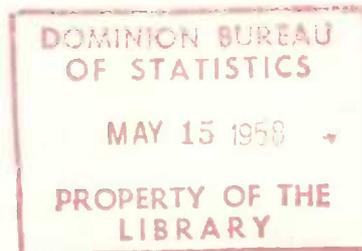


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THE WHITE METAL ALLOYS INDUSTRY

1956



Published by Authority of
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DOMINION BUREAU OF STATISTICS
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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
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- VII – Textile Mills
- VIII – Knitting Mills
- IX – Clothing
- X – Wood and Paper Products
- XI – Printing Trades
- XII – Iron and Steel Products
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- 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 XIV, 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 Smelting and Refining Industry, 25¢
- G – The Miscellaneous Non-ferrous Metal Products Industry, 25¢

THE WHITE METAL ALLOYS INDUSTRY 1956

Statistics given in this report cover the operations of firms in Canada which were occupied chiefly in (a) the manufacture of white metal alloys, such as babbitt, solders, type and type metal; (b) the refining of scrap to recover white metals such as lead, tin, zinc, etc.; and (c) the manufacture of products, such as lead sheet, lead pipe, antimonial lead, collapsible tubes, castings, metal foil, etc., in which the white metals or their alloys are the principal materials. In some establishments all three of these operations are carried on, so it is not practicable to make a subdivision of the industry.

Fifty-eight factories reported in this group in 1956 and the value of their output was \$62,515,219, a slight increase over the \$62,505,196 reported in 1955.

Of the total output during the year under review 73 per cent came from the 33 plants in Ontario, 19 per cent from the 17 plants in Quebec and the remaining 8 per cent from the 8 plants located in Manitoba, Alberta and British Columbia.

Employment was afforded to a total of 3,199 people, including 681 on salaries and 2,518 on wages. Salaries for the year amounted to \$3,198,641 and wages to \$8,225,402, a total of \$11,424,043. In the previous year the 3,102 workers were paid \$10,496,152.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$41,590,230 delivered at the works. Included in these materials, were 53,153 tons of scrap metals at \$14,864,044; 23,142 tons of pig lead at \$7,041,623; 2,060 tons of pig tin at \$4,020,290; 6,177 tons of aluminum at \$3,913,288; 11,160 tons of zinc spelter at \$3,260,608 and other metals at \$3,644,659.

Factory shipments included 37,313 tons of refined metals (recovered from scrap) valued at \$13,505,763; 6,452 tons of solders at \$6,071,000; 4,987 tons of type and type metal at \$2,613,598; 1,348 tons of babbitt metal at \$1,061,776; die castings at \$10,143,860; 1,566 tons of lead pipe at \$764,570; 2,409 tons of lead sheet at \$1,052,360 and other lines, such as metal foil, moulded shot, collapsible tubes, etc.

Note. Figures for value added by manufacture, shown in Table 1, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 and later years information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures.

TABLE 1. Principal Statistics of the White Metal Alloys Industry, Significant Years 1929-1956, and by Provinces, 1955 and 1956

