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# THE WHITE METAL ALLOYS INDUSTRY

# 1958

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## PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Non-ferrous Metal Products** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

**A — Annual** **M — Monthly** **Q — Quarterly**

| Catalogue number | Title | Price |
|---|---|---|
| 41-202 | Non-ferrous Metal Products — General Review (A) | .50 |
| 41-204 | The Aluminum Products Industry (A) | .50 |
| 41-206 | The Brass and Copper Products Industry (A) | .50 |
| 41-215 | The White Metal Alloys Industry (A) | .50 |
| 41-211 | The Jewellery and Silverware Industry (A) | .50 |
| 41-214 | The Smelting and Refining Industry (A) | .50 |
| 41-218 | The Miscellaneous Non-ferrous Metal Products Industry (A) | .25 |

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|---|---|---|---|
| 41-007 | Non-ferrous Scrap Metal and Secondary Non-ferrous Ingot (Q) | per year | 1.00 |
| 31-201 | General Review of the Manufacturing Industries (A) | | 2.00 |
| 31-001 | Inventories, Shipments and Orders in Manufacturing Industries (M) | per year | 4.00 |
| 65-004 | Trade of Canada — Exports (M) | per year | 7.50 |
| 65-007 | Trade of Canada — Imports (M) | per year | 7.50 |

*Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.*

# EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1958, are as follows:

**Period Covered**

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

**Establishment**

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in **repair** work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

**Employees**

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

**Salaries and Wages**

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

**Cost of Fuel and Electricity**

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

**Materials and Supplies Used**

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies

for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

**Factory Shipments**

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

**Inventories**

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

**Value Added by Manufacturing**

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.[1]

**Standard Industrial Classification**

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

**Short Forms**

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detail. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at $50,000 gross value of shipments annually, but there were lower cut-offs for a number of industries in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

[1] To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61—202, *Survey of Production.*

**SYMBOLS**

The interpretation of the symbols used in the tables throughout this publication is as follows:

.. figures not available.
... figures not appropriate or not applicable.
— nil or zero.
r revised figures.

# THE WHITE METAL ALLOYS INDUSTRY

## 1958

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.

Sixty-four factories reported in this group in 1958 and the value of their output was $50,177,719, a decline of 11.9 per cent from the $56,969,191 reported in 1957.

Of the total output during the year under review 73.6 per cent came from the 39 plants in Ontario, 17.7 per cent from the 17 plants in Quebec and the remaining 8.7 per cent from the 8 plants located in Manitoba, Alberta and British Columbia.

Employment was afforded to a total of 2,825 people, including 630 on salaries and 2,195 on wages. Salaries for the year amounted to $3,332,713 and wages to $7,243,362, a total of $10,576,075. In the previous year the 3,154 workers were paid $11,258,160.

Materials used in manufacturing, exclusive of fuel and electricity, cost $30,305,392 delivered at the works. Included in these materials, were 58,234 tons of scrap metals at $11,414,634; 15,414 tons of pig lead at $3,580,342; 1,737 tons of pig tin at $3,221,510; 5,088 tons of aluminum at $3,132,924; 10,000 tons of zinc spelter at $2,261,319 and other metals at $6,694,663.

Factory shipments included refined metals (recovered from scrap) valued at $10,475,607; 5,717 tons of solders at $5,032,979; 3,459 tons of type and type metal at $2,373,043; 792 tons of babbit metal at $763,846, die castings at $7,523,576; 1,184 tons of lead pipe at $530,802; 2,858 tons of lead sheet at $1,246,004 and other lines, such as metal foil, moulded shot, collapsible tubes, etc.

