497 | 65,390 | 2,377,968 | 954,546 | 171,757 |
| 1952 | 4,882,153 | 320,470 | 106,754 | 2,493,903 | 981,489 | 212,237 |
| 1953 | 5,235,650 | 673,879 | 85,799 | 2,804,996 | 1,079,781 | 295,984 |
| 1954 | 3,749,109 | 577,577 | 82,399 | 1,969,669 | 778,200 | 258,463 |
| 1955 | 5,311,382 | 706,053 | 125,845 | 2,817,048 | 1,067,697 | 286,485 |
| 1956 | 6,522,558 | 272,134 | 173,914 | 3,051,914 | 1,091,143 | 303,108 |

1. Since 1956 includes some ore in processed form previously reported under heading of "Mill cinder, scale, etc."
2.. Since 1956 includes these products in not sintered form only.

**TABLE 11. Imports into Canada and Exports of Pig Iron, 1947-1956**

| Year | Imports | | Exports | |
|---|---|---|---|---|
| | Net tons | Value | Net tons | Value |
| | | $ | | $ |
| 1947 | 8,893 | 252,054 | 1,475 | 55,610 |
| 1948 | 7,378 | 233,223 | 662 | 29,226 |
| 1949 | 20,531 | 936,311 | 12,506 | 547,963 |
| 1950 | 29,628 | 1,116,387 | 194,528 | 8,357,945 |
| 1951 | 22,126 | 1,000,915 | 223,635 | 12,303,679 |
| 1952 | 1,665 | 99,215 | 375,987 | 19,167,532 |
| 1953 | 25,484 | 1,246,449 | 345,415 | 16,984,257 |
| 1954 | 20,009 | 1,044,056 | 202,603 | 10,021,672 |
| 1955 | 14,518 | 989,657 | 254,472 | 13,272,635 |
| 1956 | 12,637 | 803,979 | 257,627 | 14,117,044 |

**TABLE 12. Stocks of Pig Iron Held at Year-End by Producers in Canada, 1947-1956**

| Year | Net tons | Year | Net tons |
|---|---|---|---|
| 1947 | 44,976 | 1952 | 58,959 |
| 1948 | 31,391 | 1953 | 135,731 |
| 1949 | 71,231 | 1954 | 127,894 |
| 1950 | 85,372 | 1955 | 136,415 |
| 1951 | 81,220 | 1956 | 113,629 |

**TABLE 13. Apparent Supply of Pig Iron in Canada, 1947-1956**

| Year | Production | Add imports | Deduct exports | Add or deduct changes in producers' stocks[1] | Apparent supply[2] |
|---|---|---|---|---|---|
| | Net tons | | | | |
| 1947 | 1,962,848 | 8,893 | 1,475 | + 7,136 | 1,977,402 |
| 1948 | 2,125,739 | 7,378 | 662 | + 13,585 | 2,146,040 |
| 1949 | 2,154,485 | 20,531 | 12,506 | - 39,840 | 2,122,670 |
| 1950 | 2,317,121 | 29,628 | 194,528 | - 14,141 | 2,138,080 |
| 1951 | 2,552,893 | 22,126 | 223,635 | + 4,152 | 2,355,536 |
| 1952 | 2,681,585 | 1,665 | 375,987 | + 22,261 | 2,329,524 |
| 1953 | 3,012,268 | 25,484 | 345,415 | - 76,822 | 2,615,515 |
| 1954 | 2,211,029 | 20,009 | 202,603 | + 7,887 | 2,036,322 |
| 1955 | 3,215,367 | 14,518 | 254,472 | - 8,521 | 2,966,892 |
| 1956 | 3,568,203, | 12,637 | 257,627 | + 22,786 | 3,345,999 |

1. In this column the + sign indicates a decline in stocks or that this tonnage was released for consumption; the sign indicates an increase in stocks or that this amount was withheld from consumption.
2. No allowance made for changes in consumers' stocks, of which there is no record.

**TABLE 14. Consumption of Pig Iron in Canada, by Industries and by Provinces, 1953-1956**
**(As reported by consumers)**

| | 1953 | 1954 | 1955 | 1956[1] |
|---|---|---|---|---|
| | Net tons | | | |
| **(a) By Industries** | | | | |
| Steel ingots and castings | 2,311,378 | 1,767,307 | 2,554,433 | 2,902,367 |
| Iron castings | 204,687 | 160,876 | 216,433 | – |
| Boilers and platework | 24,869 | 19,587 | 21,999 | – |
| Agricultural implements | 12,798 | 7,341 | 9,650 | 11,213 |
| Machinery | 20,638 | 18,924 | 19,016 | – |
| Motor vehicles | 9,140 | 2,772 | 5,000 | 6,131 |
| Motor vehicle parts | 31,880 | 20,457 | 25,197 | 32,306 |
| Railway rolling stock | 9,797 | 4,679 | 3,363 | 1,470 |
| Brass and copper products | 4,075 | 4,353 | 3,793 | 3,838 |
| Shipbuilding | 863 | 541 | 483 | 569 |
| Hardware and tools | 1,581 | 1,695 | 1,697 | – |
| Miscellaneous iron and steel | 15,338 | 11,353 | 15,534 | – |
| Heating and cooking apparatus | 12,909 | 9,045 | 8,578 | – |
| Electrical apparatus and supplies | 6,182 | 3,612 | 3,911 | – |
| Bridge and structural steel | 1,468 | 711 | 1,173 | – |
| Miscellaneous | – | – | 9,000 | – |
| **Total** | **2,667,603** | **2,034,253** | **2,899,260** | – |
| **(b) By Provinces** | | | | |
| Prince Edward Island and Newfoundland | 31 | 10 | 28 | – |
| Nova Scotia | 430,981 | 318,174 | 405,704 | – |
| New Brunswick | 3,136 | 3,144 | 3,165 | – |
| Quebec | 75,365 | 65,995 | 73,962 | – |
| Ontario | 2,150,328 | 1,640,583 | 2,407,036 | – |
| Manitoba | 6,172 | 5,231 | 5,769 | – |
| Saskatchewan | – | – | – | – |
| Alberta | 471 | 536 | 550 | – |
| British Columbia | 1,119 | 575 | 3,046 | – |
| **Canada** | **2,667,603** | **2,034,253** | **2,899,260** | – |

1. Date for 1956 are not yet complete.

**TABLE 15. Blast Furnaces in Canada, 1954-1956**

| Name of company | Location of plant | Number of stacks | Total annual capacity | Number of days in blast | | |
|---|---|---|---|---|---|---|
| | | | | 1954 | 1955 | 1956 |
| Dominion Foundries & Steel Ltd. | Hamilton, Ont. | 1 | 320,000 | 365 | 365 | 366 |
| | | 1 | 320,000 | – | – | 39 |
| | **Total** | **2** | **640,000** | – | – | – |
| Dominion Iron & Steel Limited | Sydney, Nova Scotia | 1 | 237,000 | 255 | 344 | 366 |
| | | 1 | 265,000 | 365 | 365 | 366 |
| | | 1 | 182,000 | 39 | – | – |
| | **Total** | **3** | **684,000** | – | – | – |
| Canadian Furnace Company, Limited | Port Colborne, Ont. | 1 | 200,000 | 141 | 329 | 341 |
| | | 1 | 73,000 | – | – | – |
| | **Total** | **2** | **273,000** | – | – | – |
| The Steel Company of Canada, Limited | Hamilton, Ont. | 1 | 123,000 | 210 | 364 | 366 |
| | | 1 | 271,000 | 127 | 364 | 362 |
| | | 1 | 377,000 | 354 | 362 | 365 |
| | | 1 | 470,000 | 362 | 362 | 364 |
| | **Total** | **4** | **1,241,000** | – | – | – |
| Algoma Steel Corporation, Limited | Sault Ste. Marie, Ont. | 1 | 109,000 | – | 303 | 360 |
| | | 1 | 218,000 | – | – | 200 |
| | | 1 | 177,000 | 57 | 365 | 355 |
| | | 1 | 440,000 | 323 | 319 | 363 |
| | | 1 | 440,000 | 362 | 315 | 363 |
| | **Total** | **5** | **1,384,000**[1] | – | – | – |
| **Total for Canada** | | **16** | **4,222,000** | – | – | – |

1. Potential annual capacity due to limitations imposed by auxiliary facilities = 1,280,000 net tons.

**TABLE 16. World Production of Pig Iron and Ferro-alloys, by Countries (Figures taken from the "Annual Statistical Report" published by the American Iron and Steel Institute, New York, U.S.A.)**

| Country | 1952 | 1953 | 1954 | 1955 | 1956 |
|---|---|---|---|---|---|
| | 000's of net tons | | | | |
| United States | 63,354 | 77,250 | 59,806 | 79,264 | 77,575 |
| Canada | 2,880 | 3,206 | 2,318 | 3,334 | 3,596 |
| Mexico | 264 | 287 | 250 | 120 | 145 |
| Brazil | 899 | 979 | 1,170 | 1,185 | 1,254 |
| Chile | 298 | 316 | 336 | 282 | 399 |
| Austria | 1,293 | 1,467 | 1,494 | 1,664 | 1,889 |
| Belgium | 5,277 | 4,648 | 5,092 | 5,941 | 6,345 |
| Luxemburg | 3,392 | 3,002 | 3,086 | 3,401 | 3,651 |
| France | 10,772 | 9,553 | 9,851 | 12,216 | 12,838 |
| Saar | 2,811 | 2,626 | 2,754 | 3,176 | 3,342 |
| Italy | 1,327 | 1,350 | 1,483 | 1,912 | 2,193 |
| Netherlands | 594 | 654 | 673 | 739 | 730 |
| Norway | 293 | 297 | 256 | 368 | 492 |
| Sweden | 1,160 | 1,109 | 1,042 | 1,317 | 1,465 |
| Finland | 119 | 88 | 82 | 127 | 113 |
| United Kingdom | 12,014 | 12,510 | 13,306 | 13,966 | 14,707 |
| Spain | 862 | 934 | 1,019 | 1,089 | 1,016 |
| Hungary | 716 | 840 | 896 | 966 | 500 |
| Germany – Western | 14,291 | 12,846 | 13,869 | 18,108 | 19,504 |
| Eastern | 375 | 1,177 | 1,736 | 1,668 | 1,801 |
| Russia | 27,000 | 30,352 | 33,069 | 36,376 | 39,683 |
| Czechoslovakia | 2,480 | 3,192 | 3,248 | 3,307 | 3,571 |
| Poland | 1,818 | 2,531 | 2,867 | 3,439 | 3,714 |
| Rumania | 397 | 504 | 560 | 635 | 686 |
| Yugoslavia | 306 | 309 | 405 | 585 | 711 |
| Union of South Africa | 1,241 | 1,353 | 1,319 | 1,434 | 1,495 |
| Australia | 1,587 | 2,057 | 2,082 | 2,011 | 2,323 |
| Turkey | 212 | 321 | 216 | 221 | 239 |
| India | 2,062 | 1,990 | 2,174 | 2,123 | 2,181 |
| Japan | 3,953 | 5,129 | 5,237 | 5,982 | 6,906 |
| Other countries | 136 | 334 | 2,825 | 4,354 | 4,789 |
| **Total** | **164,183** | **183,121** | **174,523** | **211,307** | **219,855** |

## (b) FERRO-ALLOYS

**TABLE 17. Production[2] of Ferro-alloys[1], 1947-1956**

| Year | Net tons | Year | Net tons |
|---|---|---|---|
| 1947 | 227,123 | 1952 | 232,117 |
| 1948 | 232,734 | 1953 | 153,660 |
| 1949 | 202,092 | 1954 | 116,141 |
| 1950 | 180,499 | 1955 | 189,805 |
| 1951 | 266,252 | 1956 | 240,480 |

1. Figures in the above table up to 1949 include production of silvery pig iron; since 1950, however, tonnages of the latter are included with pig iron.
2. Factory shipments since 1953.

