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MANUFACTURES OF THE NON-FERROUS METALS

THE ALUMINIUM PRODUCTS INDUSTRY, 1934

The aluminium products industry for which statistics are given in this bulletin includes the factories in Canada which were engaged chiefly in making aluminium articles such as kitchen utensils, etc. The large aluminium smelters at Arvida, P.Q., and Shawinigan Falls, P.Q., are not included in this group as these works have been classified to the Non-Ferrous Smelting and Refining Industry which is reviewed in a separate bulletin. In connection with the smelter at Shawinigan Falls there is a large fabricating mill in which wire and other such products are manufactured but all information for this department has been included in the general report for the smelter at that point. Therefore the data given in this bulletin are incomplete to the extent that they do not cover the manufacture of aluminium products at Shawinigan Falls. Aluminium castings were made also in brass and iron foundries, but as the casting of aluminium was only a small part of their business such works were necessarily classified to the brass and iron industries.

Production from this industry in 1934 was valued at \$3,745,433 an increase of 35 per cent over the 1933 total of \$2,773,274. Sixteen plants were in operation and nine of these were engaged chiefly in the manufacture of cooking utensils and hollow-ware. Capital employed by these concerns amounted to \$3,759,900 of which \$1,793,118 was the value of lands, buildings and equipment. The number of employees was 789 and payments in salaries and wages to these workers totalled \$826,597. Materials used in manufacturing, chiefly aluminium sheets and circles, cost \$2,115,100 delivered at the works.

Nine plants in this industry manufactured aluminium kitchenware, 1 made fabricated products, and among the products made by the other concerns were hot blocks and dies, boot and shoe lasts, rail welding portions, forging and nickel thermit, electric heaters, hair wavers and curlers, etc.

The production of aluminium kitchenware in this industry was valued at \$995,135 in 1934, but, in addition, concerns in other industries made aluminium kitchenware worth \$178,742, bringing the total for Canada to \$1,173,877; the comparable total figure for 1933 amounted to \$969,948.

Table 1 - PRINCIPAL STATISTICS OF THE ALUMINIUM PRODUCTS INDUSTRY IN CANADA, 1930-1934.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1930 ...	14	5,217,665	808	1,065,195	2,184,658	4,343,436	2,158,778
1931 ...	14	4,540,834	793	923,546	2,066,851	3,597,764	1,530,913
1932 ...	14	3,906,196	661	678,400	1,375,902	2,703,212	1,327,310
1933 ...	15	3,654,541	638	671,267	1,458,444	2,778,274	1,319,830
1934 ...	16	3,759,900	789	826,597	2,115,100	3,745,433	1,630,333

Table 2 - CAPITAL EMPLOYED, 1933 and 1934.

Capital employed as represented by:	1933	1934
	\$	\$
Present value of lands, buildings, machinery and other equipment .....	1,891,039	1,793,118
Inventory value of materials on hand, stocks in process, fuel and other supplies on hand .....	386,382	319,138
Inventory value of finished products on hand .....	931,832	1,104,167
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.) .....	445,238	543,477
TOTAL .....	3,654,541	3,759,900

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1933 and 1934.

	1933	1934
Salaried Employees - Male .....	107	109
Female .....	35	41
Total .....	142	150
Wage-earners - Male .....	441	561
Female .....	55	78
Total .....	496	639
TOTAL EMPLOYEES .....	638	789
Salaries .....	\$ 223,302	\$ 239,599
Wages .....	\$ 447,965	\$ 586,998
TOTAL SALARIES AND WAGES .....	\$ 671,267	\$ 826,597

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1933 and 1934.

	Number of plants	Capital employed	Number of employees	Selling value of products at works
		\$		\$
1933				
(a) Production				
Under \$25,000 .....	6	118,225	29	96,407
\$25,001 to \$100,000 .....	4	185,777	71	183,799
Over \$100,000 .....	5	3,350,539	538	2,498,068
Total .....	15	3,654,541	638	2,778,274
(b) Number of employees				
Under 10 .....	7	144,685	36	124,400
10 and over .....	8	3,509,856	602	2,653,874
Total .....	15	3,654,541	638	2,778,274



Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1933 and 1934 (concluded).