**Note**: 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 factory 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" was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

**TABLE 1. Principal Statistics of the White Metal Alloys Industry, Significant Years 1929-58 and by Provinces, 1957 and 1958**

| Year and province | Establishments | Employees | 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] |
|---|---|---|---|---|---|---|---|
| | number | | dollars | | | | |
| 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 |
| 1954 | 56 | 3,303 | 10,444,634 | 795,903 | 29,671,943 | 19,892,113 | 49,823,446 |
| 1955 | 60 | 3,102 | 10,496,152 | 852,309 | 38,099,192 | 24,384,056 | 62,505,196 |
| 1956 | 58 | 3,199 | 11,424,043 | 975,391 | 41,590,230 | 20,180,300 | 62,515,219 |
| 1957 | | | | | | | |
| Quebec | 19 | 489 | 1,917,132 | 138,094 | 7,851,094 | 2,924,360 | 10,818,553 |
| Ontario | 34 | 2,502 | 8,755,798 | 790,408 | 26,720,628 | 13,873,554 | 41,604,233 |
| Manitoba | 3 | 77 | 237,229 | 48,832 | 1,476,373 | 425,389 | 2,067,534 |
| Alberta | 1 | 86 | 348,001 | 31,103 | 1,686,080 | 632,753 | 2,478,871 |
| British Columbia | 4 | | | | | | |
| **Canada** | **61** | **3,154** | **11,258,160** | **1,008,437** | **37,734,175** | **17,856,056** | **56,969,191** |
| 1958 | | | | | | | |
| Quebec | 17 | 461 | 1,668,587 | 137,298 | 6,034,797 | 2,584,284 | 8,862,029 |
| Ontario | 39 | 2,208 | 8,303,441 | 779,878 | 21,751,867 | 14,150,797 | 36,955,605 |
| Manitoba | 3 | 77 | 249,231 | 48,895 | 1,304,572 | 618,913 | 1,960,706 |
| Alberta | 1 | 79 | 354,816 | 32,129 | 1,214,156 | 1,151,715 | 2,399,379 |
| British Columbia | 4 | | | | | | |
| **Canada** | **64** | **2,825** | **10,576,075** | **998,200** | **30,305,392** | **18,505,709** | **50,177,719** |

[1] See note 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. Inventories,[1] 1958**

| | Raw materials and supplies | Goods in process | Finished goods of own manufacture | Total |
|---|---|---|---|---|
| | dollars | | | |
| Opening: | | | | |
| Quebec | 677,992 | 194,280 | 698,315 | 1,570,587 |
| Ontario | 2,520,232 | 927,883 | 2,269,530 | 5,717,645 |
| Other provinces | 367,797 | 69,218 | 271,609 | 708,624 |
| **Canada** | **3,566,021** | **1,191,381** | **3,239,454** | **7,996,856** |
| Closing: | | | | |
| Quebec | 738,335 | 128,583 | 658,362 | 1,525,280 |
| Ontario | 3,405,440 | 794,421 | 2,129,929 | 6,329,790 |
| Other provinces | 368,919 | 67,422 | 283,700 | 720,041 |
| **Canada** | **4,512,694** | **990,426** | **3,071,991** | **8,575,111** |

[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 1958 does not necessarily agree with the closing inventory for 1957, 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, 1957 and 1958**

