# THE ALUMINUM PRODUCTS INDUSTRY 1958 



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

## 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 compliations 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 avallable on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A - Anhual

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


| -007 | Non-ferrous Scrap Metal and Secondary Non | 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 payatle to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Stapisfics, or to the Queen's Printer, Offawo, Canada.

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 glven 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 daia 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 ille a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two of more establishments when it carries out operations classlfiable 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 industrles) 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 wares 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 pefer to the calendap 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 recelved 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, distrlbuting 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 ase included. Amounts recelved in payment for work done on materials owned by others are included.

In a few industries such as shipbullding, 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 purpases of reporting shipments.

## Value Added by Manufacturing

Figures are computer from value of shipments plus of minus changes in inventoties 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 of allotted to specific industries on the basts of the value of principal products made or shipped.

## Short Foms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census detalls, but for later years an effort was made to ease the reportling burden for smaller firms which usually do not malntain 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 shlpments 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 industrles 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 detall on materlal and products.

[^0]
## SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:
.. figures not available.
... flgures not appropriate or not applicable.

- nil or zero.


## THE ALUMINUM PRODUCTS INDUSTRY

## 1958

As reviewed in this report, the Aluminum Products Industry covers only the operation of factories which were occupied chiefly in casting, rolling or fabricating aluminum to make bars, rods, sheet, foil, cooking utensils, etc. It does not include aluminum smelters as these works have been classified to the Non-ferrous Smelting and Refining Industry, which is reviewed in a separate pamphlet. Nor, starting with 1955, does it include wires and cables, which were transferred to the Electrical Apparatus Industry, Nor does it include the aluminum castings, cable, utensils, etc., which were made as secondary, or minor, products of brass and iron foundries or other manufacturing establishments.

Ninety-five factories were classified to this industry in 1958 these being 23 in Quebec, 55 in Ontario, 4 in Alberta and 13 in British Columbia. Employees in this industry numbered 6,605 ; salaries and wages totalled $\$ 28.544,154$; materials used in manufacturing processes cost $\$ 60,434,728$ and factory shipments were valued at $\$ 97,883,547$.

Output of aluminum cooking utensils in this industry was valued at $\$ 6,758,605$, but in addition, concerns in other industries made aluminum ware worth $\$ 534,600$ bringing the total for Canada to $\$ 7,293,205$. The corresponding total for 1957 was $\$ 6,802,000$.

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" figure 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 Aluminum Products Industry, Significant Years 1929-58, and by Provinces, 1957 and 1958

| Year and province | Estab-lishments | Employees | Salaries and wages | Cost of fuel and electricity at plant | Cost at plant of materials used | Value added by manufacture ${ }^{1}$ | Gross selling value of products ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | number |  | dollars |  |  |  |  |
| 1929 | 14 | 723 | 930,216 | 91,438 | 2.754.726 | 1,417,637 | 4.263,801 |
| 1932 | 14 | 661 | 678,400 | 66,628 | 1,375, 902 | 1,260,682 | 2,703,112 |
| 1937 | 18 | 1,345 | 1,535, 112 | 140,180 | 4,525,571 | 2,490,492 | 7,156,243 |
| 1939 | 23 | 1,570 | 1,742,420 | 160,946 | 4,562,803 | 2,454,585 | 7,178,334 |
| 1943 | 17 | 5,938 | 8,763,823 | 758,124 | 15,136,675 | 17, 041,486 | 32,936,285 |
| 1946 | 53 | 4,860 | 8,959,446 | 834,431 | 17,113,209 | 15,627, 841 | 33,575,481 |
| 1949 | 80 | 5,826 | 13, 905,579 | 967,341 | 24,606,582 | 26, 129,686 | 51,703,609 |
| 1954 | 99 | 7.003 | 23, 814, 217 | 1,686,960 | 46,270,718 | 33,475,069 | 80,523,167 |
| 1955 | 93 | 6,832 | 24,025,405 | 1,702, 109 | 45,961,129 | 31,733,656 | 79, 839,602 |
| 1956 | 96 | 6,884 | 25,664,161 | 1,807,712 | 56,330,198 | 35,131,189 | 90,470,877 |
| 1957 |  |  |  |  |  |  |  |
| Quebec | 24 | 2,384 | 10,346,464 | 413,302 | 22,393.495 | 8,608.546 | 31,217,678 |
| Ontario. | 56 | 4,453 | 16,834,973 | 1,418,024 | 33,513,554 | 24,699,668 | 59,660,124 |
| Manitoba | 1 | 15 | 37.297 | 2,327 | 39,599 | 67,218 | 109,075 |
| Alberta Columbla | ${ }_{9}^{4}$ | 65 | 256,627 | 18,573 | 244,019 | 577,679 | 832,112 |
| Canada | 94 | 6,917 | 27,475,361 | 1,852,226 | 36,190,667 | 33,953,111 | 91, 818,989 |
| 1958 |  |  |  |  |  |  |  |
| Quebec | 23 | 2,143 | 10.476, 054 | 429,812 | 29,260,620 | 7,546,064 | 37,32 3,538 |
| Ontario | 55 | 4.301 | 17.425.634 | 1,453,786 | 29,838,369 | 28,115,655 | 58,128,163 |
| Alberta | 4 | 17 | 50,373 | 3,001 | 49,095 | 93,071 | 146,362 |
| British Columbla | 13 | 144 | 592,093 | 54,844 | 1.286,644 | 1,078,177 | 2,285, 214 |
| Canada | 95 | 6,605 | 28,544,154 | 1,941,443 | 60,434, 728 | 36,832,967 | 97,883,547 |

