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Annual Industry Report

Manufactures of the Non-ferrous Metals Group

THE ALUMINUM PRODUCTS INDUSTRY, 1946

JUN 14 1946

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.

Fifty-three factories were classified to this industry in 1946, including 3 rolling mills. Of the remaining plants, 11 were occupied chiefly in the manufacture of miscellaneous castings, 2 made die castings, 1 made hat dies and blocks, 1 made thermit welding supplies, 11 made cooking utensils, 2 made aluminum powder, 6 made miscellaneous household items, 3 made boats and canoes and 13 made miscellaneous items.

Employees in this industry numbered 4,860; salaries and wages totalled \$8,959,446; materials used in manufacturing processes cost \$17,113,209, and production was valued at \$33,575,481. This value was 25.6 per cent over the \$26,738,152 of 1945.

Output of aluminum cooking utensils in this industry was valued at \$5,967,420 in 1946, but in addition, concerns in other industries made aluminumware worth \$1,638,050, bringing the total for Canada to \$7,605,470. In 1945 the corresponding total was \$2,981,151, and in 1944 it was \$412,216.

Note: This report was prepared by J. J. Parchelo, Statistician, Metal and Chemical Products.



Table 1 - PRINCIPAL STATISTICS OF THE ALUMINUM PRODUCTS INDUSTRY, 1936-1946

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
			\$	\$	\$	\$
1936	19	1,101	1,194,999	119,320	3,799,688	5,438,281
1937	18	1,345	1,535,112	140,180	4,525,571	7,156,243
1938	19	1,372	1,619,082	136,690	4,078,112	6,924,088
1939	23	1,570	1,742,420	160,946	4,562,803	7,178,334
1940	26	2,300	2,724,123	262,500	8,920,649	14,895,282
1941	20	3,127	4,094,085	428,465	8,552,035	18,148,205
1942	14	4,419	6,381,685	550,485	13,155,250	26,462,235
1943	17	5,938	8,763,823	758,124	15,136,675	32,936,285
1944	21	5,561	9,918,846	864,883	14,096,430	31,686,134
1945	32	4,677	8,142,816	808,214	12,981,173	26,738,152
1946	53	4,860	8,959,446	834,431	17,113,209	33,575,481
Per cent change, 1946 from 1945 ..	..	+3.9	+10.0	+3.2	+31.8	+25.6

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

Table 2 - EMPLOYEES, SALARIES AND WAGES, 1945 and 1946

	1945	1946
Salaried employees: Male	517	623
Female	245	256
Total	762	879
Wage-earners: Male	3,149	3,584
Female	766	397
Total	3,915	3,981
TOTAL EMPLOYEES	4,677	4,860
Salaries	\$ 1,772,247	2,086,855
Wages	\$ 6,370,569	6,872,591
TOTAL SALARIES AND WAGES	\$ 8,142,816	8,959,446

Table 3 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (On the last work day of each month)

Month	1945			1946		
	Male	Female	TOTAL	Male	Female	TOTAL
January	3,063	854	3,917	3,051	458	3,509
February	3,021	865	3,886	3,044	373	3,417
March	2,998	844	3,842	3,218	368	3,586
April	3,035	817	3,852	3,395	395	3,790
May	3,135	810	3,945	3,493	395	3,888
June	3,404	819	4,223	3,569	376	3,945
July	3,522	818	4,340	3,656	393	4,049
August	3,408	882	4,290	3,804	390	4,194
September	3,190	715	3,905	3,823	395	4,218
October	3,057	678	3,735	3,800	385	4,185
November	3,012	561	3,573	4,027	404	4,431
December	2,970	519	3,489	4,099	405	4,504
AVERAGE	3,149	766	3,915	3,584	397	3,981

Table 4 - FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal--Canadian	short ton	58	784	268	3,630
Imported	short ton	14,954	122,765	10,605	93,018
Anthracite coal	short ton	78	1,008	59	951
Coke	short ton	13,506	163,079	14,130	169,703
Gasoline	Imp.gal.	15,871	3,918	55,070	13,326
Kerosene	Imp.gal.	53,997	10,156	79,801	12,840
Fuel oil	Imp.gal.	802,080	71,788	1,381,546	94,195
Gas: Manufactured	M cu.ft.	59,751	47,225	59,169	49,177
Natural	M cu.ft.	7,800	5,329	11,317	8,274
Wood	cord	10	127	254	2,089
Other fuel .....	...	...	...	...	82
Electricity purchased ...	K.W.H.	95,636,772	382,035	114,073,693	387,146
TOTAL .....	...	...	808,214	...	834,431

Table 5 - POWER EQUIPMENT, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1945</u>				
Steam engines and steam turbines	7	294	...	...
Electric motors run by purchased power	2,100	30,472	95	475
Gasoline, gas and oil engines, other than Diesel .....	...	...	...	...
TOTAL	2,107	30,766	95	475
Stationary boilers for power purposes only	7	1,082	...	...
Motor-generator sets	28	6,087	2	170
<u>1946</u>				
Steam engines and steam turbines	6	215	...	...
Electric motors run by purchased power	2,498	31,942	131	886
Gasoline, gas and oil engines, other than Diesel .....	...	...	...	...
TOTAL	2,504	32,157	131	886
Stationary boilers for power purposes only	5	1,060
Motor-generator sets	40	5,967 k.v.a.	2	170 k.v.a.