| Product | 1957 | | 1958 | |
|---|---|---|---|---|
| | Quantity | Value of factory shipments | Quantity | Value of factory shipments |
| | lb. | $ | lb. | $ |
| **Refined metals (reclaimed or remelted):** | | | | |
| Aluminum | 14,269,937 | 3,079,749 | 10,897,692 | 3,292,981 |
| Lead (antimonial) | 40,218,121 | 6,158,543 | 34,454,824 | 4,124,700 |
| Lead (common) | 13,723,522 | 2,090,432 | 15,803,220 | 2,039,639 |
| Tin | 75,531 | 73,081 | 272,294 | 277,348 |
| Zinc | 5,642,354 | 660,905 | 5,840,892 | 602,701 |
| Other metals | .. | 105,634 | .. | 138,238 |
| **Alloys:** | | | | |
| Babbitt | 2,015,385 | 957,371 | 1,594,628 | 763,846 |
| Brass and bronze ingots | 9,788,992 | 2,642,278 | 6,903,398 | 1,715,236 |
| Copper alloys, not elsewhere specified | 1,843,316 | 546,851 | 2,650,407 | 696,614 |
| Lead alloys, not elsewhere specified | 1,191,200 | 269,236 | 801,252 | 98,462 |
| Solders | 11,953,925 | 5,868,549 | 11,435,046 | 5,032,979 |
| Tin alloys, not elsewhere specified | – | – | 364,812 | 140,567 |
| Type and type metal | 9,085,807 | 2,698,302 | 6,918,290 | 2,373,043 |
| Die casting alloys | 10,527,122 | 1,613,252 | 11,188,908 | 1,553,126 |
| Zinc alloys, not elsewhere specified | 879,625 | 151,669 | 990,038 | 138,311 |
| Other non-ferrous alloys | .. | 354,754 | .. | 284,895 |
| **Castings:** | | | | |
| Die castings: | | | | |
| Of aluminum-base alloy | 1,781,297 | 1,245,982 | 2,327,269 | 1,453,548 |
| Of zinc-base alloy | 15,561,010 | 7,222,947 | 14,379,489 | 6,017,214 |
| Of other metal base | 74,225 | 42,001 | 83,927 | 52,814 |
| Other castings | .. | 2,187,587[r] | .. | 1,070,097 |
| **Lead products:** | | | | |
| Pipe | 3,417,087 | 690,941 | 2,368,422 | 530,802 |
| Sheets | 4,811,182 | 953,506 | 5,715,985 | 1,246,004 |
| Traps and fittings | 1,324,208 | 726,816 | 1,146,073 | 520,429 |
| Miscellaneous, including bullet wire, shot, etc. | .. | 1,089,179 | .. | 987,445 |
| All other products[1] | .. | 15,539,626[r] | .. | 15,026,680 |
| **Totals** | .. | **56,969,191** | .. | **50,177,719** |

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

**TABLE 4. Materials used in the White Metal Alloys Industry, 1957 and 1958**

| Material | | 1957 | | 1958 | |
|---|---|---|---|---|---|
| | | Quantity | Cost at plant | Quantity | Cost at plant |
| | | | $ | | $ |
| **Metals (other than scrap):** | | | | | |
| Aluminum: | | | | | |
| Ingots: | | | | | |
| Primary or virgin | lb. | 4,777,750 | 1,184,260 | 3,500,121 | 796,240 |
| Secondary (from scrap) | " | 793,204 | 190,628 | 1,591,850 | 331,068 |
| Other forms | " | 5,409,780 | 2,137,322 | 5,083,402 | 2,005,616 |
| Antimony | " | 1,429,374 | 318,353 | 922,279 | 196,735 |
| Arsenic (elemental and oxide) | " | 90,516 | 13,155 | 80,702 | 10,156 |
| Bismuth | " | 34,871 | 78,549 | 23,732 | 52,491 |
| Brass, and bronze, all forms | " | 822,643 | 325,118 | 751,115 | 213,060 |
| Cadmium | " | 9,625 | 12,281 | 3,406 | 5,692 |
| Copper ingots and slabs: | | | | | |
| Primary or virgin | " | 3,132 | 1,157 | 183,339 | 45,579 |
| Secondary (from scrap) | " | 90 | 14 | — | — |
| Die casting alloys | " | 7,920,727 | 1,249,919 | 6,827,768 | 898,749 |
| Lead, pig: | | | | | |
| Pure: | | | | | |
| Primary or virgin | " | 32,593,081 | 4,611,194 | 26,051,475 | 3,005,319 |
| Secondary (from scrap) | " | 2,921,869 | 378,193 | 2,302,531 | 226,530 |
| Antimonial: | | | | | |
| Primary | " | 2,905,090 | 411,785 | 2,266,459 | 301,673 |
| Secondary (from scrap) | " | 543,840 | 75,858 | 208,468 | 46,820 |
| Magnesium | " | 681,477 | 284,369 | 423,025 | 150,738 |
| Manganese metal | " | 30,618 | 14,649 | 19,222 | 8,114 |
| Nickel | " | 47,884 | 33,252 | 17,701 | 13,304 |
| Silicon metal | " | 557,569 | 121,040 | 402,051 | 80,852 |
| Silver, fine | troy oz. | 27,180 | 24,789 | 17,348 | 16,226 |
| Tellurium | lb. | 1,653 | 2,977 | 1,016 | 1,824 |
| Tin, pig: | | | | | |
| Primary or virgin | " | 3,643,060 | 3,423,651 | 3,473,965 | 3,221,224 |
| Secondary (from scrap) | " | 2,600 | 2,013 | 292 | 286 |
| Zinc slabs, bars and ingots: | | | | | |
| Primary or virgin | " | | | | |
| Secondary (from scrap) | " | 19,909,386 | 2,390,589 | 20,018,524 | 2,261,319 |
| Other metals, except scrap, but including alloys | " | 1,661,292 | 389,588 | 941,905 | 169,961 |
| **Scrap metals of all kinds:** | | | | | |
| Aluminum | " | 13,112,531 | 2,259,623 | 12,687,629 | 1,972,437 |
| Babbitt | " | 3,850,118 | 599,462 | 2,993,948 | 494,997 |
| Brass and bronze | " | 10,383,487 | 1,837,127 | 8,252,914 | 1,374,371 |
| Copper | " | 4,420,155 | 915,786 | 4,324,611 | 814,082 |
| Lead | " | 76,472,707 | 7,112,051 | 67,761,036 | 4,468,009 |
| Magnesium | " | 292,180 | 17,925 | 76,999 | 10,163 |
| Solder | " | 2,647,911 | 657,216 | 817,275 | 184,747 |
| Tin | " | 287,429 | 133,260 | 238,773 | 120,101 |
| Type metal | " | 4,435,150 | 773,805 | 7,503,134 | 1,313,122 |
| Zinc | " | 2,478,678 | 171,363 | 3,643,134 | 184,005 |
| Zinc dross | " | 8,468,937 | 458,269 | 6,342,375 | 294,189 |
| Other scrap, including scrap unspecified by kind | " | 751,001 | 84,494 | 1,826,510 | 184,411 |
| Shipping containers | | .. | 396,610 | .. | 375,585 |
| All other materials | | .. | 4,642,481 | .. | 4,455,297 |
| **Totals** | | .. | **37,734,175** | .. | **30,305,392** |