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(c) Capital employed				
Under \$25,000 .....	5	62,915	48	119,830
\$25,001 to \$100,000 .....	5	241,087	52	160,376
Over \$100,000 .....	5	3,350,539	538	2,498,068
Total .....	15	3,654,541	638	2,778,274
1934				
(a) Production				
Under \$25,000 .....	3	93,558	20	37,153
\$25,001 to \$100,000 .....	8	197,390	133	348,459
Over \$100,000 .....	5	3,468,952	636	3,359,821
Total .....	16	3,759,900	789	3,745,433
(b) Number of employees				
Under 10 .....	6	128,970	36	138,688
10 and over .....	10	3,630,930	753	3,606,745
Total .....	16	3,759,900	789	3,745,433
(c) Capital employed				
Under \$25,000 .....	7	94,654	92	217,440
\$25,001 to \$100,000 .....	4	196,294	61	168,172
Over \$100,000 .....	5	3,468,952	636	3,359,821
Total .....	16	3,759,900	789	3,745,433

Table 5 - WAGE-EARNERS, BY MONTHS, 1933 and 1934.

Months	1	9	3	3	1	9	3	4
	Male	Female	TOTAL		Male	Female	TOTAL	
January .....	934	49	443		508	79	587	
February .....	404	53	457		540	91	631	
March .....	424	52	476		551	71	622	
April .....	425	52	477		560	68	628	
May .....	414	55	469		570	68	638	
June .....	416	55	471		561	79	640	
July .....	423	50	473		556	72	628	
August .....	464	59	523		550	72	622	
September .....	465	66	531		568	74	642	
October .....	471	76	547		570	74	644	
November .....	496	75	571		599	87	686	
December .....	503	58	561		593	82	675	
AVERAGE .....	441	55	496		561	78	639	

Table 6 - FUEL AND ELECTRICITY USED, 1933 and 1934.

Kinds	Unit of measure	1	9	3	3	1	9	3	4
		Quantity		Value		Quantity		Value	
				\$				\$	
Bituminous coal - Canadian ..	short ton	36		404		58		555	
Imported ..	short ton	1,814		10,045		2,197		12,612	
Coke .....	short ton	1,326		10,026		1,916		15,663	
Fuel oil .....	Imp. gal.	111,782		8,283		105,672		8,631	
Gas - Manufactured .....	M cu.ft.	4,989		4,819		5,929		5,422	
Other fuel .....	xxx	...		97		...		...	
Electricity .....	K.W.H.	5,327,148		42,941		6,503,335		61,232	
TOTAL .....	xxx	...		77,615		...		104,115	

Table 7 - POWER EQUIPMENT, 1933 and 1934.

Kinds	1	9	3	3	1	9	3	4
	Number of units		Total rated horse power		Number of units		Total rated horse power	
Total primary power .....	...		...		...		...	
Electric motors run by purchased power	195		2,857		200		2,964	
TOTAL .....	195		2,857		200		2,964	
Boilers .....	4		403		4		403	

Table 8 - MATERIALS USED, 1933 and 1934.

Materials	1	9	3	3	1	9	3	4
	Pounds		Cost at works		Pounds		Cost at works	
			\$				\$	
Aluminium sheets, circles, etc.	7,417,635		1,372,249		10,531,691		2,033,441	
Handles, trimmings, etc. ....	...		27,324		...		22,043	
All other materials .....	...		58,871		...		59,616	
TOTAL .....	...		1,458,444		...		2,115,100	

Table 9 - PRODUCTS MADE, 1932, 1933, and 1934.

Products	1	9	3	2	1	9	3	3	1	9	3	4
			\$								\$	
Kitchen utensils (a) .....			908,184				831,274				995,135	
All other products (b) .....			1,795,028				1,947,000				2,750,298	
TOTAL .....			2,703,212				2,778,274				3,745,433	

(a) In addition to the above output, aluminium kitchen utensils valued at about \$178,742 in 1934, \$138,674 in 1933 and \$134,254 in 1932 were made as minor products by concerns in other industrial groups.

(b) Includes data for miscellaneous fabricated products, electric heaters, welding portions, boot and shoe lasts, hat blocks and dies, washing machines, hair curlers and wavers, forging and nickel thermit, etc.

Table 10 - TOTAL PRODUCTION OF ALUMINIUM HOLLOW-WARE AND KITCHENWARE IN CANADA, 1925 - 1934.

