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MANUFACTURES OF THE NON-FERROUS METALS

THE ALUMINIUM PRODUCTS INDUSTRY, 1935

As reviewed in this report the aluminium products industry covers the operations of factories engaged chiefly in casting or fabricating aluminium kitchenware, wire, etc. It does not include the aluminium smelter at Arvida, Quebec, as this works has been classified to the Non-Ferrous Smelting and Refining Industry which is reviewed in a separate pamphlet. The fabricating plant of the Aluminum Company of Canada Limited at Shawinigan Falls, Quebec, however, has been put in this group for the first time. Formerly the data for this works were included with the Shawinigan smelter in the smelting industry, but since the smelter was closed during 1935, the fabricating plant has been transferred to the aluminium products group. The figures for 1935, therefore, are not strictly comparable with those given for earlier years.

Some 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 have been classified to the brass and iron industries. Similarly some electrical companies produced aluminum cable and still other factories made some miscellaneous aluminum goods as secondary or minor products. The production figures quoted in this bulletin, therefore, do not, unless specifically stated, represent the entire Canadian output.

Production from this industry in 1935 was valued at \$4,992,640. Nineteen plants were in operation of which nine were engaged chiefly in the manufacture of cooking utensils and holloware, two made wire and other fabricated aluminium products and eight made dies, shoe lasts and a miscellaneous assortment of specialties. Capital employed by these concerns amounted to \$3,791,756 of which \$2,237,282 represented the value of lands, buildings, fixtures, machinery and tools. The number of employees was 998 and payments in salaries and wages to these workers totalled \$1,089,487. Materials used for the manufacture of these aluminium products cost \$3,258,310 delivered at the plants.

Output of aluminium kitchenware in this industry was valued at \$1,146,808 in 1935, but, in addition concerns in other industries made aluminium kitchenware worth \$181,719, bringing the total for Canada to \$1,328,527, compared with \$1,173,877 in 1934 and \$969,948 in 1933.

Table 1 - PRINCIPAL STATISTICS OF THE ALUMINIUM PRODUCTS INDUSTRY, 1931 - 1935.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity	Cost of materials at works	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	671,267	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

Table 2 - CAPITAL EMPLOYED, 1934 and 1935.

Capital employed as represented by:	1934	1935
	\$	\$
Present value of lands, buildings, machinery and other equipment .....	1,793,118	2,237,282
Inventory value of materials on hand, stocks in process, fuel and other supplies on hand .....	319,138 )	810,722
Inventory value of finished products on hand .....	1,104,167 )	
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.) .....	543,477	743,752
TOTAL .....	3,759,900	3,791,756

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1934 and 1935.

	1934	1935
Salaried Employees - Male .....	109	131
Female .....	41	37
Total .....	150	168
Wage-earners - Male .....	561	752
Female .....	78	78
Total .....	639	830
TOTAL EMPLOYEES .....	789	998
Salaries .....	\$ 239,599	306,199
Wages .....	\$ 586,998	783,288
TOTAL SALARIES AND WAGES .....	\$ 826,597	1,089,487

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1934 and 1935.

	Number of plants	Capital employed	Number of employees	Selling value of products at works
		\$		\$
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

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1934 and 1935. (concluded)

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(b) <u>Number of employees</u>				
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) <u>Capital employed</u>				
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
1935				
(a) <u>Production</u>				
Under \$25,000 .....	5	120,876	23	54,162
\$25,001 to \$100,000 .....	8	252,054	162	441,165
Over \$100,000 .....	6	3,418,826	813	4,497,313
Total .....	19	3,791,756	998	4,992,640
(b) <u>Number of employees</u>				
Under 10 .....	6	123,541	25	88,969
10 and over .....	13	3,668,215	973	4,903,671
Total .....	19	3,791,756	998	4,992,640
(c) <u>Capital employed</u>				
Under \$25,000 .....	6	67,024	33	117,643
\$25,001 to \$100,000 .....	7	305,906	152	377,684
Over \$100,000 .....	6	3,418,826	813	4,497,313
Total .....	19	3,791,756	998	4,992,640

Table 5 - WAGE-EARNERS, BY MONTHS, 1934 and 1935. (On the 15th of each month or nearest representative date.)

Months	1	3	4	TOTAL	1	3	5	TOTAL
	Male	Female			Male	Female		
January .....	508	79		587	631	69		700
February .....	540	91		631	700	64		764
March .....	551	71		622	738	64		802
April .....	560	68		628	754	78		832
May .....	570	68		638	754	84		838
June .....	561	79		640	776	79		855
July .....	556	72		628	752	86		838
August .....	550	72		622	727	80		807
September .....	568	74		642	743	82		825
October .....	570	74		644	833	84		917
November .....	599	87		686	828	90		918
December .....	593	82		675	774	84		858
AVERAGE .....	561	78		639	752	78		830



Table 6 - FUEL AND ELECTRICITY USED, 1934 and 1935.

Kinds	Unit of measure	1	9	3	4	1	9	3	5
		Quantity		Value		Quantity		Value	
					\$				\$
Bituminous coal - Canadian	short ton	58			555	50			45
Imported	short ton	2,197			12,612	2,245			13,55
Coke	short ton	1,916			15,663	2,246			19,89
Gasoline	Imp. gal.					1,092			300
Fuel oil	Imp. gal.	105,672			8,631	148,775			12,16
Gas - Manufactured	M. cu. ft.	5,929			5,422	10,102			7,470
Other fuel	xxx								320
Electricity	K. W. H.	6,503,335			61,232	14,234,138			74,480
TOTAL	xxx				104,115				123,65

Table 7 - POWER EQUIPMENT, 1934 and 1935.