**TABLE 5. Production[1] of Babbitt, Solders, Type and Type Metal, 1949-58 (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. | $ |
| 1949 | 3,630,232 | 1,278,156 | 9,473,573 | 4,412,506 | 7,812,131 | 1,768,434 |
| 1950 | 4,202,607 | 1,634,590 | 12,897,001 | 6,009,587 | 9,129,748 | 2,157,457 |
| 1951 | 4,061,472 | 2,287,717 | 11,873,951 | 7,409,623 | 8,592,650 | 2,377,489 |
| 1952 | 2,810,857 | 1,358,068 | 11,734,509 | 5,674,938 | 7,559,473 | 2,065,443 |
| 1953 | 2,879,263 | 1,168,778 | 11,242,213 | 5,087,584 | 6,320,582 | 1,724,280 |
| 1954 | 2,036,194 | 904,776 | 10,356,093 | 4,591,640 | 8,149,079 | 1,732,508 |
| 1955 | 2,848,000 | 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 | 6,086,000 | 9,975,000 | 2,614,000 |
| 1957 | 2,176,000 | 1,047,000 | 11,994,000 | 5,890,000 | 9,086,000 | 2,698,000 |
| 1958 | 1,594,628 | 763,846 | 11,435,046 | 5,032,979 | 6,918,290 | 2,373,043 |

[1] Factory shipments since 1952.

**TABLE 6. Principal Statistics of the White Metal Alloys Industry, classified according to Type of Ownership, 1957 and 1958**

| Type | Establishments | Employees | Salaries and wages | Cost at plant of materials used | Selling value of factory shipments |
|---|---|---|---|---|---|
| | number | | dollars | | |
| 1957 | | | | | |
| Individual ownership | 4 | 35 | 92,928 | 135,832 | 237,141 |
| Partnerships | 4 | 45 | 114,409 | 219,753 | 382,966 |
| Incorporated companies | 53 | 3,074 | 11,050,823 | 37,378,590 | 56,349,084 |
| **Totals** | **61** | **3,154** | **11,258,160** | **37,734,175** | **56,969,191** |
| 1958 | | | | | |
| Individual ownership | 3 | 10 | 26,494 | 34,279 | 63,818 |
| Partnerships | 6 | 28 | 91,322 | 138,701 | 266,601 |
| Incorporated companies | 55 | 2,787 | 10,458,259 | 30,132,412 | 49,847,300 |
| **Totals** | **64** | **2,825** | **10,576,075** | **30,305,392** | **50,177,719** |

