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THE BRASS AND COPPER PRODUCTS INDUSTRY
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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries 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, by Provinces
 - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢.
 - Section 2. Principal Statistics of Individual Industries, 75¢.
 - Section 3. Principal Statistics by Regional Distribution, 75¢.
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XII, Non-ferrous Metal 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 Aluminum Products Industry, 25¢.
- C—The Brass and Copper Products Industry, 25¢.
- D—The White Metal Alloys Industry, 25¢.
- E—The Jewellery and Silverware Industry, 25¢.
- F—The Non-ferrous Smelting and Refining Industry, 25¢.
- G—The Miscellaneous Non-ferrous Metal Products Industry, 25¢.

THE BRASS AND COPPER PRODUCTS INDUSTRY

1951

This report covers the operations of brass foundries and other plants in Canada engaged chiefly in the manufacture of commodities (other than electrical equipment and wire cloth) from brass, bronze or copper. One hundred and twelve foundries and 41 fabricating plants reported under this industry in 1951, and their production was valued at \$179,997,887. In 1950 the corresponding output value amounted to \$126,200,549, and in 1949 to \$115,407,796.

Products manufactured during 1951 by firms in this group included ingots, bars, rods, plates, sheets, tubing and such further fabricated lines as valves, kettles and tanks, plumbing supplies, gas and water meters, fire extinguishers, lightning rods, metal fasteners, hardware, etc. Copper wire and cable, lighting fixtures, switches and other such articles for electrical purposes have not been listed in this group but have been classified to the Electrical Apparatus and Supplies Industry, which is dealt with in a separate report. Wire cloth is covered in the Wire and Wire Goods Industry.

Brass foundry departments which were run by iron foundries or by manufacturers of machinery, farm implements, etc., as a secondary or minor part of their operations are not included in this group as, in such instances, separate reports were not required for the brass foundry divisions and all data concerning same were included in the industries of major importance. It is believed that there are in Canada about 300 brass foundries in all.

A total of 153 plants was included in this group during 1951 of which 87 were located in Ontario, 37 in Quebec, 19 in British Columbia, 6 in Manitoba, 3 in Alberta and 1 in New Brunswick. Ontario factories accounted for 56 per cent of the total production and Quebec plants for 38 per cent.

The number of employees in 1951 totalled 10,077 compared with 8,932 in 1950, and salaries and wages aggregated \$29,318,076 as against \$22,893,180 for the previous year.

TABLE 1. Principal Statistics of the Brass and Copper Products Industry, 1947-1951

| Year | Number of plants | Number of employees | Salaries and wages | Cost of fuel and electricity at works | Cost of materials at works | Gross selling value of products at works | Net ¹ value of production |
|--------------------------------------|------------------|---------------------|--------------------|---------------------------------------|----------------------------|--|--------------------------------------|
| 1947 | 161 | 10,417 | \$ 21,227,616 | \$ 1,567,005 | \$ 60,387,706 | \$ 96,549,840 | \$ 34,595,129 |
| 1948 | 168 | 10,661 | 24,251,055 | 1,822,927 | 79,921,765 | 122,382,484 | 40,637,792 |
| 1949 | 162 | 9,389 | 22,943,888 | 1,662,442 | 73,045,193 | 115,407,796 | 40,700,161 |
| 1950 | 155 | 8,932 | 22,893,180 | 1,808,704 | 82,380,983 | 126,200,549 | 42,010,862 |
| 1951 | 153 | 10,077 | 29,318,076 | 2,117,706 | 121,703,878 | 179,997,887 | 56,176,303 |
| Per cent change 1951 from 1950 | — | + 12.8 | + 28.1 | + 17.1 | + 47.7 | + 42.6 | + 33.7 |

