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THE IRON CASTINGS INDUSTRY

1956

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

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

6512 500-126

Price 25 cents

Vol. 2—Part XII—I-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 IRON CASTINGS INDUSTRY

1956

This industry covers the operations of iron and steel works which were occupied chiefly in making commercial iron castings or iron and steel pipe and tubing. Some machinery, boilers, engines, stoves and furnaces, etc., were made as secondary or minor products.

Some iron foundries have not been included in the Iron Castings Industry but have been classified to other special groups. For example, some makers of agricultural implements operated iron foundries to make castings for their own use and these concerns have, of course, been included in the Agricultural Implements Industry which is reviewed in a separate bulletin. Similarly, some stove manufacturers operated iron foundries but they have been classified to the Heating and Cooking Apparatus Industry which is covered in a separate report.

In 1956 there were 199 establishments in the Iron Castings Industry, distributed by provinces as follows: Ontario, 92; Quebec, 53; British Columbia, 21; Alberta, 10; 6 in each of Manitoba and Saskatchewan; 5 in Nova Scotia, 4 in New Brunswick; 1 in Newfoundland and 1 in Prince Edward Island.

Factory shipments from these works were valued at \$244,028,587 and they employed 17,361 persons, paid out \$66,815,656 for salaries and wages, \$4,184,022 for fuel and electricity and \$123,391,722 for manufacturing materials.

Tables 1 to 4 and 9 to 14 of this report are for the Iron Castings Industry only. Tables 5 to 8 give the total output in Canada, from all industries, of iron and steel pipe and tubing, miscellaneous iron castings, hydrants and valves.

**TABLE 1. Principal Statistics of the Iron Castings Industry¹, 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 ² | Gross selling value of products ² |
|----------------------------|----------------|-----------|--------------------|---------------------------------------|----------------------------|---|--|
| | No. | No. | \$ | \$ | \$ | \$ | \$ |
| 1929 | 336 | 23,443 | 30,854,654 | 2,581,003 | 35,994,441 | 52,999,702 | 91,575,146 |
| 1933 | 327 | 11,111 | 9,816,895 | 1,130,725 | 8,053,094 | 15,013,528 | 24,197,347 |
| 1937 | 231 | 12,164 | 14,333,923 | 1,505,625 | 17,091,230 | 23,316,898 | 41,913,753 |
| 1939 | 194 | 9,635 | 11,190,871 | 1,115,615 | 12,273,647 | 18,956,569 | 32,345,831 |
| 1942 | 201 | 16,867 | 28,671,888 | 2,289,356 | 30,330,276 | 48,721,977 | 81,341,609 |
| 1946 | 219 | 16,925 | 31,381,935 | 2,346,480 | 27,546,850 | 52,384,740 | 82,278,070 |
| 1949 | 231 | 18,339 | 46,165,355 | 3,117,227 | 55,315,454 | 74,880,824 | 133,313,505 |
| 1952 | 203 | 15,937 | 51,142,241 | 3,325,867 | 78,461,149 | 89,181,703 | 170,968,719 |
| 1953 | 201 | 15,346 | 52,985,576 | 3,280,528 | 69,150,209 | 85,034,389 | 157,465,126 |
| 1954 | 202 | 13,748 | 47,535,297 | 2,826,611 | 61,661,101 | 76,670,172 | 139,904,793 |
| 1955 | | | | | | | |
| Newfoundland | 1 | 114 | 337,040 | 13,409 | 259,278 | 402,735 | 655,436 |
| Prince Edward Island | 1 | | | | | | |
| Nova Scotia | 5 | | | | | | |
| New Brunswick | 4 | 90 | 223,186 | 14,034 | 140,373 | 507,812 | 668,925 |
| Quebec | 55 | 3,664 | 12,647,079 | 741,773 | 19,723,391 | 19,468,755 | 39,468,883 |
| Ontario | 92 | 9,831 | 36,747,202 | 2,102,432 | 59,724,787 | 68,937,322 | 129,285,300 |
| Manitoba | 6 | 415 | 1,436,523 | 73,130 | 1,141,964 | 2,598,999 | 3,758,808 |
| Saskatchewan | 6 | 97 | 360,590 | 17,812 | 255,190 | 447,827 | 714,799 |
| Alberta | 11 | 386 | 1,243,392 | 42,526 | 1,372,372 | 2,160,398 | 3,535,117 |
| British Columbia | 20 | 669 | 2,278,986 | 104,337 | 1,834,686 | 3,071,253 | 4,819,266 |
| Canada | 201 | 15,266 | 55,273,998 | 3,109,453 | 84,452,041 | 97,593,101 | 182,906,534 |

See footnotes at end of table.

IRON AND STEEL PRODUCTS

TABLE 1, Principal Statistics of the Iron Castings Industry¹, Significant Years, 1929-1956,
and by Provinces, 1955 and 1956 — Concluded

| Year and province | Establishments | Employees | Salaries and wages | Cost of fuel and electricity at plant | Cost of materials at plant | Value added by manufacture ² | Gross selling value of products ² |
|----------------------------|----------------|---------------|--------------------|---------------------------------------|----------------------------|---|--|
| | No. | No. | \$ | \$ | \$ | \$ | \$ |
| 1956 | | | | | | | |
| Newfoundland | 1 | | | | | | |
| Prince Edward Island | 1 | 120 | 346,963 | 18,275 | 383,372 | 599,393 | 960,436 |
| Nova Scotia | 5 | | | | | | |
| New Brunswick | 4 | 88 | 240,971 | 13,821 | 153,371 | 459,707 | 625,831 |
| Quebec | 53 | 4,153 | 14,733,941 | 916,924 | 23,337,525 | 25,188,283 | 47,384,025 |
| Ontario | 92 | 11,238 | 44,811,331 | 2,939,281 | 90,009,054 | 85,264,991 | 175,425,420 |
| Manitoba | 6 | 441 | 1,561,390 | 50,063 | 1,303,771 | 2,572,975 | 3,898,784 |
| Saskatchewan | 6 | 109 | 401,520 | 21,016 | 305,837 | 499,542 | 843,518 |
| Alberta | 10 | 423 | 1,491,943 | 49,079 | 1,769,304 | 2,912,334 | 4,500,781 |
| British Columbia | 21 | 789 | 3,227,597 | 175,563 | 6,129,488 | 5,235,005 | 10,389,792 |
| Canada | 199 | 17,361 | 66,815,656 | 4,184,022 | 123,391,722 | 122,732,230 | 244,028,587 |

1. Included Heating and Cooking Apparatus prior to 1935.

2. Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of shipments. In 1954 and 1955 the "Value Added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value Added" figure was further adjusted to take into account the "Goods in Process" as well as the finished goods held at plant or plant warehouse.

