

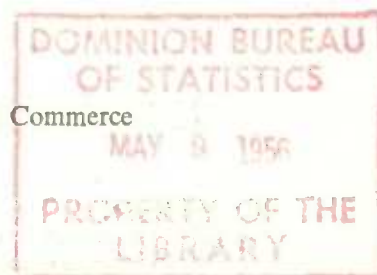


CANADA

THE ALUMINUM PRODUCTS INDUSTRY 1954

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I — General Review of the Manufacturing Industries, \$1.50
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
- VI — Leather Products
- VII — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
- X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
- XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

The present report belongs in Part XIV, Non-ferrous Metal Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A — General Review, 25¢
- B — The Aluminum Products Industry, 25¢
- C — The Brass and Copper Products Industry, 25¢
- D — The White Metal Alloys Industry, 25¢
- E — The Jewellery and Silverware Industry, 25¢
- F — The Non-ferrous Smelting and Refining Industry, 25¢
- G — The Miscellaneous Non-ferrous Metal Products Industry, 25¢

THE ALUMINUM PRODUCTS INDUSTRY

1954

As reviewed in this report, the Aluminum Products Industry covers only the operations of factories which were occupied chiefly in casting, rolling or fabricating aluminum to make bars, rods, sheets, wire, cable, foil, cooking utensils, etc. It does not include the primary aluminum smelters, as these works have been classified to the Non-ferrous Smelting and Refining Industry, which is reviewed in a separate pamphlet. 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-nine factories were classified to this industry in 1954, there being 25 in Quebec, 61 in Ontario, 1 in Manitoba, 5 in Alberta and 7 in British Columbia. Employees in this industry numbered 7,003; salaries and wages totalled \$23,814,217; materials used in manufacturing processes cost \$46,270,718, and factory shipments were valued at

\$80,523,167. This output value was 13.2 per cent below the \$92,724,065 of 1953.

Output of aluminum cooking utensils in this industry was valued at \$7,527,850, but, in addition, concerns in other industries made aluminumware worth \$447,753, bringing the total for Canada to \$7,976,000. In 1953 the corresponding total was \$8,187,000 and in 1952 it was \$8,142,000.

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

TABLE 1. Principal Statistics of the Aluminum Products Industry, Significant Years 1929-54, and by Provinces, 1953 and 1954

Year and province	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
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
1950	79	5,434	13,990,132	1,088,172	29,005,550	25,278,370	55,372,095
1951	84	7,156	20,583,599	1,533,277	40,479,898	42,142,997	84,156,172
1952	88	7,295	23,657,893	1,663,171	44,015,385	43,969,019	89,647,575
1953							
Quebec	24	2,286	7,981,204	365,647	22,952,618	10,025,105	33,343,370
Ontario	58	5,310	17,181,137	1,355,300	25,630,195	30,973,262	57,958,757
Manitoba	1	31	77,696	1,244	78,380	120,979	200,603
Alberta	4						
British Columbia	9	111	353,127	19,214	422,905	779,216	1,221,335
Canada	96	7,738	25,593,164	1,741,405	49,084,098	41,898,562	92,724,065
1954							
Quebec	25	2,232	7,868,637	372,456	24,623,162	8,434,437	32,937,880
Ontario	61	4,660	15,626,317	1,294,615	21,280,732	24,502,321	46,675,768
Manitoba	1	24	52,612	1,210	56,594	92,068	149,872
Alberta	5						
British Columbia	7	87	266,651	18,679	310,230	446,243	759,647
Canada	99	7,003	23,814,217	1,686,960	46,270,718	33,475,069	80,523,167

1. See footnote to text.

Note: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Inventories¹, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	1,799,259	670,372	1,429,842	3,899,473
Ontario	3,001,653	3,110,256	1,748,865	7,860,774
Manitoba and Alberta	4,705	10,005	—	14,710
British Columbia	30,632	34,782	154,929	220,343
Canada	4,836,249	3,825,415	3,333,636	11,995,300
Closing:				
Quebec	1,644,561	1,074,514	1,922,017	4,641,092
Ontario	2,607,431	3,524,613	2,150,765	8,282,909
Manitoba and Alberta	4,705	10,005	—	14,710
British Columbia	26,253	29,767	170,434	226,454
Canada	4,282,950	4,638,899	4,243,216	13,165,065

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.

