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THE ALUMINUM PRODUCTS INDUSTRY 1959



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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
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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.
- ^p preliminary figures.

EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 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 1959 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

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials 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*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

THE ALUMINUM PRODUCTS INDUSTRY

1959

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-one factories were classified to this industry in 1959 these being 24 in Quebec; 52 in Ontario; 4 in Alberta and 11 in British Columbia. Employees in this industry numbered 6,787; salaries and wages totalled \$29,995,589; materials used in manufacturing processes cost \$63,956,586 and factory shipments were valued at \$106,411,905.

Output of aluminum cooking utensils in this industry was valued at \$5,832,925, but in addition, concerns in other industries made aluminum ware worth \$576,546 bringing the total for Canada to \$6,409,571. The corresponding total for 1958 was \$7,293,205.

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 1929-59, and by Provinces, 1958 and 1959

Year and province	Estab- lish- ments	Em- ployees	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
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	94	6,917	27,475,361	1,852,226	56,190,667	33,953,111	91,818,989
1958							
Quebec	23	2,143	10,476,054	429,812	29,260,620	7,546,064	37,323,538
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 Columbia	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
1959							
Quebec	24	2,226	10,828,385	504,624	28,512,707	11,466,200	40,258,641
Ontario	52	4,375	18,358,045	1,479,871	32,279,678	29,124,673	62,028,353
Alberta	4	17	51,297	2,966	49,445	84,814	147,888
British Columbia	11	169	757,862	110,524	3,114,756	1,797,685	3,977,023
Canada	91	6,787	29,995,589	2,097,985	63,956,586	42,473,372	106,411,905

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 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	1,319,474	1,366,187	1,287,245	3,972,906
Ontario	3,272,851	7,075,978	2,235,435	12,584,264
Alberta	9,198	10,800	654	20,652
British Columbia	578,686	22,238	214,119	815,043
Canada	5,180,209	8,475,203	3,737,453	17,392,865
Closing:				
Quebec	1,686,899	1,681,360	1,196,962	4,565,221
Ontario	3,554,402	7,930,983	2,236,299	13,721,684
Alberta	9,288	..	791	10,079
British Columbia	141,579	662,584	619,715	1,423,878
Canada	5,392,168	10,274,927	4,053,767	19,720,862

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 Aluminum Product Industry for the year under review are shown in the above table.

(c) The opening inventory for 1959 does not necessarily agree with the closing inventory for 1958 because of the addition of new plants, the transfer of plants to other industries, plants going out of business, etc. However, the value 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, 1958 and 1959

Product	1958		1959	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Castings, aluminum, (except die castings)	7,775,485	5,179,724	7,262,942	5,359,883
Castings, other (brass, bronze, magnesium, etc.) (except die castings)	650,069	610,719	303,032	294,533
Cooking utensils, aluminum .....	...	6,758,605	...	5,832,025
Die castings, aluminum base	233,079	191,951	1,406,674	698,341
Extruded shapes, aluminum	30,939,362	17,411,611	41,857,477	21,871,624
All other products ¹ .....	...	67,730,667	...	72,355,499
Totals .....	...	97,883,277	...	106,411,905

¹ 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.

TABLE 4. Materials Used in the Aluminum Products Industry, 1958 and 1959

Material	1958		1959	
	Pounds	Cost at works	Pounds	Cost at works
		\$		\$
Aluminum:				
Castings	203,877	146,251	11,058	19,776
Circles and forms for making hollow-ware	2,520,990	1,078,242	1,553,583	721,064
Ingots	208,980,714	46,917,926	219,199,193	47,212,052
Scrap	5,867,103	1,100,814	4,869,466	981,269
Sheets and strip	6,480,876	2,650,810	5,241,876	2,113,360
Rods	616,607	231,197	61,467	31,487
Tubing	345,175	248,753	244,501	223,699
Wire	68,136	33,907	68,684	34,391
Other .....	..	814,771	..	2,785,836
Brass and bronze:				
Ingots	470,003	121,363	43,724	14,342
Plates, sheets and strip	43,482	18,878	13,430	6,261
Other forms .....	...	81,310	...	94,954
Copper:				
Ingots	42,819	16,676	..	..
Plates, sheets and strip	87,949	40,733	..	..
Other forms .....	..	102,593	..	130,581
Magnesium	938,213	308,877	664,832	234,483
Zinc	150,479	16,814	115,834	12,863
Other non-ferrous metals .....	..	51,469	..	46,787
Stainless steel:				
Plates, sheets and strip	536,047	346,786	388,614	230,191
Other forms	393,350	329,984	366,843	331,571
Steel (except alloy steel):				
Plates, sheets and strip	2,900,978	248,059	1,292,730	114,255
Other forms	189,722	26,371	1,090,943	233,347
Trimnings, knobs, handles, etc., for utensils and hollow-ware .....	...	348,981	...	337,538
Shipping containers and packing materials .....	...	1,190,454	...	1,264,293
All other materials and process supplies ¹ .....	...	3,962,709	...	6,782,186
Totals .....	...	60,434,728	...	63,956,586

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$300,000. The total value of materials used by these firms was \$2,924,881 and this amount is included in "All other materials and process supplies".