(This table shows total production in Canada regardless of the industry in which produced)

Years	Selling value at works
	\$
1925 .....	1,056,920
1926 .....	1,028,261
1927 .....	1,571,269
1928 .....	1,457,679
1929 .....	1,303,010
1930 .....	1,671,984
1931 .....	1,302,908
1932 .....	1,042,438
1933 .....	969,948
1934 .....	1,173,877

Table 11 - EXPORTS FROM CANADA OF MANUFACTURES OF ALUMINIUM BY COUNTRIES OF DESTINATION,  
Calendar Years 1933 and 1934.

Country of Destination	1	9	3	3	1	9	3	4
	Aluminium kitchenware and hollowware			Manufactures of aluminium, n.o.p.	Aluminium kitchenware and hollowware			Manufactures of aluminium, n.o.p.
	\$			\$	\$			\$
Argentina .....	...			8,351	...			8,695
Australia .....	...			...	...			4,136
Belgium .....	...			421	...			...
Brazil .....	...			5,515	...			6,018
British India .....	...			3,532	...			9,846
Chile .....	...			...	...			10,389
China .....	...			1,134	...			6,185
Colombia .....	...			2,323	...			559
Cuba .....	...			3,429	...			13,369
Dutch East Indies .....	...			192	...			...
Italy .....	...			10,793	...			...
Japan .....	...			482	...			176,391
Mexico .....	...			1,469	...			14,672
Newfoundland .....	854			...	...			...
New Zealand .....	...			2,787	...			3,722
Peru .....	192			162	2,255			12,782
Spain .....	...			9,820	...			412
United Kingdom .....	6,642			51,960	7,153			94,059
United States .....	...			4,893	5			34,645
Venezuela .....	...			16,144	...			18,704
Other countries .....	996			13,496	2,507			19,980
TOTAL .....	8,634			137,083	11,920			434,564

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, 1934.

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Products reported 1934</u>
<u>QUEBEC</u> --		
Maple Leaf Hat Block	916 St. George St., Montreal	Aluminium dies; plaster blocks.
<u>ONTARIO</u> --		
Aluminum Company of Canada, Ltd.	158 Sterling Rd., Toronto	Fabricated aluminium products.
Aluminum Goods Limited	158 Sterling Rd., Toronto	Aluminium hollow-ware of all kinds.
Aluminium Ware Mfg. Co. Limited	20 Dundas St., Oakville	Aluminium kitchen utensils.
Canadian Die Castings, Limited	1790 3rd Ave. E., Owen Sound	Zinc and aluminium die castings.
Clark, Geo. C., Metal Last Company	Peabody Building, Walkerville	Aluminium boot and shoe lasts.





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DIRECTORY OF FIRMS INCLUDED IN THE ALUMINIUM PRODUCTS INDUSTRY IN CANADA, 1934.  
(concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Products reported 1934</u>
<u>ONTARIO - concluded</u>		
Duro Aluminum Limited	80 Park St. N., Hamilton	Aluminium kitchen utensils; aluminium scrap.
Hamilton Aluminum Ware Co.	13 Ferguson Ave.N., Hamilton	Aluminium kitchen utensils.
Hudson Aluminum Ware	370 Dufferin St., Toronto	Aluminium kitchen utensils, spinnings
Metal Stampings, Limited	Fleet St., Toronto	Aluminium kitchen utensils; electric heaters; specialties
Metal & Thermit Corporation	15 Emily St., Toronto	Rail welding portions; forging thermit; nickel thermit.
Radiant Aluminum Co. Ltd.	575 Adelaide St.W., Toronto	Aluminium utensils; copper utensils.
Shaw, Fornaci, Michaels Co.	24 Mercer St., Toronto	Aluminium hat blocks and dies.
Sterling Aluminum Co. Limited	2466 Dundas St. W., Toronto	Aluminium cooking utensils.
Super Health Aluminium Co. Limited	107 McGill St., Toronto	Aluminium cooking utensils.
Wintrob, M., & Sons, Ltd.	12 Queen St. E., Toronto	Hair wavers, curlers and clips, jewellery

NOTE - The large fabricating plant of the Aluminum Company of Canada, Ltd., Shawinigan Falls, P.Q., is not classified in this industry but is considered as a part of the smelter at that point and is included in the Non-Ferrous Smelting and Refining Industry which is reviewed in a separate bulletin.