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Inventories¹, 1956

| | Raw materials and supplies | Goods in process | Finished goods of own manufacture | Total |
|--|----------------------------|-------------------|-----------------------------------|-------------------|
| | \$ | \$ | \$ | \$ |
| Opening: | | | | |
| Newfoundland, Prince Edward Island and Nova Scotia | 107,410 | 13,113 | 30,533 | 151,056 |
| New Brunswick | 54,978 | 5,000 | 6,027 | 66,005 |
| Quebec | 4,571,269 | 3,939,872 | 4,268,234 | 12,779,375 |
| Ontario | 9,415,651 | 4,608,069 | 10,256,228 | 24,279,948 |
| Manitoba | 159,303 | 7,637 | 329,991 | 496,931 |
| Saskatchewan | 73,854 | 9,831 | 53,066 | 136,751 |
| Alberta | 318,706 | 212,271 | 189,018 | 719,995 |
| British Columbia | 505,549 | 217,919 | 317,630 | 1,041,098 |
| Canada | 15,206,720 | 9,013,712 | 15,450,727 | 39,671,159 |
| Closing: | | | | |
| Newfoundland, Prince Edward Island and Nova Scotia | 63,990 | 3,750 | 80,500 | 148,240 |
| New Brunswick | 62,749 | 7,616 | 4,479 | 74,844 |
| Quebec | 5,199,921 | 4,125,140 | 6,141,673 | 15,466,734 |
| Ontario | 16,135,263 | 6,719,374 | 10,932,829 | 33,787,466 |
| Manitoba | 216,889 | 8,966 | 356,687 | 582,542 |
| Saskatchewan | 71,349 | 11,422 | 34,352 | 117,123 |
| Alberta | 269,125 | 378,450 | 252,775 | 900,350 |
| British Columbia | 863,620 | 339,484 | 1,346,329 | 2,549,433 |
| Canada | 22,882,906 | 11,594,202 | 19,149,624 | 53,626,732 |

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

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Iron Castings Industry for the year under review are shown in the above table.

(c) The opening inventory for 1956 does not necessarily agree with the closing inventory for 1955 because of the addition of new plants, the transfer of plants to other industries, and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Factory Shipments by Firms in the Iron Castings Industry, 1955 and 1956

| Product | 1955 | | 1956 | |
|--|---------------------|-----------------------|---------------------|-----------------------|
| | Quantity shipped | Value of shipments | Quantity shipped | Value of shipments |
| | | | tons | \$ |
| Commercial castings: | | | | |
| Aluminum | 316 | 491,035 | 330 | 571,842 |
| Grey iron | 127,339 | 28,232,793 | 155,122 | 37,204,566 |
| Malleable iron | 25,110 | 8,331,978 | 27,603 | 10,030,895 |
| Brass and bronze | 426 | 542,402 | 510 | 773,596 |
| Pipe, tubing and fittings, iron and steel | 550,776 | 99,571,119 | 659,457 | 134,597,776 |
| Pipe fittings (except iron and steel) and other plumbers' goods (other than valves) | — | 4,005,411 | — | 3,217,482 |
| Heating and cooking apparatus (stoves, furnaces, etc.) | — | 2,053,517 | — | 3,140,008 |
| Machinery and parts | — | 2,439,778 | — | 4,153,472 |
| Valves (iron, steel, brass and bronze), including radiator valves and traps | — | 6,707,571 | — | 10,893,223 |
| All other products | — | 29,579,202 | — | 38,506,545 |
| Receipts from custom work and repairs | — | 951,728 | — | 939,182 |
| Total | — | 182,906,534 | — | 244,028,587 |

Note: Data given in this table cover only the output of firms which were engaged chiefly in making commercial iron castings, iron and steel pipe and fittings, and which have been classified to the Iron Castings Industry. Figures for the individual items do not represent the total output for Canada as in each case there was also a production in other industrial groups. Supplementary tables have been added to show total production in Canada of iron castings, iron and steel pipe and tubing, hydrants and valves.

TABLE 4. Materials Used in the Iron Castings Industry, 1955 and 1956

| Material | 1955 | | 1956 | |
|--|----------|------------------|------------|------------------|
| | Quantity | Cost at works | Quantity | Cost at works |
| Castings (rough and semi-finished received from foundry): | | \$ | | \$ |
| Iron (gray and malleable) | ton | 1 | 1 | 3,419 |
| Steel | " | 1 | 1 | 2,680 |
| Pig iron, all grades | " | 216,433 | 11,973,180 | 246,079 |
| Steel (except alloy steel): | | | | |
| Billets and bars | " | 24,505 | 2,468,274 | 47,740 |
| Plates (3/16 in. and thicker) | " | 1,707 | 260,065 | 2,102 |
| Sheets (under 3/16 in.): | | | | |
| Plain (other than for pipes and tubes) | " | 2,756 | 359,986 | 2,346 |
| Galvanized | " | 311 | 62,184 | 190 |
| Tinplate | " | 2 | 650 | 3 |
| Sheet and strip, hot or cold rolled for pipes and tubes | " | 338,895 | 34,194,437 | 463,549 |
| Strip (other than for pipes and tubes) | " | 1 | 1 | 275 |
| Structural shapes, unfabricated (channels, angles, etc.) | " | 2,256 | 376,039 | 2,262 |
| Wire | " | 3,541 | 397,802 | 4,693 |
| Alloy steel in all forms: | | | | |
| Alloy steel (other than stainless and tool steel) | | — | 508,337 | — |
| Stainless | — | — | 127,248 | — |
| Tool steel | — | — | 139,988 | — |
| Scrap iron and steel: | | | | |
| Purchased | | 292,602 | 10,723,377 | 318,664 |
| Own make | ton | 17,987 | 712,949 | 22,271 |
| Pipe and fittings, iron and steel | " | — | 1,958,849 | — |
| Other iron and steel | — | — | 2,190,536 | — |
| Ferro-alloys | — | — | 1,201,260 | — |
| Non-ferrous metals in all forms: | | | | |
| Aluminum: | | | | |
| Castings | pound | 7,974 | 6,591 | 74,809 |
| Sheet | " | 54,341 | 22,071 | 46,952 |
| Other forms | " | 810,681 | 228,208 | 1,083,399 |
| Brass and bronze | " | 6,582,943 | 2,398,831 | 6,370,227 |
| Copper: | | | | |
| Sheet | " | 1,040 | 721 | 1,524 |
| Wire | " | — | — | 3,505 |
| Other forms | " | 257,226 | 82,926 | 246,375 |
| | | | | 97,828 |

