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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

+++ *Industry and Merchandising Division* +++

MINING, METALLURGICAL & CHEMICAL SECTION



THE

WHITE METAL PRODUCTS INDUSTRY

IN

CANADA

1947



OTTAWA
1949

Price 25 cents



Dominion Statistician:
 Director - Industry and Merchandising Division:
 Chief - Mining, Metallurgical and Chemical Section:

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Annual Industry ReportManufactures of the Non-ferrous Metals GroupTHE WHITE METAL PRODUCTS INDUSTRY, 1947

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, slide fasteners, castings, metal foil, etc., in which the white metals or their alloys are the principal materials. In some establishments all three of these operations were carried on, so it is not practical to make any subdivision of the industry.

Forty-seven factories reported in this group in 1947 and the value of their output was \$37,435,177. This total was 43.3 per cent above the 1946 value of \$26,128,907.

Of the total output during the year under review, 56.5 per cent came from the 25 plants in Ontario, 37.8 per cent from the 17 plants in Quebec, and 5 per cent from 2 plants in Manitoba and 3 in British Columbia.

Employment was afforded to a monthly average of 3,097 people including 574 on salaries and 2,523 on wages. Salaries for the year amounted to \$1,647,177 and wages to \$4,377,062, a total of \$6,024,239. In the previous year, the 3,414 workers were paid \$5,600,124 in salaries and wages.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$24,256,664 delivered at the works. Included in these materials were 46,154 tons of scrap metals at \$8,185,676; 27,598 tons of pig lead at \$6,150,316; 1,495 tons of pig tin at \$2,147,842; 6,643 tons of aluminum at \$2,440,465; 6,789 tons of zinc spelter at \$1,432,047 and other metals at \$2,250,196.

Production included 27,463 tons of refined metals (recovered from scrap) valued at \$7,255,763; 5,071 tons of solders at \$3,101,829; 3,881 tons of type and type metal at \$1,376,819; 3,159 tons of babbitt metal at \$1,866,487; die castings at \$3,361,711; 3,426 tons of lead pipe at \$1,095,699; 3,544 tons of lead sheet at \$1,036,540, and other lines, such as metal foil, slide fasteners, moulded shot, collapsible tubes, plastic bottle caps, toys, etc.

Table 1 - PRINCIPAL STATISTICS, 1938-1947

| Year | Number of plants | Average 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 |
|--------------------------------------|------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
| 1938 | 35 | 1,252 | 1,434,089 | 109,787 | 4,506,881 | 7,660,254 |
| 1939 | 35 | 1,347 | 1,586,182 | 121,185 | 4,927,693 | 8,937,165 |
| 1940 | 41 | 1,671 | 2,040,629 | 162,872 | 7,941,052 | 12,599,215 |
| 1941 | 43 | 2,343 | 3,114,179 | 273,427 | 13,795,427 | 21,307,949 |
| 1942 | 40 | 2,583 | 3,848,639 | 314,986 | 13,328,759 | 23,325,076 |
| 1943 | 36 | 2,790 | 4,120,334 | 336,494 | 12,495,881 | 22,231,960 |
| 1944 | 41 | 2,911 | 4,310,348 | 316,930 | 12,930,750 | 21,303,718 |
| 1945 | 41 | 2,929 | 4,560,581 | 343,085 | 13,718,455 | 23,222,129 |
| 1946 | 47 | 3,414 | 5,600,124 | 430,560 | 15,851,099 | 26,128,907 |
| 1947 | 47 | 3,097 | 6,024,239 | 530,573 | 24,256,664 | 37,435,177 |
| Per cent change, 1947 from 1946.. | .. | -9.3 | +7.6 | +23.3 | +53.1 | +43.3 |

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 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947

| Province | Number of plants | Average 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 |
|------------------|------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
| 1946 | | | | | | |
| Quebec | 17 | 640 | 1,216,221 | 100,834 | 4,575,379 | 6,409,649 |
| Ontario | 25 | 2,660 | 4,176,129 | 305,925 | 10,212,600 | 18,261,136 |
| Manitoba | 2) | 114 | 207,774 | 23,801 | 1,063,120 | 1,458,122 |
| British Columbia | 3) | | | | | |
| CANADA | 47 | 3,414 | 5,600,124 | 430,560 | 15,851,099 | 26,128,907 |
| 1947 | | | | | | |
| Quebec | 17 | 792 | 1,659,166 | 134,939 | 9,023,551 | 14,160,658 |
| Ontario | 25 | 2,198 | 4,141,433 | 371,173 | 13,651,549 | 21,123,891 |
| Manitoba | 2) | 107 | 223,640 | 24,461 | 1,581,564 | 2,150,628 |
| British Columbia | 3) | | | | | |
| CANADA | 47 | 3,097 | 6,024,239 | 530,573 | 24,256,664 | 37,435,177 |

