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## DEPARTMENT OF TRADE AND COMMERCE

## DOMINION BUREAU OF STATISTICS

## CENSUS OF INDUSTRY

## MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA, CANADA

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NO REP'

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## ANNUAL INDUSTRY REPORT - MANUFACTURES OF THE NON-FERROUS METALS GROUP

## THE ALUMINIUM PRODUCTS INDUSTRY, 1940.

As reviewed in this report the Aluminium Products Industry covers only the operations of factories which were occupied chiefly in casting, rolling or fabricating aluminium to make bars, rods, sheets, wire, cable, foil, cooking utensils, etc. It does not include the two aluminium smelters, one at Arvida, Quebec, and one at Shawinigan Falls, Quebec, 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 aluminium castings, cable, utensils, etc., which were made as secondary or minor products of brass and iron foundries or other manufacturing establishments.

Twenty-six factories were classified to this industry in 1940, including 3 rolling mills. Of the remaining plants, 8 were occupied chiefly in the manufacture of kitchen utensils and hollowware, 3 made miscellaneous stampings and spinnings, 2 made hat dies and blocks, 2 made hair curlers, 2 made die castings, and the following lines were each the principal product of 1 plant: boot and shoe lasts, thermit welding portions, bottle caps and seals, window accessories, wallboard moulding and aluminium foil.

Capital employed by these concerns amounted to \$14,735,022; employees numbered 2,300, salaries and wages totalled \$2,724,123, materials used in manufacturing processes cost \$8,920,649 and their production was valued at \$4,895,282. This value was 107 per cent over the \$7,178,354 of 1939.

Output of aluminium cooking utensils in this industry was value at \$1,776,-353 in 1940, but in addition, concerns in other industries made aluminiumware worth \$480,357, bringing the total for Canada to \$2,256,710. In 1939 the total was reported at \$1,666,716 and in 1938 at \$1,529,280.

Table 1 - PRINCIPAL STATISTICS OF THE ALUMINIUM PRODUCTS INDUSTRY, 1931 - 1940.

Year	No. of plants	Capital employed	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
			\$	\$	\$	\$	\$
1931 ....	14	4,540,834	793	923,546	79,364	2,066,351	3,537,764
1932 ....	14	3,906,196	661	678,400	66,628	1,375,902	2,703,212
1933 ....	15	3,654,541	638	671,267	77,615	1,458,444	2,778,274
1934 ....	16	5,759,900	789	826,597	104,115	2,115,100	3,745,433
1935 ....	19	3,791,756	998	1,089,487	128,653	3,258,510	4,992,640
1936 ....	19	3,884,241	1,101	1,194,999	119,520	3,799,688	5,453,231
1937 ....	18	4,630,491	1,345	1,535,112	140,180	4,525,571	7,156,243
1938 ....	19	4,798,835	1,372	1,619,082	136,690	4,078,112	6,924,088
1939 ....	23	6,731,669	1,570	1,742,420	160,946	4,562,803	7,178,354
1940 ....	26	14,735,022	2,300	2,724,123	262,500	8,920,640	14,895,282

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FOOTNOTE TO TABLE 1 -- 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, insurance, advertising, etc.

Table 2 - CAPITAL EMPLOYED, 1939 and 1940.

Capital employed - as represented by:	1939	1940
	\$	\$
Present value of lands, buildings, machinery and other equipment .....	5,377,641	8,131,617
Inventory value of materials, finished products, fuel and other supplies on hand, and stocks in process .....	1,683,559	3,093,135
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.) .....	1,700,469	3,510,270
<b>TOTAL .....</b>	<b>6,761,669</b>	<b>14,735,022</b>

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1939 and 1940.

	1939	1940
Salaried Employees .....		
Male .....	182	278
Female .....	74	115
Total ...	256	593
Wage-earners .....		
Male .....	1,191	1,725
Female .....	123	182
Total ...	1,314	1,907
<b>TOTAL EMPLOYEES ..</b>	<b>1,570</b>	<b>2,300</b>
Salaries .....	\$ 413,329	\$ 561,169
Wages .....	\$ 1,329,091	\$ 2,162,954
<b>TOTAL SALARIES AND WAGES ...\$</b>	<b>1,742,420</b>	<b>2,724,123</b>

Table 4 - EAGE-EARNERS, BY MONTHS, 1939 and 1940. (On the last day of each month)

Month	1 9 3 9			1 9 4 0		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	1,016	109	1,125	1,248	172	1,420
February .....	1,002	109	1,111	1,257	180	1,437
March .....	988	115	1,103	1,285	188	1,473
April .....	1,032	120	1,152	1,280	174	1,454
May .....	1,049	112	1,161	1,362	164	1,526
June .....	1,086	115	1,211	1,524	173	1,701
July .....	1,146	123	1,269	1,916	185	2,101
August .....	1,154	125	1,277	1,856	190	2,146
September .....	1,236	128	1,364	2,014	192	2,206
October .....	1,254	137	1,371	2,025	184	2,207
November .....	1,231	148	1,379	2,164	179	2,343
December .....	1,233	144	1,377	2,189	191	2,380
AVERAGE .....	1,191	125	1,314	2,118	172	22,490

Table 5 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1940.