**TABLE 18. Producers of Ferro-alloys, 1956**

| Name of company | Plant location | Kind of ferro-alloy made |
|---|---|---|
| Canadian Carborundum Company, Limited | Niagara Falls, Ontario | Ferrosilicon (by-product) |
| Chromium Mining & Smelting Corp., Limited | Sault Ste. Marie, Ontario | Ferrosilicon, sil-x, chrom-x, ferrochrome, ferrochrome-silicon, speigeleisen |
| Electro Metallurgical Company, Division of Union Carbide Canada Ltd. | (a) Beauharnois, Québec<br>(b) Welland, Ontario | Ferrosilicon<br>Ferrosilicon, ferrochrome, ferromanganese, silico-manganese, ferrochrome-silicon, spiegeleisen |
| Electro-Reagents (Quebec) Limited | Beauharnois, Quebec | Ferrosilicon |
| Electric Reduction Company of Canada, Limited | Buckingham, Quebec | Ferrophosphorus |
| Exolon Company | Thorold, Ontario | Ferrosilicon (by-product) |
| Lionite Abrasives Limited | Stamford, Ontario | Ferrosilicon (by-product) |
| Norton Company | Chippawa, Ontario | Ferrosilicon (by-product) |
| Simonds Canada Abrasive Co., Limited | Arvida, Quebec | Ferrosilicon (by-product) |

## (c) STEEL INGOTS AND DIRECT STEEL CASTINGS

**TABLE 19. Production of Steel Ingots and Steel Castings, and Sales by the Producers, 1955 and 1956**

| | 1955 | | | 1956 | | |
|---|---|---|---|---|---|---|
| | Total tonnage of steel made (all kinds), including alloys | Sales | | Total tonnage of steel made (all kinds) including alloys | Sales | |
| | | Quantity | Income from sales | | Quantity | Income from sales |
| | Net tons | | $ | Net tons | | $ |
| Steel ingots: | | | | | | |
| Basic open-hearth[1] | 3,917,151 | 115,227 | 7,351,708 | 4,623,777 | 19,621 | 1,346,107 |
| Electric | 529,190 | 2,500 | 514,317 | 551,644 | 28,319 | 2,090,464 |
| **Total steel ingots** | **4,446,341** | **117,727** | **7,866,025** | **5,180,421** | **47,940** | **3,436,571** |
| Steel castings: | | | | | | |
| Basic open-hearth | 25,953 | 23,309 | 9,426,494 | 32,107 | 28,949 | 11,234,022 |
| Converter | 165 | 151 | 108,572 | 307 | 272 | 159,000 |
| Electric | 62,213 | 59,927 | 26,281,156 | 88,367 | 87,127 | 40,496,539 |
| **Total steel castings** | **88,331** | **83,387** | **35,816,222** | **120,781** | **116,348** | **51,889,561** |
| **Total steel ingots and castings** | **4,534,672** | **201,114** | **43,682,247** | **5,301,202** | **164,288** | **55,326,132** |
| Any other products | – | – | 650,768 | – | – | 783,247 |
| **Total all products** | – | – | **44,333,015** | – | – | **56,109,379** |
| Alloy steel included in above: | | | | | | |
| Ingots | 217,207 | 1,211 | 353,433 | 218,611 | 344 | 44,661 |
| Castings | 21,928 | 21,141 | 12,118,415 | 27,774 | 26,270 | 16,334,427 |
| **Total** | **239,135** | **22,352** | **12,471,848** | **246,385** | **26,614** | **16,379,088** |

1. Includes production from oxygen vessels.

TABLE 20. Materials Used in Steel Furnaces, 1955 and 1956

| Material | 1955 | | 1956 | |
|---|---|---|---|---|
| | Quantity | Cost of purchased materials | Quantity | Cost of purchased materials |
| | Net tons | $ | Net tons | $ |
| Pig iron: | | | | |
| Own make | 2,545,522 | — | 2,892,126 | — |
| Purchased | 8,911 | 461,456 | 10,241 | 593,235 |
| Scrap iron or steel: | | | | |
| Own make | 1,227,403 | — | 1,359,339 | — |
| Purchased | 1,138,704 | 36,307,334 | 1,506,224 | 67,055,699 |
| Spiegeleisen | 550 | 43,650 | 1,178 | 99,151 |
| Ferromanganese — High carbon (over 3 per cent carbon) | 28,958 | 5,584,443 | 33,758 | 7,206,033 |
| Medium carbon | 243 | 99,431 | 550 | 243,164 |
| Low carbon (maximum 0.75 per cent carbon) | 3,157 | 1,238,213 | 3,112 | 1,273,590 |
| Silico manganese | 6,962 | 1,535,894 | 7,958 | 1,861,385 |
| Ferrosilicon — Low silicon grade (under 45 per cent silicon) | 300 | 23,211 | 397 | 36,269 |
| Medium silicon grade | 8,184 | 895,185 | 9,846 | 1,243,983 |
| High silicon grade (over 55 per cent silicon) | 607 | 154,566 | 1,050 | 241,527 |
| Sil-x | 264 | 59,501 | 86 | 17,774 |
| Ferrochrome (including chrom-X) — High carbon | 2,234 | 639,270 | 2,594 | 845,614 |
| Low carbon (maximum 2 per cent carbon) | 4,172 | 2,012,535 | 4,497 | 2,393,462 |
| Ferromolybdenum | 77 | 143,977 | 169 | 347,813 |
| Ferrophosphorus | 193 | 18,687 | 231 | 24,317 |
| Ferroselenium | 10 | 92,344 | 5 | 92,204 |
| Ferrotitanium | 156 | 48,074 | 277 | 84,393 |
| Ferrotungsten | 53 | 196,376 | 37 | 160,436 |
| Ferrovanadium | 77 | 278,921 | 97 | 354,357 |
| Ferrozirconium | 47 | 18,439 | 56 | 24,577 |
| Calcium silicon | 191 | 85,685 | 307 | 160,014 |
| Calcium manganese silicon | 134 | 61,843 | 175 | 91,325 |
| Other ferro-alloys | 1,069 | 386,139 | 1,225 | 473,486 |
| Iron ore, crude | 355,892 | 4,921,363 | 364,401 | 6,263,634 |
| Iron ore, calcined, roasted or treated | 49,817 | 694,525 | 108,075 | 1,715,587 |
| Manganese ore | — | — | — | — |
| Chrome ore | 1,110 | 71,811 | 1,366 | 91,803 |
| Tungsten ore | 40 | 103,339 | 56 | 147,244 |
| Aluminum ingots, shot, etc. | 1,253 | 626,369 | 1,587 | 904,250 |
| Copper ingots, cakes, shot, etc. | 339 | 231,580 | 548 | 446,426 |
| Nickel ingots, cathodes, shot, etc. | 2,146 | 2,681,173 | 2,886 | 3,678,582 |
| Other metals | 49 | 64,202 | 55 | 192,826 |
| Coal (charged to steel furnaces; not for fuel) | 506 | 12,649 | 668 | 24,314 |
| Coke (charged to steel furnaces; not for fuel) | 2,679 | 49,279 | 5,279 | 74,786 |
| Charcoal | 54 | 4,060 | 76 | 6,627 |
| Bentonite | 4,786 | 155,776 | 6,701 | 229,081 |
| Dolomite — Raw, crushed | 96,383 | 248,465 | 106,649 | 283,752 |
| Calcined | 86,420 | 2,118,600 | 95,703 | 2,407,384 |
| Fluorspar | 18,610 | 577,438 | 18,979 | 649,817 |
| Ganister | 3,990 | 23,353 | 3,204 | 18,792 |
| Graphite | 808 | 84,807 | 1,108 | 111,614 |
| Lime | 137,216 | 1,756,872 | 147,911 | 2,045,354 |
| Limestone | 219,147 | 530,324 | 232,065 | 577,909 |
| Linseed oil | 27,710 | 31,567 | 35,680 | 41,347 |
| Magnesite | 10,230 | 606,638 | 10,784 | 676,943 |
| Electrodes | — | 1,751,703 | — | 2,073,147 |
| Silica sand — For moulds | 52,874 | 522,129 | 138,480 | 1,005,764 |
| For sand blasting | 208 | 13,716 | 283 | 21,167 |
| Other foundry sands | 3,841 | 43,771 | 5,886 | 131,356 |
| Sulphur | 65 | 5,731 | 86 | 8,554 |
| Firebrick, fireclay and other refractories | — | 6,708,084 | — | 8,621,126 |
| Calcium molybdate | 11 | 16,352 | 11 | 15,067 |
| Molybdenum trioxide (molybdic oxide) briquettes | 442 | 561,770 | 501 | 678,915 |
| All other materials | — | 2,904,749 | — | 6,582,265 |
| **Total value of purchased materials** | — | **78,507,369** | — | **124,649,241** |

**TABLE 21. Production of Steel Ingots and Steel Castings, by Grades, 1947-1956**

| Year | Steel ingots | | Steel castings | | | Total steel ingots and castings |
|---|---|---|---|---|---|---|
| | Open-hearth | Electric | Open-hearth | Converter | Electric | |
| | Net tons | | | | | |
| 1947 | 2,438,569 | 416,210 | 24,100 | 741 | 66,332 | 2,945,952 |
| 1948 | 2,620,946 | 466,117 | 34,041 | 395 | 78,981 | 3,200,480 |
| 1949 | 2,688,036 | 407,590 | 28,671 | 80 | 66,000 | 3,190,377 |
| 1950 | 2,771,842 | 526,229 | 22,488 | 232 | 62,784 | 3,383,575 |
| 1951 | 2,917,005 | 530,127 | 30,758 | 282 | 90,548 | 3,568,720 |
| 1952 | 3,017,692 | 560,066 | 34,680 | 379 | 90,294 | 3,703,111 |
| 1953 | 3,522,039 | 487,509 | 30,406 | 254 | 75,860 | 4,116,068 |
| 1954 | 2,727,730[1] | 386,061 | 22,364 | 95 | 58,780 | 3,195,030 |
| 1955 | 3,917,151[1] | 529,190 | 25,953 | 165 | 62,213 | 4,534,672 |
| 1956 | 4,628,777[1] | 551,644 | 32,107 | 307 | 88,367 | 5,301,202 |

1. Includes production from oxygen vessels.

**TABLE 22. Production of Steel Ingots and Steel Castings, by Months, 1952-1956**

| Month | 1952 | 1953 | 1954 | 1955 | 1956 |
|---|---|---|---|---|---|
| | Net tons | | | | |
| January | 315,034 | 346,648 | 298,900 | 316,814 | 433,700 |
| February | 303,365 | 326,063 | 266,911 | 321,237 | 400,638 |
| March | 336,896 | 366,974 | 249,290 | 384,614 | 440,725 |
| April | 314,141 | 362,291 | 255,796 | 360,754 | 434,066 |
| May | 328,024 | 368,967 | 260,351 | 378,877 | 462,131 |
| June | 305,455 | 352,463 | 271,993 | 389,268 | 445,588 |
| July | 293,072 | 323,385 | 260,454 | 360,765 | 441,563 |
| August | 286,998 | 338,703 | 241,504 | 386,730 | 452,274 |
| September | 284,996 | 329,344 | 247,358 | 374,472 | 434,373 |
| October | 306,104 | 362,498 | 279,320 | 417,266 | 466,175 |
| November | 306,274 | 332,703 | 287,173 | 415,477 | 444,434 |
| December | 322,752 | 306,029 | 275,980 | 428,398 | 445,535 |
| **Total** | **3,703,111** | **4,116,068** | **3,195,030** | **4,534,672** | **5,301,202** |

Note: Above breakdown developed from a special monthly report on primary iron and steel including revisions necessary to affect reconciliation with annual totals shown in Table 19.