TABLE 4. Materials Used in the Iron Castings Industry, 1955 and 1956 — Concluded

| Material | | 1955 | | 1956 | |
|---|--------------|-----------|----------------------|-----------|--------------------|
| | | Quantity | Cost at works | Quantity | Cost at works |
| Lead | pound | 66,727 | \$ 10,035 | 87,070 | \$ 13,821 |
| Nickel | " | 521,028 | 333,504 | 854,819 | 557,843 |
| Tin | " | 9,095 | 9,092 | 8,749 | 9,447 |
| Zinc | " | 8,687,109 | 1,056,177 | 8,648,525 | 1,201,541 |
| Babbitt metal and solders | " | 21,687 | 13,760 | 39,104 | 22,806 |
| Other non-ferrous metals | — | — | 32,600 | — | 58,278 |
| Other materials and supplies: | | | | | |
| Paints and varnishes | ton | — | 120,314 | — | 160,907 |
| Foundry coke (used in cupola) | ton | 86,287 | 2,451,704 | 97,562 | 2,993,105 |
| Foundry sands (including core and moulding sands) | " | 125,681 | 810,842 | 161,998 | 1,046,391 |
| Plumbago and graphite | pound | 803,313 | 63,052 | 1,014,378 | 88,806 |
| Lumber | M. ft. b. m. | 1,809 | 206,187 | 2,712 | 293,515 |
| Firebrick and cupola blocks | — | — | 395,383 | — | 413,095 |
| Fireclay | ton | 4,819 | 97,701 | 5,919 | 119,888 |
| Core oil | Imp. gal. | 201,202 | 218,156 | 253,855 | 303,359 |
| Sulphuric acid, 100% | pound | 2,728,528 | 47,294 | 3,201,228 | 51,154 |
| Shipping containers | — | — | 478,009 | — | 699,725 |
| All other material | — | — | 7,713,722 | — | 16,659,312 |
| Total | — | — | \$ 84,452,041 | — | 123,391,722 |

1. Not available separately.

TABLE 5. Factory Sales of Iron and Steel Pipe and Tubing, 1955 and 1956 (From all Industries)

| | | 1955 | 1956 |
|---|-----|--------------------|--------------------|
| Cast iron soil pipe and fittings | ton | 69,800 | 72,600 |
| Cast iron water pipe and fittings | \$ | 13,537,000 | 14,267,000 |
| Cast iron pipe fittings, all other, including flanges and flange fittings | ton | 136,900 | 134,200 |
| Cast iron pipe fittings, all other, including flanges and flange fittings | ton | 16,396,000 | 17,890,000 |
| Malleable iron pipe fittings of all kinds, including railing fittings | ton | 11,200 | 10,300 |
| Malleable iron pipe fittings of all kinds, including railing fittings | \$ | 4,439,000 | 4,619,000 |
| Steel pipe and tubing | ton | 7,400 | 8,300 |
| Steel pipe and tubing | \$ | 5,353,000 | 6,497,000 |
| Steel pipe fittings, all kinds | ton | 331,300 | 434,800 |
| Steel pipe fittings, all kinds | \$ | 57,573,000 | 85,570,000 |
| Steel pipe, riveted or welded: | | | |
| Stainless steel | ton | 10,500 | 16,000 |
| Stainless steel | \$ | 5,344,000 | 10,149,000 |
| Other steel | ton | Not Available | 900 |
| Other steel | \$ | 2,476,000 | 8,800 |
| Culvert pipe formed from steel sheets | ton | 18,500 | 4,627,000 |
| Culvert pipe formed from steel sheets | \$ | 4,627,000 | 2,272,051 |
| Culvert pipe formed from steel sheets | ton | 46,600 | 57,800 |
| Culvert pipe formed from steel sheets | \$ | 14,526,000 | 19,188,000 |
| Total value | \$ | 121,795,000 | 162,928,000 |

APPENDIX

As mentioned in the opening paragraphs of this report, the Iron Castings Industry includes only the foundries which were engaged chiefly in making miscellaneous castings and forgings to their customers' orders, or in making such specific products as cast iron or malleable iron pipe and fittings. Some other concerns operated customs foundries as a secondary part of their business, and others maintained foundries to cast their own parts for agricultural implements, machinery, stoves, etc., which were the final products of their works. These

latter foundries have been classified to other industrial groups.

A special study of all reports submitted to the Bureau indicates that in 1956 there were about 400 operating foundries distributed across Canada. In 1956 these foundries used 385,000 net tons of pig iron, 690,000 net tons of scrap iron and 182,000 net tons of cupola coke. Production of iron castings totalled 938,000 tons.

TABLE 6. Total Production of Iron Castings and Materials Charged to Cupolas, 1954-1956

| | | 1954 | 1955 | 1956 |
|--|----------------|----------------------|----------------------|----------------------|
| Pig iron used | net ton | 267,000 | 345,000 | 385,000 |
| | \$ | 14,863,000 | 19,200,000 | 22,392,000 |
| Scrap iron and steel used..... | net ton | 529,000 | 627,000 | 690,000 |
| | \$ | 17,521,000 | 23,200,000 | 29,143,000 |
| Coke used in cupolas or melting furnaces | net ton | 147,000 | 163,000 | 182,000 |
| | \$ | 4,149,000 | 4,661,000 | 5,627,000 |
| Iron castings made (whether for sale or for own use): | | | | |
| Grey and white iron castings ¹ (except pipe and fittings) | net ton | 449,000 | 591,000 | 669,000 |
| Malleable iron (except fittings)..... | net ton | 27,000 | 33,000 | 44,000 |
| Cast iron pipe and fittings | net ton | 180,000 ² | 218,000 ² | 217,000 ² |
| Malleable iron pipe fittings | net ton | 7,000 ² | 7,000 ² | 8,000 ² |
| Total castings | net ton | 663,000 | 849,000 | 938,000 |

1. Compiled from data submitted by the 200 iron foundries which report monthly and which, it is estimated, account for about 95 per cent of the total production. These figures have been expanded to 100 per cent.