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Table 6 - MATERIALS USED IN MANUFACTURING, 1945 and 1946

	1 9 4 5		1 9 4 6	
	Quantity	Cost at	Quantity	Cost at
	Lb.	works	Lb.	works
Aluminum -				
Castings	535,062	209,529	650,616	429,125
Circles and forms for making hollow-ware	1,043,602	294,377	3,737,971	964,401
Ingots	70,714,452	10,617,748	90,201,439	11,371,748
Scrap	983,433	153,858	836,470	68,006
Sheets	756,259	231,128	498,212	143,639
Strips .....	...	25	77,000	25,238
Rods	507,659	141,364	1,208	493
Wire	9,314	2,737	13,582	5,883
Other	42,199	14,688	616,263	376,710
Copper ingots, slabs, etc.	45,452	5,443	148,202	17,177
Magnesium metal	19,147	5,859	15,061	4,488
Silicon metal	311,592	42,380	257,268	33,770
Steel--Sheets and strips	129,961	19,230	274,700	26,595
Wire	2,050,002	132,613	4,963,579	372,442
Other .....	...	66	8,000	26,940
Zinc	5,605	320	622,729	45,692
Trimings, knobs, handles, etc. for utensils and hollow-ware..	...	141,371	...	339,130
Shipping containers and packing materials .....	...	194,512	...	119,021
All other materials and process supplies .....	...	774,925	...	2,742,711
TOTAL .....	...	12,981,173	...	17,113,209

Table 7 - PRODUCTS MADE, 1944-1946

Product	1 9 4 4	1 9 4 5	1 9 4 6
	\$	\$	\$
Cooking utensils (a)	291,029	2,025,252	5,967,420
All other products (b)	31,395,105	24,712,900	27,608,061
TOTAL	31,686,134	26,738,152	33,575,481

(a) In addition to the above output, aluminum cooking utensils valued at \$1,638,050 in 1946; \$955,899 in 1945; \$121,187 in 1944 were made as minor products by concerns in other industrial groups.

(b) Includes aluminum ingots, bars and rods, extruded shapes, foil, forgings, powder, rivets, sheets, tubing, wire and cable, boot and shoe lasts, bottle caps and seals, hair curlers, canoes and hat dies. Figures for these commodities cannot be shown separately as in each case there were only one or two producers in this industry.

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Table 8 - TOTAL PRODUCTION OF ALUMINUM HOLLOW-WARE AND KITCHENWARE IN CANADA, 1936-1946

Year	Selling value at works \$	Year	Selling value at works \$
1936	1,327,141	1942	343,079
1937	1,534,199	1943	280,608
1938	1,529,280	1944	412,216
1939	1,666,716	1945	2,981,151
1940	2,256,710	1946	7,605,470
1941	1,084,611		

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

Table 9 - EXPORTS FROM CANADA OF ALUMINUM AND ITS PRODUCTS, 1945 and 1946

	1945		1946	
	Tons	\$	Tons	\$
Aluminum in bars, blocks, ingots and blooms	382,286	121,778,512	187,336	49,146,887
Aluminum in rods, sheets, circles and plates	1,891	1,070,281	2,449	1,307,178
Aluminum kitchen utensils and hollow-ware .....	...	86,763	...	663,776
Aluminum wire and cable .....	...	1,049,797	...	1,219,416
Aluminum manufactures, other.	...	8,810,816	...	2,757,112
Aluminum scrap	6,517	770,825	6,458	935,670
TOTAL .....	...	133,566,994	...	56,030,039

Table 10 - IMPORTS INTO CANADA OF ALUMINUM AND ITS PRODUCTS. 1945 and 1946

	1945		1946	
	Quantity lb.	Value \$	Quantity lb.	Value \$
Aluminum in pigs, ingots, blocks, notch bars, slabs, billets and blooms	101,300	19,383	492,400	83,970
Aluminum scrap	640,800	47,118	1,165,100	108,640
Aluminum angles, channels, beams, tees and other rolled or drawn sections or shapes	30,700	14,692	87,200	72,024
Aluminum in bars, rods and wire..	526,400	131,791	498,000	57,280
Aluminum leaf or foil .....	...	69,437	...	97,861
Aluminum pipes and tubes	12,000	9,384	48,100	25,969
Aluminum in plates, sheets, strips and circles	1,633,200	476,162	8,336,100	2,314,616
Aluminum powder	4,638	4,435	22,794	19,449
Aluminum wire and cable, twisted or stranded, reinforced with steel or not	2,700	1,734	3,800	720
Aluminum kitchen or household hollowware .....	...	98,186	...	676,530
Other manufactures of aluminum ..	...	951,138	...	2,161,739
TOTAL .....	...	1,823,460	...	5,618,798

LIST OF FIRMS IN THE ALUMINUM PRODUCTS INDUSTRY, 1946

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.