| Year and province | Estab- lish- ments | Em- p- loyees | Salaries and wages | Cost of fuel and electricity at plant | Cost of materials at plant | Value added by manufacture ¹ | Gross selling value of products ¹ |
|------------------------|--------------------------|---------------------|--------------------------|--|----------------------------------|---|--|
| | No. | No. | \$ | \$ | \$ | \$ | \$ |
| 1929 | 28 | 755 | 929, 295 | 98, 958 | 4, 757, 366 | 1, 609, 844 | 6, 466, 168 |
| 1932 | 24 | 532 | 621, 480 | 62, 970 | 1, 935, 507 | 1, 499, 572 | 3, 498, 049 |
| 1937 | 38 | 1, 222 | 1, 360, 216 | 108, 519 | 5, 749, 842 | 3, 152, 922 | 9, 011, 283 |
| 1939 | 35 | 1, 347 | 1, 586, 182 | 121, 185 | 4, 927, 693 | 3, 888, 287 | 8, 937, 165 |
| 1942 | 40 | 2, 583 | 3, 848, 639 | 314, 986 | 13, 328, 759 | 9, 681, 331 | 23, 325, 076 |
| 1946 | 47 | 3, 414 | 5, 600, 124 | 430, 560 | 15, 851, 099 | 9, 847, 248 | 26, 128, 907 |
| 1949 | 47 | 3, 428 | 7, 843, 173 | 704, 742 | 30, 643, 550 | 14, 130, 235 | 45, 478, 527 |
| 1952 | 55 | 3, 238 | 9, 525, 283 | 767, 984 | 34, 689, 608 | 17, 921, 841 | 53, 379, 433 |
| 1953 | 56 | 3, 641 | 11, 007, 518 | 767, 613 | 30, 142, 086 | 19, 595, 648 | 50, 505, 347 |
| 1954 | 56 | 3, 303 | 10, 444, 634 | 795, 903 | 29, 671, 943 | 19, 892, 113 | 49, 823, 446 |
| 1955 | | | | | | | |
| Quebec | 17 | 447 | 1, 512, 527 | 112, 477 | 8, 713, 486 | 2, 622, 218 | 11, 363, 640 |
| Ontario | 35 | 2, 479 | 8, 458, 728 | 676, 174 | 26, 141, 673 | 20, 578, 928 | 46, 817, 299 |
| Manitoba | 3 | 76 | 197, 789 | 34, 545 | 1, 354, 856 | 296, 873 | 1, 626, 766 |
| Alberta | 1 | 100 | 327, 108 | 29, 113 | 1, 889, 177 | 886, 037 | 2, 697, 491 |
| British Columbia | 4 | | | | | | |
| Canada | 60 | 3, 102 | 10, 496, 152 | 852, 309 | 38, 099, 192 | 24, 384, 056 | 62, 505, 196 |
| 1956 | | | | | | | |
| Quebec | 17 | 489 | 1, 834, 698 | 114, 662 | 9, 210, 457 | 2, 830, 093 | 12, 013, 925 |
| Ontario | 33 | 2, 539 | 9, 019, 746 | 784, 884 | 28, 676, 327 | 16, 033, 871 | 45, 508, 133 |
| Manitoba | 3 | 76 | 219, 590 | 44, 145 | 1, 670, 244 | 560, 506 | 2, 219, 794 |
| Alberta | 1 | 95 | 350, 009 | 31, 700 | 2, 033, 202 | 755, 830 | 2, 773, 367 |
| British Columbia | 4 | | | | | | |
| Canada | 58 | 3, 199 | 11, 424, 043 | 975, 391 | 41, 590, 230 | 20, 180, 300 | 62, 515, 219 |

1. See footnote to Text.

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: | | | | |
| Quebec | 772, 104 | 52, 382 | 566, 980 | 1, 391, 466 |
| Ontario | 3, 428, 252 | 958, 193 | 2, 312, 045 | 6, 698, 490 |
| Other provinces | 272, 137 | 77, 437 | 368, 079 | 717, 653 |
| Canada | 4, 472, 493 | 1, 088, 012 | 3, 247, 104 | 8, 807, 609 |
| Closing: | | | | |
| Quebec | 821, 444 | 45, 096 | 715, 553 | 1, 582, 093 |
| Ontario | 3, 783, 874 | 922, 685 | 2, 334, 502 | 7, 041, 061 |
| Other provinces | 317, 778 | 68, 970 | 479, 012 | 865, 760 |
| Canada | 4, 923, 096 | 1, 036, 751 | 3, 529, 067 | 9, 488, 914 |

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 White Metal Alloys 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. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Products Made in the White Metal Alloys Industry, 1955 and 1956