**TABLE 23. Annual Production of Steel Ingots and Steel Castings, by Provinces, 1947-1956**

| Year | Nova Scotia | Quebec | Ontario | Manitoba | Alberta | British Columbia | Canada |
|---|---|---|---|---|---|---|---|
| | Net tons | | | | | | |
| 1947 | 563,377 | 67,540 | 2,253,854 | 55,367 | 615 | 5,199 | 2,945,952 |
| 1948 | 626,604 | 73,681 | 2,436,050 | 59,084 | 397 | 4,664 | 3,200,480 |
| 1949 | 672,807 | 73,092 | 2,365,201 | 60,079 | 373 | 18,825 | 3,190,377 |
| 1950 | 685,480 | 71,531 | 2,526,770 | 69,467 | 723 | 29,604 | 3,383,575 |
| 1951 | 709,451 | 120,310 | 2,619,072 | 78,666 | 1,037 | 40,184 | 3,568,720 |
| 1952 | 649,359 | 122,627 | 2,801,706 | 85,213 | 1,574 | 42,632 | 3,703,111 |
| 1953 | 638,097 | 97,450 | 3,263,633 | 76,180 | 699 | 40,009 | 4,116,068 |
| 1954 | 462,594 | 84,777 | 2,536,952 | 65,912 | 676 | 44,119 | 3,195,030 |
| 1955 | 583,340 | 99,122 | 3,716,833 | 84,055 | 5,042 | 46,280 | 4,534,672 |
| 1956 | 706,264 | 131,266 | 4,267,179 | 113,056 | 31,945 | 51,492 | 5,301,202 |

**TABLE 24. Sales of Steel Ingots and Steel Castings by Producers, 1947-1956**

| Year | Tonnage sold | Income from sales | Year | Tonnage sold | Income from sales |
|---|---|---|---|---|---|
| | Net tons | $ | | Net tons | $ |
| 1947 | 152,113 | 25,260,293 | 1952 | 265,723 | 57,178,291 |
| 1948 | 176,314 | 34,268,313 | 1953 | 133,389 | 44,745,077 |
| 1949 | 234,218 | 36,372,735 | 1954 | 86,066 | 35,434,713 |
| 1950 | 313,780 | 38,652,613 | 1955 | 201,114 | 43,682,247 |
| 1951 | 295,279 | 52,227,452 | 1956 | 164,288 | 55,326,132 |

**TABLE 25. Production of Alloy Steel Ingots and Castings, 1947-1956**

| Year | Ingots | Castings | Total |
|---|---|---|---|
| | Net tons | | |
| 1947 | 134,339 | 13,558 | 147,897 |
| 1948 | 155,863 | 15,737 | 171,600 |
| 1949 | 143,977 | 12,975 | 156,952 |
| 1950 | 196,239 | 16,498 | 212,737 |
| 1951 | 211,137 | 19,985 | 231,122 |
| 1952 | 217,577 | 25,298 | 242,875 |
| 1953 | 191,977 | 23,874 | 215,851 |
| 1954 | 132,976 | 20,852 | 153,828 |
| 1955 | 217,207 | 21,928 | 239,135 |
| 1956 | 218,611 | 27,774 | 246,385 |

**TABLE 26. Metal, Ore and Flux Charged to Steel Furnaces, 1947-1956**

| Year | Pig iron | Ferro-manganese alloys[1] | Other ferro-alloys | Scrap iron and steel | Iron ore | Limestone | Dolomite | Fluorspar |
|---|---|---|---|---|---|---|---|---|
| | Net tons | | | | | | | |
| 1947 | 1,542,040 | 27,082 | 11,737 | 1,671,676 | 155,621 | 231,990 | 95,683 | 18,768 |
| 1948 | 1,696,128 | 30,181 | 11,150 | 1,833,539 | 170,790 | 244,096 | 118,807 | 20,651 |
| 1949 | 1,736,824 | 30,721 | 11,635 | 1,770,758 | 183,572 | 254,072 | 120,494 | 21,136 |
| 1950 | 1,667,504 | 32,691 | 12,097 | 1,995,326 | 244,512 | 265,941 | 136,666 | 21,800 |
| 1951 | 1,837,731 | 34,361 | 15,152 | 2,106,714 | 304,403 | 257,635 | 151,147 | 23,374 |
| 1952 | 1,958,258 | 36,486 | 16,513 | 2,122,270 | 277,804 | 276,202 | 149,310 | 22,576 |
| 1953 | 2,311,378 | 39,055 | 15,167 | 2,200,518 | 275,883 | 301,078 | 171,525 | 22,730 |
| 1954 | 1,767,307 | 29,571 | 11,962 | 1,629,866 | 203,119 | 182,972 | 135,987 | 16,002 |
| 1955 | 2,554,433 | 39,870 | 17,443 | 2,366,107 | 405,709 | 219,147 | 182,803 | 18,610 |
| 1956 | 2,902,367 | 46,556 | 20,567 | 2,865,563 | 472,476 | 232,065 | 202,352 | 18,979 |

1. Including spiegeleisen, silicospiegeleisen, ferromanganese (all grades) and silicomanganese.

**TABLE 27. Steel Furnaces in Canada, December 31, 1956**

| | Type | Number of Units | Size | Total annual capacity |
|---|---|---|---|---|
| | | | (Net tons) | |
| **Nova Scotia:** | | | | |
| Dominion Iron & Steel Limited, Sydney | O.H. | 2 | 200 | 312,000 |
| | O.H. | 3 | 185 | 438,000 |
| | Elec. | 1 | 11 | 33,000 |
| **Total** | — | **6** | — | **783,000** |
| Maritime Steel Foundries Ltd., New Glasgow | Elec. | 1 | 4 | 6,500 |
| **Quebec:** | | | | |
| Canadian Unitcast-Steel Ltd., Montreal | Elec. | 1 | 3 | 3,600 |
| Canadian Steel Foundries (1956) Ltd., Montreal | O.H. | 3 | 25 | 49,000 |
| | Elec. | 1 | 4 | 7,000 |
| | Elec. | 1 | 2½ | 4,600 |
| | Elec. | 1 | ½ | 1,000 |
| **Total** | — | **6** | — | **61,600** |
| Canadian Tube and Steel Products Ltd., Montreal | Elec. | 3 | 28 | 98,900 |
| Dominion Brake Shoe Company, Ltd., Joliette | Elec. | 1 | 3 | 8,000 |
| | Elec. | 1 | 5 | 12,000 |
| **Total** | — | **2** | — | **20,000** |
| Dominion Engineering Works, Ltd., Lachine | Elec. | 1 | 5 | 2,500 |
| | Elec. | 1 | 15 | 7,500 |
| **Total** | — | **2** | — | **10,000** |
| Eastern Electro-Castings Co. Ltd., Lachine | Elec. | 1 | 5 | 15,000 |
| La Compagnie F.H. Drolet Ltd., Quebec | Conv. | 1 | 1 | 300 |
| Lynn MacLeod Metallurgy Ltd., Thetford Mines | Elec. | 1 | 1 | 2,500 |
| Manganese Steel Castings Ltd., Sherbrooke | Elec. | 1 | 2 | 1,800 |
| Shawinigan Chemicals Ltd., Shawinigan Falls | Elec. | 1 | ½ | 900 |
| | Elec. | 1 | 2 | 3,600 |
| | Elec. | 1 | 1 | 1,800 |
| **Total** | — | **3** | — | **6,300** |
| Sorel Industries Ltd., Sorel | Elec. | 1 | 20 | 28,000 |
| | Elec. | 1 | 8 | 12,000 |
| | Elec. | 1 | 4 | 4,000 |
| **Total** | — | **3** | — | **44,000** |
| Sorel Steel Foundries Ltd., Sorel | Elec. | 1 | 4 | 8,750 |
| **Ontario:** | | | | |
| Algoma Steel Corp. Ltd., Sault Ste. Marie | O.H. | 8 | 90 | 430,000 |
| | O.H. | 4 | 150 | 390,000 |
| | O.H. | 2 | 330 | 300,000 |
| **Total** | — | **14** | — | **1,120,000**[1] |
| Atlas Steels Limited, Welland | Elec. | 1 | 6 | 7,200 |
| | Elec. | 1 | 10 | 12,000 |
| | Elec. | 2 | 25 | 64,000 |
| | Elec. | 2 | 45 | 86,400 |
| **Total** | — | **6** | — | **169,600** |
| Burlington Steel Co. Ltd., Hamilton | Elec. | 1 | 7 | 26,400 |
| Canada Electric Castings Ltd., Orillia | Elec. | 2 | 2 | 6,000 |
| Dominion Foundries and Steel Ltd., Hamilton | Elec. | 2 | 10 | 33,000 |
| | Elec. | 2 | 50 | 140,000 |
| | Elec. | 1 | 2½ | 9,000 |
| | Oxygen vessels | 3 | 50 | 525,000 |
| **Total** | — | **8** | | **707,000** |

1. Does not include two 25-ton Bessemer converters rated at 120,000 tons annually, used for duplexing.

**TABLE 27. Steel Furnaces in Canada, December 31, 1956 — Concluded**

| | Type | Number of Units | Size | Total annual capacity |
|---|---|---|---|---|
| | | | (Net tons) | |
| **Ontario — concluded:** | | | | |
| Fahralloy Canada Ltd., Orillia | Elec. | 1 | ½ | 1,500 |
| | Elec. | 1 | 1½ | 2,300 |
| | Elec. | 1 | 2 | 3,100 |
| **Total** | — | 3 | — | **6,900** |
| Ford Motor Co. of Canada Ltd., Windsor | Elec. | 1 | 5 | 10,500 |
| | Elec. | 15 | 4 | 88,100 |
| | Elec. | 1 | 1 | 4,400 |
| **Total** | — | 17 | — | **103,000** |
| The Indiana Steel Products Co. of Canada, Ltd. Kitchener | Elec. | 2 | ½ | 800 |
| William Kennedy and Sons Ltd., Owen Sound | Elec. | 1 | 1¾ | 2,400 |
| | Elec. | 1 | 4 | 8,000 |
| **Total** | — | 2 | — | **10,400** |
| Steel Company of Canada, Hamilton | O.H. | 4 | 112 | 417,000 |
| | O.H. | 5 | 188 | 823,000 |
| | O.H. | 4 | 315 | 1,110,000 |
| **Total** | — | 13 | — | **2,350,000** |
| Welland Electric Steel Foundry Ltd., Welland | Elec. | 1 | 2 | |
| | Elec. | 1 | 1 | 2,500 |
| | Elec. | 1 | ¼ | |
| **Total** | — | 3 | — | 2,500 |
| **Manitoba:** | | | | |
| Manitoba Rolling Mill Co. Ltd., Selkirk | O.H. | 2 | 20 | 50,000 |
| | Elec. | 1 | 6 | 26,000 |
| | Elec. | 1 | 10 | 38,000 |
| **Total** | — | 4 | — | **114,000** |
| Manitoba Foundries & Steel Ltd., Selkirk | Elec. | 1 | 5 | 4,000 |
| | Elec. | 1 | 3 | 3,000 |
| **Total** | — | 2 | — | **7,000** |
| **Alberta:** | | | | |
| Riverside Iron & Engineering Works Ltd., Calgary | Elec. | 1 | 1½ | 1,300 |
| Foothills Steel Foundry & Iron Works, Calgary | Elec. | 1 | 1 | 3,000 |
| Premier Steel Mills Ltd., Edmonton | Elec. | 1 | 15 | 43,800 |
| **British Columbia:** | | | | |
| A-1 Steel and Iron Foundry, Vancouver | Elec. | 1 | ½ | 2,000 |
| Britannia Mining and Smelting Co. Ltd., Britannia Beach | Elec. | 1 | 5 | 4,200 |
| Consolidated Mining and Smelting Co. of Canada, Trail. | Elec. | 1 | 1 | 2,500 |
| | Elec. | 1 | 6 | 6,000 |
| **Total** | — | 2 | — | **8,500** |
| Reliance Foundry Co. Ltd., Vancouver | Elec. | 1 | 1 | 2,000 |
| | Elec. | 1 | 1½ | 3,000 |
| **Total** | — | 2 | — | **5,000** |
| Vancouver Iron Works Ltd., Vancouver | Elec. | 1 | 2 | 3,500 |
| | Elec. | 1 | 1 | 2,000 |
| | Conv. | 1 | 2 | 4,500 |
| **Total** | — | 3 | — | **10,000** |
| Vancouver Steel Co. Ltd., Vancouver | Elec. | 1 | 15 | 43,400 |
| Victoria Machinery Depot Co. Ltd., Victoria | Elec. | 1 | 2 | 2,600 |
| Canadian Summer Iron Works Ltd., Vancouver | Elec. | 1 | 1 | 3,600 |