Hours per week	Number of wage-earners	Per cent of total earners	Hours per week	Number of wage-earners	Per cent of total earners
30 hours or less ..	62	2.7	33 hours .....	121	0.1
31 - 43 hours .....	115	5.0	56 - 64 hours ....	348	15.0
44 hours .....	183	8.0	65 hours or over..	33	1.4
45 - 47 hours .....	102	4.4	TOTAL .....	2,317	100.0
48 hours .....	782	35.7	Total earnings in selected week ...	\$58,227	
49 - 50 hours .....	122	9.6			
51 - 54 hours .....	329	14.1			

Table 6 - FUEL AND ELECTRICITY USED, 1939 and 1940.

Kind	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian	short ton	59	587	111	1,163
Imported	short ton	3,024	19,891	4,190	29,177
Anthracite coal .....	short ton	9	122	23	262
Coke .....	short ton	2,616	21,640	2,731	26,699
Gasoline .....	Imp. gal.	2,887	713	1,244	343
Kerosene .....	Imp. gal.	4,375	731	5,152	901
Fuel oil .....	Imp. gal.	163,541	10,477	311,201	20,848
Gas - Manufactured .....	M cu. ft.	10,113	8,625	18,624	14,033
Natural .....	M cu. ft.	5,717	3,181	9,252	4,975
Wood .....	cord	2	20	2	24
Electricity purchased ....	K. W. H.	15,274,375	94,350	20,497,787	164,075
TOTAL .....	\$	...	160,946	...	262,500

Table 7 - POWER EQUIPMENT, 1939 and 1940.

		Ordinarily in use		In reserve or idle	
		Number of units	Total rated horsepower	Number of units	Total rated horsepower
<u>1939</u>					
Electric motors run by purchased power..	579	7,994	16	92	
TOTAL .....	579	7,994	16	92	
Stationary Boilers .....	7	710	2	275	
<u>1940</u>					
Steam engines and steam turbines .....	1	10	-	-	
Electric motors run by purchased power..	916	15,115	20	133	
TOTAL .....	917	15,125	20	133	
Stationary Boilers .....	8	1,085	3	300	

Table 8 - MATERIALS USED IN MANUFACTURING, 1939 and 1940.

	1 9 3 9		1 9 4 0	
	Short tons	Cost at works	Short tons	Cost at works
Aluminium castings, ingots, scrap, sheets, rods, wire, etc.	9,257	\$3,547,405	17,812	\$7,532,099
Aluminium circles and forms for making hollow-ware .....	965	522,995	1,175	697,780
Trimmings, knobs, handles, etc., for utensils and hollow-ware	-	132,438	-	112,872
All other materials .....	-	359,935	-	577,898
TOTAL .....	-	4,562,803	-	8,920,549

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Table 9 - PRODUCTS MADE, 1938, 1939 and 1940.

Products	1938	1939	1940
	\$	\$	\$
Cooking utensils (a) .....	1,361,185	1,483,154	1,776,353
All other products (b) .....	5,562,903	5,695,180	13,118,929
TOTAL .....	6,924,088	7,178,334	14,895,282

- (1) In addition to the above output, aluminium cooking utensils valued at \$480,357 in 1940, \$183,562 in 1939 and \$168,095 in 1938 were made as minor products by concerns in other industrial groups.
- (b) Includes aluminium wire, cable, rods, bars, sheets, castings, hat dies and boot and shoe lasts; also wooden hat blocks, electric space heaters and zinc die castings. Figures for these commodities cannot be shown separately as in each case there were only one or two producers in this industry.

Table 10 - TOTAL PRODUCTION OF ALUMINIUM HOLLOW-WARE AND KITCHENWARE IN CANADA, 1925 - 1940.

NOTE - This table shows total production in Canada regardless of the industry in which produced.