| Product | 1955 | | 1956 | |
|---|---------------------------|----------------------------|--------------|----------------------------|
| | Quantity | Value of factory shipments | Quantity | Value of factory shipments |
| | lb. | \$ | lb. | \$ |
| Refined metals (reclaimed or remelted): | | | | |
| Aluminum | 14, 182, 903 | 3, 547, 830 | 12, 444, 907 | 3, 369, 690 |
| Lead (antimonial) | 45, 102, 964 | 6, 897, 864 | 45, 938, 509 | 7, 503, 089 |
| Lead (common) | 12, 357, 257 | 1, 912, 821 | 10, 640, 743 | 1, 756, 044 |
| Tin | 92, 114 | 94, 058 | 88, 394 | 92, 824 |
| Zinc | 5, 575, 360 | 698, 182 | 5, 268, 306 | 722, 927 |
| Other metals | — | 125, 874 | — | 61, 189 |
| Alloys: | | | | |
| Babbitt | 2, 681, 558 | 1, 088, 679 | 2, 695, 450 | 1, 061, 776 |
| Brass and bronze ingots | 14, 246, 317 | 4, 844, 949 | 11, 498, 169 | 3, 996, 709 |
| Copper alloys, not elsewhere specified | 445, 234 | 462, 917 | 330, 700 | 402, 900 |
| Lead alloys, not elsewhere specified | 1, 183, 076 | 346, 057 | 898, 170 | 326, 914 |
| Solders | 12, 789, 019 | 5, 750, 818 | 12, 904, 649 | 6, 071, 000 |
| Tin alloys, not elsewhere specified | 5, 702 | 6, 172 | 194, 648 | 99, 320 |
| Type and type metal | 7, 793, 843 | 1, 896, 568 | 9, 974, 777 | 2, 613, 598 |
| Die casting alloys | 11, 432, 921 ² | 1, 785, 823 ² | 12, 267, 906 | 2, 036, 482 |
| Zinc alloys, not elsewhere specified | 650, 355 | 112, 755 | 856, 862 | 156, 544 |
| Other non-ferrous alloys | — | 191, 825 | — | 394, 431 |
| Castings: | | | | |
| Die castings: | | | | |
| Of aluminum-base alloy | 1, 695, 845 | 1, 321, 455 | 2, 067, 712 | 1, 601, 359 |
| Of zinc-base alloy | 16, 326, 320 ² | 8, 879, 981 ² | 16, 532, 747 | 8, 450, 825 |
| Of other metal base | 103, 708 | 69, 453 | 131, 831 | 91, 676 |
| Other castings: | | | | |
| Lead | 521, 642 | 161, 243 | 707, 005 | 202, 553 |
| Other (aluminum, magnesium, zinc, etc.) | — | 3, 151, 321 | — | 2, 564, 649 |
| Lead products: | | | | |
| Pipe | 2, 889, 346 | 661, 491 | 3, 131, 767 | 764, 570 |
| Sheets | 5, 729, 644 | 1, 134, 747 | 4, 818, 263 | 1, 052, 360 |
| Traps and fittings | 2, 510, 646 | 1, 078, 040 | 2, 393, 973 | 1, 027, 743 |
| Miscellaneous, including bullet wire, shot, etc. .. | — | 1, 146, 411 | — | 1, 054, 700 |
| All other products ¹ | — | 15, 137, 862 | — | 15, 039, 347 |
| Total | — | 62, 505, 196 | — | 62, 515, 219 |

1. Includes commodities which were made by only one or two firms in this industry, such as metal foil, collapsible tubes, lead oxides, etc.