1. Gross value less cost of materials, fuel and electricity.

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

TABLE 2. Principal Statistics, by Provinces, 1950 and 1951

| Province | Number of plants | Number of employees | Salaries and wages | Cost of fuel and electricity at works | Cost of materials at works | Gross selling value of products at works |
|------------------------|------------------|---------------------|--------------------|---------------------------------------|----------------------------|--|
| | | | \$ | \$ | \$ | \$ |
| 1950 | | | | | | |
| Quebec | 38 | 2,782 | 6,527,846 | 681,024 | 31,157,644 | 44,929,715 |
| Ontario | 87 | 5,224 | 14,248,627 | 970,588 | 48,074,551 | 74,302,967 |
| British Columbia | 19 | 204 | 555,482 | 25,384 | 415,631 | 1,221,056 |
| Manitoba | 7 | 181 | 397,346 | 50,742 | 1,397,801 | 2,177,333 |
| New Brunswick | 1 | 541 | 1,163,879 | 80,966 | 1,335,356 | 3,569,478 |
| Alberta | 3 | | | | | |
| Canada | 155 | 8,932 | 22,893,180 | 1,808,704 | 82,380,983 | 126,200,549 |
| 1951 | | | | | | |
| Quebec | 37 | 3,101 | 8,735,203 | 803,156 | 50,540,312 | 68,991,364 |
| Ontario | 87 | 6,033 | 18,115,792 | 1,148,157 | 68,849,915 | 101,713,204 |
| British Columbia | 19 | 206 | 626,195 | 29,595 | 615,065 | 1,565,397 |
| Manitoba | 6 | 161 | 420,194 | 46,377 | 1,881,164 | 2,952,437 |
| New Brunswick | 1 | 576 | 1,420,692 | 90,421 | 1,817,422 | 4,775,485 |
| Alberta | 3 | | | | | |
| Canada | 153 | 10,077 | 29,318,076 | 2,117,706 | 121,703,878 | 179,997,887 |

TABLE 3. Principal Statistics, by Sub-Groups, 1950 and 1951

| | Number of plants | Number of employees | Salaries and wages | Cost of fuel and electricity at works | Cost of materials at works | Gross selling value of products at works |
|--|------------------|---------------------|--------------------|---------------------------------------|----------------------------|--|
| | | | \$ | \$ | \$ | \$ |
| 1950 | | | | | | |
| Foundries making taps, valves, etc. | 15 | 3,222 | 7,780,704 | 405,493 | 6,638,870 | 20,603,938 |
| Other brass and bronze foundries | 98 | 4,610 | 12,207,393 | 1,219,808 | 40,072,732 | 63,343,296 |
| Fabricating plants (not foundries) | 42 | 1,100 | 2,905,083 | 183,403 | 35,669,381 | 42,253,315 |
| Total | 155 | 8,932 | 22,893,180 | 1,808,704 | 82,380,983 | 126,200,549 |
| 1951 | | | | | | |
| Foundries making taps, valves, etc. | 15 | 3,599 | 9,926,476 | 436,803 | 8,999,857 | 26,071,089 |
| Other brass and bronze foundries | 97 | 5,330 | 16,129,685 | 1,491,090 | 63,028,251 | 96,611,210 |
| Fabricating plants (not foundries) | 41 | 1,148 | 3,261,915 | 189,813 | 49,675,770 | 57,315,588 |
| Total | 153 | 10,077 | 29,318,076 | 2,117,706 | 121,703,878 | 179,997,887 |

Note. In Table 3, data for foundries are only for the foundries which were occupied chiefly in making valves, plumbers' goods, castings, etc., as their regular line of goods for sale. Brass foundry departments which were run by iron foundries or by manufacturers of machinery, etc., as a secondary or minor part of their operations are not included as, in such cases, separate reports are not required for the brass foundry divisions. Ingot makers are included with foundries as also are the concerns which make brass and roll same into rods, sheets, cartridge discs, etc.

TABLE 4. Products Made in the Brass and Copper Products Industry, 1950 and 1951

| Product | Unit of measure | 1950 | | 1951 | |
|---|-----------------------|-----------|------------------------------------|-----------|------------------------------------|
| | | Quantity | Gross selling value at works | Quantity | Gross Selling value at works |
| Aluminum: | | | \$ | | \$ |
| Castings | lb. | 1,303,042 | 892,039 | 1,394,624 | 1,249,528 |
| Other forms | — | — | 523,069 | — | 1,306,217 |
| Brass and bronze: | | | | | |
| Ingots | ton | 9,478 | 4,067,021 | 12,480 | 7,611,985 |
| Castings | " | 16,800 | 11,214,139 | 18,903 | 16,316,503 |
| Scrap | " | 505 | 166,968 | 604 | 246,464 |
| Other forms ¹ | " | 27,807 | 19,072,232 | 38,260 | 30,710,781 |
| Copper sheets, wire rods, tubing, etc. | " | 92,919 | 51,637,468 | 110,736 | 72,614,311 |
| Fire extinguishers, hand type | — | — | 1,377,459 | — | 1,634,554 |
| Hardware | — | — | 383,815 | — | 474,757 |
| Lightning rods and supplies | — | — | 380,617 | — | 377,366 |
| Plumbers' brass fittings | — | — | 9,266,244 | — | 10,113,086 |
| Cast iron plumbing fixtures | — | — | 299,454 | — | 86,194 |
| Valves: | | | | | |
| Iron and steel body | — | — | 2,525,664 | — | 5,592,621 |
| Brass and bronze, including radiator valves and traps | — | — | 4,071,874 | — | 4,564,990 |
| Ships' fittings | — | — | 52,963 | — | 161,274 |
| Steam boiler trimmings, including gauge cocks and water gauge mountings | — | — | 207,095 | — | 136,159 |
| Amount received for repair work | — | — | 657,113 | — | 794,547 |
| All other products, including items made by only 1 or 2 concerns ² | — | — | 19,405,315 | — | 26,007,550 |
| Total all products | — | — | 126,200,549 | — | 179,997,887 |

