

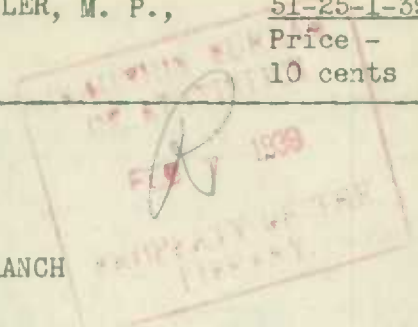
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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA



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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE ADHESIVES INDUSTRY, 1937.

The statistics in this report on the Adhesives Industry cover only the factories which make glue, paste, etc., as their chief products. Eighteen firms were classified to this group in 1937, 9 being in Ontario, 7 in Quebec, and 2 in British Columbia.

Compared with 1936, production for the industry increased 6 per cent in 1937 to \$1,904,137; the number of employees decreased 1 per cent to 416, and payments for salaries and wages increased 6 per cent to \$483,819. The capital investment advanced 4 per cent to \$2,357,662 from \$2,266,199, and the cost of materials for manufacturing increased 11 per cent to \$901,194 from 813,291.

Output of animal glue increased to 2,468 tons worth \$802,572 from 2,428 tons at \$691,926 in 1936, and other glues advanced in value to \$548,129 in 1937 from \$544,160 in 1936; mucilage and paste declined to \$109,856 from \$140,060. Mucilage and paste were made also in other industries, particularly by the manufacturers of writing inks, the total production from all sources amounting to about \$182,001 in 1937 compared with \$228,897 in 1936.

Imports of adhesives into Canada during 1937 were as follows - vegetable glue, 1,407 tons at \$75,903; animal glue 1,135 tons at \$218,865; liquid glue, 80 tons at \$33,155; and mucilage and paste, 104 tons at \$27,020.

Exports of glue amounted to 52 tons valued at \$19,482 and exports of glue stock totalled 2,874 tons appraised at \$72,738.

TABLE 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1929 - 1937.

Years	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
		\$		\$	\$	\$	\$
1929 .....	13	1,850,273	267	321,296	68,157	962,940	1,830,644
1930 .....	12	1,921,406	226	286,825	64,380	882,908	1,650,634
1931 .....	13	2,850,507	297	375,598	75,149	877,802	1,742,553
1932 .....	14	2,501,171	229	263,142	53,300	457,146	1,087,215
1933 .....	16	2,271,071	283	314,005	78,712	463,199	1,141,761
1934 .....	16	2,123,205	332	366,008	77,198	587,535	1,307,393
1935 .....	17	2,066,754	389	423,513	114,604	550,700	1,436,259
1936 .....	19	2,266,199	420	457,170	123,865	813,291	1,799,200
1937 .....	18	2,357,662	416	483,819	116,842	901,194	1,904,137
Per cent change							
1937 from 1936.	-5.2	+4.1	-1.0	+5.9	-5.7	+10.8	+5.8

TABLE 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1936 AND 1937.

	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
		\$		\$	\$	\$	\$
<u>1 9 3 6</u>							
Quebec.....)	8						
British Columbia)	2	678,460	130	134,575	31,360	303,713	622,474
Ontario.....)	9	1,587,739	290	322,595	92,505	509,578	1,176,726
CANADA.....)	19	2,266,199	420	457,170	123,865	813,291	1,799,200
<u>1 9 3 7</u>							
Quebec.....)	7						
British Columbia)	2	652,482	133	136,204	26,746	286,484	645,826
Ontario.....)	9	1,705,180	283	347,615	90,096	614,710	1,258,311
CANADA.....)	18	2,357,662	416	483,819	116,842	901,194	1,904,137

TABLE 3 - CAPITAL EMPLOYED, BY PROVINCES, 1936 AND 1937.