2. Revised.

TABLE 4. Materials Used in the White Metal Alloys Industry, 1955 and 1956

| Material | 1955 | | 1956 | |
|---|-----------------|-------------------|------------|-------------------|
| | Quantity | Cost at plant | Quantity | Cost at plant |
| | | \$ | | \$ |
| Metals (other than scrap): | | | | |
| Aluminum: | | | | |
| Ingots: | | | | |
| Primary or virgin | lb. 5,813,788 | 1,266,471 | 6,017,606 | 1,471,855 |
| Secondary (from scrap) | " 1,306,966 | 287,164 | 1,372,923 | 307,039 |
| Other forms | " 4,119,519 | 1,711,942 | 4,962,704 | 2,134,394 |
| Antimony | lb. 1,500,574 | 385,006 | 1,518,212 | 364,754 |
| Arsenic (elemental and oxide) | lb. 95,462 | 7,958 | 90,454 | 9,007 |
| Bismuth | " 35,846 | 80,598 | 38,571 | 83,886 |
| Brass, and bronze, all forms | " 846,089 | 310,152 | 1,831,494 | 524,701 |
| Cadmium | " 13,579 | 22,531 | 13,486 | 21,511 |
| Copper ingots and slabs: | | | | |
| Primary or virgin | lb. 122,629 | 43,072 | 171,363 | 53,256 |
| Secondary (from scrap) | " 762,345 | 343,020 | 762,369 | 342,129 |
| Die casting alloys | lb. 7,877,257 | 1,162,014 | 8,191,504 | 1,403,002 |
| Lead, pig: | | | | |
| Pure: | | | | |
| Primary or virgin | lb. 44,258,194 | 6,281,726 | 41,118,662 | 6,253,019 |
| Secondary (from scrap) | " 1,543,600 | 201,369 | 1,689,377 | 233,478 |
| Antimonial: | | | | |
| Primary | lb. 2,796,216 | 439,827 | 3,023,583 | 487,065 |
| Secondary (from scrap) | " — | — | 452,850 | 68,060 |
| Magnesium | lb. 605,658 | 261,979 | 841,238 | 307,704 |
| Manganese metal | " 9,006 | 3,280 | 16,017 | 7,734 |
| Nickel | " 73,803 | 47,295 | 84,822 | 56,305 |
| Silicon metal | " 307,090 | 61,775 | 222,138 | 49,263 |
| Silver, fine | troy oz. 17,837 | 16,513 | 12,910 | 11,926 |
| Tellurium | lb. 740 | 1,369 | 1,202 | 2,300 |
| Tin, pig: | | | | |
| Primary or virgin | lb. 4,280,673 | 4,008,329 | 4,108,599 | 4,009,214 |
| Secondary (from scrap) | " 16,119 | 13,677 | 11,796 | 11,076 |
| Zinc slabs, bars and ingots: | | | | |
| Primary or virgin | lb. 18,139,887 | 2,497,295 | 17,690,523 | 2,657,799 |
| Secondary (from scrap) | " 4,361,867 | 617,078 | 4,629,287 | 602,809 |
| Other metals, except scrap, but including alloys .. | lb. 838,967 | 239,954 | 1,647,456 | 407,280 |
| Scrap metals of all kinds: | | | | |
| Aluminum | lb. 12,024,407 | 2,199,301 | 12,441,375 | 2,136,901 |
| Babbitt | " 2,608,843 | 477,025 | 3,403,943 | 698,971 |
| Brass and bronze | " 9,998,137 | 2,478,263 | 8,436,558 | 2,051,688 |
| Copper | " 3,761,708 | 1,238,235 | 3,711,813 | 1,144,103 |
| Lead: | | | | |
| Battery plates and lugs | lb. 43,744,774 | 3,371,689 | 47,258,270 | 4,068,871 |
| Dross | " 4,443,998 | 411,168 | 3,531,180 | 391,430 |
| Other | " 13,995,879 | 1,833,969 | 13,237,726 | 2,177,951 |
| Magnesium | lb. 241,408 | 10,185 | 249,498 | 12,805 |
| Solder | " 1,571,100 | 361,944 | 1,471,617 | 348,433 |
| Tin | " 78,387 | 47,478 | 90,151 | 57,034 |
| Type metal | " 6,746,481 | 1,219,143 | 4,301,840 | 806,896 |
| Zinc | " 2,471,680 | 174,779 | 2,283,380 | 168,183 |
| Zinc dross | " 6,160,639 | 481,843 | 3,891,811 | 452,796 |
| Other scrap, including scrap unspecified by kind .. | " 924,345 | 141,838 | 1,996,170 | 347,982 |
| Shipping containers | — | 200,646 | — | 300,882 |
| All other materials | — | 3,140,292 | — | 4,544,835 |
| Total | — | 38,099,192 | — | 41,590,230 |

TABLE 5. Production¹ of Babbitt, Solders, Type and Type Metal, 1947-1956 (From all industries)

| Year | Babbitt metal | | Solders of all kinds | | Type and type metal | |
|------------|---------------|------------------------|----------------------|------------------------|---------------------|------------------------|
| | Quantity | Selling value at works | Quantity | Selling value at works | Quantity | Selling value at works |
| | lb. | \$ | lb. | \$ | lb. | \$ |
| 1947 | 6,511,921 | 1,961,280 | 10,133,577 | 3,104,615 | 7,761,863 | 1,376,819 |
| 1948 | 5,496,104 | 1,840,169 | 10,430,048 | 4,511,781 | 8,601,466 | 1,824,902 |
| 1949 | 3,630,232 | 1,278,156 | 9,473,573 | 4,412,506 | 7,812,131 | 1,768,424 |
| 1950 | 4,202,607 | 1,634,590 | 12,897,001 | 6,009,587 | 9,129,748 | 2,157,457 |
| 1951 | 4,061,472 | 2,237,717 | 11,873,951 | 7,409,623 | 8,592,650 | 2,377,489 |
| 1952 | 2,810,857 | 1,358,063 | 11,734,509 | 5,674,938 | 7,559,473 | 2,065,443 |
| 1953 | 2,879,263 | 1,163,773 | 11,242,213 | 5,037,584 | 6,320,532 | 1,724,230 |
| 1954 | 2,036,194 | 904,776 | 10,356,093 | 4,591,640 | 8,149,079 | 1,732,508 |
| 1955 | 2,343,000 | 1,207,000 | 12,814,000 | 5,764,000 | 7,794,000 | 1,897,000 |
| 1956 | 2,963,000 | 1,194,000 | 12,937,000 | 6,036,000 | 9,975,000 | 2,614,000 |