Note. The data in this table are for the Brass and Copper Products Industry only and do not necessarily represent the total Canadian output of the items that are listed. Concerns in other industries may have made such articles as secondary products. The total production of plumbers' brass fittings and hand-type fire extinguishers from all industries is shown in Tables 5 and 6.

1. Includes bars, rods, sheets, strips, tubing, powder, etc.

2. Includes railway car fittings, kettles, cosmetic containers, gauges, brewery distillation equipment, gas and water meters, etc.

TABLE 5. Total Production in Canada of Plumbers' Brass Fittings, 1950 and 1951
(From all industries)

| Product | Selling value at works | |
|--|------------------------|------------|
| | 1950 | 1951 |
| Tub fillers, showers, and combinations of same | \$ 1,791,000 | 1,930,000 |
| Traps, drains, supplies and other tubular fittings | 2,531,000 | 3,261,000 |
| Stops, and stop and drains | 1,907,000 | 1,091,000 |
| Sink faucets and sink combinations | 1,831,000 | 2,115,000 |
| Lavatory and bath faucets, lavatory combinations | 1,577,000 | 1,408,000 |
| Closet tank fittings | 838,000 | 929,000 |
| All other brass plumbing fittings | 2,155,000 | 2,994,000 |
| Total | 12,630,000 | 13,728,000 |

TABLE 6. Total Production in Canada of Hand-Type Fire Extinguishers, 1942-1951
(From all industries)

| Year | Selling value at works | Year | Selling value at works |
|------|---------------------------|------|---------------------------|
| 1942 | \$ 877,000 | 1947 | \$ 713,000 |
| 1943 | 1,100,000 | 1948 | 967,000 |
| 1944 | 1,283,000 | 1949 | 1,225,000 |
| 1945 | 1,308,000 | 1950 | 1,464,000 |
| 1946 | 896,000 | 1951 | 1,825,000 |