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1946 and 1947

| Province | Average Number of Employees | | | | Salaries | Wages | TOTAL SALARIES and WAGES | | | |
|------------------|-----------------------------|--------|----------|--------|----------|-----------|--------------------------|--|--|--|
| | On Salaries | | On Wages | | | | | | | |
| | Male | Female | Male | Female | | | | | | |
| 1946 | | | | | | | | | | |
| Quebec | 120 | 32 | 476 | 12 | 640 | 314,705 | 901,516 | | | |
| Ontario | 255 | 161 | 1,489 | 755 | 2,660 | 977,150 | 3,198,979 | | | |
| Manitoba | 14 | 15 | 80 | 5 | 114 | 69,988 | 137,786 | | | |
| British Columbia | | | | | | | | | | |
| CANADA | 389 | 208 | 2,045 | 772 | 3,414 | 1,361,843 | 4,238,281 | | | |
| 1947 | | | | | | | | | | |
| Quebec | 137 | 50 | 591 | 14 | 792 | 500,040 | 1,159,126 | | | |
| Ontario | 255 | 103 | 1,402 | 438 | 2,198 | 1,076,239 | 3,065,194 | | | |
| Manitoba | 12 | 17 | 73 | 5 | 107 | 70,898 | 152,742 | | | |
| British Columbia | | | | | | | | | | |
| CANADA | 404 | 170 | 2,066 | 457 | 3,097 | 1,647,177 | 4,377,062 | | | |
| 6,024,239 | | | | | | | | | | |

Table 4 - WAGE-EARNERS, BY MONTHS, 1946 and 1947 (On the last work-day of each month)

| Month | 1946 | | | 1947 | | |
|-----------------|-------|--------|-------|-------|--------|-------|
| | Male | Female | Total | Male | Female | Total |
| January | 1,823 | 775 | 2,598 | 1,984 | 414 | 2,398 |
| February | 1,886 | 775 | 2,661 | 2,015 | 434 | 2,449 |
| March | 1,969 | 771 | 2,740 | 2,053 | 435 | 2,488 |
| April | 1,969 | 772 | 2,741 | 2,065 | 453 | 2,518 |
| May | 1,999 | 758 | 2,757 | 2,076 | 478 | 2,554 |
| June | 2,063 | 807 | 2,870 | 2,060 | 497 | 2,557 |
| July | 2,051 | 793 | 2,844 | 2,078 | 471 | 2,549 |
| August | 2,072 | 770 | 2,842 | 2,081 | 438 | 2,519 |
| September | 2,120 | 792 | 2,912 | 2,028 | 456 | 2,484 |
| October | 2,221 | 772 | 2,993 | 2,104 | 479 | 2,583 |
| November | 2,213 | 798 | 3,011 | 2,133 | 481 | 2,614 |
| December | 2,174 | 687 | 2,861 | 2,141 | 466 | 2,607 |
| AVERAGE | 2,045 | 772 | 2,817 | 2,066 | 457 | 2,523 |

Table 5 - FUEL AND ELECTRICITY USED, 1946 and 1947

| Kind | Unit of measure | 1946 | | 1947 | |
|-----------------------------|-----------------|------------|---------------|------------|---------------|
| | | Quantity | Cost at works | Quantity | Cost at works |
| Bituminous coal—Canadian .. | ton | 247 | 2,598 | 327 | 2,976 |
| Imported .. | ton | 3,501 | 35,511 | 3,666 | 42,288 |
| Anthracite coal | ton | 1,033 | 10,177 | 687 | 7,568 |
| Coke | ton | 1,406 | 17,710 | 1,439 | 22,047 |
| Gasoline | Imp.gal. | 28,946 | 9,336 | 46,227 | 15,022 |
| Kerosene | Imp.gal. | 11,760 | 2,084 | 23,965 | 4,419 |
| Fuel oil | Imp.gal. | 1,741,685 | 144,394 | 2,004,793 | 198,240 |
| Wood | cord | 16 | 192 | 18 | 261 |
| Gas—Manufactured | M cu.ft. | 52,348 | 41,299 | 131,708 | 54,151 |
| Natural | M cu.ft. | 30,898 | 32,433 | 32,196 | 20,440 |
| Other fuel | ... | ... | 10,874 | ... | ... |
| Electricity purchased | K.W.H. | 14,508,848 | 123,952 | 21,356,166 | 163,161 |
| TOTAL | ... | ... | 430,560 | ... | 530,573 |

