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Annual Industry ReportChemicals and Allied Products GroupTHE ADHESIVES INDUSTRY, 1947

This report on the Adhesives Industry in Canada covers the operations of all factories which made glue, mucilage, paste or special adhesive cements as their chief products. In 1947 there were 26 establishments in this group, 16 being located in Ontario, 8 in Quebec and 2 in British Columbia.

Production increased 9.3 per cent in 1947 to \$7,415,610, the number of employees increased 8.3 per cent to 729, and salaries and wages increased 26.8 per cent to \$1,551,084. The cost of fuel and electricity at \$274,789 was greater by 23.9 per cent than in 1946, and the value of materials used direct in manufacturing processes was 14.7 per cent higher at \$4,303,021.

The output of bone and hide glue increased to 2,901 tons worth \$1,557,285 from 2,612 tons at \$1,081,705 in 1946; vegetable glues increased to 10,682 tons at \$1,610,041 from 10,324 tons at \$1,482,570, and other glues totalled 5,642 tons valued at \$1,357,335 as against 6,229 tons at \$1,484,980 in the previous year. Mucilage and paste were made by concerns in other industries, particularly by the manufacturers of inks, and the total production from all sources amounted to \$500,055 in 1947 and to \$537,011 in 1946.

Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1938-1947

Year	Number of plants	Average number of em- ployees	Salaries and wages	Cost of		Gross sell- ing value of products at works
				\$	\$	
1938	19	415	496,950	115,972	851,529	1,904,258
1939	19	427	520,662	89,573	905,411	2,110,806
1940	21	497	621,451	146,661	1,120,288	2,789,389
1941	22	599	753,491	164,820	1,858,728	3,675,631
1942	21	559	842,026	200,142	2,265,181	4,630,667
1943	22	651	1,091,721	211,889	3,037,649	5,736,151
1944	24	631	1,123,129	232,435	3,139,664	5,626,892
1945	20	576	1,067,337	166,210	2,662,236	5,422,488
1946	22	674	1,223,032	222,384	3,749,579	6,784,313
1947	26	729	1,551,084	274,789	4,303,021	7,415,610
Per cent change 1947 from 1946..	..	+8.3	+26.8	+23.9	+14.7	+9.3

Note: Profits or losses cannot be calculated from figures in Table 1 as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

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Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947

Province	Number of plants	Average number of em- ployees	Salaries and wages	Cost of		Gross sell- ing value of products
				fuel and electricity at works	Cost of materials at works	
<u>1946</u>						
Quebec	8	178	300,016	41,155	1,045,880	1,808,744
Ontario	12)	496	923,016	181,229	2,703,699	4,975,569
British Columbia	2)					
CANADA	22	674	1,223,032	222,384	3,749,579	6,784,313
<u>1947</u>						
Quebec	8	174	364,634	42,141	1,028,917	1,710,883
Ontario	16)	555	1,186,450	232,648	3,274,104	5,704,727
British Columbia	2)					
CANADA	26	729	1,551,084	274,789	4,303,021	7,415,610

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1946 and 1947

	Average Number of Employees				TOTAL		
	On Salaries		On Wages		TOTAL	Salaries	Wages
	Male	Female	Male	Female			
<u>1946</u>							
Quebec	31	24	98	25	178	124,787	175,229
Ontario and							
British Columbia	82	38	357	19	496	308,621	614,395
CANADA	113	62	455	44	674	433,408	789,624
<u>1947</u>							
Quebec	33	21	100	20	174	154,260	210,374
Ontario and							
British Columbia	101	52	391	11	555	402,697	783,753
CANADA	134	73	491	31	729	556,957	994,127

Table 4 - WAGE-EARNERS, BY MONTHS, 1946 and 1947 (On the last work-day of each month)

Month	1946			1947		
	Male	Female	TOTAL	Male	Female	TOTAL
January	403	48	451	508	32	540
February	427	50	477	521	31	552
March	423	46	469	513	41	554
April	417	47	464	500	39	539
May	486	51	537	499	37	536
June	474	45	519	489	42	531
July	455	42	497	471	34	505
August	462	40	502	447	25	472
September	470	40	510	451	23	474
October	467	35	502	495	26	521
November	476	39	515	502	24	526
December	475	33	508	501	22	523
AVERAGE	455	44	499	491	31	522