**TABLE 7. Principal Statistics of the White Metal Alloys Industry in Canada, grouped according to Value of Factory Shipments, 1957 and 1958**

| Establishments reporting value of factory shipments | Establishments | Employees | Salaries and wages | Cost at plant of materials used | Selling value of factory shipments |
|---|---|---|---|---|---|
| | number | | dollars | | |
| 1957 | | | | | |
| Under $25,000 | 4 | 12 | 27,527 | 22,289 | 71,137 |
| $25,000 to $49,999 | 7 | 31 | 104,516 | 102,089 | 240,415 |
| $50,000 " $99,999 | 3 | 27 | 84,347 | 138,066 | 254,463 |
| $100,000 " $199,999 | 14 | 142 | 505,012 | 971,096 | 1,877,832 |
| $200,000 " $499,999 | 11 | 223 | 667,487 | 1,663,511 | 2,830,977 |
| $500,000 " $999,999 | 4 | 150 | 588,698 | 1,896,194 | 3,087,346 |
| $1,000,000 " $4,999,999 | 16 | 2,550 | 9,216,819 | 32,940,930 | 48,607,021 |
| $5,000,000 and over | 2 | | | | |
| Head office | — | 19 | 63,754 | — | — |
| **Totals** | **61** | **3,154** | **11,258,160** | **37,734,175** | **56,969,191** |
| 1958 | | | | | |
| Under $25,000 | 8 | 33 | 81,213 | 40,752 | 135,447 |
| $25,000 to $49,999 | 4 | 15 | 40,853 | 83,556 | 128,788 |
| $50,000 " $99,999 | 7 | 67 | 240,513 | 253,367 | 545,801 |
| $100,000 " $199,999 | 14 | 130 | 426,275 | 1,298,080 | 2,007,698 |
| $200,000 " $499,999 | 9 | 217 | 699,962 | 1,214,067 | 2,514,985 |
| $500,000 " $999,999 | 7 | 447 | 1,540,382 | 2,414,541 | 5,077,272 |
| $1,000,000 " $4,999,999 | 13 | 1,916 | 7,546,877 | 25,001,029 | 39,767,728 |
| $5,000,000 and over | 2 | | | | |
| **Totals** | **64** | **2,825** | **10,576,075** | **30,305,392** | **50,177,719** |

**TABLE 8. Employees and their Earnings in the White Metal Alloys Industry, by Provinces, 1957 and 1958**

| Province | Employees | | | | | Earnings | | |
|---|---|---|---|---|---|---|---|---|
| | Office and supervisory | | Production workers | | Total | Office and supervisory | Production workers | Total |
| | Male | Female | Male | Female | | | | |
| | number | | | | | dollars | | |
| 1957 | | | | | | | | |
| Quebec | 82 | 28 | 349 | 30 | 489 | 535,688 | 1,381,444 | 1,917,132 |
| Ontario | 400 | 138 | 1,484 | 480 | 2,502 | 2,675,611 | 6,080,187 | 8,755,798 |
| Manitoba | 15 | 12 | 47 | 3 | 77 | 83,087 | 154,142 | 237,229 |
| Alberta and British Columbia | 20 | 10 | 56 | — | 86 | 135,399 | 212,602 | 348,001 |
| **Canada** | **517** | **188** | **1,936** | **513** | **3,154** | **3,429,785** | **7,828,375** | **11,258,160** |
| 1958 | | | | | | | | |
| Quebec | 87 | 25 | 301 | 48 | 461 | 547,121 | 1,121,466 | 1,668,587 |
| Ontario | 353 | 118 | 1,324 | 413 | 2,208 | 2,561,179 | 5,742,262 | 8,303,441 |
| Manitoba | 14 | 7 | 52 | 4 | 77 | 81,894 | 167,337 | 249,231 |
| Alberta and British Columbia | 17 | 9 | 53 | — | 79 | 142,519 | 212,297 | 354,816 |
| **Canada** | **471** | **159** | **1,730** | **465** | **2,825** | **3,332,713** | **7,243,362** | **10,576,075** |