Table 6 - POWER EQUIPMENT, 1946 and 1947

| | 1946 | | 1947 | |
|--|-----------------|-------------------------|-----------------|-------------------------|
| | Number of units | Total rated horse power | Number of units | Total rated horse power |
| Gasoline, gas and oil engines, other than Diesel | 4 | 200 | 5 | 400 |
| Diesel engines—In use | ... | ... | ... | ... |
| In reserve or idle... | ... | ... | ... | ... |
| Electric motors operated on purchased power—In use | 1,961 | 9,653 | 1,882 | 10,762 |
| In reserve or idle | 185 | 1,221 | 122 | 1,028 |
| TOTAL | 2,150 | 11,074 | 2,009 | 12,190 |
| Stationary power boilers - | | | | |
| In use | 6 | 155 | 7 | 430 |
| In reserve or idle | ... | ... | ... | ... |
| Motor-generator sets | 15 | 419 k.v.a. | 14 | 255 k.v.a. |

Table 7 - MATERIALS USED, 1946 and 1947

| Material | 1946 | | 1947 | | |
|--|----------|------------------|-----------|------------------|-----------|
| | Quantity | Cost at works(*) | Quantity | Cost at works(*) | |
| Metals (other than scrap) - | | \$ | | \$ | |
| Aluminum—Ingots—Primary or virgin | lb. | 5,102,560 | 684,971 | 9,538,860 | 1,333,593 |
| Secondary (from scrap) | lb. | 75,180 | 7,792 | 157,673 | 17,782 |
| Other forms | lb. | 1,875,640 | 467,706 | 3,599,989 | 1,089,090 |
| Antimony | lb. | 1,485,292 | 260,639 | 1,896,712 | 605,550 |
| Arsenic | lb. | 27,501 | 1,978 | 37,454 | 3,224 |
| Bismuth | lb. | 45,353 | 56,731 | 40,205 | 78,442 |
| Brass, all forms | lb. | 58,771 | 7,480 | 50,282 | 6,472 |
| Bronze, all forms | lb. | 37,623 | 4,600 | 19,222 | 2,814 |
| Cadmium | lb. | 171,858 | 181,934 | 149,840 | 299,678 |
| Copper ingots and slabs - | | | | | |
| Primary or virgin | lb. | 2,046,923 | 239,255 | 1,296,189 | 228,013 |
| Secondary (from scrap) | lb. | 220 | 26 | 6,886 | 838 |
| Die casting alloy | lb. | 1,152,860 | 92,697 | 2,600,971 | 303,894 |
| Lead, pig - | | | | | |
| Pure—Primary or virgin | lb. | 59,461,660 | 3,577,849 | 49,785,442 | 5,702,823 |
| Secondary (from scrap) | lb. | 555,101 | 25,473 | 1,228,251 | 126,990 |
| Antimonial—Primary | lb. | 4,438,462 | 285,499 | 3,156,932 | 217,358 |
| Secondary (from scrap) | lb. | 797,160 | 46,402 | 964,575 | 103,145 |
| Magnesium | lb. | 142,445 | 36,363 | 174,510 | 44,067 |
| Manganese metal | lb. | 4,742 | 1,656 | 8,865 | 2,455 |

Table 7 - MATERIALS USED, 1946 and 1947 (Concluded)