TABLE 7. Materials Used in the Brass and Copper Products Industry, 1950 and 1951

| Material | Unit of measure | 1950 | | 1951 | |
|---------------------------------------|-----------------|-------------|---------------|-------------|---------------|
| | | Quantity | Cost at works | Quantity | Cost at works |
| Aluminum: | | | \$ | | \$ |
| Ingots | lb. | 1,509,815 | 327,142 | 1,661,523 | 391,017 |
| Scrap | " | 2,449,182 | 343,060 | 2,947,568 | 623,009 |
| Other forms..... | " | 382,779 | 154,101 | 846,460 | 354,907 |
| Antimony | lb. | 28,514 | 8,288 | 31,539 | 16,704 |
| Brass and bronze: | | | | | |
| Ingots | lb. | 24,229,669 | 5,006,896 | 25,192,198 | 7,402,987 |
| Scrap | " | 51,531,612 | 9,815,103 | 57,626,947 | 13,763,489 |
| Bars and rods..... | " | 4,107,992 | 1,218,818 | 4,505,664 | 1,588,761 |
| Plates, sheets and strip | " | 2,656,945 | 739,169 | 2,079,991 | 912,926 |
| Pipe and tubing | lb. | 922,177 | 395,091 | 894,840 | 444,760 |
| Wire | " | 248,362 | 117,419 | 83,467 | 44,926 |
| Castings | " | 1,557,305 | 556,697 | 1,209,337 | 639,116 |
| Other forms..... | " | 107,924 | 72,610 | 511,917 | 223,031 |
| Copper: | | | | | |
| Ingots, slabs, wire bars, etc. | lb. | 210,438,429 | 49,385,562 | 260,286,417 | 72,577,876 |
| Scrap | " | 11,506,914 | 2,407,487 | 16,796,394 | 4,592,966 |
| Rods | " | 25,118 | 12,651 | 23,871 | 10,500 |
| Pipe and tubing | " | 522,799 | 174,957 | 725,380 | 338,106 |
| Plates, sheets and strip | " | 867,611 | 352,110 | 997,320 | 459,851 |
| Wire | " | 604,725 | 211,931 | 597,184 | 238,299 |
| Other forms..... | " | 86,345 | 28,558 | 379,999 | 117,742 |
| Lead: | | | | | |
| Pig..... | lb. | 1,356,331 | 193,159 | 1,390,474 | 262,179 |
| Scrap | " | 454,558 | 58,390 | 714,634 | 118,724 |
| Other forms..... | " | 92,949 | 42,359 | 76,152 | 33,744 |
| Magnesium | lb. | 69,543 | 17,464 | 270,325 | 81,200 |
| Manganese metal | " | 22,584 | 5,660 | 98,899 | 32,355 |
| Monel metal | " | 136,057 | 83,609 | 146,250 | 99,755 |
| Nickel | " | 524,908 | 266,030 | 422,326 | 256,063 |
| Nickel-copper shot | " | 40,210 | 16,060 | 65,443 | 27,260 |
| Nickel-silver, all forms | " | 1,823,824 | 513,334 | 1,642,558 | 519,876 |
| Tin: | | | | | |
| Ingots: | | | | | |
| Phosphor tin..... | lb. | 83,974 | 86,323 | 143,734 | 183,742 |
| Other tin ingots | " | 98,017 | 96,760 | 283,019 | 375,935 |
| Scrap | " | 19,507 | 5,297 | 7,407 | 6,622 |
| Other forms..... | " | 168,592 | 128,735 | 169,725 | 172,125 |
| Zinc: | | | | | |
| Ingots and slabs | lb. | 14,495,846 | 2,255,055 | 21,123,373 | 4,178,648 |
| Scrap | " | 140,104 | 17,092 | 510,140 | 84,170 |
| Sheets | " | 599,095 | 158,994 | 590,895 | 193,832 |
| Other forms..... | " | — | 67,721 | — | 28,171 |
| Other non-ferrous metals | — | — | 761,143 | — | 1,221,962 |
| Iron and steel: | | | | | |
| Pig iron | ton | 4,988 | 193,437 | 4,394 | 245,350 |
| Iron castings | " | 1,331 | 301,957 | 1,566 | 483,653 |
| Steel castings | " | 77 | 108,061 | 125 | 187,984 |
| Steel bars and rods | " | 486 | 106,448 | 551 | 186,856 |
| Steel wire | " | 342 | 134,054 | 64 | 19,805 |
| Steel sheets | " | 455 | 59,337 | 858 | 214,765 |
| Iron and steel scrap | " | 2,007 | 66,824 | 1,841 | 90,874 |
| Other iron and steel | — | — | 139,789 | — | 343,655 |
| Lumber | M bd. ft. | 1,074 | 89,306 | 2,097 | 202,174 |
| Crucibles | — | — | 84,082 | — | 104,651 |
| Foundry coke | ton | 3,396 | 64,161 | 3,644 | 85,966 |
| Foundry facings | lb. | 165,012 | 7,142 | 340,984 | 11,288 |
| Foundry sands | ton | 8,844 | 77,399 | 21,759 | 140,483 |
| Graphite | lb. | 59,156 | 13,859 | 84,722 | 13,269 |
| Refractories | — | — | 40,038 | — | 89,761 |
| Other materials | — | — | 4,322,171 | — | 6,162,155 |
| Containers and packing materials..... | — | — | 472,083 | — | 503,853 |
| Total all materials | — | — | 82,380,983 | — | 121,703,878 |

TABLE 8. Imports into Canada of Brass and Copper and Their Products, 1950 and 1951