**TABLE 28. Summary of Steel Furnace Capacity, December 31, 1956**

| | Number of furnaces | Total annual capacity |
|---|---|---|
| | | Net tons |
| Basic open-hearth (including oxygen vessels) | 40 | 4,844,000 |
| Electric | 82 | 964,450 |
| Converter | 2 | 4,800 |
| **Total** | **124** | **5,813,250** |
| Steel ingots: | | |
| Basic open-hearth (including oxygen vessels) | – | 4,795,000 |
| Electric | – | 675,100 |
| **Total** | – | **5,470,100** |
| Steel castings | – | 343,150 |
| **Total ingots and castings** | – | **5,813,250** |

**TABLE 29. Summary of Steel Furnace Capacity, by Provinces, December 31, 1952-1956**

| Province | Total annual capacity | | | | |
|---|---|---|---|---|---|
| | 1952 | 1953 | 1954 | 1955 | 1956 |
| | Net tons | | | | |
| Nova Scotia | 716,000 | 737,000 | 545,000 | 653,000 | 789,500 |
| Quebec | 290,100 | 288,700 | 238,400 | 244,900 | 272,750 |
| Ontario | 3,642,975 | 3,774,875 | 4,219,075 | 4,380,800 | 4,502,600 |
| Manitoba | 66,700 | 115,600 | 118,000 | 121,000 | 121,000 |
| Alberta | 2,500 | 2,500 | 4,900 | 39,900 | 48,100 |
| British Columbia | 65,825 | 73,100 | 79,300 | 79,300 | 79,300 |
| **Canada** | **4,784,100** | **4,991,775** | **5,204,675** | **5,518,900** | **5,813,250** |

**TABLE 30. World Ingot and Castings Production, by Countries (Figures taken from the "Annual Statistical Report" published by the American Iron and Steel Institute, New York, U.S.A.)**

| Country | 1952 | 1953 | 1954 | 1955 | 1956 |
|---|---|---|---|---|---|
| | 000's of net tons | | | | |
| United States | 93,168 | 111,610 | 88,312 | 117,036 | 115,216 |
| Canada | 3,659 | 4,104 | 3,158 | 4,500 | 5,266 |
| Mexico | 437 | 474 | 450 | 580 | 640 |
| Argentina | 280 | 336 | 339 | 407 | 447 |
| Brazil | 962 | 1,084 | 1,276 | 1,285 | 1,431 |
| Austria | 1,166 | 1,401 | 1,822 | 2,009 | 2,290 |
| Belgium | 5,504 | 4,846 | 5,462 | 6,504 | 7,088 |
| Luxemburg | 3,307 | 2,930 | 3,117 | 3,556 | 3,808 |
| France | 11,980 | 11,023 | 11,713 | 13,872 | 14,769 |
| Saar | 3,112 | 2,959 | 3,091 | 3,489 | 3,720 |
| Italy | 3,890 | 3,807 | 4,639 | 5,945 | 6,541 |
| Netherlands | 755 | 947 | 1,023 | 1,073 | 1,147 |
| Sweden | 1,803 | 1,944 | 2,051 | 2,369 | 2,674 |
| United Kingdom | 18,390 | 19,723 | 20,742 | 22,313 | 23,306 |
| Spain | 1,000 | 986 | 1,209 | 1,336 | 1,347 |
| Yugoslavia | 489 | 568 | 680 | 888 | 977 |
| Germany – Western | 17,422 | 16,997 | 19,219 | 23,503 | 25,560 |
| Eastern | 1,628 | 2,296 | 2,688 | 2,751 | 2,889 |
| Russia | 38,600 | 41,776 | 44,974 | 50,265 | 52,910 |
| Czechoslovakia | 3,853 | 4,733 | 5,096 | 5,000 | 5,250 |
| Hungary | 1,534 | 1,658 | 1,579 | 1,799 | 989 |
| Poland | 3,584 | 3,920 | 4,368 | 4,868 | 5,111 |
| Rumania | 762 | 795 | 829 | 847 | 889 |
| Union of South Africa | 1,388 | 1,366 | 1,523 | 1,553 | 1,770 |
| Australia | 1,841 | 2,295 | 2,488 | 2,458 | 2,782 |
| Turkey | 169 | 179 | 186 | 207 | 205 |
| India | 1,768 | 1,687 | 1,878 | 1,910 | 1,937 |
| Japan | 7,706 | 8,457 | 8,533 | 10,370 | 12,242 |
| Other countries | 2,720 | 3,539 | 3,368 | 4,695 | 4,430 |
| **Total** | **232,876** | **258,445** | **245,812** | **297,388** | **307,634** |

**TABLE 31. Products Made in Steel Rolling and Drawing Mills, 1955 and 1956**

| Product | Total tonnage made | Factory sales | |
|---|---|---|---|
| | | Tonnage sold in Canada or for export | Income from tonnage sold |
| | Net tons | | $ |
| 1955 | | | |
| A. HOT-ROLLED PRODUCTS | | | |
| Semi-finished rolled forms: | | | |
| Blooms, billets, slabs and sheet bars, except those for forging and export items listed immediately below | 2,728,110 | 87,540 | 5,759,598 |
| Blooms, billets, slabs and sheet bars, for export | 136,809 | 140,293 | 10,793,256 |
| Blooms, billets and axle blanks, for forging purposes only, excluding all those intended for further rolling, but including blanks or pierced billets for seamless tubes | 77,806 | 70,813 | 6,561,780 |
| **Total semi-finished rolled forms** | **2,942,725** | **298,646** | **23,114,634** |
| Rails | 228,991 | 241,254 | 22,352,384 |
| Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter) | 357,775 | 362,258[3] | 33,296,084 |
| Structural steel shapes: | | | |
| Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thickness of 1/8" and over | 164,906 | 172,763 | 18,154,811 |
| Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item | 76,792 | 76,999 | 8,540,166 |
| **Total structural steel shapes[2, 4]** | **241,698** | **249,762** | **26,694,977** |
| Bars: | | | |
| Bars, not-rolled, of all grades and of all sections, including bolt, nut, rivet, spike, chain, horseshoe and other miscellaneous bars, but omitting all bars reported immediately below | 434,055 | 402,444 | 55,577,135 |
| Bars for concrete reinforcing, including twisted and other deformed bars | 218,684 | 219,375 | 24,264,636 |
| Long angle splice bars, tie plate bars and all other long rail joint bars | 89,755 | – | – |
| **Total hot-rolled bars[2]** | **742,494** | **621,819** | **79,841,771** |
| Plates, all kinds, including boiler and other sheared plates | 253,640 | 251,870 | 26,162,331 |
| Skelp | 247,701 | 244,529 | 22,198,890 |
| Hot-rolled sheets and strip, sheet piling and all other hot-rolled forms | 1,203,448 | 341,524 | 37,544,762 |
| B. COLD-ROLLED AND COATED PRODUCTS | | | |
| Bars, cold-rolled and cold-drawn | 45,195 | 45,261 | 12,252,299 |
| Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, cold-rolled strip, galvanized sheets and strip[1] and tin plate | 1,114,618 | 756,570 | 119,679,744 |
| C. OTHER PRODUCTS | | | |
| Rail fastenings – Splice bars or fish plates | 15,582 | 16,812 | 1,986,547 |
| Tie plates | 66,856 | 67,683 | 7,272,282 |
| Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc. | – | – | 6,252,881 |
| **Total value of production** | – | – | **418,649,586** |

1. Includes the tonnages made in rolling mills only.
2. Not comparable with previous years, as prior to 1951 light structurals were classified under hot-rolled bars.
3. Includes shipments transferred to own fabricating mills of producing firms. These tonnages not included prior to 1954 – see Footnote 2 of introductory Text.
4. See footnote 4 in next table.

**TABLE 31. Products Made in Steel Rolling and Drawing Mills, 1955 and 1956 – Concluded**

| Product | Total tonnage made | Factory sales | |
|---|---|---|---|
| | | Tonnage sold in Canada or for export | Income from tonnage sold |
| | Net tons | | $ |
| 1956 | | | |
| A. HOT-ROLLED PRODUCTS | | | |
| Semi-finished rolled forms: | | | |
| All semi-finished forms intended for further rolling, including blooms, billets, slabs and sheet bars – | | | |
| (a) For sale in Canada | 3,485,112 | 128,988 | 8,633,338 |
| (b) For export | 5,452 | 5,003 | 656,831 |
| Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others including export | 113,328 | 102,978 | 11,282,967 |
| Rounds or billets for seamless tubes including export | | | |
| **Total semi-finished rolled forms** | **3,603,892** | **236,969** | **20,573,136** |
| Rails | 336,662 | 333,979 | 33,027,029 |
| Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter) | 403,834 | 403,602[3] | 42,565,418 |
| Structural steel shapes: | | | |
| Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thickness of 1-8" and over | 237,932 | 237,528 | 27,191,869 |
| Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item | 78,068 | 78,036 | 9,170,117 |
| **Total structural steel shapes[2,4]** | **316,000** | **315,564** | **36,361,986** |
| Bars: | | | |
| Bars, hot-rolled, of all grades and of all sections, including bolt, nut, rivet, spike, chain, horseshoe and other miscellaneous bars, but omitting all bars reported immediately below | 515,263 | 487,993 | 74,906,798 |
| Bars for concrete reinforcing, including twisted and other deformed bars | 312,335 | 307,682 | 37,374,858 |
| Long angle splice bars, tie plate bars and all other long rail joint bars | 120,381 | – | – |
| **Total hot-rolled bars[2]** | **947,979** | **795,675** | **112,281,656** |
| Plates | 326,208 | 319,666 | 36,936,168 |
| Skelp (hot and cold rolled plate, sheets, strip and bars for pipes and tubes | 356,328 | 347,231 | 35,305,224 |
| Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms | 1,408,144 | 359,732 | 45,845,797 |
| B. COLD-ROLLED AND COATED PRODUCTS[5] | | | |
| Bars, cold-rolled and cold-drawn | 46,661 | 46,162 | 14,513,166 |
| Cold-rolled strip | 64,800 | 61,565 | 13,981,363 |
| Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, galvanized sheets and strip[1], tin plate, silicon sheet and strip, but excluding cold-rolled skelp | 1,301,142 | 827,510 | 132,049,790 |
| C. OTHER PRODUCTS | | | |
| Rail fastenings – Rail joints, including splice bars and fish plates | 18,487 | 18,675 | 2,465,669 |
| Tie plates | 88,590 | 86,592 | 10,103,650 |
| Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc. | – | – | 9,499,477 |
| **Total value of production** | – | – | **545,509,529** |

1. Includes the tonnages made in rolling mills only.
2. Not comparable with previous years, as prior to 1951 light structurals were classified under hot-rolled bars.
3. Includes shipments transferred to own frabricating mills of producing firms. These tonnages not included prior to 1954 – see Footnote 2 of introductory Text.
4. Includes in 1956 sheet piling previously reported under "All other hot-rolled products"; accordingly not comparable with tonnages reported under this category in earlier years; however, data appearing in this bulletin have been revised to accommodate this change in classification – see Tables 33 and 42
5. Note that skelp as listed provides for both hot-rolled and cold-rolled material.