Table 5 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1946		1947	
		Quantity	Cost at works	Quantity	Cost at works
Anthracite coal	ton	25	\$ 303	35	\$ 400
Bituminous coal -					
Canadian	ton	2,865	26,652	195	1,884
Foreign	ton	17,991	145,780	22,785	209,888
Coke	ton	147	1,777	149	2,005
Gasoline	Imp.gal.	37,571	10,668	51,513	17,118
Kerosene	Imp.gal.	128	23	...	...
Fuel oil	Imp.gal.	118,907	12,062	195,441	16,443
Wood	cord	5	36	6	44
Gas - Manufactured ..	M cu.ft.	2,083	1,821	1,746	1,666
Other fuel .....	...	555	...	...	...
Electricity purchased	K.W.H.	1,795,257	22,707	2,269,328	25,341
TOTAL .....	...	...	222,384	...	274,789
Electricity generated for own use	K.W.H.	450,000	...	636,000	...

Table 6 - POWER EQUIPMENT, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1946</u>				
Steam engines and steam turbines	11	716	1	25
Electric motors run by purchased power	296	1,631	46	184
TOTAL	307	2,347	47	209
Electric motors run by power generated in establishment ...	19	258	5	61
Stationary power boilers	9	1,440	...	...
<u>1947</u>				
Steam engines and steam turbines	8	586	1	25
Gasoline, gas and oil engines, other than Diesel .....	...	...	1	5
Electric motors run by purchased power	382	2,175	71	543
TOTAL	390	2,761	73	573
Electric motors run by power generated in establishment ...	19	258	5	61
Stationary power boilers	12	1,915	1	150

Table 7 - MATERIALS USED IN MANUFACTURING, 1946 and 1947

	Unit of measure	1946		1947	
		Quantity	Cost at works	Quantity	Cost at works
Bones	ton	8,453	\$202,664	7,809	\$169,313
Hides and hide trimmings..	ton	19,083	463,569	18,208	496,337
Casein	lb.	1,098,804	261,515	912,412	252,373
Dextrine	lb.	5,871,830	514,602	7,794,370	696,045
Flour, tapioca	lb.	2,800,130	338,568	888,909	106,569
Flour, soya bean	lb.	2,223,166	130,824	1,871,383	114,238
Flour, other	lb.	14,858,201	361,506	9,985,191	357,349
Glycerine	lb.	315,122	46,283	219,736	47,582
Gums and resins, natural..	lb.	366,484	50,848	347,612	45,704
Lime	ton	632	7,937	554	6,439
Resins, synthetic	lb.	325,438	65,210	160,360	35,506
Rubber	lb.	91,232	24,285	89,026	26,693
Solvents (benzol, naphtha, etc.)	gal.	314,898	46,857	197,993	43,869
Starch	lb.	2,600,420	172,696	1,344,680	96,288
Sulphur	lb.	128,000	1,525	185,930	2,199
Sulphuric acid 66° Be	lb.	995,749	9,235	1,399,707	12,800
Tallow and fat	lb.	63,741	8,231	6,497,075	331,336
Containers and packing materials .....	...	...	126,917	...	213,061
All other materials .....	...	...	916,307	...	1,249,320
TOTAL .....	...	...	3,749,579	...	4,303,021

Table 8 - PRODUCTS MADE IN THE ADHESIVES INDUSTRY, 1946 and 1947

Product	1946		1947	
	Quantity	Selling value at works	Quantity	Selling value at works
	lb.	\$	lb.	\$
Cements - Linoleum	1,624,790	87,800	2,230,276	133,432
Other	761,925	119,276	147,643	164,859
Glue - Bone and hide	5,224,629	1,081,705	5,802,196	1,557,285
Casein	1,085,248	257,881	731,838	200,049
Flexible	1,235,638	228,415	1,116,738	217,718
Synthetic resin	7,288,511	769,024	7,239,294	729,672
Vegetable--Dry	2,668,283	206,407	3,638,631	320,476
Liquid ..	17,979,398	1,276,163	17,724,886	1,289,565
Other	2,848,548	229,660	2,196,334	209,896
Mucilage and paste	6,541,498	444,982	6,008,233	414,194
All other products (*) ....	...	2,083,000	...	2,178,964
TOTAL .....	...	6,784,313	...	7,415,610

(*) Includes sealing wax, casein, buttermilk powder, grease, tallow, tankage, blended starches, dextrines, cold water paints, steamed bone, and other such products which were reported by only one or two firms in this industry.