[^1]TABLE 2. Inventories, ${ }^{1} 1958$

|  | Raw <br> materlals <br> and supplies | Goods in <br> process | Finished <br> goods of own <br> manufacture | Tota! |
| :--- | ---: | ---: | ---: | ---: | ---: |

${ }^{1}$ (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. This summarized results for the Aluminum Product 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, plants going out of business, elc. However, the valus added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Products of the Aluminum Products Industry, 1957 and 1958

| Product | 1957 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value of factory shipments | Quantity | Value of factory shipments |
|  |  | \$ |  | \$ |
| Castings, aluminum, (except die castings) ...................... lb. | $8,750,347$ | $5,888,475$ | 7.775.485 | $5,179,724$ |
| Castings, other (brass, bronze, magnestum, etc.) (except die castings) | 706.442 | 727,770 | 650,069 | 610,719 |
| Cooking utensils, aluminum |  | 6,311,889 |  | $6,758,605$ |
| Die castings, aluminum base ................................................... lb . | 242,072 | 184,521 | 233.079 | 191,951 |
| Extruded shapes, aluminum ............................................... .f | 25,483,777 | 13,321,074 | 30.939 .362 | 17,411,611 |
| All other products* | . . | 65,385,260 | . . . | 67.730,667 |
| Total | $\cdots$ | 91, 818,989 | -•• | 97, 883,277 |

[^2]TABLE 4. Materials Used in the Aluminum Products Industry, 1957 and 1958

| Materiai | 195.7 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Pounds | Cost at works | Pounds | Cost at works |
|  |  | \$ |  | \$ |
| Aluminum: ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ |  |  |  |  |
| Castings ............................................................. | 161,810 | 114.723 | 203,877 | 146.251 |
| Circles and forms for making bollow-wate ............. | $2.238,703$ | 1,054,146 | 2,520,990 | 1,078,242 |
| Ingots | 172,979,005 | 41,897,988 | 208.980,714 | 46,917,926 |
| Scrap | 7,403,760 | 1,579,015 | 5,867,103 | 1,100,814 |
| Sheets and strip | 4,684,407 | 1.977,700 | 6.480,876 | 2.650,810 |
| Rods | 1,985,886 | 683.564 | 616,607 | 231,197 |
| Tubing | 228,166 | 204,834 | 345.175 | 248.753 |
| Wire ... | 84.842 | 42,439 | 68.136 | 33,907 |
| Other | . . | 539,441 | . . | 814.771 |
| Brass and bronze: |  |  |  |  |
| Ingots ............. | 318,090 | 104,848 | 470.003 | 121.363 |
| Plates, sheets and strip ....................................... | 21.550 | 11.128 | 43,482 | 18,878 |
| Other forms |  | 8,990 | , |  |
| Copper: |  |  |  |  |
| Ingots | 60,484 | 19,927 | 42,819 | 16.676 |
| Plates, sheets and strip | 80,674 | 39.137 | 87.949 | 40,733 |
| Other forms | . . | 131.616 | . | 102,593 |
| Lead ........................................................................ | 10.873 | 1,929 |  |  |
| Magnesium ............................................................... | 913,417 | 338,961 | 938.213 | 308.877 |
| zinc | 112,852 | 15,904 | 150.479 | 16,814 |
| Other non-ferrous metals .......................................... | . . | 202,326 | .. | 51,469 |
|  |  |  |  |  |
| Plates, sheets and strip <br> Other forms | $\begin{aligned} & 218.464 \\ & 341,487 \end{aligned}$ | $\begin{aligned} & 178.937 \\ & 258,980 \end{aligned}$ | $\begin{aligned} & 824,047 \\ & 573,350 \end{aligned}$ | $\begin{aligned} & 346,786 \\ & 329.984 \end{aligned}$ |
| Sreel (except alloy steel): |  |  |  |  |
| Plates, sheets and strip <br> Other forms | $\begin{aligned} & 913,491 \\ & 362,303 \end{aligned}$ | $\begin{aligned} & 97,035 \\ & 97,399 \end{aligned}$ | $\begin{array}{r} 2,900,978 \\ 189,722 \end{array}$ | $\begin{array}{r} 248.059 \\ 26.371 \end{array}$ |
| Trimmings, knobs, handles, etc., for utensils and hollow-ware $\qquad$ | ... | 256,032 | $\ldots$ | 348.981 |
| Shipping containers and packing materials .............. | $\ldots$ | 1.031.785 | . . | 1.190,454 |
| All other materials and process supplies | . | 5,301,883 | $\ldots$ | 3.962,709 |
|  | . $\cdot$ | $56,190,667$ | -* | 60, 434,728 |