| Material | | 1946 | | 1947 | |
|--|----------|------------|-------------------|------------|-------------------|
| | | Quantity | Cost at works (*) | Quantity | Cost at works (*) |
| <u>Metals (other than scrap) - Concluded</u> | | | | | |
| Nickel | lb. | 662,385 | 198,689 | 442,378 | 141,480 |
| Nickel-silver, all forms | lb. | 498,228 | 170,900 | ... | ... |
| Silicon metal | lb. | 97,927 | 13,485 | 135,127 | 19,236 |
| Silver, fine | Troy oz. | 40,392 | 31,554 | 36,626 | 27,261 |
| Tellurium | lb. | 1,372 | 2,046 | 974 | 1,535 |
| Tin, pig - | | | | | |
| Primary or virgin | lb. | 3,657,813 | 2,261,905 | 2,951,081 | 2,123,884 |
| Secondary (from scrap) | lb. | 42,571 | 20,786 | 38,499 | 23,958 |
| Zinc slabs, bars and ingots - | | | | | |
| Primary or virgin | lb. | 19,202,636 | 1,108,507 | 13,387,118 | 1,415,126 |
| Secondary (from scrap) | lb. | 127,024 | 6,351 | 191,326 | 16,921 |
| Other metals, except scrap but including alloys | lb. | 2,004,454 | 267,248 | 2,511,179 | 485,239 |
| <u>Scrap metals of all kinds -</u> | | | | | |
| Aluminum | lb. | 11,616,813 | 700,603 | 9,078,558 | 850,783 |
| Babbitt | lb. | 2,075,512 | 156,535 | 3,007,731 | 408,287 |
| Brass | lb. | 3,670,301 | 262,752 | 2,878,313 | 268,950 |
| Bronze | lb. | 3,856,775 | 314,389 | 5,647,848 | 679,056 |
| Copper | lb. | 6,152,260 | 635,057 | 6,310,155 | 884,658 |
| Lead--Battery plates and lugs | lb. | 28,213,017 | 736,592 | 36,230,890 | 2,545,023 |
| Dross | lb. | 1,127,802 | 26,754 | 1,562,391 | 103,035 |
| Other | lb. | 10,583,147 | 485,709 | 17,687,778 | 1,398,635 |
| Magnesium | lb. | 5,301 | 387 | 1,048 | 314 |
| Solder | lb. | 662,517 | 83,622 | 1,089,621 | 243,803 |
| Tin | lb. | 124,581 | 47,827 | 75,528 | 25,830 |
| Tin foil | lb. | 183 | 82 | ... | ... |
| Type metal | lb. | 3,097,999 | 177,362 | 3,444,612 | 367,928 |
| Zinc | lb. | 662,843 | 25,928 | 1,002,699 | 54,890 |
| Zinc dross | lb. | 3,223,079 | 94,516 | 4,289,703 | 233,326 |
| Other scrap, including scrap unspecified by kind | ... | ... | 181,835 | ... | 121,158 |
| Shipping containers | ... | ... | 84,796 | ... | 54,595 |
| All other materials | ... | ... | 1,775,831 | ... | 1,595,527 |
| TOTAL | ... | ... | 15,851,099 | ... | 24,256,664 |

(*) Includes freight, duty, taxes, etc.

Table 8 - PRODUCTS MADE, 1946 and 1947

| Product | 1946 | | 1947 | |
|---|------------|---------------|------------|---------------|
| | Quantity | Selling value | Quantity | Selling value |
| | lb. | \$ | lb. | \$ |
| <u>Refined Metals (reclaimed or remelted) -</u> | | | | |
| Aluminum | 10,115,314 | 1,192,717 | 8,479,114 | 1,275,223 |
| Lead (antimonial) | 27,076,665 | 1,725,264 | 32,948,838 | 4,342,216 |
| Lead (common) | 11,078,860 | 635,151 | 10,245,851 | 1,305,917 |
| Tin | 193,824 | 119,666 | 99,555 | 67,013 |
| Zinc | 2,938,881 | 187,671 | 3,151,979 | 265,364 |
| <u>Alloys -</u> | | | | |
| Babbitt | 4,817,530 | 1,304,689 | 6,317,566 | 1,368,487 |
| Brass | 8,008,097 | 1,030,276 | 6,878,752 | 1,131,013 |
| Bronze | 6,614,462 | 955,163 | 7,265,602 | 1,425,893 |
| Copper alloys, not elsewhere specified | 554,642 | 99,010 | 480,538 | 121,776 |
| Lead alloys, not elsewhere specified.. | 10,988,156 | 685,856 | 13,868,879 | 1,501,041 |
| Solders | 7,409,818 | 2,085,770 | 10,142,359 | 3,101,829 |
| Tin alloys, not elsewhere specified .. | ... | ... | 15,559 | 9,167 |
| Type and type metal | 6,565,831 | 727,537 | 7,761,868 | 1,376,819 |

Table 8 - PRODUCTS MADE, 1946 and 1947 (Concluded)