TABLE 9. Production Workers by Months, 1958

| Month | Establishments reporting monthly detail[1] | | Establishments not reporting monthly detail[1] | | All establishments | | |
|---|---|---|---|---|---|---|---|
| | Male | Female | Male | Female | Male | Female | Total |
| | number | | | | | | |
| January | 1,727 | 526 | | | 1,727 | 526 | 2,253 |
| February | 1,686 | 519 | | | 1,686 | 519 | 2,205 |
| March | 1,698 | 520 | | | 1,698 | 520 | 2,218 |
| April | 1,677 | 482 | | | 1,677 | 482 | 2,159 |
| May | 1,681 | 462 | 36 | 4 | 1,717 | 466 | 2,183 |
| June | 1,690 | 445 | | | 1,690 | 445 | 2,135 |
| July | 1,662 | 430 | | | 1,662 | 430 | 2,092 |
| August | 1,678 | 436 | | | 1,678 | 436 | 2,114 |
| September | 1,694 | 442 | | | 1,694 | 442 | 2,136 |
| October | 1,690 | 434 | | | 1,690 | 434 | 2,124 |
| November | 1,716 | 487 | | | 1,716 | 487 | 2,203 |
| December | 1,697 | 484 | | | 1,697 | 484 | 2,181 |
| **Average[2]** | | | | | **1,730** | **465** | **2,195** |

[1] The number of production workers by months was generally collected only for establishments reporting value of shipments of $100,000 and over. For smaller establishments, only the number employed during the last pay period of May, 1958 was collected.

[2] The average for establishments generally reporting shipments of less than $100,000 was estimated by using average annual earnings data from the large establishments in conjunction with reported payrolls for the small establishments.

**TABLE 10. Capital and Repair Expenditures in the White Metal Alloys Industry, 1957 - 1958**

| Year | Capital expenditures | | Sub-total | Repair and maintenance expenditures | | Sub-total | Total capital and repair expenditures |
|---|---|---|---|---|---|---|---|
| | Construction | Machinery and equipment | | Construction | Machinery and equipment | | |
| | thousands of dollars | | | | | | |
| 1954 | 74 | 920 | 994 | 149 | 709 | 858 | 1,852 |
| 1955 | 616 | 1,033 | 1,649 | 96 | 739 | 835 | 2,484 |
| 1956 | 822 | 1,362 | 2,184 | 86 | 1,231 | 1,317 | 3,501 |
| 1957 | 315 | 1,083 | 1,398 | 91 | 860 | 951 | 2,349 |
| 1958 | 107 | 635 | 742 | 86 | 909 | 995 | 1,737 |

**Note**: Figures for the current year are preliminary.

**TABLE 11. Fuel and Electricity Used in the White Metal Alloys Industry, 1958**

| Kind | | Quantity | Cost at plant |
|---|---|---|---|
| | | | $ |
| 1. Establishments reporting commodity detail:[1] | | | |
| Bituminous coal (a) From Canadian mines | tons | 225 | 3,176 |
| (b) Imported | " | 803 | 11,947 |
| Anthracite coal | " | 1,782 | 26,821 |
| Coke (for fuel only) | " | 1,382 | 30,560 |
| Gasoline | Imp. gal. | 215,967 | 88,286 |
| Fuel oil including kerosene or coal oil | " | 2,018,603 | 285,842 |
| Gas (a) Liquefied petroleum gases (propane, etc.) | " | 100,838 | 22,509 |
| (b) Other manufactured gas | M cu. ft. | 130,225 | 51,269 |
| (c) Natural gas | " | 220,822 | 209,018 |
| Other fuel | | — | — |
| Electricity purchased | kwh. | 22,511,837 | 255,066 |
| **Totals** | | — | **984,494** |
| 2. Establishments not reporting commodity detail:[1] | | | |
| Total cost of fuel | | ... | 8,839 |
| Electricity purchased | | .. | 4,867 |
| 3. All establishments: | | | |
| Total cost of fuel | | ... | 738,267 |
| Total cost of electricity | | ... | 259,933 |
| Total cost of fuel and electricity | | ... | 998,200 |

[1] Data on the quantity and value of the different kinds of fuel and on the quantity of electricity purchased were generally not collected for establishments reporting value of shipments of less than $100,000. Only the total cost of fuel and the total cost of electricity were collected for these establishments.