TABLE 5. Total Production of Aluminum Hollow-ware and Kitchenware, 1949-58

| Year | Selling value at works | Year | Selling value at works |
| :---: | :---: | :---: | :---: |
|  | \$ |  | \$ |
| 1949 ................................................... | 10,125,000 | 1954 .................................................. | 7,976,000 |
| 1950 ..................................................... | 8,521.000 | 1955 | 6,831,000 |
| 1951 .................................................... | 9,128,000 | 1956 | 6,263,000 |
| 1952 ..................................................... | 8,142,000 | 1957 | 6,802,000 |
| 1953 ..................................................... | 8,187,000 | 1958 .................................................. | 7.293.000 |

Note: The above table shows total production in Canada regardless of the industry in which produced.

TABLE 6. Factory Shipments of Specified Aluminum Products 1956-58

| Year | Extruded shapes |  | Aluminum foil |
| :---: | :---: | :---: | :---: |
|  | Pounds | Selling value of factory shlpments | Selling value of factory shipments |
|  |  | \$ | \$ |
|  |  | 12,640.915 | $9,726,294$ |
| $1957$ | $25,653,777$ | $13,406,790$ | $10,379,154$ |
| 1958 ... |  |  |  |

TABLE 7. Principal Statistics of the Aluminum Products Industry, Classified
According to Type of Ownership, 1957 and 1958

| Type | Estab-11shments | Employees | Salarles and wages | Cost of <br> fuel and electricity | Cost at plant of materials used | Selling value of factory shipments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | number |  | dollars |  |  |  |
| 1957 |  |  |  |  |  |  |
| Individual ownership ........................................ | 18 | 66 | 194,855 | 13.331 | 242,278 | 565,428 |
| Partnerships ........... | 9 | 75 | 222.080 | 16,410 | 307. 832 | 636.654 |
| Incorporated companies | 67 | 6.776 | 27,058,426 | 1.822,485 | 55,640,557 | 90,616.907 |
| Total ........................................................ | 94 | 6. 917 | 27,475,361 | 1, 852.226 | 56, 190,667 | 91, 818,989 |
| 1958 |  |  |  |  |  |  |
| Individual ownership ..................................... | 14 | 62 | 165. 109 | 11.426 | 206,527 | 471.517 |
| Partnerships .................................................. | 4 | 36 | 128.586 | 8.451 | 131,763 | 393.553 |
| Incorporated companies ................................ | 77 | 6.507 | 28,250,459 | 1,921.566 | 60,096,438 | 97,018,207 |
| Total | 95 | 6,605 | 28, 544, 154 | 1.941,443 | 60,434, 728 | 97.883, 277 |

TABLE 8. Principal Statistics of the Aluminum Products Industry, Grouped According to Selling Value of Factory Shipments, 1957 and 1958