2. Factory shipments.

TABLE 7. Factory Shipments of Hydrants, 1953-1956 (From all Industries)

| Year | Number | Selling value of factory shipments |
|------------|--------|--|
| | | \$ |
| 1953 | 8,053 | 1,290,000 |
| 1954 | 10,497 | 1,597,000 |
| 1955 | 12,494 | 1,933,000 |
| 1956 | 11,863 | 2,051,000 |

TABLE 8. Factory Shipments of Values, 1956 (From all Industries)

| Kind | Selling value of factory shipments |
|---|--|
| | \$ |
| Iron body (gate, globe, check, etc.) | 10,894,000 |
| Steel, including alloy steel (gate, globe, check, etc.) | 4,734,000 |
| Brass or bronze (gate, globe, check, etc.) | 7,329,000 |
| Radiator valves (all types) | 654,000 |
| Corporation brass (main and curb stops, etc.) | 1,539,000 |
| Valves, other | 2,008,000 |

TABLE 9. Principal Statistics of the Iron Castings Industry in Canada, Classified According to Type of Ownership, 1955 and 1956

| Type | Establishments | Employees | Salaries and wages | Cost at plant of materials used | Selling value of factory shipments |
|------------------------------|----------------|---------------|--------------------|---------------------------------|------------------------------------|
| | No. | No. | \$ | \$ | \$ |
| 1955 | | | | | |
| Individual ownership | 43 | 350 | 804,818 | 643,769 | 1,852,664 |
| Partnerships | 22 | 288 | 903,834 | 635,245 | 2,011,769 |
| Incorporated companies | 136 | 14,628 | 53,565,346 | 83,173,027 | 179,042,101 |
| Total | 201 | 15,266 | 55,273,998 | 84,452,041 | 182,906,534 |
| 1956 | | | | | |
| Individual ownership | 38 | 281 | 685,357 | 600,569 | 1,649,792 |
| Partnerships | 15 | 175 | 566,740 | 333,951 | 1,041,774 |
| Incorporated companies | 146 | 16,905 | 65,563,559 | 122,457,202 | 241,337,021 |
| Total | 199 | 17,361 | 66,815,656 | 123,391,722 | 244,028,587 |

TABLE 10. Principal Statistics of the Iron Castings Industry in Canada, Grouped According to Selling Value of Factory Shipments, 1955 and 1956

| Establishments reporting factory shipments | Establishments | Employees | Salaries and wages | Cost at plant of materials used | Selling value of factory shipments |
|--|----------------|---------------|--------------------|---------------------------------|------------------------------------|
| | No. | No. | \$ | \$ | \$ |
| 1955 | | | | | |
| Under \$10,000 | 16 | 30 | 43,140 | 24,520 | 97,040 |
| \$10,000 to \$24,999 | 21 | 77 | 156,691 | 92,955 | 334,643 |
| \$25,000 to \$49,999 | 20 | 169 | 434,795 | 178,668 | 746,468 |
| \$50,000 to \$99,999 | 24 | 328 | 907,183 | 604,473 | 1,770,095 |
| \$100,000 to \$199,999 | 34 | 793 | 2,239,543 | 1,741,640 | 5,086,063 |
| \$200,000 to \$499,999 | 43 | 1,948 | 6,126,074 | 5,040,109 | 14,055,808 |
| \$500,000 to \$999,999 | 18 | 1,323 | 4,563,314 | 6,171,990 | 13,739,050 |
| \$1,000,000 to \$4,999,999 | 15 | 3,740 | 13,771,852 | 12,086,875 | 35,317,293 |
| \$5,000,000 and over | 10 | 6,851 | 26,998,893 | 58,510,811 | 111,760,074 |
| Head offices | — | 7 | 32,513 | — | — |
| Total | 201 | 15,266 | 55,273,998 | 84,452,041 | 182,906,534 |
| 1956 | | | | | |
| Under \$10,000 | 15 | 27 | 40,060 | 20,890 | 84,062 |
| \$10,000 to \$24,999 | 16 | 53 | 112,949 | 76,866 | 252,296 |
| \$25,000 to \$49,999 | 19 | 158 | 397,393 | 207,951 | 739,018 |
| \$50,000 to \$99,999 | 23 | 289 | 827,011 | 546,731 | 1,695,122 |
| \$100,000 to \$199,999 | 27 | 589 | 1,681,178 | 1,416,578 | 3,932,158 |
| \$200,000 to \$499,999 | 42 | 1,802 | 5,927,089 | 4,832,817 | 13,983,662 |
| \$500,000 to \$999,999 | 22 | 1,469 | 5,353,896 | 5,968,730 | 15,066,292 |
| \$1,000,000 to \$4,999,999 | 21 | 3,775 | 14,569,469 | 17,017,852 | 42,063,426 |
| \$5,000,000 and over | 14 | 9,068 | 37,028,808 | 93,303,307 | 166,212,551 |
| Head offices | — | 131 | 877,803 | — | — |
| Total | 199 | 17,361 | 66,815,656 | 123,391,722 | 244,028,587 |