	1	9	3	4	1	9	3	5
	Number of units		Total rated horse power		Number of units		Total rated horse power	
Steam engines and turbines					1			10
total primary equipment					1			10
Electric motors run by purchased power	200			2,964	299			5,625
TOTAL	200			2,964	300			5,635
Boilers	4			403	6			653

Table 8 - MATERIALS USED IN MANUFACTURING, 1934 and 1935.

Materials	1	9	3	4	1	9	3	5
	Pounds		Cost at works		Pounds		Cost at works	
				\$				\$
Aluminium sheets, circles, etc.	10,531,691			2,033,441	16,095,560			3,066,938
Handles, trimmings, etc.				22,043				27,207
All other materials				59,616				164,165
TOTAL				2,115,100				3,258,310

Table 9 - PRODUCTS MADE, 1933, 1934 and 1935.

Products	1933	1934	1935
	\$	\$	\$
Kitchen utensils (a)	831,274	995,135	1,146,808
All other products (b)	1,947,000	2,750,298	3,845,832
TOTAL	2,778,274	3,745,433	4,992,640

(a) In addition to the above output, aluminium kitchen utensils valued at \$181,719 in 1935, \$178,742 in 1934 and \$138,674 in 1933 were made as minor products by concerns in other industrial groups.

(b) Includes data for miscellaneous fabricated products, copper utensils, plaster blocks, boot and shoe lasts, hat blocks and dies, zinc and aluminium die castings, forging and nickel thermit, aluminium dies, etc.

Table 10 - TOTAL PRODUCTION OF ALUMINIUM HOLLOW-WARE AND KITCHENWARE IN CANADA, 1925-1935.  
(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
1935 .....	1,328,527

Table 11 - EXPORTS FROM CANADA OF MANUFACTURES OF ALUMINIUM BY COUNTRIES OF DESTINATION,  
Calendar Years 1934 and 1935.

Country of Destination	1	9	3	4	1	9	3	5
	Aluminium kitchenware and hollowware			Manufactures of aluminium, n.o.p.	Aluminium kitchenware and hollowware			Manufactures of aluminium, n.o.p.
	\$			\$	\$			\$
Argentina .....	...			8,695	...			7,113
Australia .....	...			4,136	...			31,579
Belgium .....	...			...	...			805
Brazil .....	...			6,018	...			5,595
British India .....	...			9,846	...			3,678
Chile .....	...			10,389	...			11,924
China .....	...			6,185	...			10,809
Colombia .....	...			539	...			4,684
Cuba .....	...			13,369	...			16,563
Dutch East Indies ...	...			...	...			1,273
Italy .....	...			...	...			...
Japan .....	...			176,391	...			1,373
Mexico .....	...			14,672	...			26,755
Newfoundland .....	...			...	1,395			520
New Zealand .....	...			3,722	228			14,704
Peru .....	2,255			12,782	4,030			2,171
Spain .....	...			412	...			58,448
United Kingdom .....	7,153			94,059	6,681			91,781
United States .....	5			34,645	20			28,833
Venezuela .....	...			18,704	...			31,464
Other countries .....	2,507			19,980	865			27,440
TOTAL .....	11,920			434,564	13,219			377,512

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.



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DIRECTORY OF FIRMS INCLUDED IN THE ALUMINIUM PRODUCTS INDUSTRY IN CANADA, 1935.

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Products reported 1935</u>
<u>QUEBEC</u>		
Aluminum Company of Canada Limited	- Shawinigan Falls	Fabricated products, aluminium
Aluminium Moderne Enrg.	- 11245 Victoria, Montreal Est.	Aluminium steam boilers
Brasloff, Jack	- 669 St. James St. W., Montreal	Metal hat blocks and stamper dies
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 hollowware of all kinds
Aluminium Ware Mfg. Co. Ltd.	- 20 Dundas St., Oakville	Aluminium kitchen utensils
Canadian Die & Castings Co.	- 1790 3rd Ave. E., Owen Sound	Zinc and aluminium die casting
Clark, Geo. C., Metal Last Co.	- Peabody Building, Walker- ville	Aluminium boot and shoe lasts
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
Metal Stampings, Limited	- 435 Fleet St., Toronto	Aluminium kitchen utensils; electric heaters
Metal & Thermit Corporation	- 15 Emily St., Toronto	Rail welding portions, forging thermit
Radiant Aluminum Co. Ltd.	- 575 Adelaide St. W., Toronto	Aluminium utensils; copper utensils
Shaw, Fornaci, Michaels Co.	- 24 Mercer St., Toronto	Aluminium dies and wood block
Sterling Aluminum Co. Limited	- 2466 Dundas St. W., Toronto	Aluminium cooking utensils
Super Health Aluminium Co. Ltd.	- 107 McGill St., Toronto	Aluminium cooking utensils
Wintrob, M., & Sons, Ltd.	- 30 Duncan St., Toronto	Hair wavers, curlers and clips, jewellery