1. Factory shipments since 1952.

TABLE 6. Principal Statistics of the White Metal Alloys Industry, Classified According to Type of Ownership, 1955 and 1956

| Type | Estab-lish-ments | Employees | Salaries and wages | Cost at plant of materials used | Selling value of factory shipments |
|------------------------------|------------------|--------------|--------------------|---------------------------------|------------------------------------|
| | No. | No. | \$ | \$ | \$ |
| 1955 | | | | | |
| Individual ownership | 6 | 51 | 133,765 | 180,530 | 419,944 |
| Partnerships | 4 | 23 | 75,962 | 120,574 | 220,253 |
| Incorporated companies | 50 | 3,028 | 10,236,425 | 37,798,088 | 61,864,999 |
| Total | 60 | 3,102 | 10,496,152 | 38,099,192 | 62,505,196 |
| 1956 | | | | | |
| Individual ownership | 3 | 34 | 97,452 | 177,534 | 326,968 |
| Partnerships | 3 | 47 | 104,359 | 205,635 | 359,298 |
| Incorporated companies | 52 | 3,118 | 11,222,232 | 41,207,061 | 61,828,953 |
| Total | 58 | 3,199 | 11,424,043 | 41,590,230 | 62,515,219 |

TABLE 7. Principal Statistics of the White Metal Alloys Industry in Canada, Grouped According to Size of Establishment, 1955 and 1956

| Establishments reporting value of factory shipments | Estab-lish-ments | Employees | Salaries and wages | Cost at plant of materials used | Selling value of factory shipments |
|---|------------------|--------------|--------------------|---------------------------------|------------------------------------|
| | No. | No. | \$ | \$ | \$ |
| 1955 | | | | | |
| Under \$25,000 | 5 | 15 | 29,724 | 38,313 | 90,564 |
| \$25,000 to \$49,999 | 4 | 20 | 64,227 | 42,932 | 173,935 |
| \$50,000 to \$99,999 | 7 | 61 | 163,924 | 250,332 | 487,306 |
| \$100,000 to \$199,999 | 13 | 147 | 470,395 | 944,678 | 1,802,023 |
| \$200,000 to \$499,999 | 8 | 141 | 423,915 | 1,542,064 | 2,336,851 |
| \$500,000 to \$999,999 | 6 | 246 | 837,340 | 2,760,923 | 4,397,813 |
| \$1,000,000 to \$4,999,999 | 15 | 2,472 | 8,506,127 | 32,519,450 | 53,216,654 |
| \$5,000,000 and over | 2 | | | | |
| Total | 60 | 3,102 | 10,496,152 | 38,099,192 | 62,505,196 |
| 1956 | | | | | |
| Under \$25,000 | — | — | — | — | — |
| \$25,000 to \$49,999 | 6 | 41 | 85,326 | 97,206 | 220,413 |
| \$50,000 to \$99,999 | 5 | 36 | 115,919 | 122,310 | 330,812 |
| \$100,000 to \$199,999 | 14 | 155 | 457,233 | 1,050,493 | 1,931,248 |
| \$200,000 to \$499,999 | 10 | 186 | 630,105 | 1,651,300 | 2,765,975 |
| \$500,000 to \$999,999 | 5 | 140 | 507,416 | 2,471,407 | 3,648,784 |
| \$1,000,000 to \$4,999,999 | 16 | 2,641 | 9,628,044 | 36,197,509 | 53,617,987 |
| \$5,000,000 and over | 2 | | | | |
| Total | 58 | 3,199 | 11,424,043 | 41,590,230 | 62,515,219 |

TABLE 8. Employees and Their Earnings in the White Metal Alloys Industry, by Provinces, 1955 and 1956

| Province | Number of employees | | | | | Earnings | | |
|------------------------------------|------------------------|------------|--------------------|------------|--------------|------------------------|--------------------|-------------------|
| | Office and supervisory | | Production workers | | Total | Office and supervisory | Production workers | Total |
| | Male | Female | Male | Female | | | | |
| | | | | | | \$ | \$ | \$ |
| 1955 | | | | | | | | |
| Quebec | 93 | 21 | 308 | 25 | 447 | 401,908 | 1,110,619 | 1,512,527 |
| Ontario | 360 | 141 | 1,497 | 481 | 2,479 | 2,488,551 | 5,970,177 | 8,458,728 |
| Manitoba | 14 | 7 | 54 | 1 | 76 | 70,209 | 127,580 | 197,789 |
| Alberta and British Columbia | 25 | 12 | 63 | — | 100 | 133,101 | 194,007 | 327,108 |
| Canada | 492 | 181 | 1,922 | 507 | 3,102 | 3,093,769 | 7,402,383 | 10,496,152 |
| 1956 | | | | | | | | |
| Quebec | 79 | 25 | 355 | 30 | 489 | 453,838 | 1,380,860 | 1,834,698 |
| Ontario | 373 | 144 | 1,535 | 487 | 2,539 | 2,519,917 | 6,499,829 | 9,019,746 |
| Manitoba | 15 | 8 | 50 | 3 | 76 | 79,973 | 139,617 | 219,590 |
| Alberta and British Columbia | 25 | 12 | 57 | 1 | 95 | 144,913 | 205,096 | 350,009 |
| Canada | 492 | 189 | 1,997 | 521 | 3,199 | 3,198,641 | 8,225,402 | 11,424,043 |