Table 9 - TOTAL PRODUCTION OF ADHESIVES IN CANADA, FROM ALL INDUSTRIES, 1946 and 1947

	Unit of measure	1946		1947	
		Quantity	Selling value at works	Quantity	Selling value at works
Cements - Linoleum ..	lb.	1,814,790	95,895	2,230,276	133,432
Rubber	gal.	...	226,429	180,543	252,908
Other ....	...	...	339,818	...	301,929
Glue - Bone and hide..	lb.	5,224,629	1,081,705	5,802,196	1,557,285
Casein	lb.	1,085,248	257,881	731,838	200,049
Flexible	lb.	1,235,638	228,415	1,116,738	217,718
Fish .....	...	...	297,586	...	269,583
Synthetic resin	lb.	7,288,511	769,024	7,239,294	729,672
Vegetable -					
Dry	lb.	2,668,283	206,407	3,638,631	320,476
Liquid	lb.	17,979,398	1,276,163	17,724,886	1,289,565
Other	lb.	2,921,430	229,380	...	200,464
Mucilage and paste ...	...	...	537,011	...	500,055
Adhesives, other ....	...	...	252,550	...	128,553
TOTAL .....	...	...	5,798,264	...	6,101,689

Table 10 - IMPORTS OF ADHESIVES INTO CANADA, 1946 and 1947

	1946		1947	
	Pounds	\$	Pounds	\$
Glue - Animal	3,653,968	651,379	4,478,037	1,098,459
Synthetic resin	396,365	80,063	602,221	140,154
Vegetable	65,960	6,879	156,753	23,68
Other	387,751	118,479	225,227	67
Mucilage and adhesive paste	267,469	42,251	304,302	
Rubber cement .....	...	373,196	...	

LIST OF FIRMS IN THE ADHESIVES INDUSTRY, 1947

Name of Firm	Location of Plant
<u>Quebec -</u>	
B. B. Chemical Co. of Canada Limited	2610 Bennet Ave., Montreal
Canadian Adhesives Ltd.	2104 Aird Ave., Montreal
Consolidated Tanneries Ltd.	3 Courcelette St., Quebec
Dominion Flour Paste Co., The	2135 Maisonneuve, Montreal
Laucks (Eastern) Ltd.	Stanbridge
Le Page's Inc.	6892 Notre Dame St. E., Montreal
Meredith, Simmons & Co. Ltd.	5565 Cote St. Paul Road, Montreal
Solidex Limited	50 Hurtubise Blvd., Montreal East
<u>Ontario -</u>	
Butterworth, A. C.	103 Oak Crest Ave., Toronto
Canada Glue Co. Limited	Mohawk Road, Brantford
Cann, Lew., Sales	Streetsville
Delany & Pettit Limited	133 Jefferson Ave., Toronto
Dominion Starch Products, Limited	119 Water St., Brockville
Harris, W., & Co. Limited	200 Keating St., Toronto
Industrial Adhesives Ltd.	1255 College St., Toronto
Industrial Grain Products, Limited	741 Talbot St., London
Machon Sealing Wax Company, The	678 Parliament St., Toronto
McCleary, Allan K & Co.	17 Carlaw Ave., Toronto
McCormick & Co. (Canada) Limited	218 Front St. W., Toronto
Meredith Simmons & Co. Limited	363-379 Wallace Ave., Toronto
Perkins Glue Company of Canada, Limited	629 Queen St. S., Kitchener
Stuart & Foster Limited	361 King St. E., Toronto
Stein-Hall Limited	1130 Dupont St., Toronto
Wolverine Cement Company	200 Grand River Ave., Brantford
<u>British Columbia -</u>	
Laucks, I. F., Ltd.	Granville Island, Vancouver
Hasco Products Limited	13th Ave. & Kingsway, New Westminster

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