| Product | 1946 | | 1947 | |
|--|------------|---------------|-----------|---------------|
| | Quantity | Selling value | Quantity | Selling value |
| | lb. | \$ | lb. | \$ |
| Alloys (Concluded) - | | | | |
| Die casting alloy | 7,617,265 | 622,324 | 6,454,526 | 858,636 |
| Zinc alloys, not elsewhere specified.. | 702,222 | 60,800 | 1,467,595 | 228,182 |
| Other non-ferrous alloys | 110,410 | 50,478 | 1,316,678 | 208,772 |
| Castings - | | | | |
| Die castings - | | | | |
| Aluminum-base alloy | 1,375,372 | 356,117 | 954,428 | 394,852 |
| Zinc-base alloy | 6,618,152 | 2,002,680 | 8,102,695 | 2,910,705 |
| Other metal base | ... | 41,458 | ... | 56,154 |
| Other castings - | | | | |
| Brass and bronze | 409,265 | 131,675 | 402,956 | 155,295 |
| Lead | 594,969 | 61,089 | 406,150 | 72,491 |
| Other | ... | 534,012 | ... | 421,536 |
| Lead Products - | | | | |
| Pipe | 10,051,620 | 899,950 | 6,852,799 | 1,095,699 |
| Sheets | 6,674,862 | 580,369 | 7,088,761 | 1,036,540 |
| Traps and fittings | 1,695,524 | 306,198 | 1,498,075 | 430,869 |
| Miscellaneous, including bullet wire, shot, etc. | 4,697,089 | 529,242 | ... | 364,473 |
| Scrap and dress | 496,267 | 30,504 | 1,049,933 | 63,587 |
| All other products (*) | ... | 9,193,041 | ... | 11,347,598 |
| TOTAL | ... | 26,128,907 | ... | 37,435,177 |

(*) Includes commodities which were made by only one or two firms in this industry, such as metal foil, collapsible tubes, zipper fasteners, etc.

Table 9 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1938-1947 (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. | \$ |
| 1938 | 2,230,907 | 456,104 | 5,064,436 | 1,208,704 | 3,635,344 | 355,636 |
| 1939 | 2,629,540 | 533,131 | 5,075,750 | 1,341,644 | 4,546,996 | 437,740 |
| 1940 | 3,214,694 | 847,791 | 6,460,679 | 1,716,359 | 4,342,916 | 415,531 |
| 1941 | 4,353,252 | 1,066,447 | 8,781,169 | 2,491,569 | 5,377,059 | 501,694 |
| 1942 | 4,182,882 | 1,104,772 | 7,624,770 | 1,842,640 | 4,150,069 | 447,079 |
| 1943 | 3,826,064 | 984,920 | 8,223,498 | 1,948,163 | 5,996,676 | 547,878 |
| 1944 | 4,100,724 | 847,005 | 8,447,480 | 2,004,955 | 5,118,068 | 515,757 |
| 1945 | 4,409,033 | 950,407 | 7,156,668 | 1,814,494 | 6,563,071 | 686,094 |
| 1946 | 5,077,738 | 1,386,295 | 7,475,951 | 2,102,508 | 6,565,831 | 727,537 |
| 1947 | 6,511,921 | 1,961,280 | 10,153,577 | 3,104,615 | 7,761,868 | 1,376,819 |

Table 10 - IMPORTS INTO CANADA OF LEAD, TIN AND ZINC AND THEIR PRODUCTS, 1946 and 1947

| | 1946 | | 1947 | |
|---------------------------|----------|--------|----------|--------|
| | Quantity | Value | Quantity | Value |
| | lb. | \$ | lb. | \$ |
| Lead and Its Products - | | | | |
| Lead in pigs and blocks - | | | | |
| United Kingdom | lb. | ... | ... | 2,240 |
| United States | lb. | 12,580 | 2,349 | 11,873 |
| Total Imports | lb. | 12,580 | 2,349 | 14,113 |
| Lead, old and scrap - | | | | |
| United Kingdom | lb. | 31,390 | 629 | ... |
| Barbados | lb. | 2,446 | 307 | ... |
| Newfoundland | lb. | 11,948 | 179 | ... |
| United States | lb. | 21,051 | 478 | 4,175 |
| Total Imports | lb. | 66,835 | 1,593 | 4,175 |

Table 10 - IMPORTS INTO CANADA OF LEAD, TIN AND ZINC AND THEIR PRODUCTS, 1946 and 1947 (Continued)