Year	Selling value at works	Year	Selling value at works
	\$		\$
1925 .....	1,056,920	1933 .....	969,948
1926 .....	1,028,261	1934 .....	1,173,877
1927 .....	1,571,269	1935 .....	1,528,527
1928 .....	1,457,679	1936 .....	1,327,141
1929 .....	1,303,010	1937 .....	1,554,199
1930 .....	1,671,984	1938 .....	1,522,230
1931 .....	1,303,108	1939 .....	1,666,716
1932 .....	1,042,433	1940 .....	2,256,710

Table 11 - EXPORTS FROM CANADA OF MANUFACTURES OF ALUMINIUM, Calendar Years 1939 and 1940.

	1939	1940
	\$	\$
Aluminium kitchen utensils and hollow-ware .....	12,838	13,839
Aluminium wire and cable (From January 1, 1939) ..	242,010	203,065
Aluminium manufactures, n.o.p. .....	223,824	934,375

NOTE - The letters "n.o.p." mean "Not otherwise provided for" in the trade classification. This item does not include ingots, bars, blocks, scrap, etc., which are listed separately in the trade report.

Aluminum Products.

DIRECTORY OF FIRMS INCLUDED IN THE ALUMINIUM PRODUCTS INDUSTRY IN CANADA, 1940.

<u>Name of Firm</u>	<u>Location of Plants</u>	<u>Products reported, 1940.</u>
<u>QUEBEC</u>		
Aluminum Company of Canada Ltd.	Shawinigan Falls	Aluminium rods, bars, wire, cable and cable fittings, moulding and tubing.
Aluminium Moderne Enrg.	11245 Victoria St., Montreal East	Aluminium cooking utensils.
Brasloff, Jack	699 St. James St. W., Montreal	Metal hat blocks and dies.
International Foils Ltd.	300 St. Laurent St., Cap de la Madeleine	Aluminium foil.
L'Hoir, G. A.	229 St. Laurent St., Lévis	Aluminium cooking utensils and sap buckets.
Produits Perfection	6538 Christophe Colomb, Montreal	Aluminium window dressings.
Solo Products Ltd.	1224 St. Catherine St. W., Montreal	Aluminium hair accessories.
<u>ONTARIO</u>		
Aluminum Company of Canada,	Kingston	Bars, rods, sheets, tubing, etc.
Aluminum Company of Canada, Limited	153 Sterling Road, Toronto	Aluminium ingots, sheets, bars, rods, castings, foil, wire, rivets, seals, screw machine products, cable accessories, etc.
Aluminium Goods Limited	153 Sterling Road, Toronto	Aluminium cooking utensils and bottle caps and seals, machine parts.
Aluminium Ware Mfg. Co. Ltd.	20 Dundas St., Oakville	Aluminium cooking utensils.
Canadian Die Casters	Beverly St., Galt	Aluminium brass & zinc base die castings.
Clark, Geo. C., Metal Last Co.	1889 Sandwich St., Walkerville.	Aluminium boot and shoe lasts.
Duro Aluminium Limited	30 Park St. N., Hamilton	Aluminium cooking utensils.
Hamilton Aluminum Ware Co.	13 Ferguson Ave. N., Hamilton.	Aluminium cooking utensils.
Hudson Aluminum Ware	370 Dufferin St., Toronto	Aluminium spinnings and stampings.
Metal Stampings, Limited	5600 Danforth Ave.,	Aluminium cooking utensils, electric space heaters and government munitions supplies.
Metal & Thermit Corporation	15 Emily St., Toronto	Rail welding portions, forgings thermit.



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Aluminium Products

DIRECTORY OF FIRMS INCLUDED IN THE ALUMINIUM PRODUCTS INDUSTRY IN CANADA, 1940.  
(Concluded)

Name of Firm	Location of Plants	Products reported, 1940.
<u>ONTARIO - (Concluded)</u>		
Modern Aluminum & Brass Foundry	(rear) 34 Walton St. Toronto	Aluminium and brass castings.
Modern Moulding & Metal Craft Co. Ltd.	2466 Dundas St. W., Toronto	Aluminium bars and rods.
Oakville Machine Works	Randall St., Oakville	Aluminium and steel stampings.
Shaw, H. G.	24 Mercer St., Toronto	Aluminium hat dies and wood hat blocks.
Soren Mfg. Co.	11 Brant St., Toronto	Aluminium cooking utensils.
Sterling Aluminum Co. Limited	2466 Dundas St. W., Toronto	Aluminium cooking utensils.
Super Health Aluminum Co. Ltd.	107 McGill St., Toronto	Aluminium cooking utensils, aluminium stampings and spinnings.
Wintrob, M., & Sons, Ltd.	30 Duncan St., Toronto	Aluminium hair curlers and cigarette lighters.

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