TABLE 9. Production Workers, by Months, 1955 and 1956

| Month | 1955 | | | 1956 | | |
|----------------------|--------------|------------|--------------|--------------|------------|--------------|
| | Male | Female | Total | Male | Female | Total |
| | Number | | | | | |
| January | 1,851 | 486 | 2,337 | 1,951 | 544 | 2,495 |
| February | 1,873 | 487 | 2,360 | 1,968 | 547 | 2,515 |
| March | 1,866 | 478 | 2,544 | 2,046 | 572 | 2,618 |
| April | 1,924 | 477 | 2,401 | 2,073 | 559 | 2,632 |
| May | 1,846 | 492 | 2,338 | 2,117 | 572 | 2,689 |
| June | 1,884 | 501 | 2,385 | 1,926 | 541 | 2,467 |
| July | 1,874 | 469 | 2,343 | 1,850 | 377 | 2,227 |
| August | 1,929 | 496 | 2,425 | 2,027 | 532 | 2,559 |
| September | 1,965 | 562 | 2,527 | 2,043 | 532 | 2,575 |
| October | 2,014 | 560 | 2,574 | 2,050 | 566 | 2,616 |
| November | 2,018 | 576 | 2,594 | 1,990 | 567 | 2,557 |
| December | 2,004 | 546 | 2,550 | 1,906 | 536 | 2,442 |
| Average | 1,922 | 507 | 2,429 | 1,996 | 537 | 2,533 |

TABLE 10. Capital and Repair Expenditures in the White Metal Alloys Industry, 1952-1956

| Year | Capital expenditures | | Sub-total | Repair and maintenance expenditures | | Sub-total | Total capital and repair expenditures |
|-------------------------|----------------------|-------------------------|-----------|-------------------------------------|-------------------------|-----------|---------------------------------------|
| | Con-struction | Machinery and equipment | | Con-struction | Machinery and equipment | | |
| | \$'000 | | | | | | |
| 1952 | 712 | 695 | 1,407 | 111 | 624 | 735 | 2,142 |
| 1953 | 2,514 | 986 | 3,500 | 112 | 604 | 716 | 4,216 |
| 1953 | 74 | 920 | 994 | 149 | 709 | 858 | 1,852 |
| 1955 | 616 | 1,033 | 1,649 | 96 | 739 | 835 | 2,484 |
| 1956 ¹ | 139 | 1,025 | 1,164 | 71 | 935 | 1,006 | 2,170 |