**TABLE 32. Materials Used for All Purposes in Steel Rolling and Drawing Mills, 1955 and 1956**

| Materials used | Companies' own make | Purchased | |
|---|---|---|---|
| | | Quantity | Total cost at mill of purchased materials used |
| | (Net tons of 2,000 pounds) | | $ |
| **1955** | | | |
| Steel ingots | 4,278,309 | 1,377 | 514,000 |
| Steel billets | 132,924 | 89,485 | 6,606,008 |
| Steel bars | 1,490 | 37,895 | 5,141,055 |
| Rails, old | – | 66,677 | 2,853,077 |
| Axles, old | – | 9,220 | 333,186 |
| Scrap iron and steel, other | 11,660 | 7,455 | 269,300 |
| Tin | – | 2,052 | 3,726,275 |
| Zinc spelter | – | 11,845 | 2,963,675 |
| Acids – Hydrochloric (muriatic) | – | 734 | 35,850 |
| – Sulphuric, 100% | – | 21,396 | 541,444 |
| Ammonium chloride (salammoniac) | – | 339 | 59,694 |
| Palm oil | – | 352 | 80,393 |
| Silica sand | – | 558 | 4,506 |
| All other materials and supplies | – | – | 6,556,835 |
| **Total** | – | – | **29,685,298** |
| **1956** | | | |
| Steel ingots | 5,143,039 | 757 | 242,000 |
| Steel blooms | – | – | – |
| Steel billets | 142,058 | 111,671 | 8,998,641 |
| Steel slabs | – | 9,287 | 788,626 |
| Steel bars | – | 36,594 | 5,429,241 |
| Wire rods | 2,028 | 3,550 | 423,687 |
| Rails, old | – | 71,759 | 4,010,116 |
| Axles, old | – | 8,906 | 471,567 |
| Scrap iron and steel, other | 14,250 | 11,660 | 513,600 |
| Tin | – | 2,347 | 4,411,457 |
| Zinc spelter | – | 17,191 | 4,899,780 |
| Acids – Chromic | – | 92 | 51,077 |
| – Hydrochloric (muriatic) | – | 772 | 35,935 |
| – Sulphuric, 100% | – | 24,021 | 607,011 |
| Ammonium chloride (salammoniac) | – | 193 | 34,019 |
| Cleaners (Pennsalt, etc.) | – | 664 | 118,851 |
| Inhibitors (Rodine, etc.) | – | 47 | 8,866 |
| Palm oil | – | 307 | 72,877 |
| Phenone | – | 16 | 33,185 |
| Rolling oils, other | – | 2,764 | 816,969 |
| Salt | – | 1,543 | 18,280 |
| Zinc ammonium chloride | – | 265 | 59,339 |
| Refractories | – | – | 629,909 |
| Silica sand | – | 32 | 9,470 |
| All other materials and supplies | – | – | 13,396,810 |
| Containers and other packaging materials | – | – | 1,586,966 |
| **Total** | – | – | **47,668,279** |

**TABLE 33. Net Production[1] in Canada of Hot-rolled Steel Products, 1952-1956**

| Item | 1952 | 1953 | 1954 | 1955 | 1956 |
|---|---|---|---|---|---|
| | Net tons | | | | |
| Blooms, billets and slabs | 164,487 | 174,864 | 93,202 | 214,615 | 118,780 |
| Rails | 253,675 | 303,318 | 241,922 | 228,991 | 336,562 |
| Bars for rail fastenings | 97,324 | 69,286 | 58,315 | 89,755 | 120,381 |
| Wire rods | 315,789 | 286,471 | 275,121 | 357,775 | 403,834 |
| Structural shapes[2] | 231,091 | 283,203 | 193,673 | 241,698 | 316,000 |
| Bars | 689,648 | 662,989 | 470,206 | 652,739 | 827,598 |
| Plates | 234,115 | 221,818 | 201,939 | 253,640 | 326,208 |
| Sheets, hoops, bands and strips (excluding skelp) | 841,148 | 1,036,789 | 826,648 | 1,194,556 | 1,403,974 |
| Other hot-rolled forms (including hot-rolled skelp) | 153,246 | 147,215 | 153,745 | 256,593 | 346,207 |
| **Total** | **2,980,523** | **3,185,953** | **2,514,771** | **3,490,362** | **4,199,644** |

1. Inter-mill shipments have been excluded
2. Revised to include sheet piling which prior to 1956 was included with "Other hot-rolled forms."

**TABLE 34. Alloy Steel Products Made and Sold by Rolling Mills, 1955 and 1956**

| | 1955 | | 1956 | |
|---|---|---|---|---|
| | Tonnage made | Tonnage sold | Tonnage made | Tonnage sold |
| | Net tons | | | |
| Bars | 95,082 | 93,301 | 97,318 | 97,305 |
| Other products, including plates, billets, forgings, sheet piling and wire rods, etc. | 148,858 | 29,458 | 187,623 | 48,915 |
| **Total alloy steel** | **243,940** | **122,759** | **284,941** | **146,220** |

**TABLE 35. Products Rolled from Old Rails, Axles, Etc., 1955 and 1956**

| | 1955 | | 1956 | |
|---|---|---|---|---|
| | Tonnage made | Tonnage sold | Tonnage made | Tonnage sold |
| | Net tons | | | |
| Rails | — | — | — | — |
| Bars | 57,705 | 55,105 | 70,648 | 68,471 |
| Other products | 9,373 | 9,079 | 5,215 | 4,839 |
| **Total** | **67,078** | **64,184** | **75,863** | **73,310** |

**TABLE 36. Pig Iron, Steel Ingots and Castings and Semi-Finished Rolled Forms Shipped for Export by Producers, 1955 and 1956**

| | 1955 | 1956 |
|---|---|---|
| | Net tons | |
| Pig iron | 254,384 | 272,245 |
| Steel ingots | 113,480 | 37,964 |
| Steel castings | 6,478 | 3,921 |
| Semi-finished rolled forms | 140,293 | 1 |
| **Total** | **514,635** | — |

1. Not available separately in 1956.

**TABLE 37. Production and Factory Sales of Steel Rails, 1947-1956**

| Year | Tonnage made | Factory sales | |
|---|---|---|---|
| | | Tonnage sold | Income from sales |
| | Net tons | | $ |
| 1947 | 250,049 | 242,729 | 13,236,588 |
| 1948 | 337,244 | 328,572 | 21,887,014 |
| 1949 | 329,749 | 339,390 | 24,580,963 |
| 1950 | 286,672 | 286,753 | 21,305,231 |
| 1951 | 257,244 | 254,911 | 19,910,580 |
| 1952 | 253,675 | 251,894 | 21,223,964 |
| 1953 | 303,318 | 299,808 | 26,465,922 |
| 1954 | 241,922 | 232,484 | 21,421,531 |
| 1955 | 228,991 | 241,254 | 22,352,384 |
| 1956 | 336,662 | 333,979 | 33,027,029 |

**TABLE 38. Production and Factory Sales of Finished Rail Fastenings, 1947-1956**

| Year | Tie plates | | | Fish plates and splice bars | | |
|---|---|---|---|---|---|---|
| | Quantity made | Factory sales | | Quantity made | Factory sales | |
| | | Quantity | Income from sales | | Quantity | Income from sales |
| | Net tons | | $ | Net tons | | $ |
| 1947 | 39,175 | 39,459 | 2,572,632 | 10,124 | 9,666 | 747,608 |
| 1948 | 49,669 | 49,575 | 3,901,039 | 23,005 | 23,190 | 2,151,653 |
| 1949 | 48,493 | 48,343 | 4,231,844 | 14,481 | 14,267 | 1,398,332 |
| 1950 | 53,807 | 53,510 | 4,603,788 | 14,151 | 13,912 | 1,377,614 |
| 1951 | 67,588 | 66,783 | 6,464,668 | 18,655 | 18,577 | 2,008,149 |
| 1952 | 74,519 | 73,605 | 7,822,057 | 16,344 | 15,803 | 1,891,455 |
| 1953 | 50,181 | 50,202 | 5,530,240 | 14,939 | 14,159 | 1,754,308 |
| 1954 | 39,386 | 38,027 | 4,152,574 | 13,175 | 12,786 | 1,545,914 |
| 1955 | 66,856 | 67,683 | 7,272,282 | 15,582 | 16,812 | 1,986,547 |
| 1956 | 88,590 | 86,592 | 10,103,650 | 18,487 | 18,675 | 2,465,669 |

**TABLE 39. Production and Factory Sales[1] of Wire Rods of Iron or Steel, 1947-1956**

| Year | Total tonnage made | Factory sales | | Year | Total tonnage made | Factory sales | |
|---|---|---|---|---|---|---|---|
| | | Tonnage sold | Income from sales | | | Tonnage sold | Income from sales |
| | Net tons | | $ | | Net tons | | $ |
| 1947 | 284,795 | 108,512 | 5,310,661 | 1952 | 315,789 | 128,900 | 11,554,693 |
| 1948 | 286,990 | 107,686 | 6,267,303 | 1953 | 286,471 | 113,095 | 10,687,946 |
| 1949 | 290,863 | 114,114 | 7,137,187 | 1954 | 275,121 | 274,870 | 26,848,014 |
| 1950 | 293,866 | 120,429 | 8,542,496 | 1955 | 357,775 | 362,258 | 33,296,084 |
| 1951 | 318,266 | 122,514 | 9,695,144 | 1956 | 403,834 | 403,602 | 42,565,418 |

1. Includes shipments transferred to own mills of producing firms in 1954 and subsequent years. These tonnages not included before 1954-see Footnote 2 of introductory Text.

**TABLE 40. Production and Factory Sales of Blooms, Billets and Slabs, 1947-1956**

| Year | Except for forging[1] | | | For forging[2] | | |
|---|---|---|---|---|---|---|
| | Total tonnage made | Factory sales | | Total tonnage made | Factory sales | |
| | | Tonnage sold | Income from sales | | Tonnage sold | Income from sales |
| | Net tons | | $ | Net tons | | $ |
| 1947 | 1,980,914 | 264,871 | 11,278,574 | 138,034 | 128,654 | 7,075,691 |
| 1948 | 2,201,281 | 321,748 | 16,983,227 | 112,338 | 102,906 | 7,539,117 |
| 1949 | 2,272,987 | 321,094 | 18,037,477 | 82,853 | 75,830 | 5,566,209 |
| 1950 | 2,332,336 | 259,898 | 16,955,029 | 114,548 | 103,007 | 8,349,232 |
| 1951 | 2,498,536 | 308,388 | 21,066,928 | 147,004 | 138,446 | 12,446,727 |
| 1952 | 2,587,942 | 277,588 | 22,385,697 | 141,490 | 122,165 | 12,560,467 |
| 1953 | 2,760,518 | 176,515 | 14,803,628 | 110,342 | 103,471 | 10,424,976 |
| 1954 | 2,201,222 | 91,378 | 6,821,716 | 72,503 | 59,539 | 5,927,220 |
| 1955 | 2,864,919 | 227,833 | 16,552,854 | 77,806 | 70,813 | 6,561,780 |
| 1956 | 3,490,564 | 133,991 | 9,290,169 | 113,328 | 102,978 | 11,282,967 |

1. Shipment to other Canadian rolling mills are included.
2. Includes blanks or pierced billets for seamless tubes since 1947.