TABLE 11. Employees and Their Earnings in the Iron Castings Industry, 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 | | | | | | \$ | \$ | \$ |
| Newfoundland | | | | | | | | |
| Prince Edward Island | 13 | 5 | 96 | — | 114 | 70,332 | 266,708 | 337,040 |
| Nova Scotia | | | | | | | | |
| New Brunswick | 12 | 4 | 71 | 3 | 90 | 60,035 | 163,151 | 223,186 |
| Quebec | 478 | 181 | 2,912 | 93 | 3,664 | 2,541,766 | 10,105,313 | 12,647,079 |
| Ontario | 1,112 | 449 | 8,114 | 156 | 9,831 | 6,943,169 | 29,804,033 | 36,747,202 |
| Manitoba | 54 | 11 | 350 | — | 415 | 264,104 | 1,172,419 | 1,436,523 |
| Saskatchewan | 21 | 4 | 72 | — | 97 | 146,545 | 214,045 | 360,590 |
| Alberta | 54 | 14 | 312 | 6 | 386 | 278,342 | 965,050 | 1,243,392 |
| British Columbia | 70 | 22 | 575 | 2 | 669 | 423,468 | 1,855,518 | 2,278,986 |
| Canada | 1,814 | 690 | 12,502 | 260 | 15,266 | 10,727,761 | 44,546,237 | 55,273,998 |
| 1956 | | | | | | | | |
| Newfoundland | | | | | | | | |
| Prince Edward Island | 14 | 6 | 100 | — | 120 | 74,934 | 272,029 | 346,963 |
| Nova Scotia | | | | | | | | |
| New Brunswick | 13 | 6 | 69 | — | 88 | 65,400 | 175,571 | 240,971 |
| Quebec | 532 | 209 | 3,315 | 97 | 4,153 | 3,051,697 | 11,682,244 | 14,733,941 |
| Ontario | 1,188 | 489 | 9,387 | 174 | 11,238 | 7,913,559 | 36,897,772 | 44,811,331 |
| Manitoba | 52 | 13 | 376 | — | 441 | 259,490 | 1,301,900 | 1,561,390 |
| Saskatchewan | 22 | 5 | 82 | — | 109 | 155,616 | 245,904 | 401,520 |
| Alberta | 62 | 13 | 345 | 3 | 423 | 344,245 | 1,147,698 | 1,491,943 |
| British Columbia | 80 | 31 | 676 | 2 | 789 | 563,611 | 2,663,986 | 3,227,597 |
| Canada | 1,963 | 772 | 14,350 | 276 | 17,361 | 12,428,552 | 54,387,104 | 66,815,656 |

TABLE 12. Production workers, by Months, 1955 and 1956

| Month | 1955 | | | 1956 | | |
|-----------------|--------|--------|--------|--------|--------|--------|
| | Male | Female | Total | Male | Female | Total |
| number | | | | | | |
| January | 10,968 | 230 | 11,198 | 14,423 | 282 | 14,705 |
| February | 11,246 | 235 | 11,481 | 14,643 | 286 | 14,929 |
| March | 11,546 | 214 | 11,760 | 14,705 | 275 | 14,980 |
| April | 11,496 | 235 | 11,731 | 14,729 | 286 | 15,015 |
| May | 11,850 | 240 | 12,090 | 14,666 | 289 | 14,955 |
| June | 12,141 | 245 | 12,386 | 14,529 | 277 | 14,806 |
| July | 12,718 | 229 | 12,947 | 14,319 | 270 | 14,589 |
| August | 12,684 | 256 | 12,940 | 13,303 | 258 | 13,561 |
| September | 13,570 | 278 | 13,848 | 14,345 | 272 | 14,617 |
| October | 13,852 | 279 | 14,131 | 14,391 | 271 | 14,662 |
| November | 13,974 | 285 | 14,259 | 14,468 | 276 | 14,744 |
| December | 13,765 | 291 | 14,056 | 13,722 | 274 | 13,996 |
| Average | 12,502 | 260 | 12,762 | 14,350 | 276 | 14,626 |

TABLE 13. Capital and Repair Expenditures in the Iron Castings 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 | | |
| \$'000 | | | | | | | |
| 1952 | 2,666 | 3,596 | 6,262 | 822 | 5,724 | 6,546 | 12,808 |
| 1953 | 1,406 | 5,522 | 6,928 | 701 | 5,313 | 6,014 | 12,942 |
| 1954 | 1,134 | 4,406 | 5,540 | 714 | 5,198 | 5,912 | 11,452 |
| 1955 | 1,590 | 5,236 | 6,826 | 720 | 5,525 | 6,245 | 13,071 |
| 1956 ¹ | 5,930 | 13,006 | 18,936 | 734 | 6,189 | 6,923 | 25,859 |

1. Preliminary.

TABLE 14. Fuel and Electricity Used¹ in the Iron Castings Industry, 1956

| Kind | Quantity | Cost at works |
|---|---------------|------------------|
| | | \$ |
| Bituminous coal: | | |
| (a) From Canadian mines | ton | 11,181 |
| (b) Imported..... | ton | 36,000 |
| Anthracite coal..... | ton | 2,473 |
| Lignite coal | ton | 12 |
| Coke..... | ton | 8,899 |
| Gasoline (including gasoline used in cars and trucks) | Imp. gal. | 476,392 |
| Kerosene | Imp. gal. | 51,065 |
| Fuel oil | Imp. gal. | 13,202,528 |
| Wood..... | cord | 1,254 |
| Gas: | | |
| (a) Liquefied petroleum gases | Imp. gal. | 112,357 |
| (b) Other manufactured gas | 1,000 cu. ft. | 35,317 |
| (c) Natural gas | 1,000 cu. ft. | 213,876 |
| Other fuel | — | — |
| Electricity purchased | k.w.h. | 127,768,325 |
| Total | — | 4,184,022 |

1. Last collected in this detail in 1953.

Directory of Firms Included in the Iron Castings Industry, 1956

Note: The following list includes only names of the concerns which have been classified to this particular industry. It is not intended to be a complete list of iron foundries in Canada.

| Name of firm | Location of plant |
|--|-------------------|
| Newfoundland: | |
| Corner Brook Foundry & Machine Co. Ltd. | Corner Brook |
| Prince Edward Island: | |
| Parker, H.W. | Georgetown |