| Item | 1950 | | 1951 | |
|--|----------|---------|------------|------------------|
| | Quantity | Value | Quantity | Value |
| | | \$ | | \$ |
| Brass and its products: | | | | |
| Brass in blocks, ingots or pigs | cwt. | 9,091 | 146,533 | 19 473 |
| Brass scrap | " | 17,223 | 329,606 | 15,411 267,654 |
| Brass in bars or rods | " | 5,820 | 166,618 | 4,191 159,733 |
| Brass in strips, sheets or plates | " | 3,582 | 170,950 | 4,927 251,703 |
| Brass tubing | " | 9,129 | 536,406 | 17,193 1,188,927 |
| Metal caps, for use in the manufacture of electric batteries | " | — | 60,172 | — 96,943 |
| Coin locks of which solid brass or bronze are the components of chief value, plain, polished or plated | " | — | 6,038 | — 811 |
| Pumps, hand, brass, n.o.p. | " | — | 16,267 | — 31,707 |
| Valves, brass | " | — | 2,305,122 | — 3,129,875 |
| Meters, brass, and parts, n.o.p. | " | — | 199,761 | — 215,321 |
| Brass wire, for the manufacture of fourdrinier wires or of paper-machine wire cloth | " | — | 22,594 | — 26,018 |
| Wire, brass, n.o.p. | lb. | 87,838 | 53,198 | 94,025 59,638 |
| Wire cloth, or woven wire of brass, n.o.p. | " | — | 24,486 | — 55,484 |
| Manufactures of brass, n.o.p. | " | — | 10,454,079 | — 10,938,123 |
| Copper and its products: | | | | |
| Copper, in blocks, pigs or ingots | cwt. | 2,448 | 60,844 | 30,217 680,222 |
| Copper scrap, cathode plates of electrolytic copper for melting | cwt. | 9,247 | 205,732 | 25,282 300,924 |
| Copper in bars or rods, for the manufacture of trolley, telegraph and telephone wires, electric wires, electric cables and electrical conductors | cwt. | 32,529 | 730,208 | 28,417 676,121 |
| Copper in bars or rods, n.o.p. | " | 702 | 37,922 | 1,926 55,187 |
| Copper in strips, sheets or plates | " | 2,934 | 140,150 | 7,605 356,540 |
| Copper tubing | " | 4,520 | 295,748 | 13,024 975,671 |
| Copper rollers and stones, used in the printing of textile fabrics or wallpaper | " | — | 144,340 | — 178,912 |
| Copper wire, n.o.p. | lb. | 225,751 | 82,825 | 262,164 148,858 |
| Copper wire cloth or woven wire of copper | " | — | 8,163 | — 24,150 |
| Copper, manufactures of, n.o.p. | " | — | 665,166 | — 656,292 |

Note. "n.o.p." means "not otherwise provided for".

TABLE 9. Exports from Canada of Brass and Copper and Their Products, 1950 and 1951

| Item | 1950 | | 1951 | |
|--|-----------|------------|-----------|------------|
| | Quantity | Value | Quantity | Value |
| | cwt. | \$ | cwt. | \$ |
| Brass and its products: | | | | |
| Brass scrap, dross and ashes | 110,980 | 1,686,257 | 22,494 | 455,321 |
| Brass in bars, ingots, rods, strips, sheets and plates | 22,930 | 778,391 | 98,523 | 3,603,852 |
| Brass tubing | 2,174 | 88,924 | 1,196 | 54,835 |
| Brass valves | — | 257,801 | — | 506,053 |
| Brass manufactures, n.o.p. | — | 550,141 | — | 1,040,358 |
| Copper and its products: | | | | |
| Copper scrap, slag, skimmings and sludge | 124,673 | 2,894,616 | 19,873 | 549,532 |
| Copper in ingots, bars, cakes, slabs and billets | 2,684,877 | 59,665,730 | 2,036,636 | 59,022,855 |
| Copper in rods, strips, sheets and plates | 305,240 | 7,510,151 | 248,364 | 7,378,396 |
| Copper tubing | 13,596 | 520,456 | 17,453 | 820,032 |
| Copper wire and cable, insulated | — | 2,669,022 | — | 3,048,794 |
| Copper wire, bare | — | 1,350,165 | — | 1,462,336 |
| Copper wire screen | — | 14,492 | — | 54,336 |
| Copper manufactures, n.o.p. | — | 42,764 | — | 111,330 |

NON-FERROUS METAL PRODUCTS

TABLE 10. Employees and Their Earnings in the Brass and Copper Products Industry, by Provinces, 1950 and 1951

| Province | Number of employees | | | | | Earnings | | |
|------------------------|------------------------|--------|--------------------|--------|--------|------------------------|--------------------|------------|
| | Supervisory and office | | Production workers | | Total | Supervisory and office | Production workers | Total |
| | Male | Female | Male | Female | | \$ | \$ | |
| 1950 | | | | | | | | |
| Quebec | 384 | 142 | 2,200 | 56 | 2,782 | 1,679,052 | 4,848,794 | 6,527,846 |
| Ontario | 623 | 318 | 3,852 | 431 | 5,224 | 3,282,002 | 10,966,625 | 14,248,627 |
| British Columbia | 43 | 9 | 151 | 1 | 204 | 175,736 | 379,746 | 555,482 |
| Other provinces | 88 | 27 | 543 | 64 | 722 | 411,610 | 1,149,615 | 1,561,225 |
| Canada | 1,138 | 496 | 6,746 | 552 | 8,932 | 5,548,400 | 17,344,780 | 22,893,180 |
| 1951 | | | | | | | | |
| Quebec | 459 | 152 | 2,424 | 66 | 3,101 | 2,109,518 | 6,625,685 | 8,735,203 |
| Ontario | 742 | 371 | 4,398 | 522 | 6,033 | 4,209,165 | 13,906,627 | 18,115,792 |
| British Columbia | 50 | 10 | 145 | 1 | 206 | 202,576 | 423,619 | 626,195 |
| Other provinces | 90 | 35 | 558 | 54 | 737 | 485,622 | 1,355,264 | 1,840,886 |
| Canada | 1,341 | 568 | 7,525 | 643 | 10,077 | 7,006,881 | 22,311,195 | 29,318,076 |

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1951

| Name of firm | Location of plant |
|--------------|-------------------|
|--------------|-------------------|

(a) Foundries engaged chiefly in making brass valves, taps, plumbers' supplies, etc.