| | 1946 | | 1947 | |
|---|----------|--------|-----------|---------|
| | Quantity | Value | Quantity | Value |
| | | \$ | | \$ |
| Lead and Its Products (Concluded) - | | | | |
| Lead in bars and sheets - | | | | |
| United States | lb. | 16,057 | 2,279 | 14,389 |
| Total Imports | lb. | 16,057 | 2,279 | 14,389 |
| Lead capsules for bottles - | | | | |
| France | ... | ... | 111 | 295 |
| Netherlands | ... | ... | ... | 1,706 |
| Portugal | ... | ... | 346 | 849 |
| United States | ... | ... | ... | 3,915 |
| Total Imports | ... | ... | 457 | 6,764 |
| Shot and bullets, lead - | | | | |
| United Kingdom | lb. | ... | ... | 378 |
| United States | lb. | 4,225 | 734 | 2,708 |
| Total Imports | lb. | 4,225 | 734 | 3,086 |
| Manufactures of lead, n.o.p. - | | | | |
| United Kingdom | ... | ... | 19,664 | ... |
| United States | ... | ... | 118,928 | ... |
| Other countries | ... | ... | ... | 3,158 |
| Total Imports | ... | ... | 138,592 | ... |
| Tin and Its Products - | | | | |
| Tin in blocks, pigs or bars - | | | | |
| Belgium | cwt. | ... | ... | 26,319 |
| United Kingdom | cwt. | 56,007 | 4,112,195 | ... |
| Straits Settlements | cwt. | 23,968 | 1,627,534 | 57,792 |
| United States | cwt. | 4,045 | 237,615 | 4,612 |
| Total Imports | cwt. | 84,020 | 5,977,344 | 88,723 |
| Tinfoil - | | | | |
| United Kingdom | lb. | 84 | 67 | 2,510 |
| United States | lb. | 5,834 | 3,035 | 7,264 |
| Total Imports | lb. | 5,918 | 3,102 | 9,774 |
| Collapsible tubes - | | | | |
| United States | ... | ... | 128,204 | ... |
| France | ... | ... | ... | 228 |
| Total Imports | ... | ... | 128,204 | ... |
| Zinc and Its Products - | | | | |
| Zinc in blocks, pigs, bars and rods, and zinc plates, n.o.p. - | | | | |
| United States | cwt. | 300 | 5,512 | 1,218 |
| Total Imports | cwt. | 300 | 5,512 | 1,218 |
| Zinc strip and sheets, and zinc plates for marine boilers - | | | | |
| United Kingdom | cwt. | 20 | 201 | 221 |
| Belgium | cwt. | ... | ... | 1,688 |
| United States | cwt. | 42,986 | 584,809 | 35,050 |
| Total Imports | cwt. | 43,006 | 585,010 | 36,959 |
| Zinc dust - | | | | |
| United States | cwt. | 350 | 3,939 | 3,480 |
| Total Imports | cwt. | 350 | 3,939 | 3,480 |
| Zinc slugs for discs, for the manufacture of seamless cups or shells for electric dry batteries - | | | | |
| United States | ... | ... | 146,272 | ... |
| Total Imports | ... | ... | 146,272 | ... |
| | | | | 176,166 |

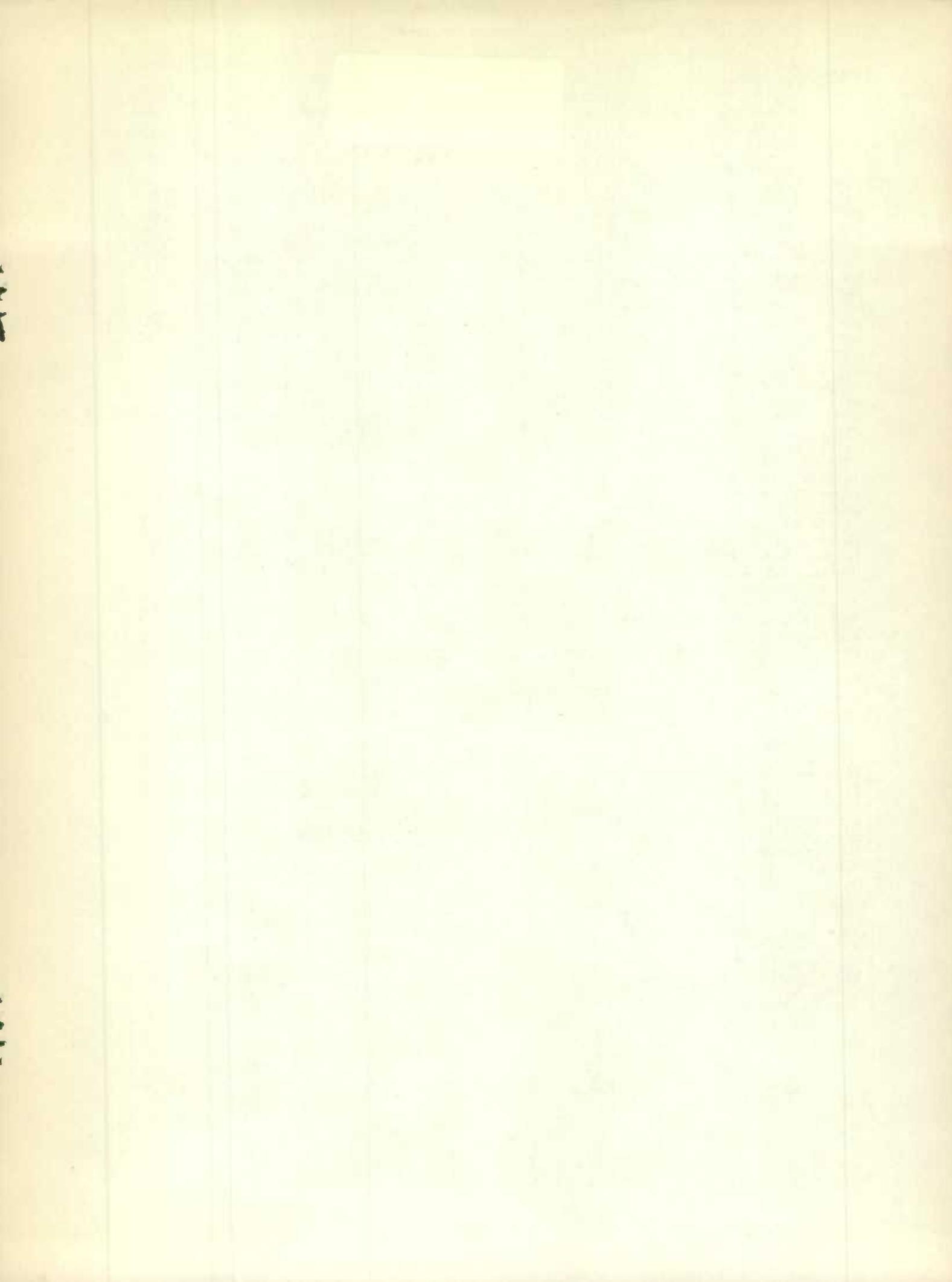
Table 10 - IMPORTS INTO CANADA OF LEAD, TIN AND ZINC AND THEIR PRODUCTS, 1946 and 1947 (Concluded)