TABLE 9. Employees and their Earnings in the Aluminum Products Industry by Provinces 1957 and 1958

| Province | Employees |  |  |  |  | Earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Supervisory and office |  | Production workers |  | Total | Supervis ory and office | Production workers | Total |
|  | Male | Female | Male | Female |  |  |  |  |
|  | number |  |  |  |  | dollars |  |  |
| Quebec | 1,056 | 502 | 787 | 39 | 2,384 | 7,671,681 | 2,674,783 | 10, 346, 464 |
| Ontario | 785 | 346 | 3,089 | 233 | 4,453 | 5,152, 598 | 11,682,375 | 16,834,973 |
| Manitoba .. | 6 | - | 9 | - | 15 | 11,700 | 25,597 | 37, 297 |
| Alberta | 6 | - | 9 | - | 15 | 11.700 | 25,597 | 31,297 |
| British Columbia ................... | 19 | 3 | 40 | 3 | 65 | 98,134 | 158,493 | 256,627 |
| Canada | 1,866 | 851 | 3,925 | 275 | 6,917 | 12,934, 113 | 14, 541, 248 | 27,475,361 |
| Quebec | 756 | 468 | 890 | 29 | 2,143 | 7, 398, 265 | 3,077, 789 | 10, 476, 054 |
| Ontario | 792 | 354 | 2,941 | 214 | 4,301 | 5,589,949 | 11, 835,685 | 17,425,634 |
| Alberta | 5 | - | 11 | 1 | 17 | -17,527 | 32,846 | 50,373 |
| British Columbia ................... | 54 | 13 | 71 | 6 | 144 | 304, 333 | 287, 760 | 592,093 |
| Canada | 1,607 | 835 | 3,913 | 250 | 6,605 | 13,310,074 | 15, 234, 080 | 28,544, 154 |

TABLE 10. Production Worhers, by Months, 1958

${ }^{1}$ The number of production workers, by months, was generally collected only for establishments reporting value of

[^3]TABLE 11. Capital and Repair Expenditures in the Aluminum Products Industry, 1954-58

| Year | Capital expenditures |  | Sub-total | Repair and maintenance expenditures |  | Sub-total | Tota: capital and repait expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Construction | Machinery and equipment |  | Construction | Machinery and equipment |  |  |
|  | thousands of dollars |  |  |  |  |  |  |
| 1954 | 182 | 1,049 | 1. 231 | 395 | 2,485 | 2,880 | 4,111 |
| 1955. | 232 | 1.122 | 1.354 | 306 | 2,518 | 2,824 | 4,178 |
| 1956. | 1.493 | 2,536 | 4.029 | 329 | 2,336 | 2,665 | 6.694 |
| 1957. | 1.189 | 3,389 | 4,578 | 261 | 2,483 | 2.744 | 7.322 |
| 1958 | 749 | 2,722 | 3,471 | 266 | 2,663 | 2,929 | 6,400 |

Note: Figures for current year are preliminary.

TABLE 12. Imports of Aluminum and its Products, 1957 and 1958

| Item | 1957 |  |  |
| :--- | ---: | ---: | ---: | ---: |

TABLE 13. Exports of Aluminum and its Products, 1957 and 1958

| Item | 1957 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Tons | Value | Tons | Value |
|  |  | \$ |  | \$ |
| Aluminum scrap.................................................... | 12.379 | 3,348,483 | 12,613 | 3,287,786 |
| Aluminum in primary forms .................................... | 478,670 | 217,428,514 | 482,977 | 208,841.586 |
| Aluminum, semi-fabricated .................................... | 12,593 | 8,608, 819 | 17,390 | 10.313,075 |
| Aluminum foil ...................................................... | 236 | 230.610 | 172 | 213,614 |
| Aluminum kitchen utensils and hollow-ware ............. | ... | 68,737 | ... | 27. 576 |
| Aluminum manufactures, n.O.p. ............................... | -•• | 810.124 | - ... | 935,984 |
| Total .............................................................. | . | 230,495,287 | ... | 223,619,621 |