**TABLE 41. Production and Factory Sales of Hot-rolled Bars[1] of All Kinds, 1947-1956**

| Year | Total tonnage made | Factory sales | |
|---|---|---|---|
| | | Tonnage sold | Income from sales |
| | Net tons | | $ |
| 1947 | 609,763 | 473,430 | 38,949,914 |
| 1948 | 634,315 | 507,364 | 47,877,986 |
| 1949 | 662,488 | 532,092 | 49,414,874 |
| 1950 | 684,934 | 552,006 | 56,694,325 |
| 1951 | 763,005 | 587,160 | 73,105,972 |
| 1952 | 786,972 | 600,302 | 81,124,625 |
| 1953 | 732,275 | 592,078 | 75,013,792 |
| 1954 | 528,521 | 445,519 | 56,525,130 |
| 1955 | 742,494 | 621,819 | 79,841,771 |
| 1956 | 947,979 | 795,675 | 112,281,656 |

1. Included light structurals before 1951; therefore data since 1951 are not exactly comparable with previous years.

**TABLE 42. Production of Structural Steel Shapes[1] of All Kinds, 1947-1956**

| Year | Total tonnage made | Factory sales | |
|---|---|---|---|
| | | Tonnage sold | Income from sales |
| | Net tons | | $ |
| 1947 | 190,247 | 185,383 | 11,692,888 |
| 1948 | 192,253 | 191,048 | 14,221,829 |
| 1949 | 191,018 | 200,278 | 16,072,896 |
| 1950 | 153,144 | 151,710 | 13,377,229 |
| 1951 | 250,362 | 239,669 | 23,261,471 |
| 1952 | 231,091 | 223,071 | 23,248,170 |
| 1953 | 283,203 | 273,591 | 28,725,067 |
| 1954 | 193,673 | 190,521 | 20,056,183 |
| 1955 | 241,698 | 249,762 | 26,694,977 |
| 1956 | 316,000 | 315,564 | 36,361,986 |

1 (a). Includes light structurals since 1951 – see footnote to Table 41.
(b). In 1956 this category was revised to include sheet piling. Data in above table for previous years have been revised to accommodate this change in classification.

**TABLE 43. Production and Factory Sales of Steel Plate, 1947-1956**

| Year | Total tonnage made | Factory sales | |
|---|---|---|---|
| | | Tonnage sold | Income from sales |
| | Net tons | | $ |
| 1947 | 192,155 | 188,580 | 11,566,700 |
| 1948 | 228,978 | 228,492 | 17,300,582 |
| 1949 | 178,440 | 171,653 | 14,596,604 |
| 1950 | 150,857 | 146,559 | 12,640,871 |
| 1951 | 184,707 | 183,994 | 17,977,171 |
| 1952 | 234,115 | 234,799 | 26,071,334 |
| 1953 | 221,818 | 220,539 | 23,136,938 |
| 1954 | 201,939 | 201,524 | 20,568,611 |
| 1955 | 253,640 | 251,870 | 26,162,331 |
| 1956 | 326,208 | 319,666 | 36,936,168 |

**TABLE 44. Imports of Primary Forms of Iron and Steel, 1956**

| Commodity | Country of origin | Carbon | Alloy | Stainless |
|---|---|---|---|---|
| | | Tons of 2,000 pounds | | |
| Pig iron: | | | | |
| Silvery | United States | 955 | – | – |
| Foundry | United States | 5,884 | – | – |
| | United Kingdom | 224 | – | – |
| | Germany | 112 | – | – |
| | Australia | 2,346 | – | – |
| Ingots | United States | 1,794 | 607 | 96.3 |
| Billets, blooms, slabs, and sheet bars | United States | 3,172 | 515 | 610.1 |
| | United Kingdom | – | 40 | – |
| | Sweden | 2 | 4 | – |
| Tube rounds and tube billets | United States | 5,074 | – | – |
| Bars and sections: | | | | |
| Hot rolled, n.o.p. | United States | 62,552 | 3,683 | 283.8 |
| | United Kingdom | 9,181 | 520 | 53.7 |
| | Germany | 165 | – | – |
| | Belgium | 15,358 | – | – |
| | France | 4,411 | – | – |
| | Japan | 141 | – | – |
| | Sweden | 209 | 18 | .2 |
| | Austria | 34 | – | – |
| Hot rolled: | | | | |
| For agricultural implements | United States | 7,405 | 358 | – |
| Rounds over 4 7/8", squares over 4" | United States | 3,412 | 56 | – |
| | United Kingdom | 577 | 33 | 2.1 |
| | Belgium | 12 | – | – |
| Concrete reinforcing bars | United States | 24,689 | – | – |
| | United Kingdom | 189 | – | – |
| | Germany | 326 | – | – |
| | Belgium | 38,139 | – | – |
| | France | 18,632 | – | – |
| | Japan | 4,444 | – | – |
| | Chile | 6,265 | – | – |
| Angles, channels, etc. | United States | 23,048 | – | 228.9 |
| | United Kingdom | 7,008 | – | 10.4 |
| | Germany | 644 | – | – |
| | Belgium | 19,656 | – | – |
| | France | 6,424 | – | – |
| | Japan | 57 | – | – |
| | Norway | 257 | – | – |
| | Sweden | 17 | – | 6.9 |
| | Netherlands | 11 | – | – |
| Structurals (bar sizes) for agricultural implements | United States | 1,462 | – | – |
| Sash or casement sections | United States | 2,975 | – | – |
| | United Kingdom | 529 | – | – |
| | Belgium | 157 | – | – |
| Cold finished, n.o.p. | United States | 8,523 | 2,672 | 62.9 |
| | United Kingdom | 2,903 | 31 | 124.5 |
| | Germany | 53 | – | – |
| | Belgium | 599 | – | – |
| | France | 31 | – | – |
| | Sweden | – | – | .2 |
| | Switzerland | 46 | – | – |
| Cold finished, for agricultural implements | United States | 2,705 | 1 | – |
| Tool steel | United States | 1,899 | 983 | – |
| | United Kingdom | 438 | 782 | – |
| | Germany | – | 23 | – |
| | Austria | – | 69 | – |
| | Sweden | – | 81 | – |
| Structurals: | | | | |
| W.F. beams, 8" and over | United States | 166,830 | – | – |
| | United Kingdom | 247 | – | – |
| | Germany | 1,435 | – | – |
| | Belgium | 14,544 | – | – |
| | France | 912 | – | – |

TABLE 44. Imports of Primary Forms of Iron and Steel, 1956 – Continued

| Commodity | Country of origin | Carbon | Alloy | Stainless |
|---|---|---|---|---|
| | | Tons of 2,000 pounds | | |
| Structurals – concluded: | | | | |
| W.F. beams, under 8" | United States | 6,971 | – | – |
| | Belgium | 14 | – | – |
| Sheet piling | United States | 787 | – | – |
| | United Kingdom | 11,487 | – | – |
| | Germany | 1,788 | – | – |
| | Belgium | 349 | – | – |
| | France | 5,541 | – | – |
| All other | United States | 124,882 | – | – |
| | United Kingdom | 5,330 | – | – |
| | Germany | 5,645 | – | – |
| | Belgium | 63,673 | – | – |
| | France | 20,570 | – | – |
| | Sweden | 284 | – | – |
| | Norway | 11,314 | – | – |
| | Japan | 513 | – | – |
| | Italy | 259 | – | – |
| | Chile | 283 | – | – |
| Plates: | | | | |
| 78" and under in width | United States | 85,158 | 463 | 835.0 |
| | United Kingdom | 22,820 | – | 192.0 |
| | Germany | 22,596 | – | – |
| | Belgium | 17,293 | – | – |
| | France | 5,027 | – | – |
| | Japan | 11,147 | – | – |
| | Chile | 6,739 | – | – |
| | Hungary | 706 | – | – |
| | Czechoslovakia | 769 | – | – |
| | Poland | 296 | – | – |
| | Australia | 4,447 | – | – |
| | Austria | 66 | – | – |
| Over 78" and under 100" in width | United States | 37,975 | 28 | 323.7 |
| | United Kingdom | 16,807 | – | – |
| | Germany | 3,485 | – | – |
| | Belgium | 984 | – | – |
| | France | 105 | – | – |
| | Japan | 729 | – | – |
| | Czechoslovakia | 422 | – | – |
| | Hungary | 137 | – | – |
| 100" in width and over | United States | 8,173 | 34 | 312.9 |
| | United Kingdom | 1,164 | – | – |
| | Germany | 160 | – | – |
| | France | 27 | – | – |
| | Czechoslovakia | 478 | – | – |
| Flanged, dished or curved | United States | 2,982 | – | 34.4 |
| | United Kingdom | 379 | – | – |
| Boiler, pulp-mill digesters | United States | 5,125 | – | 2.2 |
| | United Kingdom | 34 | – | – |
| Chequered or surface pattern | United States | 15,755 | – | – |
| | United Kingdom | 977 | – | – |
| Sheets: | | | | |
| Silicon .075 or more | United States | – | 23,176 | – |
| | United Kingdom | – | 59 | – |
| | Belgium | – | 317 | – |
| Galvanized | United States | 16,273 | – | – |
| | United Kingdom | 813 | – | – |
| | Japan | 28 | – | – |
| Corrugated | United States | 7,746 | – | – |
| | United Kingdom | 15 | – | – |
| For tubes | United States | 4,742 | – | – |
| Hot rolled: | | | | |
| 18 gauge and heavier | United States | 111,029 | 433 | 58.5 |
| | United Kingdom | 5,100 | – | 153.2 |
| | Germany | 27 | – | 4.0 |
| | Belgium | 178 | – | – |
| | Sweden | – | – | 247.7 |
| | Chile | 1,082 | – | – |
| Lighter than 18 gauge | United States | 116 | 15 | 3.5 |
| | United Kingdom | 279 | – | – |
| | Germany | 26 | – | – |

**TABLE 44. Imports of Primary Forms of Iron and Steel, 1956 — Continued**

| Commodity | Country of origin | Carbon | Alloy | Stainless |
|---|---|---|---|---|
| | | Tons of 2,000 pounds | | |
| Sheets — concluded: | | | | |
| Cold rolled: | | | | |
| 18 gauge and heavier | United States | 24,111 | 28 | 1,012.2 |
| | United Kingdom | 3,290 | — | 1,114.2 |
| | France | 55 | — | — |
| | Sweden | — | — | 2.6 |
| Lighter than 18 gauge | United States | 26,814 | 17 | 1,366.1 |
| | United Kingdom | 9,844 | — | 362.1 |
| | Germany | 49 | — | — |
| For motor vehicles | United States | 18,251 | — | — |
| For hollow-ware (vitreous enamel) | United States | 15,011 | — | — |
| | United Kingdom | 4,786 | — | — |
| Coated with paint, tar, asphaltum, etc. | United States | 1,786 | — | — |
| | United Kingdom | 38 | — | — |
| | Germany | 1 | — | — |
| For heating apparatus, blue polished | United States | 11 | — | — |
| For saws | United States | 18 | 1,001 | — |
| | United Kingdom | — | 41 | — |
| | Sweden | — | 35 | — |
| Wasters and rejects | United States | 19,538 | — | — |
| Tin mill black plate | United States | 87 | — | — |
| Tin plate — Primes | United States | 1,255 | — | — |
| | United Kingdom | 332 | — | — |
| Tin plate — Electrolytic coating | United States | 980 | — | — |
| Tin plate wasters and seconds | United States | 293 | — | — |
| Terne plate — Long | United States | 6,367 | — | — |
| Short | United States | 2,134 | — | — |
| | United Kingdom | 5 | — | — |
| Strip: | | | | |
| Hot rolled: | | | | |
| 18 gauge and heavier | United States | 13,762 | 48 | .6 |
| | United Kingdom | 126 | — | — |
| | Belgium | 991 | — | — |
| | France | 401 | — | — |
| | Sweden | 4 | — | — |
| | Netherlands | 3 | — | — |
| Lighter than 18 gauge | United States | 1,169 | 22 | 2.9 |
| | Belgium | 98 | — | — |
| Cold rolled: | | | | |
| 18 gauge and heavier | United States | 2,165 | 436 | 400.8 |
| | United Kingdom | 99 | — | — |
| | Belgium | 10 | — | — |
| | Sweden | 8 | — | — |
| Lighter than 18 gauge | United States | 4,013 | 116 | 1,055.9 |
| | United Kingdom | 707 | — | — |
| | Germany | 7 | — | — |
| | Sweden | 176 | 92 | 4.7 |
| | Netherlands | 3 | — | — |
| Hot rolled strip for cold rolling | United States | 92 | — | — |
| For saws | United States | 101 | 795 | — |
| | United Kingdom | 1 | 22 | — |
| | Germany | — | 3 | — |
| | Sweden | 6 | 156 | — |
| For tubes | United States | 59 | — | — |
| For tubular products | United States | 64 | — | — |
| For shoe and corset laces, buckles, etc. | United States | 566 | — | — |
| | United Kingdom | 3 | — | — |
| For motor vehicles | United States | 5,580 | — | — |
| For hoops | United States | 1,027 | — | — |
| | United Kingdom | 416 | — | — |
| | Germany | 5 | — | — |
| | Japan | 9 | — | — |
| Coated with paint, tar, asphaltum, etc. | United States | 8,209 | — | — |
| | United Kingdom | 69 | — | — |
| | Germany | 70 | — | — |
| For butts and hinges | United States | 387 | — | — |
| | United Kingdom | 22 | — | — |
| Hoop band, or strip, galvanized | United States | 4,722 | — | — |
| | United Kingdom | 406 | — | — |
| | Germany | 9 | — | — |
| | Belgium | 17 | — | — |
| | Japan | 1 | — | — |
| Silicon .075 or more | United States | — | 9,514 | — |