TABLE 3. Products of the Aluminum Products Industry, 1953 and 1954

Product	Unit of measure	1953		1954	
		Quantity	Value of factory shipments	Quantity	Value of factory shipments
			\$		\$
Castings, aluminum, (except die castings)	lb.	10,298,437	6,682,503	7,592,632	5,192,642
Castings, other (brass, bronze, magnesium, etc.) (except die castings)	lb.	664,208	1,702,417	490,491	1,018,474
Cooking utensils, aluminum ¹	—	—	7,639,094	—	7,527,850
Die castings, aluminum base	lb.	738,641	524,284	743,965	630,134
Die castings, other base	lb.	207,262	221,350	14,255	7,752
Extruded shapes, aluminum	lb.	20,983,769	10,037,785	14,140,284	7,096,502
All other products ²	—	—	65,916,632	—	59,049,813
Total	—	—	92,724,065	—	80,523,167

1. In addition to the above output, aluminum cooking utensils valued at \$448,000 in 1954 and \$548,000 in 1953 were made as minor products by concerns in other industrial groups — See Table 5.

2. Includes aluminum ingots, bars and rods, foil, forgings, powder, rivets, sheets, tubing wire and cable, 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, 1953 and 1954

Material	1953		1954	
	Pounds	Cost at works	Pounds	Cost at works
		\$		\$
Aluminum:				
Castings	452,312	494,911	433,403	315,187
Circles and forms for making hollow-ware	4,492,734	1,748,171	3,574,440	1,410,285
Ingots	176,969,983	33,912,628	165,820,490	31,679,555
Scrap	2,185,319	341,612	5,054,609	616,506
Sheets	1,697,999	633,943	1,347,207	488,517
Strips	1,833,394	689,865	1,830,921	713,448
Rods	24,049,624	5,589,254	25,346,921	5,692,179
Tubing	275,937	181,127	408,419	258,473
Wire	174,654	97,740	116,558	68,564
Other	—	976,899	—	246,358
Brass and bronze:				
Ingots	136,248	41,926	164,051	47,545
Plates, sheets and strip	44,445	18,817	49,327	20,050
Other forms	16,906	7,224	65,414	21,597
Copper:				
Ingots	43,570	13,694	5,629	1,780
Plates, sheets and strip	50,272	21,774	55,200	19,082
Other forms	193,855	59,429	443,444	139,692
Lead	7,029	1,222	15,325	2,405
Magnesium	883,973	326,866	751,089	250,199
Zinc	70,144	13,115	140,176	18,902
Other non-ferrous metals	—	118,151	—	72,983
Stainless steel:				
Plates, sheets and strip	9,013	8,012	29,610	20,714
Other forms	126,340	102,536	183,860	145,930
Steel (except alloy steel):				
Plates, sheets and strip	1,884,992	138,271	1,607,861	130,229
Other forms	6,553,632	870,441	9,091,017	1,221,291
Trimnings, knobs, handles, etc., for utensils and hollow-ware	—	488,009	—	434,849
Shipping containers and packing materials	—	1,202,804	—	889,526
All other materials and process supplies	—	985,657	—	1,344,872
Total	—	49,084,098	—	46,270,718

TABLE 5. Total Production of Aluminum Hollow-ware and Kitchenware, 1945-1954

Year	Selling value at works	Year	Selling value at works
	\$		\$
1945	2,981,000	1950	8,521,000
1946	7,605,000	1951	9,128,000
1947	7,333,000	1952	8,142,000
1948	8,520,000	1953	8,187,000
1949	10,125,000	1954	7,976,000

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

TABLE 6. Principal Statistics of the Aluminum Products Industry, Classified According to Type of Ownership, 1953 and 1954

Type	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$	\$
1953						
Individual ownership	26	173	438,220	27,324	387,645	1,088,425
Partnerships	12	91	212,602	10,076	229,755	547,571
Incorporated companies.....	58	7,474	24,942,342	1,704,005	48,466,698	91,088,069
Total	96	7,738	25,593,164	1,741,405	49,084,098	92,724,065
1954						
Individual ownership.....	24	141	372,020	22,675	407,977	972,559
Partnerships	12	73	169,129	10,961	167,554	419,954
Incorporated companies.....	63	6,789	23,273,068	1,653,324	45,695,187	79,130,654
Total	99	7,003	23,814,217	1,686,960	46,270,718	80,523,167