1. Preliminary.

TABLE 11. Imports of Lead, Tin and Zinc and Their Products, 1955 and 1956

| Item | 1955 | | 1956 | | |
|--|----------|-----------|-----------|-----------|-----------|
| | Quantity | Value | Quantity | Value | |
| | | \$ | | \$ | |
| Lead and its products: | | | | | |
| Lead in pigs and blocks | lb. | 195,337 | 30,883 | 209,444 | 37,790 |
| Lead, old and scrap | " | 107,244 | 5,632 | 122,453 | 6,088 |
| Lead in bars and sheets | " | 135,713 | 21,498 | 150,803 | 29,680 |
| Lead pipe | lb. | — | — | 2,221 | 512 |
| Lead capsules for bottles | — | — | 59,935 | — | 79,468 |
| Shot and bullets, lead | lb. | 1,917 | 646 | 7,053 | 6,182 |
| Manufactures of lead, n.o.p. | — | — | 191,090 | — | 275,020 |
| Tin and its products: | | | | | |
| Tin in blocks, pigs or bars | cwt. | 96,713 | 8,813,544 | 84,531 | 8,194,367 |
| Tin foil | lb. | 36,505 | 41,118 | 15,469 | 17,643 |
| Collapsible tubes | — | — | 92,696 | — | 126,289 |
| Zinc and its products: | | | | | |
| Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p. | cwt. | 997 | 27,928 | 1,522 | 42,934 |
| Zinc strip and sheets and zinc plates for marine boilers.... | " | 36,826 | 788,994 | 32,292 | 765,392 |
| Zinc dust | " | 8,389 | 127,357 | 9,821 | 154,031 |
| Zinc slugs for discs, for the manufacture of seamless cups or shells for electric dry batteries | — | — | 346,078 | — | 317,595 |
| Zinc, manufactures of, n.o.p. | — | — | 2,108,492 | — | 2,464,058 |
| Alloys, n.o.p.: | | | | | |
| Babbitt metal in blocks, bars, plates and sheets | cwt. | 430 | 34,559 | 401 | 32,174 |
| Britannia metal, manufactures of, not plated | — | — | 25,527 | — | 34,639 |
| Chromium metal and tungsten metal, in lumps, powder, ingots, blocks or bars and scrap of alloy metal containing chromium and tungsten, for alloying purposes | lb. | 575,489 | 731,347 | 152,798 | 484,633 |
| Metal alloy slugs, cast, with diamonds or diamond clips embedded therein, as for the mould, and metal alloy strip | — | — | 18,237 | — | 33,883 |
| Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire..... | lb. | 1,053,714 | 795,285 | 1,818,319 | 1,345,837 |
| Alloys of copper | — | — | 337,591 | — | 501,893 |
| Alloys of magnesium | — | — | 186,034 | — | 366,837 |
| Type and type metal: | | | | | |
| Type metal, in blocks, bars, plates and sheets..... | lb. | 732 | 595 | 560 | 272 |
| Type for printing, including chases, quoins and slugs of all kinds | — | — | 172,294 | — | 229,730 |

TABLE 12. Exports of Lead and Zinc and Their Products, 1955 and 1956

| Item | 1955 | | 1956 | | |
|----------------------------------|----------|-----------|------------|-----------|------------|
| | Quantity | Value | Quantity | Value | |
| | | \$ | | \$ | |
| Lead in pigs, refined lead..... | cwt. | 1,854,085 | 22,078,426 | 1,592,665 | 21,451,906 |
| Lead scrap..... | " | 12,531 | 80,686 | 3,238 | 25,514 |
| Lead pipe and tubing | " | 442 | 8,851 | 419 | 8,766 |
| Lead manufactures | — | — | 14,899 | — | 12,218 |
| Zinc spelter | cwt. | 4,276,737 | 47,107,303 | 3,674,560 | 47,013,213 |
| Zinc scrap, dross and ashes..... | " | 109,312 | 462,214 | 109,327 | 512,854 |
| Zinc, manufactures of | — | — | 162,188 | — | 221,441 |

TABLE 13. Fuel and Electricity Used in the White Metal Alloys Industry, 1956¹

| Kind | Unit of measure | Quantity | Cost at works |
|---|-----------------|------------|----------------|
| | | | \$ |
| Bituminous coal (a) From Canadian mines | ton | 297 | 4,123 |
| (b) Imported | " | 1,525 | 24,145 |
| Anthracite coal | " | 916 | 13,616 |
| Coke | " | 1,197 | 27,772 |
| Gasoline (including gasoline used in cars and trucks) | imp. gal. | 157,807 | 64,066 |
| Kerosene | " | 28,531 | 5,548 |
| Fuel oil | " | 2,592,879 | 361,927 |
| Gas (a) Liquefied petroleum gases | " | 145,860 | 28,448 |
| (b) Other manufactured gas | 1,000 cu. ft. | 88,988 | 88,451 |
| (c) Natural gas | " | 103,886 | 98,461 |
| Other fuel | - | - | 5,697 |
| Electricity purchased | kwh. | 24,414,060 | 253,137 |
| Total | - | - | 975,391 |