Directory of Firms Included in the Iron Castings Industry, 1956 — Continued

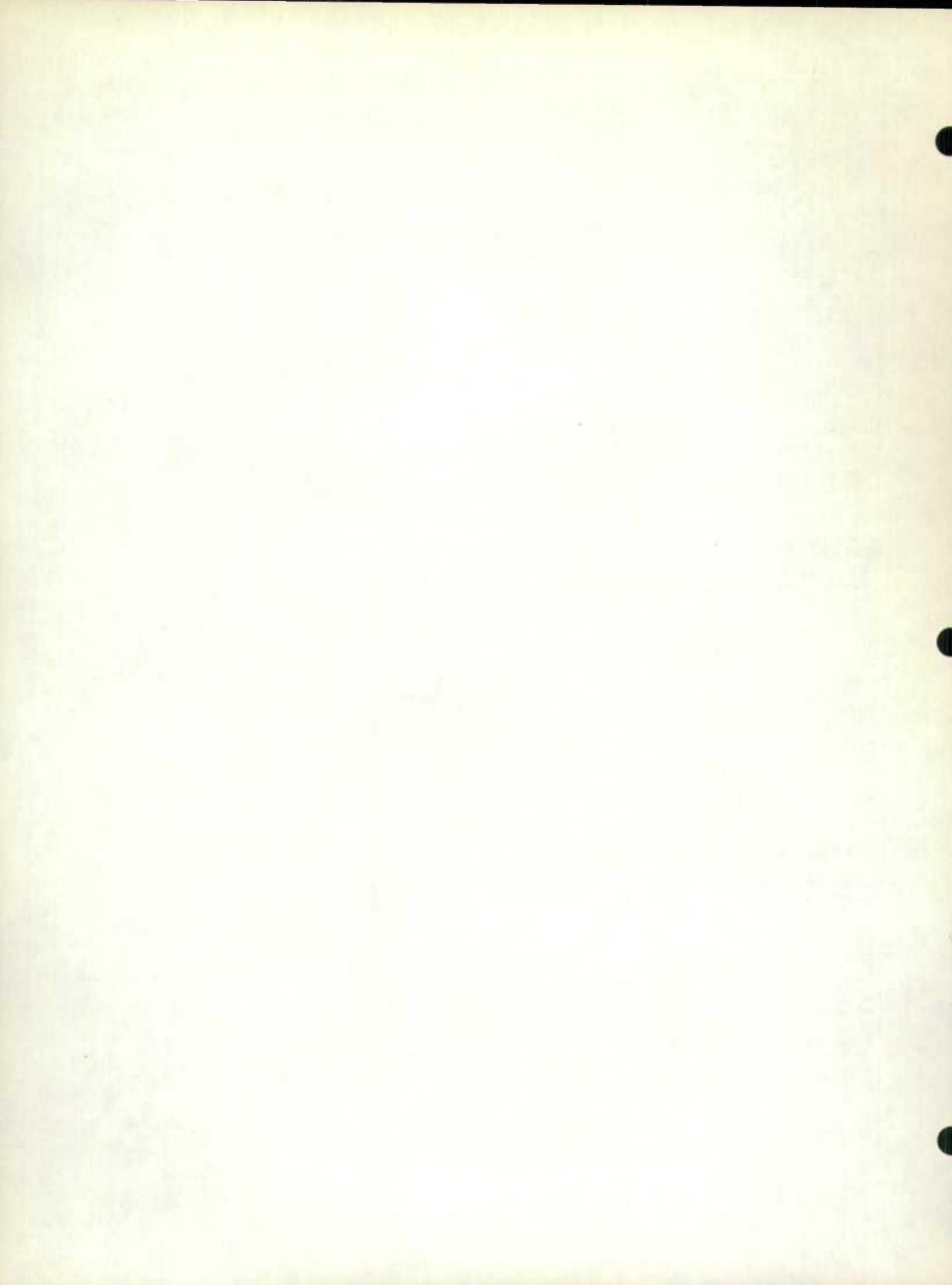
| Name of firm | Location of plant |
|---|---|
| Nova Scotia: | |
| Dartmouth Iron Foundry | 42 Maple St., Dartmouth |
| Hanright Foundry Co. | 10 Highfield St., Amherst |
| Hillis and Sons, Ltd. | 209 Hollis St., Halifax |
| Matheson, I., Co. Limited | North Provost St., New Glasgow |
| New Glasgow Foundry | New Glasgow |
| New Brunswick: | |
| Courtenay Iron and Brass Foundry | 169 Rothesay Ave., Saint John |
| Dunbar Engine and Foundry Co. | Box 63, Woodstock |
| McLennan Engineering Works Ltd. | Campbellton |
| Moncton Foundry & Machine Co. Limited | Beaverbrook St., Moncton |
| Quebec: | |
| Antoine Roman | 374 St-Jacques, St-Jean |
| Canada Iron Foundries, Limited | 227 St. Maurice St., Three Rivers |
| Canadian Tube and Steel Products, Limited | 5765 Hamilton St., Montreal |
| Centri Cast Foundry | 2430 Ville Marie St., Montreal |
| Crane, Limited | 3800 St. Patrick St., Cote St. Paul, Montreal |
| Fonderie Binette Inc. | Laurierville |
| Fonderie Laroche Enrg. | St-Jerome |
| Fonderie Napierville Enrg. | Napierville |
| Fonderie Rene Fortin | 110 Louis St., Hull |
| Fonderie Rivière Bleue Enrg. | Rivière Bleue, Temiscouata |
| Fonderie Savoie | Ste-Marie de Beauce |
| Fonderie St. Hyacinthe | Foundry St., St. Hyacinthe |
| Fortin Foundry | Waterloo |
| General Foundry Co. | Windsor Mills |
| Grand'Mere Foundry Ltd. | 800 C.N.R. Ave., Grand'Mere |
| Hudon & Frère Enrg. | 331 St. Louis St., La Tuque |
| La Compagnie Dussault et Lamoureux | 18, ave de L'Hotel Dieu, St-Hyacinthe |
| La Fonderie Beloeil, Ltée | Beloëil Station |
| La Fonderie Bourget, Enrg. | Windsor Mills East |
| La Fonderie Canadienne Enrg. | 374 St. Jacques St., St. Johns |
| La Fonderie Ste. Croix Ltée | Ste-Croix |
| La Fonderie de Lawzon Enrg. | Rue Carrier, Levis |
| La Fonderie de Robertsonville Ltée | Robertsonville |
| La Fonderie de Thetford Ltée | 219 Notre Dame St., Thetford Mines |
| La Fonderie Despres | Montmagny Station |
| La Fonderie Magog, Ltd. | Magog |
| La Fonderie Ouellet Enrg. | St-Léonard D'Aston |
| La Fonderie Paquette Enrg. | 30 St. Ignace St., Laprairie |
| La Fonderie St. Maurice Enrg. | Cap-de-la-Madeleine |
| La Fonderie St. Romuald, Enrg. | 58, rue Saxe, St-Romuald |
| La Fonderie de Sully | Sully |
| Laroche & Frères, Ltée | Pont Rouge |
| Lavoie, Euchariste, Fils Enrg. | Baie St-Paul |
| Lefebvre, Jean Charles, (Fonderie St-Placide) | St-Placide |
| Légaré Foundry Limited | 172 Short St., Sherbrooke |
| Les Industries Roy Ltée | Montmagny Station |
| Mace Foundry Co. | 1450 Gladstone Ave., Montreal |
| Marquette Foundry | 8000-14th Ave., Ville St. Michel |
| Maury, A., & Fils | 7544A St. Hubert St., Montreal |
| Montreal Foundry Limited | 1260 Condé St., Montreal |
| Monsarrat Machinery and Foundries Ltd. | Rivière-du-Loup |
| Paul Bros. Foundry, Limited | 23, rue Poupart, Laprairie |
| Pont Viau Foundry Ltd. | 60 St. Hubert St., Pont Viau |
| Rigaud Foundry | 2 St-Anselme, Rigaud |
| St. Jerome Industries Ltd. | St. Jerome |
| Shawinigan Foundries, Limited | Shawinigan Falls |
| Steel Company of Canada, Limited | 4110 St. Ambroise St., Montreal |
| Trottier Incorporée | Ste-Anne-de-la-Pérade |
| Union Foundry Limited | 431 St. Luke St., Granby |
| Viau, M.L., et Fils, Ltée | St. Joseph St., St. Jerome |
| Vulcan Foundry Inc. | 14, rue Napoleon, Victoriaville |
| Wabi Iron Works (Quebec) Ltd. | Noranda |
| Walford, H., Limited | 2320 Aird Ave., Montreal |
| Ontario: | |
| Alloy Foundry Co. Ltd. | Merrickville |
| Anthes — Imperial Co. Ltd. | Berryman Ave., St. Catharines |
| Armstrong Foundry & Machine Shop | Orangeville |