Provinces	Present value of lands, buildings, machinery and equipment	Inventory value of materials, finished products, fuel and other supplies on hand, and stocks in process	Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1 9 3 6</u>				
Quebec.....)				
British Columbia)	364,718	140,891	172,851	678,460
Ontario.....)	871,453	522,690	193,596	1,587,739
CANADA.....)	1,236,171	663,581	366,447	2,266,199
<u>1 9 3 7</u>				
Quebec.....)				
British Columbia)	309,035	158,706	184,741	652,482
Ontario.....)	848,284	615,045	241,851	1,705,180
CANADA.....)	1,157,319	773,751	426,592	2,357,662

TABLE 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1937.

	Number of plants	Capital employed \$	Number of employees	Gross selling value of products at works \$
<b>(a) PRODUCTION</b>				
Under \$10,000 .....	5	22,930	10	30,600
\$10,000 to \$50,000.....	4	146,558	26	115,243
Over \$50,000.....	9	2,188,174	380	1,758,294
TOTAL.....	18	2,357,662	416	1,904,137
<b>(b) EMPLOYEES</b>				
1 to 10 .....	9	169,367	31	176,838
Over 10 .....	9	2,188,295	385	1,727,299
TOTAL.....	18	2,357,662	416	1,904,137
<b>(c) CAPITAL</b>				
Under \$25,000 .....	7	38,305	18	57,510
\$25,000 to \$100,000.....	5	220,093	66	370,281
Over \$100,000.....	6	2,099,264	332	1,476,346
TOTAL.....	18	2,357,662	416	1,904,137

TABLE 5 - EMPLOYEES, SALARIES AND WAGES, 1936 AND 1937.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
<b>1 9 3 6</b>								
Quebec .....	33	6	81	10	130	56,948	77,627	134,575
British Columbia )								
Ontario.....	36	12	238	4	290	91,370	231,225	322,595
CANADA.....	69	18	319	14	420	148,318	308,852	457,170
<b>1 9 3 7</b>								
Quebec..... )	30	9	83	11	133	63,510	72,694	136,204
British Columbia )								
Ontario.....	40	12	228	3	283	107,171	240,444	347,615
CANADA.....	70	21	311	14	416	170,681	313,138	483,819

TABLE 6 - WAGE-EARNERS, BY MONTHS, 1936 and 1937. (On the 15th of each month).

Months	1 9 3 6			1 9 3 7		
	Male	Female	TOTAL	Male	Female	TOTAL
January.....	311	12	323	312	14	326
February.....	314	13	327	308	15	323
March.....	317	14	331	322	15	337
April.....	322	14	336	321	15	336
May.....	323	13	336	321	15	336
June.....	324	15	339	306	15	321
July.....	316	15	331	303	15	318
August.....	304	15	319	295	14	309
September.....	315	13	328	312	14	326
October.....	319	14	333	304	15	319
November.....	324	14	338	307	15	322
December.....	338	13	351	323	14	337
AVERAGE.....	319	14	333	311	14	325



TABLE 7 - FUEL AND ELECTRICITY USED, 1936 and 1937

Kinds	Unit of measure	1936		1937	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Anthracite coal .....	short tons	7	99	6	79
Bituminous coal - Canadian....	short tons	2,292	12,287	2,174	11,418
Foreign.....	short tons	13,795	83,692	13,012	79,059
Coke.....	short tons	8	82	146	1,424
Fuel oil.....	Imp. gal.	215,366	10,300	155,053	6,450
Wood.....	cords	4	28	6	45
Gas - Manufactured.....	M cu. ft.	189	191	304	325
Electricity purchased.....	K.W.H.	1,246,048	17,186	1,325,201	18,042
TOTAL.....	\$	...	123,865	...	116,842

TABLE 8 - POWER EQUIPMENT, 1936 AND 1937.

	1936		1937	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines...	7	685	8	705
Hydraulic turbines and waterwheels.	1	25	1	25
Total Primary Equipment.....	8	710	9	730
Electric motors run by purchased power.....	142	1,270	148	1,316
TOTAL.....	150	1,980	157	2,046
Boilers.....	14	1,165	13	1,155

TABLE 9 - MATERIALS USED IN MANUFACTURING, 1936 AND 1937.