| | 1946 | | 1947 | |
|---|----------|-----------|----------|-------------------|
| | Quantity | Value | Quantity | Value |
| <u>Zinc and Its Products (Concluded) -</u> | | | | |
| Zinc, manufactures of, n.o.p. - | | | | |
| United Kingdom | ... | 1,934 | ... | 4,822 |
| Belgium | ... | ... | ... | 4,018 |
| Italy | ... | 183 | ... | 1,712 |
| Switzerland | ... | 1,640 | ... | 760 |
| United States | ... | 1,039,455 | ... | 1,339,335 |
| Total Imports | ... | 1,043,212 | ... | 1,350,647 |
| <u>Alloys, n.o.p. -</u> | | | | |
| Babbitt metal in blocks, bars, plates and sheets - | | | | |
| United Kingdom | cwt. | 202 | 12,065 | ... |
| United States | cwt. | 388 | 11,683 | 744 32,882 |
| Total Imports | cwt. | 590 | 23,748 | 744 32,882 |
| Britannia metal, manufactures of, not plated - | | | | |
| France | ... | ... | ... | 308 |
| United Kingdom | ... | 9,202 | ... | 19,223 |
| United States | ... | 12,809 | ... | 14,404 |
| Total Imports | ... | 22,011 | ... | 33,935 |
| Chromium metal and tungsten metal, in lumps, powder, ingots, blocks or bars, and scrap of alloy metal containing chromium and tungsten, for alloying purposes - | | | | |
| United Kingdom | lb. | 11,200 | 20,322 | 17,920 41,176 |
| United States | lb. | 5,459 | 23,157 | 14,659 29,673 |
| Total Imports | lb. | 16,659 | 43,479 | 32,579 70,849 |
| Metal alloy slugs, cast, with diamonds or diamond clips embedded therein, as for the mould, and metal alloy strip - | | | | |
| United States | ... | 115,941 | ... | 22,719 |
| Total Imports | ... | 115,941 | ... | 22,719 |
| Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire - | | | | |
| United Kingdom | lb. | 328,230 | 105,802 | 234,852 94,670 |
| United States | lb. | 1,127,128 | 532,360 | 1,323,901 757,144 |
| Total Imports | lb. | 1,455,358 | 638,162 | 1,558,753 831,814 |
| Alloys of copper - | | | | |
| United Kingdom | ... | 8,863 | ... | 4,599 |
| United States | ... | 183,504 | ... | 268,300 |
| Total Imports | ... | 192,367 | ... | 272,899 |
| Alloys of magnesium - | | | | |
| United Kingdom | ... | ... | ... | 2,922 |
| United States | ... | 10,357 | ... | 14,416 |
| Total Imports | ... | 10,357 | ... | 17,338 |
| Type and Type Metal - | | | | |
| Type metal, in blocks, bars, plates and sheets - | | | | |
| United States | lb. | 10,206 | 1,854 | 6,756 1,935 |
| Total Imports | lb. | 10,206 | 1,854 | 6,756 1,935 |
| Type for printing, including chases, quoins and slugs of all kinds - | | | | |
| United Kingdom | ... | 1,208 | ... | 8,444 |
| France | ... | ... | ... | 218 |
| United States | ... | 115,492 | ... | 151,559 |
| Total Imports | ... | 116,700 | ... | 160,221 |