TABLE 7. Principal Statistics of the Aluminum Products Industry, Grouped According to Size of Establishment, 1953 and 1954

Establishments reporting a value of factory shipments	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$	\$
1953						
Under \$25,000.....	25	66	131,233	8,349	89,631	238,951
\$25,000 to \$49,999	13	68	169,077	10,638	208,119	454,132
\$50,000 to \$99,999	20	239	578,891	27,961	607,638	1,572,508
\$100,000 to \$199,999	5	87	254,570	5,032	235,633	634,843
\$200,000 to \$499,999	14	460	1,330,058	88,540	1,767,467	4,180,359
\$500,000 to \$999,999	9	634	1,731,106	133,233	3,125,584	6,189,229
\$1,000,000 to \$4,999,999	4	547	1,478,619	90,851	2,419,357	6,409,162
\$5,000,000 and over.....	6	4,888	16,420,353	1,376,801	40,630,669	73,044,881
Head offices	—	749	3,499,257	—	—	—
Total	96	7,738	25,593,164	1,741,405	49,084,098	92,724,065
1954						
Under \$25,000.....	32	86	153,946	12,854	134,253	375,484
\$25,000 to \$49,999	11	61	153,111	7,723	198,127	434,395
\$50,000 to \$99,999	13	148	371,442	22,688	358,464	922,619
\$100,000 to \$199,999	10	165	557,846	35,564	513,995	1,437,863
\$200,000 to \$499,999	16	500	1,655,973	93,676	2,119,445	4,570,444
\$500,000 to \$999,999	7	343	1,133,862	87,910	2,573,099	5,092,615
\$1,000,000 to \$4,999,999	6	1,715	5,414,790	344,690	4,880,289	13,872,073
\$5,000,000 and over.....	4	3,181	10,806,134	1,081,855	35,493,046	53,817,674
Head offices	—	804	3,567,113	—	—	—
Total	99	7,003	23,814,217	1,686,960	46,270,718	80,523,167

TABLE 8. Employees and Their Earnings, in the Aluminum Products Industry, By Provinces, 1953 and 1954

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1953						\$	\$	\$
Quebec.....	754	430	1,042	60	2,286	4,869,357	3,111,847	7,981,204
Ontario.....	776	419	3,848	267	5,310	4,435,979	12,745,158	17,181,137
Manitoba	35	12	93	2	142	134,370	296,453	430,823
Alberta.....								
British Columbia								
Canada.....	1,563	861	4,983	329	7,738	9,439,706	16,153,458	25,593,164
1954								
Quebec.....	810	449	934	39	2,232	4,936,452	2,932,185	7,868,637
Ontario.....	782	403	3,215	260	4,660	4,686,820	10,939,497	15,626,317
Manitoba	8	—	16	—	24	14,850	37,762	52,612
Alberta.....								
British Columbia	21	5	57	4	87	92,664	173,987	266,651
Canada.....	1,621	857	4,222	303	7,003	9,730,786	14,083,431	23,814,217

TABLE 9. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
January.....	5,063	309	5,372	4,336	303	4,639
February.....	5,143	308	5,451	4,297	306	4,603
March	5,116	314	5,430	4,271	309	4,580
April.....	5,046	323	5,369	4,168	332	4,500
May	5,059	331	5,390	4,212	329	4,541
June	5,133	331	5,464	4,235	311	4,546
July.....	5,033	330	5,363	4,239	293	4,532
August	5,086	332	5,418	4,284	281	4,565
September.....	5,026	351	5,377	4,270	293	4,563
October.....	4,925	343	5,268	4,203	300	4,503
November	4,772	341	5,113	4,134	289	4,423
December	4,362	320	4,682	4,001	258	4,259
Average	4,983	329	5,312	4,222	303	4,525

TABLE 10. Capital and Repair Expenditures in the Aluminum Products Industry, 1950 - 1954

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	\$'000						
1950	92	793	885	276	1,432	1,708	2,593
1951	417	1,471	1,888	352	2,137	2,489	4,377
1952	224	1,006	1,230	352	2,820	3,172	4,402
1953	329	2,206	2,535	341	2,954	3,295	5,830
1954 ¹	142	984	1,126	363	2,399	2,762	3,888