TABLE 5. Total Production of Aluminum Hollow-ware and Kitchenware (from All Industries) 1950-59

Year	Selling value at works	Year	Selling value at works
	\$		\$
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
1954	7,976,000	1959	6,409,000

TABLE 6. Factory Shipments of Specified Aluminum Products (from All Industries) 1957-59

Year	Extruded shapes		Aluminum foil
	Pounds	Selling value of factory shipments	Selling value of factory shipments
		\$	\$
1957	25,653,777	13,406,790	10,379,154
1958	31,239,362	17,576,995	10,763,671
1959	41,857,477	21,871,624	11,277,800

TABLE 7. Principal Statistics of the Aluminum Products Industry, classified according to Type of Ownership, 1958 and 1959

Type	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number			dollars		
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
Totals	95	6,605	28,544,154	1,941,443	60,434,728	97,883,277
1959						
Individual ownership	13	59	160,300	12,407	192,655	448,101
Partnerships	3	24	84,840	4,249	69,324	214,481
Incorporated companies	75	6,704	29,750,449	2,081,329	63,694,607	105,749,323
Totals	91	6,787	29,995,589	2,097,985	63,956,586	106,411,905

TABLE 8. Principal Statistics of the Aluminum Products Industry, grouped according to Selling Value of Factory Shipments, 1958 and 1959

Establishments reporting a value of factory shipments	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number			dollars		
1958						
Under \$10,000	5	7	12,660	1,002	8,457	29,590
\$ 10,000 to \$ 24,999	9	24	49,153	4,400	55,532	142,894
25,000 " 49,999	10	47	132,979	13,968	145,051	341,532
50,000 " 99,999	16	121	425,677	20,179	454,270	1,089,096
100,000 " 199,999	18	250	895,686	51,052	948,282	2,637,235
200,000 " 499,999	17	472	1,643,668	106,914	2,823,875	5,381,818
500,000 " 999,999	5	307	1,128,052	70,254	1,606,116	3,422,360
1,000,000 " 4,999,999	11	1,354	5,525,490	492,321	14,022,637	23,234,089
5,000,000 and over	4	3,185	13,216,268	1,181,353	40,370,508	61,604,663
Head offices .....	...	838	5,514,521	...	...	...
Totals	95	6,605	28,544,154	1,941,443	60,434,728	97,883,277
1959						
Under \$10,000	7	8	16,489	1,378	11,705	42,282
\$ 10,000 to \$ 24,999	10	26	55,952	4,845	63,513	171,773
25,000 " 49,999	8	46	144,068	9,338	123,813	313,908
50,000 " 99,999	10	77	279,635	16,880	291,070	746,363
100,000 " 199,999	18	256	867,836	56,237	1,059,400	2,718,417
200,000 " 499,999	19	501	1,812,404	107,702	3,348,311	6,782,413
500,000 " 999,999	3	161	576,318	28,268	828,125	1,582,595
1,000,000 " 4,999,999	12	1,636	6,768,008	636,294	18,108,914	31,506,693
5,000,000 and over	4	3,257	14,404,206	1,237,043	40,121,735	62,547,458
Head offices .....	...	819	5,070,673	...	...	...
Totals	91	6,787	29,995,589	2,097,985	63,956,586	106,411,905

TABLE 9. Employees and their Earnings in the Aluminum Products Industry, by Provinces, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1958								
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, 635	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
1959								
Quebec	748	501	942	35	2, 226	7, 251, 510	3, 576, 375	10, 828, 385
Ontario	807	368	3, 001	199	4, 375	5, 691, 649	12, 666, 396	18, 358, 045
Alberta	6	—	10	1	17	20, 009	31, 288	51, 297
British Columbia	51	12	104	2	169	305, 230	452, 632	757, 862
Canada	1, 612	881	4, 057	237	6, 787	13, 268, 398	16, 727, 191	29, 995, 589

TABLE 10. Production Workers, by Months, 1959

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	3,512	189
February	3,547	192
March	3,606	185
April	3,683	200
May	3,670	193
June	3,611	197
July	3,634	189
August	3,672	182
September	3,727	199
October	3,728	192
November	3,716	196
December	3,610	183
Average for establishments reporting monthly detail	3,643	191
Average estimated for small establishments ²	413	45
Average for all establishments	4,056	236

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$300,000 and over.