DIRECTORY OF FIRMS IN THE WHITE METAL PRODUCTS INDUSTRY, 1947

| Name of Firm | Location of Plant |
|--|---|
| <u>Quebec -</u> | |
| Bel Art Metal Casting Reg'd. | 1424 Pie IX Blvd., Montreal |
| Canada Metal Company Limited, The | 6265 Notre Dame St. E., Montreal |
| Dominion Foils (Canada) Limited | 466 Victoria Ave., Lachine |
| Dominion Foils (Canada) Limited | Cap de la Madeleine |
| Eagle Smelting & Refining Works Limited | 1095 Wellington St., Montreal |
| Kay Metal Refining Works Reg'd. | 301 Nazareth St., Montreal |
| Lead Smelters and Refiners Ltd. | 11445 Rivest St., Montreal East |
| Magnolia Metal Co. of Canada, Limited | 2028 Manufacturers St., Montreal |
| Mayer Sealing Devices Reg'd. | 11425 Cherrier St. E., Montreal |
| Montreal Die Casting Ltd. | 378 Chambly Rd., Longueuil |
| Mount Royal Metal Co. Ltd. | 1201 Mill St., Montreal |
| Ouellette, O. J. & Co. | 270 Vitre St., Montreal |
| Richmond Machine Tool & Die Casting Co. Ltd. | 299 Colborne St., Montreal |
| Riverside Smelting & Refining Works, Ltd. | 639 Farm St., Montreal |
| Standard Metal Co. Ltd. | 536 Dollard Ave., Ville La Salle |
| Steel Company of Canada, Limited, The | 2320 Notre Dame St. W., Montreal |
| White Metal Casting & Plating Co. | 2010 Cardinal, Montreal |
| <u>Ontario -</u> | |
| Barber Die Casting Co. Limited | Cor. Hillyard & Munroe Sts., Hamilton |
| Binkley, Theophile | 145 Beverley St., Galt |
| Canada Foils Limited | 7 Fraser Ave., Toronto |
| Canada Metal Co. Ltd., The | 721 Eastern Ave., Toronto |
| Canadian Hanson & Van Winkle Co. Ltd. | 9-25 Morrow Ave., Toronto |
| Dominion and Monarch Type Foundry | 109 Ontario St., Toronto |
| Frankel Brothers, Limited | Don Roadway, Toronto |
| General Smelting Company of Canada, Ltd. | Wilcox St., Hamilton |
| Hewitt Metals Corporation, Limited | 1554 McDougall Ave. E., Windsor |
| Hildebrand, K. | 397 Wyandotte St. E., Windsor |
| Kester Solder Company of Canada Limited | 51 Bruce St., Brantford |
| Last Minute Mfg. Co. Ltd. | Wellington St. N., Thorold |
| Light Alloys Limited | Hall St., Renfrew |
| Metals & Alloys Limited | Wicksteed Ave., Leaside, Toronto |
| Modern Containers Limited | 95 Sterling Rd., Toronto, and Bayview Road, Ottawa |
| 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 |
| Prince & Smith Type Foundry | 442 King St. W., Toronto |
| Schultz Die Casting Co. of Canada Limited | Wallaceburg |
| Spooner Coppering Company Limited | John St., Port Hope |
| Sun Tube Corp. of Canada Ltd. | 145 Spruce St., Ottawa |
| Toronto Refiners & Smelters Ltd. | 28 Bathurst St., Toronto |
| Webster Bros. Limited | 1161 King St., London |
| <u>Manitoba -</u> | |
| Canada Metal Company Limited, The | 301 Chambers St., Winnipeg |
| Union Metal Company Limited, The | 654 McGee St., Winnipeg |
| <u>British Columbia -</u> | |
| Atlas Smelting & Refining Co. Ltd. | 321 East First Ave., Vancouver |
| Canada Metal Company Limited, The | 1428 Granville St., Vancouver |
| Great Western Smelting Co. Ltd. | 310 Prior St., Vancouver |

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