New Brunswick:

McAvity & Sons, T., Ltd. Rothesay Ave., Saint John

Quebec:

Cuthbert, W. R., & Co. Ltd. 47 Duke St., Montreal
 Golden Gate Manufacturing Co. Ltd. 361 Youville St., Montreal
 Jenkins Bros. Limited 617 St. Rémi St., Montreal, and St. Joseph St., Lachine
 Robertson, James, Company Limited 946 William St., Montreal

Ontario:

Canadian Brass Company, Limited 415 Dundas St., Galt
 Empire Brass Manufacturing Company Limited Dundas St. E., London
 Galt Brass Company, Limited 471 Dundas St., Galt
 Morrison, James, Brass Manufacturing Co. Ltd. 276 King St. W., Toronto
 Mueller, Limited Clifford St., Sarnia
 Penberthy Injector Co. Limited 159 Windsor Ave., Windsor
 Prescott Brass Manufacturing Co. Ltd. Prescott
 Wallaceburg Brass Ltd. Wallaceburg
 Wolverine Brass Company Limited 918 Palmerston Ave., Toronto

(b) Firms engaged chiefly in operating brass and bronze foundries
(Other than for valves, taps, etc.)

Quebec:

Alliance Foundry & Pattern Works Reg'd. 915 St. Martin St., Montreal
 Archambault Foundry Reg'd. 8016 Henri Julien St., Montreal
 Bougie, Roland 220 Ellice, Valleyfield
 Bouliane Brass Foundry 2020 Labreque St., Montreal