² For establishments generally reporting value of shipments of less than \$300,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 11. Capital and Repair Expenditures in the Aluminum Products Industry, 1955-59

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						
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	953	3,238	4,191	403	3,023	3,426	7,617
1959 ^P	1,012	3,777	4,789	421	3,316	3,737	8,526

TABLE 12. Imports of Aluminum and its Products, 1958 and 1959

Item	1958		1959	
	Pounds	Value	Pounds	Value
		\$		\$
Aluminum in pigs, ingots, blocks, notch bars, slabs, billets and blooms	22,514,400	5,374,027	1,704,500	468,294
Aluminum scrap	502,000	65,668	1,236,400	159,494
Aluminum angles, channels, beams, tees and other rolled or drawn sections or shapes	2,373,800	1,374,406	1,161,700	806,611
Aluminum in bars, rods and wire	1,847,300	846,909	824,400	399,713
Aluminum leaf or foil .....	..	1,005,597	..	902,847
Aluminum pipes and tubes	1,045,500	812,996	1,014,400	594,699
Aluminum in plates, sheets, strips and circles	9,296,000	4,552,976	12,675,000	5,738,123
Aluminum powder	303,641	120,355	327,448	152,337
Aluminum wire and cable, twisted or stranded, reinforced with steel or not	2,700,900	978,725	746,800	330,418
Aluminum kitchen or household hollow-ware .....	...	1,598,846	...	1,501,440
Other manufactures of aluminum .....	...	12,936,782	...	14,311,528
Totals .....	...	29,667,287	...	25,365,504

TABLE 13. Exports of Aluminum and its Products, 1958 and 1959

Item	1958		1959	
	Tons	Value	Tons	Value
		\$		\$
Aluminum scrap	12,613	3,287,786	16,178	4,880,265
Aluminum in primary forms	482,977	208,841,586	505,342	212,287,703
Aluminum, semi-fabricated	17,390	10,313,075	25,158	13,515,512
Aluminum foil	172	213,614	148	167,777
Aluminum kitchen utensils and hollow-ware .....	...	27,576	...	29,286
Aluminum manufactures, n.o.p. ....	...	935,984	...	1,544,966
Totals .....	...	223,619,621	...	232,425,509

TABLE 14. Fuel and Electricity Used in the Aluminum Products Industry, 1959

Kind	Quantity	Cost at plant \$
1. Establishments reporting commodity detail: ¹		
Bituminous coal—Imported	ton 13,115	143,597
Anthracite coal	" 36	918
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 86,221	29,090
Fuel oil including kerosene or coal oil	" 3,876,223	416,264
Gas: (a) Liquefied petroleum gases	" 122,958	24,835
(b) Other manufactured gas	Mcf. 5,600	6,871
(c) Natural gas	" 187,704	169,675
Other fuel		6,269
Electricity purchased	kwh. 191,099,514	1,173,781
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	126,685
3. All establishments:		
Total cost of fuel and electricity .....	...	2,097,985

¹ Establishments generally reporting value of shipments of \$300,000 and over.² Establishments generally reporting value of shipments of less than \$300,000.

