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OTTAWA - CANADA

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ANNUAL INDUSTRY REPORTMANUFACTURES OF THE NON-FERROUS METALS GROUPTHE ALUMINUM PRODUCTS INDUSTRY, 1943

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.

Seventeen factories were classified to this industry in 1943, including three rolling mills. Of the remaining plants, 7 were occupied chiefly in the manufacture of miscellaneous castings, 2 made aircraft parts and special war supplies, one made hat dies and blocks, one made shoe lasts, one made thermit welding supplies, and 2 made kitchen utensils.

Capital employed by these concerns amounted to \$19,180,869, employees numbered 5,938, salaries and wages totalled \$8,763,823, materials used in manufacturing processes cost \$15,136,675, and production was valued at \$32,936,285. This value was 24 per cent over the \$26,462,235 of 1942.

Output of aluminum cooking utensils in this industry was valued at \$215,732 in 1943, but in addition, concerns in other industries made aluminum-ware worth \$64,826 bringing the total for Canada to \$280,608. In 1942 the corresponding total was \$343,079 and in 1941 it was \$1,084,611.

# Aluminum Products

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Table 1 - PRINCIPAL STATISTICS OF THE ALUMINUM PRODUCTS INDUSTRY, 1933 - 1943

Year	Number 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
		\$		\$	\$	\$	\$
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
1936 ...	19	3,884,241	1,101	1,194,999	119,320	3,799,688	5,438,281
1937 ...	18	4,630,491	1,345	1,535,112	140,180	4,525,571	7,156,243
1938 ...	19	4,798,835	1,372	1,619,082	136,690	4,078,112	6,924,088
1939 ...	23	6,761,669	1,570	1,742,420	160,946	4,562,803	7,178,334
1940 ...	26	14,735,022	2,300	2,724,123	262,500	8,920,649	14,895,282
1941 ...	20	17,661,866	3,127	4,094,085	428,465	8,552,035	18,148,205
1942 ...	14	17,352,176	4,419	6,381,685	550,485	13,155,250	26,462,235
1943 ...	17	19,180,869	5,938	8,763,823	758,124	15,136,675	32,936,285

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 - CAPITAL EMPLOYED, 1942 and 1943.

Capital employed - as represented by:	1942	1943
	\$	\$
Present value of land, buildings, machinery and other equipment .....	9,423,851	9,253,307
Inventory value of materials, fuel and other supplies on hand, and stocks in process .....	2,875,621	1,686,955
Inventory value of finished products on hand .....	2,145,600	4,377,535
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.) .....	2,907,104	3,863,072
TOTAL .....	17,352,176	19,180,869

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1942 and 1943.

		1942	1943
Salaried Employees .....	Male .....	301	389
	Female .....	250	316
	Total ...	551	705
Wage-earners .....	Male .....	3,114	3,784
	Female .....	754	1,449
	Total ...	3,868	5,233
	TOTAL EMPLOYEES .....	4,419	5,938
Salaries .....	\$	865,879	1,194,325
Wages .....	\$	5,515,806	7,569,498
	TOTAL SALARIES AND WAGES ..	\$ 6,381,685	\$ 8,763,823



Table 4 - WAGE-EARNERS, BY MONTHS, 1942 and 1943. (On last day of each month)

Month	1 9 4 2			1 9 4 3		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	2,771	308	3,079	3,576	1,216	4,792
February .....	2,797	376	3,173	3,524	1,182	4,706
March .....	2,830	427	3,257	3,549	1,221	4,770
April .....	2,877	552	3,429	3,615	1,322	4,937
May .....	3,014	612	3,626	3,755	1,338	5,093
June .....	3,225	761	3,986	3,775	1,495	5,270
July .....	3,204	819	4,023	3,902	1,543	5,445
August .....	3,304	921	4,225	3,872	1,562	5,434
September .....	3,336	1,013	4,349	3,935	1,542	5,477
October .....	3,277	1,069	4,346	3,749	1,569	5,318
November .....	3,340	1,089	4,429	4,148	1,721	5,869
December .....	3,411	1,066	4,477	4,004	1,677	5,681
AVERAGE .....	3,114	754	3,868	3,784	1,449	5,233

Table 5 - HOURS WORKER PER WEEK BY WAGE-EARNERS, 1943.

Hours per week	Number of wage-earners		Hours per Week	Number of wage-earners	
	Male	Female		Male	Female
30 hours or less ...	442	288	55 hours .....	76	6
31 - 43 hours .....	607	496	56 - 64 hours .....	466	14
44 hours .....	253	272	65 hours or over ....	66	-
45 - 47 hours .....	338	213	TOTAL .....	4,385	1,875
48 hours .....	985	414			
49 - 50 hours .....	273	40	Total earnings in		
51 - 54 hours .....	879	132	selected week .....	\$ 143,413	47,498

Table 6 - FUEL AND ELECTRICITY USED, 1942 and 1943.

Kind	Unit of mesasure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	short ton	66	670	109	1,185
Imported	short ton	6,134	48,458	13,415	110,531
Anthracite coal .....	short ton	2,852	23,468	79	338
Coke .....	short ton	12,506	143,674	13,635	168,615
Gasoline .....	Imp. gal.	3,593	1,110	2,421	792
Kerosene .....	Imp. gal.	15,377	2,457	95,024	8,960
Fuel oil .....	Imp. gal.	284,906	24,672	612,822	54,069
Gas - Manufactured .....	M cu. ft.	50,081	40,769	66,002	52,942
Natural .....	M cu. ft.	9,857	5,717	9,385	6,277
Wood .....	cord	-	-	4	43
Electricity purchased ...	K. W. H.	69,519,708	259,490	94,639,193	353,872
TOTAL .....	\$	-	550,485	-	758,124

# Aluminum Products

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Table 7 - POWER EQUIPMENT, 1942 and 1943.