Materials	Unit of Measure	1936		1937	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bones, hides and glue stock..	ton	23,797	257,231	23,457	340,718
Casein.....	lb.	69,200	7,221	82,935	11,590
Dextrine.....	lb.	2,642,013	104,654	2,330,441	108,702
Flour, tapioca.....	lb.	447,911	22,243	204,697	9,063
Flour, other.....	lb.	2,989,313	78,079	3,313,048	87,947
Glycerine.....	lb.	131,473	18,610	90,201	16,756
Gums.....	lb.	27,888	3,161	32,232	4,118
Lime.....	ton	819	6,388	728	5,782
Resin.....	lb.	72,473	2,366	80,267	3,872
Rubber.....	lb.	22,080	4,242	22,164	4,791
Solvents (benzol, naphtha, etc.)	gal.	48,762	8,431	43,812	8,427
Starch.....	lb.	635,150	29,422	642,677	29,858
Sulphur.....	lb.	118,700	1,963	140,150	2,336
Sulphuric acid, 66° Be.....	lb.	1,180,291	9,869	1,309,889	11,312
Tallow.....	lb.	1,760,177	18,347	1,712,762	17,824
All other materials.....	xx	...	195,028	...	171,586
Bottles, tops, brushes, boxes, etc .....	xx	...	41,036	...	66,512
TOTAL.....	\$	...	813,291	...	901,194

Table 10 - PRODUCTS MADE, 1936 and 1937.

Products	Unit of Measure	1 9 3 6		1 9 3 7	
		Quantity	Selling value at works	Quantity	Selling value at works
Bone and hide glue.....	lb.	4,855,379	691,926	4,935,901	802,572
Vegetable glue, dry and liquid	lb.	6,892,570	386,884	6,932,875	393,524
Other glues (casein, soya bean, fish, flexible, etc..)	xx	...	157,276	...	154,605
Grease.....	lb.	4,042,486	116,329	3,115,823	97,438
Mucilage and paste (xx).....	xx	...	140,060	...	109,856
All other products (x).....	xx	...	306,725	...	346,142
<b>TOTAL</b> .....	<b>\$</b>	...	<b>1,799,200</b>	...	<b>1,904,137</b>

(xx) In addition to the output here reported, there was some mucilage and paste made in other industries. The total output of mucilage and paste from all industries was about \$182,001 in 1937 compared with \$228,897 in 1936.

(x) Includes liquid solder, sealing wax, mixed fertilizers, poultry food, fox food, raw bone, steamed bone, and other such products which were reported by only one or two firms in this industry.

TABLE 11 - IMPORTS INTO CANADA AND EXPORTS OF GLUE, MUCILAGE AND PASTE, 1936 and 1937.

	1 9 3 6		1 9 3 7	
	Quantity Lb.	Value \$	Quantity Lb.	Value \$
<b>(a) IMPORTS</b>				
Glue, vegetable -				
TOTAL IMPORTS.....	1,801,329	58,348	2,813,415	75,903
From United Kingdom.....	7,460	604	4,721	406
United States.....	674,477	28,447	574,079	26,350
Mucilage and adhesive paste -				
TOTAL IMPORTS.....	346,674	36,082	208,195	27,020
From United Kingdom.....	34,011	5,592	36,835	7,153
United States.....	312,027	30,434	170,373	19,805
Glue, animal, powdered or sheet -				
TOTAL IMPORTS.....	1,851,230	141,064	2,270,047	218,865
From United Kingdom.....	1,581,507	109,866	1,866,226	167,618
United States.....	131,895	19,953	239,913	37,713
Glue, liquid -				
TOTAL IMPORTS.....	197,233	31,158	159,576	33,155
From United Kingdom.....	121,634	17,021	89,128	17,578
United States.....	75,599	14,137	70,255	15,432
<b>(b) EXPORTS</b>				
Glue -				
TOTAL EXPORTS.....	86,400	15,181	104,500	19,482
To United Kingdom.....	61,100	10,584	89,300	16,050
United States.....	6,000	713	2,000	181
Glue Stock -				
TOTAL EXPORTS.....	2,916,300	28,372	5,748,400	72,738
To United Kingdom.....	...	...	...	...
United States.....	2,916,300	28,372	5,748,400	72,738

TABLE 12 - PRODUCTION OF ANIMAL GLUES IN CANADA, 1926 - 1937.