List of Firms in the Aluminum Products Industry, 1959

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

Name of firm	Address
Quebec:	
Alumcraft Corp.	9780 Waverly St., Montreal
Aluminum Co. of Canada, Limited	Arvida, Shawinigan Falls
Aluminum Extruders Ltd.	Ste-Thérèse de Blainville
Aluminum Foundry & Pattern Works, Limited	1345 Miron St., St. Laurent
Bel-Air Hastings Aluminum Products Ltd.	2123 St. Catherine, Montreal
Canadian Hat Block & Dies Co.	705 Notre Dame St. W., Montreal
Cassils & Co.	111 Port St., Montreal
Century Aluminum Works Corp.	Ville St-Reme, Napierville
Dominion Hat Block & Die Co.	7060 Alexandra St., Montreal
Giard, Leonard	775 Eeastern, Waterloo
Hunter, Douglas Ltd.	9500 St. Lawrence Blvd., Montreal
L'Hoir Inc.	225, rue St-Laurent, Lévis
Lilian-Russell Reg.	540 Beaudry St., Montreal
Metalite Company Ltd.	527, boul. St-Laurent, Cap-de-la-Madeleine
Modern Aluminum Products Co.	1520 Notre Dame St. W., Montreal
Montreal Tinning & Retinning Co. Ltd.	132 St. Peter St., Montreal
Primco Ltd.	15 Fournier Blvd., Hull
Produits d'Aluminum du Québec Ltée	15 Parent Ave., Lauzon
Reynolds Aluminum Co. of Canada Ltd.	Cap-de-la-Madeleine
Roll Up Aluminum Awnings Ltd.	268 Rue Ball, Sherbrooke
St. Johns Metal Stamping & Spinning	205 Boulevard de Séminaire, St-Jean
Spinning Craft Co. Ltd.	434 Rue St. Pierre, Montreal
Vic Aluminum Ware Ltd., The	9500 St. Lawrence Blvd., Montreal
Weather-Vane Aluminum Products Ltd.	3055 Verdun Ave., Verdun
Ontario:	
Air Shade Aluminum Awning Ltd.	Napanee
Almag Aluminum & Magnesium Ltd.	343 Munster Ave., Toronto
Alumaloy Castings, Limited	483 Eastern Ave., Toronto
Aluminum Co. of Canada Ltd.	15 Brown's Line, Etobicoke
Aluminum Co. of Canada Limited	Kingston
Aluminum Goods Limited	158 Sterling Road, Toronto
Aluminum Match Plates	888 Roselawn Ave., Toronto

List of Firms in the Aluminum Products Industry, 1959 - Concluded

Name of firm	Address
Ontario - Concluded:	
Aluminum Star Products	175 College St., Belleville
Artistic Aluminum Co. Ltd.	709 Main St. W., Hamilton
Canadian Mouldings Ltd.	400 Lacroix St., Chatham
Central Castings	Magnificent Rd., Etobicoke
Chesley-Sarnes	Essex
Chromedge (Canada) Ltd.	5 Crockford Blvd., Scarborough
City Foundry Co.	Grand Marais Road, Windsor
Coles, J., Aluminum Foundry	114 Sinnoth Rd., Scarborough
Demill Metal Patterns Ltd.	33 Haddington St., Galt
Dominion Aluminum Fabricating Ltd.	10 Jutland Rd., New Toronto
Dominion Magnesium Ltd.	Haley
Dunbar Aluminum Foundry Ltd.	315 Breithaupt 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
Formalum Limited	94 Bruce St., Oshawa
Galt Non-Ferrous Foundry	24 Davidson St., Galt
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
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
Ladd Industries	283 King St. W., Toronto
Millard Electric Ltd.	Highway No. 7, Perth
Monarch Aluminum Co.	2486 Dufferin St., Toronto
National Pattern Works	332 Horner Ave., Etobicoke Twp.
National Presto Industries of Canada Ltd.	Arnold St., Wallaceburg
Parcoll Products Ltd.	3560 Albion Rd., Ottawa
Precision Dies and Castings Division of Frybrook Ltd.	156 St. Helens Ave., Toronto
Queen East Foundry	96 Gould St. (Rear), Toronto
Ramsden Manufacturing Ltd.	130 Oakland Ave., London
Regal Die Casting Co. Ltd.	Research Rd., Brampton
Robertson, Joseph, Foundries Ltd.	4 Mansion Ave., Toronto
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 Factories Canada (1958) Ltd.	41 Lewis St., Fort Erie
Supreme Aluminum Industries Ltd.	3600 Danforth Ave., Toronto
Supreme Castings & Mfg. Co.	3317 Dufferin St., 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:	
Albronz Foundry Works	5325-1A St. SW., Calgary
Calgary Aluminum Awnings Ltd.	7935-34 Ave. N., Bowness
Cascade Machine Co.	3617 Blackburn Rd., Calgary
Siren Mfg. Co. Ltd.	3436-15th St. E., Calgary
British Columbia:	
A.A.A. Aluminum Products	3959 E. Hastings St., North Burnaby
Acme Aluminum Foundry Ltd.	210 Salsbury Dr., Vancouver
Aluminum Co. of Canada	1260 Vulcan Way, Richmond
Bird Aluminum Foundry Ltd.	396 East 1st Ave., Vancouver
Foillrapp Ltd.	724 Kingsway, Vancouver
Globe Foundry Ltd.	1250 Willard St., New Westminster
Kool Vent Awnings (B.C.) Ltd.	1233 Hornby St., Vancouver
Major Aluminum Products Ltd.	5 West Second Avenue, Vancouver
McNeill Manufacturing Co. Ltd.	2532 Yew St., Vancouver
Pacific Aluminum House Ltd.	720 Homer St., Vancouver
Pacific Aluminum Foundry Ltd.	1236 Pender St., Vancouver