1. Preliminary.

TABLE 11. Imports of Aluminum and its Products, 1953 and 1954

Item	1953		1954	
	Pounds	Value	Pounds	Value
		\$		\$
Aluminum in pigs, ingots, blocks, notch bars, slabs, billets and blooms	70,600	83,623	230,500	52,577
Aluminum scrap	249,600	24,009	190,300	21,275
Aluminum angles, channels, beams, tees and other rolled or drawn sections or shapes	1,427,200	774,417	856,400	503,775
Aluminum in bars, rods and wire	1,507,000	629,589	1,218,100	482,737
Aluminum leaf or foil	—	377,863	—	310,010
Aluminum pipes and tubes	1,192,200	846,642	1,309,900	613,837
Aluminum in plates, sheets, strips and circles	10,305,500	4,050,337	5,550,800	2,187,265
Aluminum powder	277,524	97,294	587,507	168,292
Aluminum wire and cable, twisted or stranded, reinforced with steel or not	140,300	76,617	3,082,400	824,680
Aluminum kitchen or household hollow-ware	—	1,457,920	—	1,374,452
Other manufactures of aluminum	—	8,023,509	—	9,759,148
Total	—	16,441,820	—	16,298,048

TABLE 12. Exports of Aluminum and its Products, 1953 and 1954

Item	1953		1954	
	Tons	Value	Tons	Value
		\$		\$
Aluminum scrap	13,454	3,805,992	13,923	3,888,927
Aluminum in primary forms	459,692	160,565,684	468,494	169,462,223
Aluminum, semi-fabricated	17,377	9,006,736	17,447	9,041,168
Aluminum foil	489	489,620	549	537,159
Aluminum kitchen utensils and hollow-ware	—	65,967	—	52,850
Aluminum manufactures, n.o.p.	—	3,921,834	—	1,532,162
Total	—	177,855,833	—	184,514,489

List of Firms in the Aluminum Products Industry, 1954

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:	
Aluminum Company of Canada, Limited.....	Arvida, Shawinigan Falls
Aluminum Extruders Ltd.	Ste-Thérèse de Blainville
Aluminum Foundry & Pattern Works, Limited	1345 Miron St., St. Laurent
Aluminum Rolling Mills Ltd.	Cap-de-la-Madeleine
Aluminum Ware of Canada	4403 La France St., Montreal
Aubin & Frère.....	St-Apollinaire
Canadian Hat Block & Dies Co.	705 Notre Dame St. W., Montreal
Cassils & Co.	111 Port St., Montreal
Century Aluminum Works Corp., The	St-Rémi
Dominion Hat Block & Die Co.	7060 Alexandra St., Montreal
Hunter, Douglas, Ltd.	9500 St. Lawrence Blvd., Montreal
Industrial Pattern & Foundry Works Reg'd.	1427 Maisonneuve St., Montreal
Koolvent Awning Ltd.	135 Clement St., Ville La Salle
La Fonderie De Lanoraie Ltée	431, rue St-Joseph, Lanoraie, Québec
L'Hoir Inc.	225, rue St-Laurent, Lévis
Maisonneuve, Simeon.....	85, rue Lahale, Pont Viau
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'Aluminium du Québec Ltée	637 St. Joseph St., Lauzon
Royal Aluminum Mfg. Co.	210 Mozart St. W., Montreal
St. Johns Metal Stamping & Spinning	205 Boulevard de Séminaire, St-Jean
Verdun Metal Spinning	2625 Albert St., Montreal
Vic Aluminum Ware Ltd., The	9500 St. Lawrence Blvd., Montreal
Ontario:	
A.B.M. Castings Limited	Horner Ave., New Toronto
Air Shade Aluminum Awning Co.	Napanee
Air Vent Aluminum Awning Co.	723 Wilson Heights Blvd., Downsview
Almag Aluminum & Magnesium Ltd.	343 Munster Ave., Toronto
Alumaloy Castings, Limited	483 Eastern Ave., Toronto
Aluminum Company of Canada Limited	Kingston; Long Branch
Aluminum Goods Limited	158 Sterling Road, Toronto
Aluminum Match Plates	888 Roselawn Ave., Toronto
Aluminum Star Products	175 College St., Belleville
Cametoid Ltd.	Ajax
Canadian Metalcraft Products	87A Awde Street, Toronto
Canadian Mouldings Ltd.	400 Lacroix St., Chatham
Central Castings	7 Rose Ave., Etobicoke
Chesley-Sarnes of Canada Ltd.	Essex
Chromedge (Canada) Ltd.	5 Crockford Blvd., Scarborough
City Foundry Co.	Grand Marais Road, Windsor
Clarkade Spinnings Limited	468 Gerrard St. E., Toronto
Coles, J., Aluminum Foundry	74 Market St., Toronto
Demill Metal Patterns	33 Haddington St., Galt
Dillon Foundry & Mfg. Co.	24 Davidson St., Galt
Dominion Aluminum Fabricating Ltd.	150 Seventh St., New Toronto
Dunbar Aluminum Foundry, Limited	315 Breithaupt St., Kitchener
Duro Aluminum Ltd.	281 Birch Ave., Hamilton
Everingham Bros. Ltd.	65 Advance Road, Toronto
Fedora Foundries	86½ Nassau St., Toronto
Fedora Industries	283 King St. W., Toronto
General Stampings Limited	137 Randall Ave., Oakville
Gordon Mfg. Co. Ltd.	Wallaceburg
Hamilton Aluminum Ware Manufacturing Co.	13 Ferguson Ave. N., Hamilton
Hamilton Match Plate Co.	265 Lottridge St., Hamilton
Harrington Aluminum Foundry	145 Main St., Woodstock
Hudson Aluminum Products Ltd.	492 Gilbert St., Toronto
Jeune Metal Products	15 Jenet Ave., Toronto
Kingsway Aluminum	380 King St. W., Oshawa
Koolvent Aluminum Awnings Limited.....	94 Bruce St., Oshawa
McColl Aluminum & Metal Industries Ltd.	155 Logan Ave., Toronto
Mendler Mfg. Co.	2540 George Ave., Windsor
Metal and Thermit Corporation	15 Emily St., Toronto
Monarch Aluminum Co.	2486 Dufferin St., Toronto
Moore & Webber	127 Willowdale St., Willdale
National Pattern Works	72 Horner Ave., Etobicoke Twp.
National Pressure Cooker Co. (Canada) Limited	Arnold St., Wallaceburg
Parcoll Products Ltd.	Albion Rd., Billings Bridge