Directory of Firms Included in the Iron Castings Industry, 1956 — Continued

| Name of firm | Location of plant |
|--|--|
| Ontario — continued: | |
| Auto Specialties Mfg. Co. (Canada) Ltd. | 614 Tecumseh Rd. E., Windsor |
| Barco Mfg. Co. of Canada, Ltd. | 315 Devonshire Rd., Walkerville |
| Barton Tubes Limited | Burlington |
| Bell City Foundry | 411 West St., Brantford |
| Benn Iron Foundry | 314 Wallace St., Wallaceburg |
| Bibby Foundry Ltd. | Beverley St., Galt |
| Bock, A.E., Foundry Co. | 70 Water St. N., Galt |
| Bowmanville Foundry Company Limited | Scugog St., Bowmanville |
| Canada Iron Foundries Limited | Stuart St. W., Hamilton; Burlington St. & Kenilworth Ave., Hamilton; Stuart & Caroline Sts., Hamilton; Eastern Ave., Toronto |
| Canada Valve & Hydrant Co., Limited | 44 Holme St., Brantford |
| Canadian Coupling & Fittings Ltd. | Simcoe |
| Canadian General Electric Co. Ltd. | 940 Lansdowne Ave., Toronto |
| Central Foundry | Hespeler |
| Cobalt Foundry Limited | Ferland Ave., Cobalt |
| Cornwall Brass & Iron Foundry | 422 Sixth Ave. E., Cornwall |
| Crawford Fittings (Canada) Ltd. | 1238 St. Paul Ave., Niagara Falls |
| Crawford Machine & Foundry | 100 Wilson St., Woodstock |
| Crowe Foundry Limited | Sheffield St., Hespeler |
| Cunningham & Son Limited, J.F. | Berryman Ave., St. Catharines |
| Dairy — Brewery Equipment & Engineering | 37 Hanna Ave., Toronto |
| Dart Union Co. of Canada Ltd. | 11 Charlotte St., Toronto |
| Davidson Foundry | 16 Hamilton Ave., Ottawa |
| Domestic Foundry | 1595 Crawford Ave., Windsor |
| Eastern Ontario Foundry Co. Ltd. | Cameron St., Hawkesbury |
| Eureka Foundry & Manufacturing Co. Limited | Tecumseh St., Woodstock |
| Fairbank Foundry | 52 Clarkson Ave., Toronto |
| Fergusson, J. R., Company | Dundas |
| Fittings Limited | 135 Bruce St., Oshawa |
| Foley-Saco Foundry & Machine Co. Ltd. | 368 Front St., Belleville |
| Fortune Valve Co. Ltd. | 42 James St. N., Hamilton |
| Galt Malleable Iron Co. Limited | 60 Kerr St., Galt |
| General Casting Company | 315 Grey St., Brantford |
| Gies, Philip, Foundry Ltd. | 36 Water St. S., Kitchener |
| Grinnell Company of Canada, Limited | 2440 Dundas St. W., Toronto |
| Guelph Engineering Co. Limited | 490 York Rd., Guelph |
| Hamilton Foundry Co. Ltd. | 33 Clinton St., Hamilton |
| Hastings & Sons Foundry & Machine Shop | 10 Pine St., Stratford |
| Holmes Foundry Company Limited | Exmouth St., Sarnia |
| Hopper Foundry | Washington St., Forest |
| Imbleau, H., & Son | 11 Bridge St., Renfrew |
| International Malleable Iron Co. Ltd. | 200 Beverley St., Guelph |
| James Bros. Hardware Ltd. | Foster St., Perth |
| Keleher Foundry | Victoria Road, Guelph |
| Kent Foundry Ltd. | Richmond St., Chatham |
| Ladish Co. of Canada Ltd. | Brantford |
| Lawson, Thos., and Sons, Ltd. | Corner Broad & Fleet Sts., Ottawa |
| Lincoln Foundry Co. | 65 St. Paul Crescent, St. Catharines |
| Link-Belt Limited | Box 173, Station H, Toronto 13 |
| London Concrete Machinery Co. | 247 Colborne St. W., Brantford |
| Manning, Maxwell & Moore of Canada Ltd. | 200 Avenue Road, Galt |
| McCoy Foundry Co. | 67 Bay St. N., Hamilton |
| McCrae, J., Machine & Foundry Co. Ltd. | 81 William St. N., Lindsay |
| McIntyre & Taylor, Limited | 505 Queen St. W., Toronto |
| McLean Underfeed Stoker Co. Limited | West Hill, Toronto |
| Marshall, A., Foundry | 940 Assumption St., Windsor |
| Massey-Harris-Ferguson Co. Ltd. | Greenwich St., Brantford |
| Morash Foundry Ltd. | Morrisburg |
| Muskoka Foundry Limited | Shier St., Bracebridge |
| National Iron Division | 324 Cherry St., Toronto |
| Niagara Foundry Company | 747 Buttery Ave., Niagara Falls |
| Ontario Malleable Iron Co. Ltd. | 2440 Dundas St. W., Toronto |
| Owen Sound Industries | Bay Shore Rd., Owen Sound |
| Page-Hersey Tubes, Ltd. | Welland |
| Payette, P., Co. Limited | Nelson St., Penetanguishene |
| Shantz, P.E., Foundry | Fountain St., Preston |
| Smiths Falls Malleable Casting Limited | 22 Bay St., Smiths Falls |
| Soil Pipe & Fittings Limited | Newcastle & Buckingham Sts., Toronto |
| Sonco Steel Products Ltd. | 726 Yonge St., Toronto |
| Standard Foundry and Supply Co. Ltd. | 840 Walker Road, Windsor |
| Standard Tube Company Limited | Drew & Given Sts., Woodstock |
| Sudbury Construction & Machinery Co. Ltd. | 149 Lorne St., Sudbury |
| Taylor Forge & Pipe Works of Canada Ltd. | 777 Beach Rd., Hamilton |
| Tomlinson, T., Foundry Co. Limited | 352 Front St. E., Toronto |