TABLE 44. Imports of Primary Forms of Iron and Steel, 1956 – Continued

| Commodity | Country of origin | Carbon | Alloy | Stainless |
|---|---|---|---|---|
| | | Tons of 2,000 pounds | | |
| Skelp: | | | | |
| 15 3/8" and under in width | United States | 99,685 | – | – |
| | Germany | 7,708 | – | – |
| | Belgium | 7,534 | – | – |
| Over 15 3/8" in width | United States | 45,004 | – | – |
| Plate for pipe | United States | 4,699 | – | – |
| Pipes and tubes: | | | | |
| Spiral weld pipe | United States | 2,672 | – | – |
| For bed stead | United States | 11 | – | – |
| Cast | United States | 1,168 | – | – |
| | United Kingdom | 27,018 | – | – |
| | Germany | 36 | – | – |
| Repair of pressure parts of boilers: | | | | |
| Steamless, hot finished | United States | 3.267 | 649 | 3.5 |
| | United Kingdom | 1,163 | – | – |
| | Germany | 110 | – | – |
| | Sweden | 54 | – | .2 |
| | Italy | 11 | – | – |
| Cold drawn | United States | 436 | 99 | 25.1 |
| | United Kingdom | 415 | – | – |
| Welded | United States | 1,015 | 14 | 8.2 |
| | United Kingdom | 2,409 | – | – |
| | Switzerland | 222 | – | – |
| Seamless, 12" and under in diameter: | | | | |
| Cold drawn | United States | 8,916 | 2,577 | 274.6 |
| | United Kingdom | 1,527 | 1 | 200.5 |
| | Sweden | 356 | 466 | 42.8 |
| | Italy | 3 | – | – |
| Hot finished | United States | 8,772 | 4,015 | 8.8 |
| | United Kingdom | 8,454 | – | – |
| | Germany | 31 | – | – |
| | France | 6 | – | – |
| | Italy | 2,107 | – | – |
| Seamless, over 12" in diameter: | | | | |
| Hot finished | United States | 2,882 | 35 | – |
| | United Kingdom | 2,033 | – | – |
| | Germany | 108 | – | – |
| | Italy | 747 | – | – |
| Welded, 4" and under in diameter | United States | 9,579 | 6 | 87.1 |
| | United Kingdom | 8,388 | – | 14.0 |
| | Germany | 143 | – | – |
| | Belgium | 212 | – | – |
| | France | 583 | – | – |
| | Netherlands | 39 | – | – |
| Welded, over 4" in diameter | United States | 237,586 | – | 69.9 |
| | United Kingdom | 52,875 | – | – |
| Conduit | United States | 2,401 | – | – |
| Casings | United States | 75,545 | – | – |
| | United Kingdom | 14,915 | – | – |
| | Germany | 8,903 | – | – |
| | Belgium | 1,325 | – | – |
| | France | 7,777 | – | – |
| | Italy | 6,493 | – | – |
| | Japan | 38,613 | – | – |
| | Hungary | 169 | – | – |
| | Czechoslovakia | 1,394 | – | – |
| Tubing: | | | | |
| Not over 1/2" diameter, welded and coated | United States | 288 | – | – |
| Wire rope | United States | 1,013 | – | 9 |
| | United Kingdom | 2,002 | – | – |
| | Germany | 573 | – | – |
| | Belgium | 166 | – | – |
| | Japan | 263 | – | – |
| | Italy | 2 | – | – |
| | Netherlands | 411 | – | – |
| | Sweden | 1 | – | – |
| | Norway | 37 | – | – |
| | Denmark | 8 | – | – |

**TABLE 44. Imports of Primary Forms of Iron and Steel, 1956 – Concluded**

| Commodity | Country of origin | Carbon | Alloy | Stainless |
|---|---|---|---|---|
| | | Tons of 2,000 pounds | | |
| Wire: | | | | |
| For rope | United States | 7,144 | – | 1.5 |
| | United Kingdom | 14,829 | – | – |
| | Germany | 882 | – | – |
| | Belgium | 80 | – | – |
| | Norway | 28 | – | – |
| For springs, cushions, mattresses, etc. | United States | 2,049 | – | – |
| | Germany | 1 | – | – |
| For corset clasps, dress stays, etc. | United States | 169 | – | – |
| | United Kingdom | 23 | – | – |
| For fencing (galvanized) | United States | 165 | – | – |
| | United Kingdom | 42 | – | – |
| Coated or covered | United States | 704 | – | .3 |
| | United Kingdom | 594 | – | – |
| | Germany | 44 | – | – |
| | Belgium | 285 | – | – |
| | Japan | 16 | – | – |
| All other | United States | 7,200 | 248 | 57.9 |
| | United Kingdom | 500 | 9 | 3.7 |
| | Germany | 215 | – | – |
| | Belgium | 952 | – | – |
| | France | 541 | – | – |
| | Sweden | 116 | – | – |
| | Japan | 158 | – | – |
| | Netherlands | 150 | – | – |
| Wire rods, not over 3/8" in diameter | United States | 1,402 | – | – |
| | United Kingdom | 3,214 | – | – |
| | Gennany | 6,390 | – | – |
| | Belgium | 5,620 | – | – |
| Welding wire and welding rods | United States | 597 | 493 | 4.7 |
| | United Kingdom | 1 | 1 | – |
| Axles – For railway vehicles | United States | 267 | – | – |
| Tires – For railway rolling stock | United States | 173 | – | – |
| | United Kingdom | 3,237 | – | – |
| Wheels – For railway rolling stock | United States | 149 | – | – |
| | United Kingdom | 13,244 | – | – |
| Rails: | | | | |
| 60 lb. and under | United States | 2,407 | – | – |
| | United Kingdom | 5 | – | – |
| | Germany | 1,670 | – | – |
| | Belgium | 1,584 | – | – |
| | France | 132 | – | – |
| | Netherlands | 18 | – | – |
| Over 60 lb. and including 100 lb. | United States | 3,210 | – | – |
| | United Kingdom | 27,558 | – | – |
| Over 100 lb. | United States | 1,295 | – | – |
| Track material: | | | | |
| Fish plates, angle bars, etc. | United States | 2,816 | – | – |
| | United Kingdom | 5,711 | – | – |
| | Germany | 139 | – | – |
| | Belgium | 73 | – | – |
| | France | 5 | – | – |
| Switch points, etc. | United States | 336 | – | – |
| Total imports | United States | 1,444,287 | 53,137 | 7,233.2 |
| | All other | 726,595 | 2,803 | 2,539.7 |
| **Total** | | **2,170,882** | **55,940** | **9,772.9** |

**TABLE 45. Exports of Primary Iron and Steel, 1956**

| Commodity | Total tonnage |
|---|---|
| | Tons of 2,000 pounds |
| Pig iron | 257,627 |
| Ingots, blooms and billets | 49,556 |
| Bars | 13,760 |
| Rods | 2,133 |
| Plates, sheets and strips | 59,986 |

**TABLE 45. Exports of Primary Iron and Steel, 1956 – Concluded**

| Commodity | Total tonnage |
|---|---|
| | Tons of 2,000 pounds |
| Rails | 74,874 |
| Structural shapes | 7,456 |
| Pipe and tubing: | |
| Wrought iron | 1,831 |
| Cast iron | 195 |
| Galvanized | 1,236 |
| Other | 3,260 |
| Castings, iron and steel | 15,127 |
| Forgings | 3,277 |
| **Total** | **490,318** |

**TABLE 46. Principal Statistics of the Primary Iron and Steel Industry, Grouped According to Size of Establishment, 1955 and 1956**

| Establishments reporting a value of factory shipments | Establishments | Employees | Salaries and wages | Cost of fuel and electricity | Cost at plant of materials used | Selling value of factory shipments |
|---|---|---|---|---|---|---|
| | No. | No. | $ | $ | $ | $ |
| 1955 | | | | | | |
| Under $10,000 | 1 | 50 | 179,040 | 18,732 | 143,906 | 373,688 |
| $50,000 to $99,999 | 1 | | | | | |
| $100,000 to $199,999 | 2 | | | | | |
| $200,000 to $499,999 | 10 | 408 | 1,455,714 | 191,940 | 864,320 | 3,111,361 |
| $500,000 to $999,999 | 7 | 1,548 | 6,463,817 | 635,017 | 1,489,873 | 4,683,619 |
| $1,000,000 to $4,999,999 | 16 | 2,233 | 8,158,715 | 1,666,094 | 14,131,250 | 34,201,904 |
| $5,000,000 and over | 13 | 28,252 | 120,523,368 | 28,670,797 | 195,658,917 | 483,947,881 |
| Head offices | – | 16 | 98,749 | – | – | – |
| **Totals** | **50** | **32,507** | **136,879,403** | **31,182,580** | **212,288,266** | **526,318,453** |
| 1956 | | | | | | |
| Under $10,000 | 1 | 50 | 177,397 | 19,130 | 193,345 | 475,430 |
| $100,000 to $199,999 | 3 | | | | | |
| $200,000 to $499,999 | 7 | 296 | 1,078,949 | 90,794 | 941,741 | 2,604,316 |
| $500,000 to $999,999 | 5 | 395 | 1,509,672 | 165,505 | 939,817 | 3,312,382 |
| $1,000,000 to $4,999,999 | 20 | 3,178 | 12,096,254 | 2,430,733 | 24,435,245 | 46,010,614 |
| $5,000,000 and over | 14 | 32,108 | 147,919,846 | 35,605,789 | 274,788,434 | 628,457,728 |
| Head offices | – | 16 | 98,749 | – | – | – |
| **Totals** | **50** | **36,043** | **162,880,867** | **38,311,951** | **301,298,582** | **680,860,470** |