Years	Short tons	Selling value at works	Years	Short tons	Selling Value at works
		\$			\$
1926.....	NOT	583,928	1932.....	1,215	361,201
1927.....		726,915	1933.....	1,181	302,013
1928.....	AVAIL-	759,977	1934.....	1,437	335,903
1929.....		723,315	1935.....	2,073	503,900
1930.....	ABLE	737,117	1936.....	2,428	691,926
1931.....		659,410	1937.....	2,468	802,572

DIRECTORY OF FIRMS IN THE ADHESIVES INDUSTRY, 1937.

NOTE - The Adhesives Industry includes only the concerns which made adhesives as their main products. Some concerns in other industrial groups made paste, mucilage, etc., as minor products but these works are not listed in this directory.

Name of Firm and  
Location of Plant

Main Products - 1937.

Boston Blacking Co. of Canada, Limited  
1505 Cabot St., Cote St. Paul,  
Montreal, P.Q.

Rubber cement; coated cotton duck.

Bulldog Grip Cement Co. Inc.,  
2101 Bennett Ave., Montreal, P.Q.

Casein glue; buttermilk powder; casein.

Butterworth, A. & Son,  
Butterworth Ave., Scarboro, Ont.

Cement (nitro-cellulose).

Canada Glue Co. Limited,  
Brantford, Ont.

Bone and hide glue; grease; steamed  
bone; raw bone meal.

Dominion Flour Paste Co.,  
2122 $\frac{1}{2}$  Champlain St., Montreal, P.Q.

Size and liquid glue and paste.

Gypsum, Lime & Alabastine, Canada, Ltd.,  
1 Strange St., Kitchener, Ont.

Hide glue; grease.

Harris, W., & Co. Limited  
200 Keating St., Toronto, 2, Ont.

Bone and hide glue; grease; tankage;  
fox food; poultry food; hides; tallow;  
fertilizers.

Hasco Products Limited,  
131-8th St., New Westminster, B.C.

Marine glue.

Hercules Glue Co.,  
Stanbridge, P.Q.

Casein glue; size; soya glues.

Laucks Laboratories Ltd.,  
1206 Homer St., Vancouver, B.C.

Casein and dry vegetable glues.

Machon Sealing Wax Co.,  
678 Parliament St., Toronto, Ont.

Sealing wax.

Marquis, F. Canac, Reg'd.,  
3 Courcellette St., Quebec, P.Q.

Bone and hide glue; grease and tallow;  
fertilizers; tankage.



DIRECTORY OF FIRMS IN THE ADHESIVES INDUSTRY, 1937 (concluded)

<u>Name of Firm and Location of Plant</u>	<u>Main Products - 1937</u>
Meredith, Simmons & Co. Limited, 5565 Cote St. Paul, Montreal, P. Q. and 371 Wallace Ave., Toronto, Ont.	Liquid and dry vegetable glue; size; bone and hide glue; liquid and dry paste; grease; flexible glues.
Metalite Products, 347 Main St., Toronto, Ont.	Liquid solder and transparent cement.
Russia Cement Co., 4105 Richelieu St., Montreal, P. Q.	Paste and mucilage; liquid solder; fish glue.
Stuart & Foster, Limited, 361 King St. E., Toronto, Ont.	Vegetable glue; paste; size; casein glue; mucilage; binders.
Toronto Adhesive Co., 27 Jarvis St., Toronto, Ont.	Liquid vegetable glue; laminated board; flexible glue.
Wolverine Cement Co., 99 Grand River Ave., Brantford, Ont.	Linoleum cement, and wax.

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