TABLE 14. Fuel and Electricity Used in the Aluminum Products Industry, 1958

| Kind | Quantity | Cost at works |
| :---: | :---: | :---: |
| Batiblishments reporting commodity detail: ${ }^{1}$ |  | \$ |
| Bituminous coal - Imported ton | 13,440 | 148,017 |
| Anthracite coal | 70 | 2,037 |
| Coke........................................................................................ ${ }^{\text {a }}$ | 23 | 660 |
| Gasoline (including gasoline used in curs and trucks) .............. Imp. gal. | 93,074 | 31,142 |
| Fuel oil ..................................................................................... " | 3,752,328 | 422,155 |
| Wood....................................................................................... cord | 6 | 25 |
| Liquefied petroleum gases ........................................................... Imp. gal. | 111,054 | 25,908 |
| Natural gas ............................................................................ M cu. $\mathrm{ft}_{\text {. }}$ | 96, 111 | 111,699 |
| Manufactured gas ......................................................................... ${ }^{\text {. }}$ | 19,089 | 24,713 |
| Electricity purchased .............................................................. kwh. | 174,594,471 | 1,133, 835 |
| Other fuel | ... | 777 |
| Steam purchased. | ... | 1.415 |
| Establishments not reporting commodity detail ${ }^{1}$ : |  |  |
| Cost of fuel.............................................. | ... | 26.660 |
| Cost of electricity purchased | ... | 12,400 |
| All establishments: |  |  |
| Total cost of fuel.. | ... |  |
| Total cost of electricity ${ }^{2}$ |  | 1.146.235 |
| Total cost of fuel and electricity | . . $\cdot$ | 1.941.443 |

${ }^{1}$ 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.
${ }^{1}$ Power equipment in the form of electric motors was reported as 60,470 h.p.

## List of Firms in the Aluminum Products Industry, 1958

Note: This industry includes only the concerns which were occupied chiefly in making aluminum products. Some concarms in sthat indnstrus make aluminum castings, etc., as secondary or minor products; they are not listed below.


List of Firms in the Aluminum Products Industry, 1958 - Concluded

| Name of firm | Address |
| :---: | :---: |
| Ontario-Concluded: |  |
| Central Castings | Magnificent Rd., Etobicoke |
| Chesley-Sarnes | Essex |
| Chromedge (Canada) Ltd. | 5 Crockford Blvd., Scarborough |
| City Foundry Co. | Grand Marais Road, Windsot |
| Coles, J., Aluminum Foundry | 74 Market St., Toronto |
| Demill Metal Patterns Ltd. | 33 Haddington St., Galt |
| Dominion Aluminum Fabricating Ltd | 10 Jutland Rd., New Toronto |
| Dominion Magnesium Ltd. | Haley |
| Dunbar Aluminum Foundry Letd | 315 Breith aupt St., Kitchener |
| Duro Aluminum Ltd. ............ | 281 Birch Ave., Hamilton |
| Ekco Products Co. (Canada) Ltd | 376 Birchmont Rd., Toronto |
| Everingham Bros. Ltd. | 63 Advance Road, Toronto |
| Fashion Grilles .......... | 40 Milford Ave.. Toronto |
| Frontier Aluminum \& Bronze Ltd. | Killaly St. E., Port Colborne |
| Galt Non-Ferrous Foundry | 24 Davidson St., Galt |
| Gordon Mfg. Co. Ltd. | Waliaceburg |
| Hamilton Aluminum Ware Manufacturing Co. | 13 Ferguson Ave. N. Hamilton |
| Hamilton Match Plate Co. ........................... | 265 Lottridge St., Hamilton |
| Harjohn Industries Ltd. | Grantham Ave., St. Catharines |
| Harrington Aluminum Foundry | 145 Main St., Woodstock |
| Imperial Aluminum Co. ........... | Victoria St., Stevensville |
| Jeune Metal Products Limited | 15 Jenet Ave., Toronto |
| Joseph, N.C., Aluminum Co. of Canada Ltd. | Queen Elizabeth Way \& Portage Rd.. Niagara Falls |
| Kool-Lite Aluminum Awning Co,..................... | 176 Norseman St., Toronto |
| Koolvent Awnings Limited. | 94 Bruce St., Oshawa |
| Ladd Industries .............. | 283 King St. W., Toronto |
| Millard Electric Ltd. | 27 Cockburn St., Perth |
| Monarch Aluminum Co. | 2486 Dufferin St. Toronto |
| National Pattern Works. | 332 Horner Ave., Etobicoke Twp. |
| National Presto Industries of Canada Ltd. | Armold St., Wallaceburg |
| Precision Dies and Castings Ltd. | 156 St. Helens Ave., Toronto |
| Ramsden Manufacturing Letd. .... | 130 Oakland Ave. London |
| Regal Die Casting Co. Ltd. | Research Rd. . Brampton |
| Selck, Walter E. \& Co. of Canada, Ltd. | 53 Tycos Dr., Toronto |
| Soren Manufacturing Company ................ | 2825 Dufferin St., Toronto |
| Spun Metals Ltd. | 36 Rivalda Rd. Weston |
| Sterling Aluminum Company | 175 Eileen Ave., Toronto |
| Sterling Factories (Canada) Ltd. | 41 Lewis St., Fort Erie |
| Super Health Aluminum Co. Ltd. | 348 Greenwood Ave. . Toronto |
| Supreme Aluminum Industries Ltd. | 3600 Danforth Ave., Toronto |
| Supreme Castings \& Mig. Co. .. | 3317 Dufferin St., Toronto |
| Twin Aluminum Co. | 407 Dundas St. W., Toronto |
| Weatherguard Awning Products Ltd. | 45 Crockford Blvd., Scarborough |
| Werner, R.D., Co. (Canada) Ltd. | 1155 Simcoe St. S., Oshawa |
| Wikobroda, Wm. | 79 Fulton Ave., Brantford |