**TABLE 47. Employees and Earnings in the Primary Iron and Steel Industry, by Provinces, 1955 and 1956**

| Province | Number of employees | | | | | Earnings | | |
|---|---|---|---|---|---|---|---|---|
| | Supervisory and office | | Production workers | | Total | Supervisory and office | Production workers | Total |
| | Male | Female | Male | Female | | | | |
| | | | | | | $ | $ | $ |
| 1955 | | | | | | | | |
| Nova Scotia | 380 | 52 | 3,657 | – | 4,089 | 2,014,252 | 12,527,948 | 14,542,200 |
| Quebec | 518 | 102 | 3,068 | 1 | 3,689 | 2,786,989 | 11,581,968 | 14,368,957 |
| Ontario | 2,668 | 800 | 19,713 | 188 | 23,369 | 17,647,868 | 85,259,225 | 102,907,093 |
| Manitoba | 69 | 14 | 714 | – | 797 | 363,816 | 2,666,938 | 3,030,754 |
| Alberta / British Columbia | 68 | 11 | 484 | – | 563 | 295,993 | 1,734,406 | 2,030,399 |
| **Canada** | **3,703** | **979** | **27,636** | **189** | **32,507** | **23,108,918** | **113,770,485** | **136,879,403** |

**TABLE 47. Employees and Earnings in the Primary Iron and Steel Industry, by Provinces, 1955 and 1956**

| Province | Number of employees | | | | | Earnings | | |
|---|---|---|---|---|---|---|---|---|
| | Supervisory and office | | Production workers | | Total | Supervisory and office | Production workers | Total |
| | Male | Female | Male | Female | | | | |
| | | | | | | $ | $ | $ |
| 1956 | | | | | | | | |
| Nova Scotia | 388 | 45 | 3,933 | – | 4,366 | 2,233,449 | 14,473,542 | 16,706,991 |
| Quebec | 554 | 111 | 3,607 | 1 | 4,273 | 3,087,049 | 13,851,119 | 16,938,168 |
| Ontario | 2,790 | 912 | 21,752 | 200 | 25,654 | 20,516,335 | 101,635,395 | 122,151,730 |
| Manitoba, Alberta, British Columbia | 149 | 22 | 1,579 | – | 1,750 | 866,206 | 6,217,772 | 7,083,978 |
| **Canada** | **3,881** | **1,090** | **30,871** | **201** | **36,043** | **26,703,039** | **136,177,828** | **162,880,867** |

**TABLE 48. Production Workers, by Months, 1955 and 1956**

| Month | 1955 | | | 1956 | | |
|---|---|---|---|---|---|---|
| | Male | Female | Total | Male | Female | Total |
| | Number | | | | | |
| January | 23,064 | 175 | 23,239 | 28,518 | 183 | 28,701 |
| February | 24,493 | 168 | 24,661 | 29,140 | 185 | 29,325 |
| March | 25,382 | 173 | 25,555 | 29,513 | 190 | 29,703 |
| April | 26,861 | 182 | 27,043 | 30,194 | 197 | 30,391 |
| May | 27,926 | 189 | 28,115 | 31,046 | 204 | 31,250 |
| June | 28,628 | 200 | 28,828 | 31,706 | 211 | 31,917 |
| July | 28,818 | 207 | 29,025 | 31,993 | 215 | 32,208 |
| August | 29,118 | 207 | 29,325 | 32,094 | 216 | 32,310 |
| September | 29,198 | 200 | 29,398 | 31,768 | 208 | 31,976 |
| October | 29,464 | 195 | 29,659 | 31,640 | 203 | 31,843 |
| November | 29,463 | 189 | 29,652 | 31,647 | 197 | 31,844 |
| December | 29,282 | 189 | 29,471 | 31,187 | 199 | 31,386 |
| **Average** | **27,636** | **189** | **27,825** | **30,871** | **201** | **31,072** |

**TABLE 49. Capital and Repair Expenditures in the Primary Iron and Steel Industry, 1952-1956**

| Year | Capital expenditures | | Sub-total | Repair and maintenance expenditures | | Sub-total | Total capital and repair expenditures |
|---|---|---|---|---|---|---|---|
| | Construction | Machinery and equipment | | Construction | Machinery and equipment | | |
| | Thousands of dollars | | | | | | |
| 1952 | 20,517 | 52,381 | 72,898 | 6,308 | 31,428 | 37,736 | 110,634 |
| 1953 | 11,914 | 38,011 | 49,925 | 7,156 | 38,563 | 45,719 | 95,644 |
| 1954 | 6,239 | 27,300 | 33,539 | 5,167 | 31,566 | 36,733 | 70,272 |
| 1955 | 6,615 | 27,930 | 34,545 | 5,170 | 42,966 | 48,136 | 82,681 |
| 1956[1] | 14,360 | 52,336 | 66,696 | 6,516 | 47,590 | 54,106 | 120,802 |

1. Preliminary.

**TABLE 50. Fuel and Electricity Used[1] in the Primary Iron and Steel Industry, 1956**

| Kind | | Quantity | Cost at works |
|---|---|---|---|
| | | | $ |
| Bituminous coal: | | | |
| Canadian | ton | 88,442 | 782,740 |
| Imported | ton | 67,473 | 639,846 |
| Anthracite coal | ton | 16,149 | 205,835 |
| Lignite coal | ton | 710 | 4,402 |
| Coke | ton | 62,129 | 295,623 |
| Gasoline | Imp. gal. | 694,011 | 198,644 |
| Kerosene | Imp. gal. | 23,266 | 7,426 |
| Fuel oil | Imp. gal. | 128,730,476 | 13,821,339 |
| Wood | cord | 144 | 1,806 |
| Gas: | | | |
| Liquefied petroleum gases | Imp. gal. | 24,604 | 5,806 |
| Other manufactured gas[1] | M cu.ft. | 31,762,387 | 8,793,162 |
| Natural | M cu.ft. | 400,416 | 196,051 |
| Other fuel | — | — | 5,437 |
| Electricity purchased | k.w.h. | 2,482,938,323 | 13,303,834 |
| **Total** | — | — | **38,311,951** |
| Electricity generated for own use | k.w.h. | 61,490,000 | — |

1. Does not include blast furnace gas made for own use.

**Directory of Firms in the Primary Iron and Steel Industry, 1956**

| Name of firm | Location of plant |
|---|---|
| **(a) Pig Iron:** | |
| Dominion Iron & Steel, Limited | Sydney, Nova Scotia |
| Algoma Steel Corporation, Limited | Sault Ste. Marie, Ontario |
| Canadian Furnace Co. Limited | Port Colborne, Ontario |
| Dominion Foundries & Steel, Limited | Depew St., Hamilton, Ontario |
| Steel Company of Canada, Limited | Hamilton, Ontario |
| **(b) Ferro-alloys[1]:** | |
| Chromium Mining & Smelting Corporation, Limited | Sault Ste. Marie, Ontario |
| Electro Metallurgical Company, Division of Union Carbide Canada Ltd. | Welland, Ontario; Beauharnois, Quebec |
| Electro-Reagents (Quebec) Limited | Beauharnois, Quebec |
| **(c) Steel Ingots and Steel Castings:** | |
| Maritime Steel Foundries, Limited | 379 Glasgow St., New Glasgow, Nova Scotia |
| Dominion Iron & Steel, Limited | Sydney, Nova Scotia |
| Canadian Unitcast-Steel, Ltd. | 101 Belvedere St., Sherbrooke, Quebec |
| Canadian Steel Foundries (1956) Limited | Longue Pointe, Montreal, Quebec |
| Canadian Tube & Steel Products, Limited | 5900 St. Patrick St., Montreal, Quebec |
| Dominion Brake Shoe Company, Limited | Laval St., Joliette, Quebec |
| Dominion Engineering Works Limited | Lachine, Quebec |
| Eastern Electro-Castings Co. Ltd. | Lachine, Quebec |
| La Compagnie F.X. Drolet | 206, rue du Pont, Québec, Québec |
| Lynn MacLeod Metallurgy Limited | Notre Dame St., Thetford Mines, Quebec |
| Manganese Steel Castings, Limited | Abenaquis St., Sherbrooke, Quebec |

**Directory of Firms in the Primary Iron and Steel Industry, 1956** — Concluded

| Name of firm | Location of plant |
|---|---|
| **(c) Steel Ingots and Steel Castings** — concluded: | |
| Shawinigan Chemicals, Limited (Stainless Steel Division) | Shawinigan Falls, Quebec |
| Sorel Industries Ltd. | Sorel, Quebec |
| Sorel Steel Foundries, Limited | 7 Limoges St., Sorel, Quebec |
| Algoma Steel Corporation, Limited | Sault Ste. Marie, Ontario |
| Atlas Steels, Limited | East Main St., Welland, Ontario |
| Burlington Steel Company, Limited | Sherman Avenue North, Hamilton, Ontario |
| Canada Electric Castings, Limited | West St., Orillia, Ontario |
| Dominion Foundries & Steel, Limited | Depew St., Hamilton, Ontario |
| Fahralloy, Canada Limited | Barrie Road, Orillia, Ontario |
| Ford Motor Company of Canada, Limited | Windsor, Ontario |
| Indiana Steel Products Co. of Canada, Ltd., The | Kitchener, Ontario |
| Kennedy & Sons, Limited, The Wm. | Second Avenue West, Owen Sound, Ontario |
| Steel Company of Canada, Limited | Wilcox St., Hamilton, Ontario |
| Welland Electric Steel Foundry Limited | 123 Victoria St., Welland, Ontario |
| Manitoba Rolling Mill Company, Limited | Selkirk, Manitoba |
| Manitoba Foundries and Steel, Limited | Winnipeg, Manitoba |
| Foothills Steel Foundry & Iron Works | 1439-17th Ave. East, Calgary, Alberta |
| Premier Steel Mills Ltd. | Edmonton, Alberta |
| Riverside Iron & Engineering Works, Limited | 803-24th Ave. S.E., Calgary, Alberta |
| Britannia Mining and Smelting Company, Limited | Britannia Beach, British Columbia |
| Canadian Sumner Iron Works, Limited | East Broadway, Vancouver, British Columbia |
| Consolidated Mining & Smelting Company of Canada, Limited | Tadanac, British Columbia |
| Reliance Foundry Company, Limited | 149 Fourth Avenue West, Vancouver, British Columbia |
| Vancouver Iron Works, Limited | 519 Sixth Avenue West, Vancouver, British Columbia |
| A-1 Steel & Iron Foundry Ltd. | 29 West 3rd Ave., Vancouver, British Columbia |
| Victoria Machinery Depot Co. Ltd. | 33 Dallas Road, Victoria, British Columbia |
| Vancouver Steel Co. Ltd. | Granville Island, Vancouver, British Columbia |
| **(d) Hot-rolled Iron and Steel:** | |
| Enamel & Heating Products Ltd. | Amherst, Nova Scotia |
| Dominion Iron & Steel, Limited | Sydney, Nova Scotia |
| Canadian Tube & Steel Products, Limited | 5900 St. Patrick St., Montreal, Quebec |
| Steel Company of Canada, Limited | 2320 Notre Dame St. W., Montreal, Quebec |
| Algoma Steel Corporation, Limited | Sault Ste. Marie, Ontario |
| Atlas Steels, Limited | Welland, Ontario |
| Burlington Steel Company, Limited | Sherman Ave. North, Hamilton, Ontario |
| Dominion Foundries & Steel, Limited | Depew Street, Hamilton, Ontario |
| Steel Company of Canada, Limited | Wilcox Street, Hamilton, Ontario |
| Vanadium Alloys Steel Canada Limited | London, Ontario |
| Manitoba Rolling Mill Company, Limited | Selkirk, Manitoba |
| Premier Steel Mills Ltd. | Edmonton, Alberta |
| Vancouver Rolling Mills Ltd. | Vancouver, British Columbia |
| **(e) Cold-rolled Steel:** | |
| Stanley Steel Company, Limited | 57 Gerrard St., Hamilton, Ontario |
| **(f) Cold-drawn Steel:** | |
| Canadian Drawn Steel Company, Limited | Gerrard St., Hamilton, Ontario |
| Union Drawn Steel Company, Limited | Burlington St. E., Hamilton, Ontario |

1. Not including the firms which made ferro-alloys as a secondary product.

THE PRIMARY IRON AND STEEL INDUS