

DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)  
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.  
Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

MANUFACTURES OF THE NON-FERROUS METALS GROUP

THE ALUMINIUM PRODUCTS INDUSTRY, 1938

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, commercial castings, boot and shoe lasts, 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.

Nineteen factories were classified in this industry in 1938, including 2 rolling mills, 8 establishments engaged chiefly in making cooking utensils, 3 in making hat dies, 1 in making boot and shoe lasts, 1 in making die castings, 1 in making thermit rail welding materials, 2 in making miscellaneous stampings and spinings, and 1 in making aluminium curlers and wave clips. Capital employed by these concerns amounted to \$4,798,955, employees numbered 1,372, salaries and wages totalled \$1,619,082, materials used in manufacturing processes cost \$4,078,112 and production was valued at \$6,924,088. This output value was 3 per cent less than in 1937 which in turn was 32 per cent over 1936.

Output of aluminium cooking utensils in this industry was valued at \$1,361,185 in 1938 but, in addition, concerns in other industries made aluminium-ware worth \$168,095, bringing the total for Canada to \$1,529,280. In 1937 the total was reported at \$1,534,199 and in 1936 at \$1,327,141.

Table 1 - PRINCIPAL STATISTICS OF THE ALUMINIUM PRODUCTS INDUSTRY, 1931 - 1938

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	2,066,851	3,597,764
1932 ...	14	3,906,196	661	678,400	66,628	1,375,902	2,703,212
1933 ...	15	3,654,541	638	671,237	77,615	1,458,444	2,778,274
1934 ...	16	3,759,900	789	826,597	104,115	2,115,100	3,745,433
1935 ...	19	3,791,756	998	1,089,487	128,653	3,258,310	4,992,640
1936 ...	19	3,884,241	1,101	1,194,999	119,320	3,799,638	5,438,281
1937 ...	18	4,630,491	1,345	1,535,112	140,180	4,525,571	7,156,243
1938 ...	19	4,798,855	1,372	1,619,082	136,690	4,078,112	6,924,088

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 - CAPITAL EMPLOYED, 1937 and 1938

Capital employed - as represented by:	1 9 3 7	1 9 3 8
	\$	\$
Present value of lands, buildings, machinery and other equipment .....	2,244,466	2,324,313
Inventory value of materials, finished products, fuel and other supplies on hand, and stocks in process .....	991,147	938,674
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.) .....	1,394,878	1,535,868
TOTAL .....	4,630,491	4,798,855

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1937 and 1938

	1 9 3 7	1 9 3 8
Salaried Employees .....		
Male .....	138	159
Female .....	55	58
Total .....	193	217
Wage-earners .....		
Male .....	1,022	1,045
Female .....	130	110
Total .....	1,152	1,155
TOTAL EMPLOYEES .....	1,345	1,372
Salaries .....	\$ 335,984	\$ 385,278
Wages .....	\$ 1,199,128	\$ 1,233,840
TOTAL SALARIES and WAGES .....	\$ 1,535,112	\$ 1,619,082

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES and CAPITAL EMPLOYED, 1938

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(a) PRODUCTION				
Under \$25,000 .....	8	169,271	29	77,227
\$25,001 to \$100,000 .....	4	224,694	84	257,515
Over \$100,000 .....	7	4,404,890	1,259	6,589,346
Total .....	19	4,798,855	1,372	6,924,088
(b) NUMBER OF EMPLOYEES				
Under 10 .....	8	169,271	29	77,227
10 and over .....	11	4,629,584	1,343	6,846,861
Total .....	19	4,798,855	1,372	6,924,088
(c) CAPITAL EMPLOYED				
Under \$25,000 .....	8	104,359	37	95,128
\$25,001 to \$100,000 .....	3	153,130	41	151,182
Over \$100,000 .....	8	4,541,366	1,294	6,677,778
Total .....	19	4,798,855	1,372	6,924,088



Table 5 - WAGE-EARNERS, BY MONTHS, 1937 and 1938 (On the 15th of each month)

Month	1 9 3 7			1 9 3 8		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	906	110	1,016	1,161	116	1,277
February .....	914	118	1,032	1,127	113	1,240
March .....	921	121	1,042	1,053	114	1,167
April .....	975	125	1,100	1,043	115	1,158
May .....	976	124	1,100	984	111	1,095
June .....	985	134	1,119	1,000	117	1,117
July .....	1,063	140	1,203	1,015	112	1,027
August .....	1,072	139	1,211	1,034	104	1,138
September .....	1,075	140	1,215	1,048	123	1,171
October .....	1,112	136	1,248	1,042	104	1,146
November .....	1,140	135	1,275	1,009	101	1,110
December .....	1,128	128	1,256	1,019	92	1,111
AVERAGE .....	1,022	130	1,152	1,045	110	1,155

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1938

Hours per week	Per cent of wage-earners	Hours per week	Per cent of wage-earners
30 hours or less .....	2.6	49 - 50 hours .....	5.7
31 - 43 hours .....	13.2	51 - 54 hours .....	1.4
44 hours .....	26.1	55 hours .....	2.6
45 - 47 hours .....	13.5	56 - 64 hours .....	0.5
48 hours .....	34.0	65 hours or over ....	0.4

Table 7 - FUEL AND ELECTRICITY USED, 1937 and 1938

Kind	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	short ton	61	579	40	327
Imported	short ton	2,107	12,566	2,183	13,178
Anthracite coal .....	short ton	3	45	26	348
Coke .....	short ton	2,798	25,220	2,559	20,440
Gasoline .....	Imp. gal.	3,435	835	2,419	643
Kerosene .....	Imp. gal.	2,066	404	3,470	634
Fuel oil .....	Imp. gal.	120,722	9,785	120,028	9,433
Gas - Manufactured .....	M cu. ft.	10,077	8,876	9,681	8,171
Natural .....	M cu. ft.	8,903	4,828	4,651	2,619
Wood .....	cord	5	51	2	20
Electricity purchased ....	K. W. H.	10,463,792	76,991	13,957,249	80,877
TOTAL .....	\$	...	140,180	...	136,690