**TABLE 12. Total Horsepower Rating of Power Equipment in Use or Available for Use at the End of 1958**

| Type of equipment | Not driving generators |
|---|---|
| | horsepower |
| A. Prime movers: | |
| Steam engines | 125 |
| B. Electric motors (one-quarter horsepower and over) | 10,717 |

**TABLE 13. Imports of Lead, Tin and Zinc and their Products, 1957 and 1958**

| Item | | 1957 | | 1958 | |
|---|---|---|---|---|---|
| | | Quantity | Value | Quantity | Value |
| | | | $ | | $ |
| **Lead and its products:** | | | | | |
| Lead in pigs and blocks | lb. | 3,014,204 | 378,854 | 3,335,350 | 301,129 |
| Lead, old and scrap | " | 164,473 | 7,456 | 243,828 | 10,952 |
| Lead in bars and sheets | " | 72,653 | 13,338 | 98,975 | 12,608 |
| Lead pipe | " | 11,383 | 1,863 | — | — |
| Lead capsules for bottles | | .. | 60,335 | .. | 40,001 |
| Shot and bullets, lead | lb. | 18,260 | 7,541 | — | — |
| Manufactures of lead, n.o.p. | | .. | 259,412 | .. | 243,540 |
| **Tin and its products:** | | | | | |
| Tin in blocks, pigs or bars | cwt. | 93,081 | 8,538,741 | 77,516 | 7,060,387 |
| Tinfoil | lb. | 16,260 | 16,580 | 20,969 | 23,097 |
| Collapsible tubes | | .. | 38,902 | .. | 53,377 |
| **Zinc and its products:** | | | | | |
| Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p. | cwt. | 860 | 18,234 | See below | |
| Zinc strip and sheets and zinc plates for marine boilers | " | 29,804 | 693,907 | | |
| Zinc pig, slabs, blocks, anodes | | .. | .. | 12,424 | 121,885 |
| Zinc bars, rods, plates, sheets | | .. | .. | 21,999 | 553,176 |
| Zinc dust | cwt. | 13,520 | 204,227 | 10,872 | 154,152 |
| Zinc slugs for discs, for the manufacture of seamless cups or shells for electric dry batteries | | .. | 194,965 | .. | 234,027 |
| Zinc, manufactures of, n.o.p. | | .. | 2,342,493 | .. | 2,184,964 |
| **Alloys, n.o.p.:** | | | | | |
| Babbitt metal in blocks, bars, plates and sheets | cwt. | 371 | 30,094 | 224 | 19,465 |
| Britannia metal, manufactures of, not plated | | .. | 26,421 | .. | 19,504 |
| 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. | 129,839 | 426,716 | 71,251 | 160,259 |
| Metal alloy slugs, cast, with diamonds or diamond clips embedded therein, as for the mould and metal alloy strip | | .. | 19,512 | .. | 14,298 |
| Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire | lb. | 1,315,077 | 867,974 | 1,553,083 | 878,524 |
| Alloys of copper | | .. | 364,938 | .. | 403,335 |
| Alloys of magnesium | | .. | 276,742 | .. | 255,768 |
| **Type and type metal:** | | | | | |
| Type metal, in blocks, bars, plates and sheets | lb. | 15,060 | 1,717 | — | — |
| Type for printing, including chases, quoins and slugs of all kinds | | .. | 213,050 | .. | 240,542 |