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horsepower	Number of units	Total rated horsepower
<u>1942</u>				
Steam engines and steam turbines .....	2	50	-	-
Electric motors run by purchased power.	1,200	21,244	26	398
TOTAL .....	1,202	21,294	26	398
Stationary Boilers .....	9	1,227	1	125
<u>1943</u>				
Steam engines and steam turbines .....	4	135	-	-
Electric motors run by purchased power.	1,718	27,874	44	25
TOTAL .....	1,722	28,009	44	25
Stationary Boilers .....	15	1,947	-	-
Motor-Generator Sets .....	21	4,199	1	150

Table 8 - MATERIALS USED IN MANUFACTURING, 1942 and 1943.

	<u>1942</u>		<u>1943</u>	
	Short tons	Cost at Works	Short tons	Cost at Works
		\$		\$
Aluminum ingots, sheets, castings, scrap, etc. ....	31,221	12,684,015	35,212	14,676,377
All other materials .....	-	471,235	-	460,298
TOTAL .....	-	13,155,250	-	15,136,675

Table 9 - PRODUCTS MADE, 1941 - 1943.

Product	<u>1941</u>	<u>1942</u>	<u>1943</u>
	\$	\$	\$
Cooking utensils (a) .....	646,908	274,392	215,732
All other products (b) .....	17,501,297	26,137,843	32,720,553
TOTAL .....	18,148,205	26,462,235	32,936,285

(a) In addition to the above output, aluminum cooking utensils valued at \$64,826 in 1943, \$68,637 in 1942, \$437,703 in 1941 were made as minor products by concerns in other industrial groups.

(b) Includes aluminum alloy ingots, wire, cable, foil, forgings, stampings, rivets, tubing, aircraft parts, rods, bars, sheets, extruded shapes, castings, hat dies and shoe lasts; also wooden hat blocks, bronze castings and brass 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 ALUMINUM HOLLOW-WARE AND KITCHENWARE IN CANADA,  
1933 - 1943

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 \$
1933 .....	969,948	1939 .....	1,666,716
1934 .....	1,173,877	1940 .....	2,256,710
1935 .....	1,328,527	1941 .....	1,084,611
1936 .....	1,327,141	1942 .....	343,079
1937 .....	1,534,199	1943 .....	280,608
1938 .....	1,529,280		

Table 11 - EXPORTS FROM CANADA OF MANUFACTURES OF ALUMINUM, CALENDAR YEARS 1942  
and 1943.

	1942 \$	1943 \$
Aluminum kitchen utensils and hollow-ware .....	-	-
Aluminum wire and cable .....	11,785	2,082
Aluminum manufactures, n.o.p. ....	5,108,108	4,780,904

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.

Table 12 - IMPORTS INTO CANADA OF ALUMINUM AND ITS PRODUCTS, 1942 and 1943.

	1942		1943	
	Quantity lb.	Value \$	Quantity lb.	Value \$
Aluminum in pigs, ingots, blocks, notch bars, slabs, billets and blooms .....	100	58	2,300	650
Aluminum scrap .....	8,000	903	154,800	17,013
Aluminum angles, channels, beams, tees and other rolled or drawn sections or shapes .....	6,700	3,281	748,100	355,880
Aluminum in bars, rods and wire ..	2,777,500	824,507	2,227,000	533,720
Aluminum leaf or foil .....	-	3,052	-	3,054
Aluminum pipes and tubes .....	49,000	28,286	142,900	129,718
Aluminum in plates, sheets, strips and circles .....	45,700	25,191	1,257,800	438,034
Aluminum powder .....	850	214	3,855	2,083
Aluminum wire and cable, twisted or stranded, reinforced with steel or not .....	500	210	700	285
Aluminum kitchen or household hollow-ware .....	-	23,602	-	3,551
Other manufactures of aluminum ...	-	321,940	-	489,593
TOTAL .....	-	1,231,244	-	1,973,581



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LIST OF FIRMS IN THE ALUMINUM PRODUCTS INDUSTRY, 1943Name of FirmAddressQUEBEC

Aluminum Company of Canada, Limited  
Aluminum Foundry and Pattern Works,  
Les Produits en Aluminium et Acier  
Inoxydable l'Hoir Inc.,

Shawinigan Falls  
4 St. Philippe Street, St. Laurent  
  
229 St. Laurent Street, Lévis

ONTARIO

Dunbar Aluminum Foundry,  
Hamilton Aluminum Ware Co.,  
Aluminum Company of Canada, Limited,  
Geo. C. Clark Metal Last Co., Inc.,  
Metal and Thermit Corporation,  
Aluminum Goods, Limited,  
Canadian Die Casters,  
Aluminum Company of Canada, Limited,  
Super Health Aluminum Co., Ltd.,  
H. G. Shaw Company,  
Alumaloy Castings, Limited,  
Aluminum Company of Canada, Limited,  
Aluminum Match Plates,

983 King Street East, Kitchener  
13 Ferguson Ave. North, Hamilton  
158 Sterling Road, Toronto  
1889 Sandwich St., Walkerville  
15 Emily Street, Toronto  
158 Sterling Road, Toronto  
180 Beverly Street, Galt  
Kingston  
107 McGill Street, Toronto  
24 Mercer Street, Toronto  
1483 Eastern Avenue, Toronto  
Long Branch  
195 S Woodrow Blvd., Toronto (13)

BRITISH COLUMBIA

A 1 Aluminum Foundry, Limited,

5 West 2nd Avenue, Vancouver