Table 8 - POWER EQUIPMENT, 1937 and 1938

	1 9 3 7		1 9 3 8	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines .....	...	...	...	...
Total Primary Equipment .....	...	...	...	...
Electric motors run by purchased power	337	6,565	465	7,257
TOTAL .....	337	6,565	465	7,257
Stationary boilers .....	4	525	6	660

Table 9 - MATERIALS USED IN MANUFACTURING, 1937 and 1938

Materials	1 9 3 7		1 9 3 8	
	Short tons	Cost at works	Short tons	Cost at works
		\$		\$
Aluminium ingots, sheets, circles, etc. ...	10,830	4,118,972	10,295	3,741,609
Handles, trimmings, etc. ....	...	123,658	...	122,545
All other materials ....	...	282,941	...	213,958
TOTAL .....	...	4,525,571	...	4,078,112

Table 10 - PRODUCTS MADE, 1936, 1937 and 1938

Products	1 9 3 6	1 9 3 7	1 9 3 8
	\$	\$	\$
Cooking utensils (a) .....	1,143,692	1,337,216	1,361,185
All other products (b) .....	4,294,589	5,819,027	5,562,903
TOTAL .....	5,438,281	7,156,243	6,924,088

(a) In addition to the above output, aluminium cooking utensils valued at \$168,095 in 1938, \$196,983 in 1937 and \$183,449 in 1936 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 plaster 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 11 - TOTAL PRODUCTION OF ALUMINIUM HOLLOW-WARE AND KITCHENWARE IN CANADA, 1925 - 1938

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	1932 .....	1,042,438
1926 .....	1,028,261	1933 .....	969,948
1927 .....	1,571,269	1934 .....	1,173,877
1928 .....	1,457,679	1935 .....	1,328,527
1929 .....	1,303,010	1936 .....	1,327,141
1930 .....	1,671,984	1937 .....	1,534,199
1931 .....	1,303,108	1938 .....	1,529,280

Table 12 - EXPORTS FROM CANADA OF MANUFACTURES OF ALUMINIUM, BY COUNTRIES OF DESTINATION - (Calendar Years 1937 and 1938)

Country of Destination	1 9 3 7	1 9 3 8
	Aluminium kitchenware and hollowware \$	Manufactures of aluminium, n.o.p. \$
Argentina .....	...	12,090
Australia .....	15	20,003
Bolivia .....	...	6,242
Brazil .....	...	4,021
British India .....	...	158,926
Chile .....	...	13,289
China .....	...	32,317
Cuba .....	...	2,654
Mexico .....	...	10,369
New Zealand .....	129	46,216
Peru .....	1,042	4,925
Portugal .....	...	16,164
Sweden .....	...	19,878
United Kingdom .....	14,475	107,842
United States .....	112	76,752
Venezuela .....	...	32,425
Other countries .....	6,007	69,155
TOTAL .....	21,780	633,268

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.

DIRECTORY OF FIRMS INCLUDED IN THE ALUMINIUM PRODUCTS INDUSTRY IN CANADA, 1938

<u>Name of Firm</u>	<u>Location of Plants</u>	<u>Products reported 1938</u>
<u>QUEBEC -</u>		
Aluminum Company of Canada Limited	Shawinigan Falls	Aluminium rods, bars, wire, cable and cable fittings.
Aluminium Moderne Enrg.	11245 Victoria St., Montreal East	Aluminium cooking utensils.
Brasloff, Jack	669 St. James St. W., Montreal	Metal hat blocks and dies.
<u>ONTARIO -</u>		
Aluminum Company of Canada Limited	158 Sterling Road, Toronto	Aluminium sheets, castings, foil, wire, rivets, seals, screw machine products, cable accessories, etc.



DIRECTORY OF FIRMS INCLUDED IN THE ALUMINIUM PRODUCTS INDUSTRY IN CANADA, 1938 - Con.

<u>Name of Firm</u>	<u>Location of Plants</u>	<u>Products reported 1938</u>
<u>ONTARIO - Concluded</u>		
Aluminium Goods Limited	158 Sterling Road, Toronto	Aluminium cooking utensils, aluminium scrap, machine parts.
Aluminium Ware Mfg. Co. Ltd.	20 Dundas St., Oakville	Aluminium cooking utensils and stampings.
Canadian Die Casters	Beverly St., Galt	Aluminium and brass die castings.
Clark, Geo. C., Metal Last Co.	1889 Sandwich St., Windsor	Aluminium boot and shoe lasts.
Duro Aluminium Limited	80 Park St. N., Hamilton	Aluminium cooking utensils, aluminium scrap.
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	435 Fleet St. W., Toronto	Aluminium cooking utensils, electric space heaters.
Metal & Thermit Corporation	15 Emily St., Toronto	Rail welding portions, forging thermit.
Oakville Machine Works	Randall St., Oakville	Aluminium and steel stampings.
Shaw, H. G.	24 Mercer St., Toronto	Aluminium hat dies and wood hat blocks.
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 castings.
Toronto Hat Block & Die	380 King St. W., Toronto	Aluminium and plaster hat blocks and dies.
Wintrob, M., & Sons, Ltd.	30 Duncan St., Toronto	Aluminium hair curlers and wave-clips, novelty jewellery.