**TABLE 14. Exports of Lead and Zinc and their Products, 1957 and 1958**

| Item | | 1957 | | 1958 | |
|---|---|---|---|---|---|
| | | Quantity | Value | Quantity | Value |
| | | | $ | | $ |
| Lead in pigs, refined lead | cwt. | 1,690,820 | 18,862,323 | 1,847,014 | 15,376,517 |
| Lead scrap | " | 6,823 | 41,025 | 8,635 | 44,997 |
| Lead pipe and tubing | " | 544 | 12,798 | 116 | 2,631 |
| Lead manufactures | | .. | 22,720 | .. | 24,074 |
| Zinc spelter | cwt. | 4,040,135 | 43,481,140 | 3,914,157 | 33,427,794 |
| Zinc scrap, dross and ashes | " | 107,135 | 649,996 | 111,818 | 379,146 |
| Zinc, manufactures of | | .. | 196,910 | .. | 125,408 |

**Directory of Firms in the White Metal Alloys Industry, 1958**

| Name of firm | Location of plant |
|---|---|
| **Quebec:** | |
| Associated Printers Supply Co. | 988 St. James St., Montreal |
| Canada Metal Company Limited, The | 6265 Notre Dame St. E., Montreal |
| Dominion Joints | 5492 Blvd. Décarie, Montreal |
| Eagle Smelting & Refining Works Limited | 1095 Smith St., Montreal |
| Eastern Die Casting Co. Reg'd. | 975 Décarie Blvd., Ville St. Laurent |
| Federated Metals Canada Ltd. | 1400 Norman St., Lachine |
| Herlicon Metals & Plastics Inc. | 3815 Ruskin, Ville St. Michel |
| Kay Lead & Alloys Co. | 7929 Dante Ave., Ville St. Michel |
| Liberty Smelting Works Ltd. | 269 Prince St., Montreal |
| Metals & Alloys, (Quebec) Limited | 1611 Bercy St., Montreal |
| Montebello Metal Ltd. | Montebello |
| Ouellette, O.J., Co. | 270 Vitré Est, Montreal |
| Richler Metal Co. | 10244 Balzac Ave., Montreal |
| Richmond Machine Tool & Die Casting Co. Ltd. | 5680 Fullum St., 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:** | |
| Auto Die Casting & Engineering | Thora Ave., Toronto |
| Barber Die Casting Co. Limited | Hillyard St., Hamilton |
| Bernard, H. (Canada) Ltd. | 464 Queen St. East, Toronto |
| Binkley Die Castings Ltd. | 175 Samuelson Street, Galt |
| Brant Magnesium Co. Ltd. | 80 Brant St., Hamilton |
| Canada Foils Limited | 1891 Eglington Ave. E., Toronto |
| Canada Metal Co. Ltd., The | 721 Eastern Ave., Toronto |
| Canadian Magnesium Products Ltd. | 225 Concession Rd., Preston |
| Castcraft Mfg. Co. | 124 Manville Rd., Scarboro |
| Cohen, I., & Co. Ltd. | 594 Montreal St., Kingston |
| Cramco Alloy Sales | 80 Sinnott Rd., Scarborough |
| Dominion & Monarch Type Ltd. | 34 Mercer, Toronto |
| Dominion Die Casting Ltd. | Libby St., Wallaceburg |
| Dundas Die Casters Ltd. | James St., Dundas |
| E & S Quality Products | R.R. # 1, Cottam |
| 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 |
| Magline of Canada Ltd. | Highway 17, Renfrew |
| Mendler Mfg. Co. | Malden Rd., Sandwich West |
| Metals & Alloys Limited | Wicksteed Ave., Leaside, Toronto |
| Modern Contalners Limited | 1190 Birchmont Rd., Scarborough |
| Moore Type Foundry Limited | 431 King St. W., Toronto |
| Newburg Die Castings | 29A Birch Ave., Toronto |

**Directory of Firms in the White Metal Alloys Industry, 1958** – Concluded

| Name of firm | Location of plant |
|---|---|
| **Ontario** – Concluded: | |
| Pressure Castings of Canada Limited | 67 Main St. S., Weston |
| Pressure W.M.D. Castings Co. Ltd. | 305 Bering Ave., Toronto |
| Prince & Smith Type Foundry | 113 St. Patrick St., Toronto |
| Ram Refined Alloys Ltd. | 167 Barton St. W., Hamilton |
| 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 |
| Victor Metal Containers Ltd. | 30 Bermondsey Rd., 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 |