1. Last collected in this detail in 1953.

Directory of Firms in the White Metal Alloys Industry, 1956

| Name of firm | Location of plant |
|---|---------------------------------------|
| Quebec: | |
| Associated Printers Supply Co. | 1433 Wellington St., Montreal |
| Canada Metal Company Limited, The | 6265 Notre Dame St. E., Montreal |
| Eagle Smelting & Refining Works Limited | 1095 Smith St., Montreal |
| Eastern Die Casting Co. Reg'd. | 975 Decarie Blvd., Ville St. Laurent |
| Federated Metals Canada Ltd. | 1400 Norman St., Lachine |
| Industrie Leadco, Limitée | 5889 des Erables St., Montreal |
| Lawson Machine Works Ltd. | 5019 Buchan, Montreal |
| Liberty Smelting Works Ltd. | 269 Prince St., Montreal |
| Metals & Alloys, (Quebec) Limited | 1611 Bercy St., Montreal |
| Montebello Metal Ltd. | Montebello |
| Montreal Materials Processing Co. Ltd. | 5270 Arnoldi St., Montreal |
| Ouellette, O. J., Co. | 270 Vitre Est, Montreal |
| Richler, Michael | 846 William St., Montreal |
| Richmond Machine Tool & Die Casting Co. Ltd. | 165 St-Zotique W., Montreal |
| Riverside Smelting & Refining Works, Ltd. | 639 Farm St., Montreal |
| Standard Metal Co. Inc. | 536 Dollard, Ville Lasalle |
| Steel Company of Canada, Limited, The | 2320 Notre Dame St. W., Montreal |
| Ontario: | |
| Barber Die Casting Co. Limited | Cor. Hillyard & Munroe Sts., Hamilton |
| Binkley, T., Die Casting Co. | 175 Samuelson St., Galt |
| Brant Magnesium Co. Ltd. | 80 Brant St., Hamilton |
| Cametoid Ltd. | Ajax |
| Canada Foils Limited | 1891 Eglinton Ave. E., Toronto |
| Canada Metal Co. Ltd., The | 721 Eastern Ave., Toronto |

Directory of Firms in the White Metal Alloys Industry, 1956 - Concluded

| Name of firm | Location of plant |
|--|-----------------------------------|
| Ontario - Concluded: | |
| Canadian Magnesium Products Ltd. | Preston |
| Cohen, I., & Co. Ltd. | 594 Montreal St., Kingston |
| Cramco Alloy Sales | 190 Eastern Ave., Toronto |
| Dominion & Monarch Type Ltd. | 34 Mercer, Toronto |
| Dominion Die Casting Ltd. | Heinz St., Wallaceburg |
| Dundas Die Casters Ltd. | James St., Dundas |
| Federated Metals Canada Ltd. | 1110 Birchmont Rd., Scarboro |
| General Impact Extrusions Ltd. | 43 Drummond St., Toronto |
| General Smelting Company of Canada, Ltd. | Wilcox St., Hamilton |
| Grenville Castings Limited | Merrickville |
| Hewitt Metals Corporation, Limited | 1554 McDougall Ave. E., Windsor |
| Kester Solder Company of Canada Limited | 51 Bruce St., Brantford |
| Lakeshore Die Casting Ltd. | Queen Elizabeth Highway, Oakville |
| Last Minute Mfg. Co. Ltd. | Wellington St. N., Thorold |
| Light Alloys Limited | Haley |
| Lintet Metal Industries Limited | 21 Argyle St., Renfrew |
| Metals & Alloys Limited | Wicksteed Ave., Leaside, Toronto |
| Modern Containers Limited | 1190 Birchmont Rd., Scarborough |
| Moore Type Foundry Limited | 431 King St. W., Toronto |
| Newburg Die Castings | 29A Birch Ave., Toronto |
| Pressure Castings of Canada Limited | 67 Main St. S., Weston |
| Pressure W. M.D. Castings Co. Ltd. | 112 Ossington Ave., Toronto |
| Prince & Smith Type Foundry | 113 St. Patrick St., Toronto |
| Schultz Die Casting Co. of Canada Limited | Wallaceburg |
| Standard Metal Co. | Rear 32 Sullivan, Toronto |
| Sun Tube of Canada Ltd. | 145 Spruce St., Ottawa |
| Toronto Refiners & Smelters Ltd. | 28 Bathurst St., Toronto |
| Manitoba: | |
| Canada Metal Company Limited, The | 1255 St. James St., Winnipeg |
| Diecast Products Ltd. | 1085 Winnipeg Ave., Winnipeg |
| Union Metal Company Limited, The | 654 McGee St., Winnipeg |
| Alberta: | |
| Canada Metal Company Ltd., The | 5524 - 4th St. S.E., Calgary |
| British Columbia: | |
| Canadian Lead & Alloys Ltd. | 5840 Douglas Road, North Burnaby |
| Canada Metal Company Limited, The | 1428 Granville St., Vancouver |
| Metal Distributors Ltd. | 1416 Franklin St., Vancouver |
| Metalex Ltd. | 251 - No. 5 Rd., Vancouver |

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