## Alberta:

Albronze Foundry Works
Calgary Aluminum Awnings Ltd.
Cascade Machine Co.
Siren Mig. Co. Ltd.

## British Columbin:

A. A.A. Aluminum Products

Acme Aluminum Foundry Ltd.
Aluminum Co. of Canada
Bird Aluminum Foundry Ltd.
Foilrapp Ltd.
Globe Foundry Ltd.
Kool Vent Awnings (B.C.) Ltd.
Major Aluminum Products Limited
McNeill Manufacturing Co. Ltd.
Metal-cal Ltd.
Pacific Aluminum House Ltd.
Pacific Aluminum Foundry Ltd.
Phoenix Advertising Co.

5325-1A St. SW., Calgary
Box 907. Bowness
3617 Blackburn Rd., Calgary
3436-15th St. E., Calgary
Essex
5 Crockford Blvd., Scarborough
arais Road Windso
Toronto
10 Jutland Rd., New Toronto
Haley
315 Breithaupt St. Kitchener
281 Birch Ave., Hamilton
63 Advance Road Toronto
40 Milford Ave.. Toronto
Killaly St. E., Port Colborne
St., Galt
aceburg

Grantham Ave St Catharines

145 Main St., Woodstock
Jia St., stevensulde
Queen Elizabeth Way \& Portage Rd. Niagara Falls
176 Norseman St., Toronto

- Bruce St., Oshawa

283 King St. W., Toronto
2486 Dufferin St. . Toronto
332 Horner Ave., Etobicoke Twp.
Arnold St., Wallaceburg
156 St. Helens Ave., Toronto
130 Oakland Ave." London
Research Rd. Brampton
2825 Dufferin St., Toronto
36 Rivalda Rd., Weston
175 Eileen Ave., Toronto
348 Greenwood Ave., Toronto
3600 Danforth Ave., Toronto
107 Dundes St w Toronto
45 Crockford Blvd., Scarborough
79 Fulton Ave. Brantford

3959 E. Hastings St., North Burnaby
210 Salsbury Dr., Vancouver
1260 Vulcan Way, Richmond
396 East Ist Ave., Vancouver
724 Kingsway, Vancouver
1250 Wlllard St., New Westminster
1870 West 1st Ave., Vancouver
5 West Second Avenue, Vancouver
2532 Yew St., Vancouver
59 Powell St., Vancouver
720 Homer St., Vancouver
1236 Pender St., Vancouver
5971 W, Boulevard, Vancouver


[^0]:    ${ }^{2}$ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of offlce 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

[^1]:    ${ }^{1}$ See note to text.
    Note: Profits or losses cannot be calculated from above figures as data are not avallable for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

[^2]:    ${ }^{\text { }}$ Includes aluminum ingots, bars and rods, foil, forgings, powder, rivets, sheets, tubing, boot and shoe lasts, bottle caps and seals, hair curlers, hat dies, etc. Figures for these commodities cannot be shown separately as in most cases there were only one or two producers in this industry.

[^3]:    chipments of $\$ 100,000$ and over. For smaller establishment 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 for the large establishments in conjunction with reported payrolls for the small establishments.