List of Firms in the Aluminum Products Industry, 1954 - Concluded

Name of firm	Address
Ontario - concluded:	
Pettit Bros. Ltd.	536 Eastern Ave., Toronto
Precision Dies and Castings Ltd.	156 St. Helens Ave., Toronto
Queen East Foundry	Rear 96 Gould St., Toronto
Ramsden Manufacturing Ltd.	130 Oakland Ave., London
Regal Die Casting Co. Ltd.	6 Bartlett Ave., Toronto
S & W Manufacturing Co.	1-2nd Ave., Kingston
Selck, Walter E., & Co. of Canada, Ltd.	53 Tycos Dr., Toronto
Soren Manufacturing Company	2825 Dufferin St., Toronto
Spun Metals Ltd.	383 Weston Road, Toronto
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
Virgil Brass Foundry	Virgil
Werner, R.D., Co. (Canada) Ltd.	1155 Simcoe St. S., Oshawa
White Die Casting Co.	93 Ashley St., Hamilton
Wikobroda, Wm.	79 Fulton Ave., Brantford
Manitoba:	
Metal Spinning Co.	425 Atlantic Ave., Winnipeg
Alberta:	
Albronze Foundry Works	4820 McLeod Trail, Calgary
Calgary Aluminum Awnings Ltd.	2117-10th Ave. W., Calgary
Calta Metal Products Co.	1429-9th Ave. E., Calgary
Cascade Machine Co.	3617 Blackburn Rd., Calgary
Siren Mfg. Co. Ltd.	3436-15th St. E., Calgary
British Columbia:	
Bird Aluminum Foundry Ltd.	396 East 1st Ave., Vancouver
Foillrapp Ltd.	1030 Kingsway, Vancouver
Irrigation Products Ltd.	Osoyoos
Kool Vent Awnings (Western) Ltd.	2628 Yew St., Vancouver
MacPherson, D.B., & Son	1143 Pacific Highway, Cloverdale
Mayor Aluminum Products Limited	5 West Second Avenue, Vancouver
Metal-cal Ltd.	59 Powell St., Vancouver
Pacific Aluminum Foundry Ltd.	1236 Pender St., Vancouver

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