<u>Name of Firm</u>	<u>Address</u>
<u>Quebec -</u>	
Aarfors Limited	955 14th Ave., Lachine
Aluminum Company of Canada, Limited	Isle Maligne, Arvida, Shawinigan Falls
Aluminum Foundry and Pattern Works, Limited	St. Philippe St., St. Laurent
Brehn, Chas. G. Reg'd.	130 Du Port St., Montreal
Cresswell Roll Forming Co. Ltd.	2150 Oxford Ave., Montreal
Fa-Let Aluminium Enrg.	St. Remi
Iabelle Aluminum Reg'd.	837 St. Paul W., Montreal
Les Ind. E. Hamel Enrg.	Saint Ephrem, Beauce
Les Produits d'Aluminium de Chicoutimi	Chicoutimi
Les Produits en Aluminium et Acier Inoxydable	
l'Hoir Inc.	229 St. Laurent St., Levis
Metalite Company Ltd.	507 Blvd. St. Laurent, Cap de la Madeleine
Raymond Manufacturing Company	719 Imperial Ave., Montreal
Richelieu Mfg. Co.	115 Salaberry St., Chambly Basin
Royal Aluminum Mfg. Co.	169 Belanger St., Montreal
Saguenay Aluminum Canoes Reg'd.	rue de la Pulpe, Chicoutimi
The Vic Aluminum Ware Ltd.	9500 St. Lawrence Blvd., Montreal
<u>Ontario -</u>	
Acme Aluminum Foundry	429 Main St., Weston
Aluminum Company of Canada, Limited	Toronto, Kingston, Long Branch
Alumaloy Castings, Limited	483 Eastern Ave., Toronto
Aluminum Goods Limited	158 Sterling Road, Toronto
Aluminum Match Plates	888 Roselawn Ave., Toronto
Canadian Die Casters	180 Beverley St., Galt
City Foundry Co.	Railway Ave., Windsor
Clark, George C. Metal Last Company. Inc.	1889 Sandwich St., Walkerville
Conway & Inrig Foundry Ltd.	73 Jarvis St., Toronto
Demill Metal Patterns	33 Haddington St., Galt
Dominion Aluminum Company	2264 Dundas St. W., Toronto
Dunbar Aluminum Foundry, Limited	315 Breithaupt St., Kitchener
General Stampings Limited	19 Randall Ave., Oakville
Gratton's Aluminum & Brass Foundry	2847 Dufferin St., Toronto
Gurbin, F., Eng. & Mfg. Co.	Irwin Ave., Essex
Hamilton Aluminum Mfg. Co.	13 Ferguson Ave. N., Hamilton
Hamilton Match Plate Co.	108 Burton St., Hamilton
Harrington Bros. Aluminum Foundry	145 Main St., Woodstock
Henry Engineering Co.	337 Talbot St., London
Hobrough Metal Products	Lucknow
McDermott Metal Products	303 King St. W., Toronto
Metal and Thermit Corporation	15 Emily St., Toronto
Modern Moulding & Metal Craft Co. Ltd.	20 Vincent St., Toronto
National Pressure Cooker Co. (Canada)	
Limited	Arnold St., Wallaceburg

LIST OF FIRMS IN THE ALUMINUM PRODUCTS INDUSTRY, 1946
(Concluded)

Name of Firm	Address
<u>Ontario (Concluded) -</u>	
Rideau Aluminum Boat Co. Ltd.	1320 Bank St., Ottawa
S. & W Manufacturing Co.	Division St. N., Kingston
Shaw, H. G., Company	24 Mercer St., Toronto
Sheffield Art Metal Co.	96A Bloor St. W., Toronto
Standard Metal Spinings	537 Dufferin St., Toronto
Super Health Aluminum Co. Ltd.	348 Greenwood Ave., Toronto
Wintrob, M. & Sons Ltd.	260 Spadina Ave., Toronto
Wright Aluminum Co. Ltd.	2889 Dufferin St., Toronto
<u>Manitoba -</u>	
Fisher, W. J. & Sons	60 Maryland St., Winnipeg
<u>British Columbia -</u>	
Major Aluminum Foundry Ltd.	5 W 2nd Ave., Vancouver

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