Directory of Firms Included in the Iron Castings Industry, 1956 — Concluded

| Name of firm | Location of plant |
|---|---------------------------------------|
| Ontario — concluded: | |
| Toronto Foundry Co. Limited | 1884 Davenport Rd., Toronto |
| Tube Turns of Canada Ltd. | 21 York St., Ridgetown. |
| Tubular Products Ltd. | 97 Manville Rd., Toronto |
| Tweed Engineering & Foundry Ltd. | Tweed |
| Victoria Foundry Co. Ltd. | 44 Booth St., Ottawa |
| Wabit Iron Works, Limited | New Liskeard |
| Walker Metal Products Limited | 1511 Kildare Road, Walkerville |
| Walkerton Foundry | Walkerton |
| Warp Tension Governors, Limited | 303 Water St. W., Cornwall |
| Welland Iron and Brass Ltd. | 130 Niagara St., Welland |
| Wells Foundry Limited | 1250 Florence St., London |
| Woodside Machinist & Foundry Co. | 173 Manitou St., Port Arthur |
| Wotherspoon, J.A., & Son Ltd. | Cross Ave., Oakville |
| Manitoba: | |
| Anthes-Imperial Co. Limited | Saskatchewan Ave., Winnipeg |
| Bell Foundry Co. | Sargent Ave. & Berry St., St. James |
| Dominion Foundry Co. | Union & Watt St., Winnipeg |
| Osborne Foundries Ltd. | 580 Elbey St., Winnipeg |
| Peterson Iron Works | 132 Aberdeen Ave., Winnipeg |
| Thor Foundry | 796 Archibald St., St. Boniface |
| Saskatchewan | |
| Acme Industries Ltd. | 182 Wall St., Saskatoon |
| Blanchard Foundry & Machine Co. Ltd. | 104 — 22nd Street W., Saskatoon |
| East, John, Iron Works Ltd. | 121 Avenue C North, Saskatoon |
| Melfort Iron Works | Melfort |
| Moose Jaw Foundry | High St. & 6th Ave., Moose Jaw |
| Prince Albert Foundry Company | 17th and Central Sts., Prince Albert |
| Alberta: | |
| Alberta Bend Ltd. | 12230 - 66 St., Edmonton |
| Anthes-Imperial Co. Ltd. | 9520 - 125th Avenue, Edmonton |
| Calgary Iron Works Ltd. | 410 - 9th Avenue E., Calgary |
| Crane Limited | P.O. Box 189 Calgary |
| Lethbridge Iron Works Co. Ltd. | 120 - 1st Avenue S., Lethbridge |
| McAvity, T., & Sons (Western Ltd.) | Medicine Hat |
| Nichols Bros. Limited | 10103 - 95th Street, Edmonton |
| Norwood Foundry Co. Ltd. | 9111 - 11th Avenue, Edmonton |
| St. Paul Foundry Ltd. | St. Paul |
| Vermillion Foundry | Vernilion |
| British Columbia: | |
| Acme Iron Works | 1210 Glen Drive, Vancouver |
| Associated Foundry Ltd. | 4080 Nanaimo St., Vancouver |
| Canadian Western Pipe Mills Ltd. | Murray St., Port Moody |
| Cranbrook Foundry Company Limited | 26 Cranbrook St., Cranbrook |
| Dobney Foundry Co. Ltd. | 312 - 13th St., New Westminster |
| McLean and Powell Iron Works | 398 W. 2nd Avenue, Vancouver |
| Mainland Foundry Company Ltd. | 1707 Pandora St., Vancouver |
| Milbourne Foundry | 852 River Rd., Lulu Island, Vancouver |
| Nairn Brothers Foundry Co. Ltd. | 1616 Powell St., Vancouver |
| New Westminster Foundry Co. Ltd. | Braid St., New Westminster |
| Nye Foundry | 503 Powell Street, Vancouver |
| Peach City Foundry | 176 Estabrook St., Penticton |
| Ramsay & Adams Foundry Co. Ltd. | 1630 Store St., Victoria |
| Reliance Foundry Company Limited | 149 - 4th Avenue W., Vancouver |
| Ross and Howard Iron Works Co. Ltd. | Ft. Woodland Drive, Vancouver |
| Singer Valve Co. Ltd. | 1924 Franklin St., Vancouver |
| Slicks Foundry | 4140 Barry Rd., Langley Prairie |
| S.P. & F. Foundry | 3780 Napier St., North Burnaby |
| Terminal City Iron Works, Ltd. | 1909 Franklin St., Vancouver |
| Union Bay Foundry | Union Bay |
| Victoria Foundries Ltd. | 621 Princess Ave., Victoria |





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