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1951 — Continued

| Name of firm | Location of plant |
|--|--|
| (b) Firms engaged chiefly in operating brass and bronze foundries — Continued (Other than for valves, taps, etc.) | |
| Quebec — Concluded: | |
| Canadian Bronze Powder Works Limited..... | |
| Dominion Brass & Aluminum Foundry Co. | Valleyfield |
| Clark, C. O., & Eros, Reg'd. | 24 Mont Vernon Ave., Ville St. Pierre |
| Eastern Brass Foundry, Limited | 355 Canal Rd., Lachine |
| Empire Brass Foundry Limited | 514 Harbour St., Montreal |
| Gaulin, Athanase | 137 Nazareth St., Montreal |
| Hazel, James, & Son | St. Francois, Cté. Montmagny |
| Laliberté, P. E..... | 130 Mgr. Gauvreau St., Quebec |
| Lauzon Brass and Aluminum Foundry | 32.rue Fleurie, Québec |
| Miller's Brass Foundry, Reg'd. | 50 Carrier St., Lauzon |
| Mitchell, Robert, Co. Limited, The | 791 Hertel St., Three Rivers |
| Montreal Bronze Limited | 64 Decarie Blvd., Ville St. Laurent |
| National Foundry Reg'd. | 999 Delorimier Ave., Montreal |
| Noranda Copper and Brass Limited | 1722 Champigny St., Montreal |
| Regent Brass Foundry | Sherbrooke and Durocher Sts., Montreal East |
| Sicotte, Paul | 7980 Dryden Ave., Ville St. Michel, and St. Hubert St., Montreal |
| Union Screen Plate Company of Canada, Limited | 73 Dubois, Ste. Thérèse |
| Vandevoorde Foundry | 72 Main St., Lennoxville |
| Victory Brass & Aluminum Foundry..... | 2000 Kent St., Montreal |
| Ontario: | |
| Acme Brass Company | 5244 Casgrain St., Montreal |
| Anaconda American Brass Limited | Hornet Ave., Etobicoke |
| Atkins & Hoyle Limited | 8th Street, New Toronto |
| Barnard Foundries Ltd. | 69 Portland St., Toronto |
| Beare Brass Foundry | 13 Dundas St. E., Toronto |
| Bond Brass Limited | 57 Grey St., Brantford |
| Bowman Bronze Company | 110 McArthur Ave., Eastview |
| Boyd, R., & Son | 26 Railway St., Hamilton |
| Canadian Arsenals Ltd. — Gun Ammunition Division | 6 Woodburn Ave., St. Catharines |
| Coulter Copper & Brass Company, Limited | 100 Albert St. S., Lindsay |
| Dean Brothers Brass Works | 115 Sumach St., Toronto |
| Dempsey, Chas. W. | 130 Simcoe St., Toronto |
| Dominion Gas Meter Company, Limited, The | 17 Division St., Guelph |
| Elmira Aluminum Specialties | 1-11 Garfield Ave., London |
| Ferguson, Robt. J., & Sons | Elmira |
| Fisher and Son | 64 Booth St., Ottawa |
| Galt Castings Limited | 366 Wilson St., Hamilton |
| Industrial Fine Castings Limited..... | 199 Samuelson St., Galt |
| Inkerman Alloys Foundry | 272 Geary Ave., Toronto |
| Kilby, Wm. Sr. | 44 Interman St., Guelph |
| Kitchener Brass & Aluminum Foundry | 360 East St., Orillia |
| Lawrence, T. C., & Sons | 388 Wendell Ave., Kitchener |
| Long Branch Foundry, The | 17 Jarvis St., Galt |
| May Foundry Co. | 28 Brown's Line, Toronto |
| McKay Smelters, Limited..... | 2018 Buchanan St., Niagara Falls |
| National Brass & Aluminum Foundry | 20 Charlevoix St., Eastview |
| Neptune Meters, Limited | 117 St. Patrick St., Toronto |
| Niagara Bronze | Long Branch |
| Non-Ferrous Castings Company | 747 Buttery St., Niagara Falls |
| Phillips, G. E. | 65 Frederick St., Toronto |
| Potts Pattern Works Ltd. | 3293 Dufferin St., Toronto |
| Quality Brass Foundry | Rear 1979 Dundas St. W., Toronto |
| Queen City Brass Foundry | 29 Wabash Ave., Toronto |
| Rahn Metals Limited | 28 Dalhousie St., Toronto |
| Robinson, J., & Son | Regina St., North Bay |
| Royal Brass & Aluminum Foundry | 2 Hinton Ave., Ottawa |
| St. Catharines Brass Works, Ltd. | 6 Widmer St., Toronto |
| St. Thomas Bronze Company, Limited..... | 62 George St., St. Catharines |
| Sherratt, W., & Son | First Ave., St. Thomas |
| Sloski, E. | 6 Britain St., Toronto |
| Standard Brass & Aluminum Foundry | 198 Beverley St., Toronto |
| Standard Brass Foundry | 70 Kingsmill Ave., Guelph |
| Stoermer Bell & Brass Foundry | 561 Catharine St. N., Hamilton |
| Tallman, A. H., Bronze Company Limited | Kitchener |
| United Smelting & Refining (Smelting Division) | Cavell Ave., Hamilton |
| Wagman, Z., & Son Ltd. | 363 Wellington St. N., Hamilton |
| Wilson Brass & Aluminum Foundries | 190 Edwin Ave., Toronto |
| Wilson & Cousins, Limited | 5 Hamilton St., Toronto |
| Windsor Brass Works, Limited | 240 Birmingham St., New Toronto |
| Windsor Match Plates Co. | 408 Hanna St. E., Windsor |
| | 911 Cadillac St., Windsor |

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1951 — Continued

| Name of firm | Location of plant |
|--|---|
| (b) Firms engaged chiefly in operating brass and bronze foundries — Concluded (Other than for valves, taps, etc.) | |
| Manitoba: | |
| Bay Bronze Co., The | 1520 Wall St., Winnipeg |
| Northwestern Brass, Limited | 13 Bury St., Winnipeg |
| Western Canada Bronze Company | 595 Clifton St., Winnipeg |
| Winnipeg Brass Limited | 500 Clifton St., Winnipeg |
| Alberta: | |
| Northwestern Brass, Limited | 1609—34th Ave. E., Calgary |
| Paragon Bronze & Aluminum Products | 511—3rd Ave. W., Calgary |
| British Columbia: | |
| A-1 Pattern Shop & Brass Foundry | 29 West 3rd Ave., Vancouver |
| Fraser Brass Foundry | Scott Rd., R.R. No. 9, New Westminster |
| Georgia Foundry Limited..... | 22 E. 5th Ave., Vancouver |
| Green, Wm., & Sons Brass Foundry | 515 Pembroke St., Victoria |
| Hastings Brass Foundry Ltd. | 236 Clark Drive, Vancouver |
| Hi-Way Foundry | 506 Island Highway, Victoria |
| Lansco Foundries Limited | 1865 West Georgia St., Vancouver |
| McPhail, Wm., & Sons (Canada) Ltd. | 251 East Second Ave., Vancouver |
| Northwestern Brass & Bronze Foundry | 1869 West Georgia St., Vancouver |
| North Shore Brass & Aluminum | 234 E. Esplanade St., N. Vancouver |
| Ornamental Bronze Company, Ltd. | 1125 Vernon Drive, Vancouver |
| Pacific Bronze Co., Ltd. | 244 Woodland Drive, Vancouver |
| Pioneer Foundry & Machine Works Ltd. | 707—4th. Ave. N., Port Alberni |
| Smith Bros. Foundry, Limited | 632 Pembroke St., Victoria |
| Sumner Brass Foundry Ltd. | 619 Bidwell St., Vancouver |
| Vancouver Metals Company Limited | 2235 Triumph St., Vancouver |
| Westcoast Metal Products | 1205 Glen Drive, Vancouver |
| Wilson's Brass Foundry | 22 East Second Ave., Vancouver |
| (c) Firms engaged chiefly in making fabricated articles (Not foundries) | |
| Quebec: | |
| Booth-Coulter Coppersmithing Co. Ltd. | 997 Wellington St., Montreal |
| Brass & Bronze Manufacturing Co. | 1071 Panet St., Montreal |
| Canada Wire & Cable Co. Limited | Sherbrooke and Durocher Sts., Montreal East |
| Cassidy and Maillard, Limited | 1156-58 Papineau St., Montreal |
| Fayle Coppersmith Works Limited | 910 Wellington St., Montreal |
| Guard-X Reg'd..... | 6579 St. Denis St., Montreal |
| Industrial Spinning Co. Ltd. | 3850 Ontario St. E., Montreal |
| Kidde, Walter, & Company of Canada Ltd. | 6975 Jeanne Mance St., Montreal |
| Lawson Machine Works Ltd. | 651 Bridge St., Montreal |
| Ontario: | |
| Booth, W.E., Co. Ltd. | 12 Mercer St., Toronto |
| Breen Wire Products Ltd. | 64 Merton St., Toronto |
| Canadian Meter Company, Limited | 90 Caroline St. N., Hamilton |
| Cello Products | 15 Easton St., Galt |
| Dodd & Struthers | 1721 Moy Ave., Windsor |
| Dominion Brass Products Ltd. | 65 Saultier St., Toronto |
| Dominion Lightning Rod Company | 63 Main St., Dundas |
| Durham Pure Copper Lightning Rod Conductor | Queen St., Durham |
| Fyr-Fyter Company of Canada, Ltd. | 589 Cannon St. E., Hamilton |
| General Fireguard Corporation Limited, The | 978 Luke Rd., Windsor |
| Granel, G.P., & Son | 330 Geary Ave., Toronto |
| Guardian Manufacturing Company | 10 Brock St., Brockville |
| Johnston Copper & Brass Limited | 11 New St., Toronto |
| Kurly Kate (Canada) Limited | 49 Colborne St., Toronto |
| Lauder Brass Company Limited | 186 Adelaide St. W., Toronto |
| Metal Textile Corporation of Canada, Ltd. | 126 Catherine St. N., Hamilton |
| Millman, W.H., & Sons | 243 College St., Toronto |
| Ottawa Brass Mfg. Co. | 542 Wellington St., Ottawa |
| Phillips, B., Company Limited | 32 Osborne Ave., Toronto |

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1951 — Concluded

| Name of firm | Location of plant |
|--|--|
| (c) Firms engaged chiefly in making fabricated articles (Not foundries) — Concluded | |
| Ontario — Concluded | |
| Phillips Electrical Works Ltd. | Kingston Road, Brockville |
| Pratt, Austin Pyrene Manufacturing Co. of Canada, Limited | 125 Berkeley St., Toronto |
| Riverdale Copper & Brass Works | 91 East Don Roadway, Toronto |
| S & S Metal Spinning Company | 160 Duchess St., Toronto |
| Toronto Coppersmithing Company | 3298 Dundas St. W., Toronto |
| United-Carr Fastener Company of Canada, Limited | 80 Knox Ave., Toronto |
| Universal Lightning Rod Company | Gage Ave. and Beach Road, Hamilton; and Oakville Hespeler |
| Manitoba: | |
| Canadian Electric & Brass Ltd. Wawanesa Mutual Insurance Co. (Commercial Department) | 574½ Minto St., Winnipeg Wawanesa |
| Alberta: | |
| Winter's Metal Spinning Works | 510—6th Ave. W., Calgary |
| British Columbia: | |
| Ellett Copper & Brass Co. Ltd. | 92 West 2nd Ave., Vancouver |

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