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Annual Industry Report

Chemicals and Allied Products Group

THE ADHESIVES INDUSTRY, 1946

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 1946 there were 22 establishments in this group, 12 being located in Ontario, 8 in Quebec and 2 in British Columbia.

Production increased 25 per cent in 1946 to \$6,784,313; the number of employees increased 17 per cent to 674, and salaries and wages increased 14.6 per cent to \$1,223,032. The cost of fuel and electricity at \$222,384 was greater by 33.7 per cent than in 1945, and the value of materials used directly in manufacturing processes was 40.9 per cent higher at \$3,749,579.

The output of bone and hide glue increased to 2,612 tons worth \$1,081,705 from 2,089 tons at \$843,957 in 1945; vegetable glues increased to 10,324 tons at \$1,482,570 from 8,994 tons at \$1,148,998, and other glues totalled 6,229 tons valued at \$1,484,980 as against 5,358 tons at \$1,124,001 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 \$537,011 in 1946 and to \$448,860 in 1945.

Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1936 - 1946

Year	Number of plants	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
			\$	\$	\$	\$
1936	19	420	457,170	123,865	813,291	1,799,200
1937	18	416	483,819	116,842	901,194	1,904,137
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
Per cent change						
- 1946 from 1945 ..		+17	+14.6	+33.7	+40.9	+25.1

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, 1945 and 1946

Province	Number of plants	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>1945</u>						
Quebec	5	134	195,586	10,483	703,127	1,166,202
Ontario	13)	442	871,751	155,727	1,959,109	4,256,286
British Columbia	2)					
CANADA	20	576	1,067,337	166,210	2,662,236	5,422,488
<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

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1945 and 1946

	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
<u>1945</u>								
Quebec	21	23	59	31	134	93,201	102,385	195,586
Ontario and British Columbia	87	39	286	30	442	351,767	519,984	871,751
CANADA	108	62	345	61	576	444,968	622,369	1,067,337
<u>1946</u>								
Quebec	31	24	98	25	178	124,787	175,229	300,016
Ontario and British Columbia	82	38	357	19	496	308,621	614,395	923,016
CANADA	113	62	455	44	674	433,408	789,624	1,223,032

Table 4 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (On the last work-day of each month)

Month	1945			1946		
	Male	Female	Total	Male	Female	Total
January	347	56	403	403	48	451
February	349	58	407	427	50	477
March	354	62	416	423	46	469
April	342	60	402	417	47	464
May	330	60	390	486	51	537
June	333	63	396	474	45	519
July	330	61	391	455	42	497
August	321	60	381	462	40	502
September	331	59	390	470	40	510
October	355	65	420	467	35	502
November	371	71	442	476	39	515
December	389	62	451	475	33	508
AVERAGE	345	61	406	455	44	499

(30 Aug. 48)

Table 5 - FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Anthracite coal	ton	17	212	25	303
Bituminous coal -					
Canadian	ton	184	1,649	2,865	26,652
Foreign	ton	16,309	125,155	17,991	145,780
Coke	ton	102	1,189	147	1,777
Gasoline	Imp.gal.	26,304	9,147	37,571	10,668
Kerosene	Imp.gal.	40	7	128	23
Fuel oil	Imp.gal.	89,617	10,492	118,907	12,062
Wood	cord	24	158	5	36
Gas - Manufactured ..	M cu.ft.	1,490	1,527	2,083	1,821
Other fuel .....	...	...	...	...	555
Electricity purchased	K.W.H.	609,812	16,674	1,795,257	22,707
TOTAL .....	...	...	166,210	...	222,384
Electricity generated for own use	K.W.H.	432,000	...	450,000	...

Table 6 - POWER EQUIPMENT, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 5</u>				
Steam engines and steam turbines	4	466	1	15
Electric motors run by purchased power	252	1,174	25	188
TOTAL	256	1,640	26	203
Electric motors run by power generated in establishment	20	393	5	61
Stationary power boilers	6	1,005	...	...
<u>1 9 4 6</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

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Table 7 - MATERIALS USED IN MANUFACTURING, 1945 and 1946

	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bones	ton	8,657	166,235	8,453	202,664
Hides and hide trimmings	ton	14,621	318,456	19,083	463,569
Casein	lb.	518,025	120,988	1,098,804	261,515
Dextrine	lb.	6,144,580	415,009	5,871,830	514,602
Flour, tapioca	lb.	652,499	64,009	2,800,130	338,568
Flour, soya bean	lb.	1,509,682	68,683	2,223,166	130,824
Flour, other	lb.	7,546,547	182,476	14,858,201	361,506
Glycerine	lb.	210,138	29,600	315,122	46,283
Gums	lb.	176,089	25,856	122,200	24,792
Lime	ton	268	3,327	632	7,937
Resin	lb.	410,560	82,990	569,717	91,266
Rubber	lb.	83,062	21,834	91,232	24,285
Solvents (benzol, naphtha, etc.)	gal.	...	57,659	314,898	46,857
Starch	lb.	1,915,340	78,029	2,600,420	172,696
Sulphur	lb.	113,600	1,464	128,000	1,525
Sulphuric acid 66° Be	lb.	730,496	6,801	995,749	9,235
Tallow and fat	lb.	41,025	4,418	63,741	8,231
Containers and packing materials	...	...	155,870	...	126,917
All other materials .....	...	...	858,532	...	916,307
TOTAL .....	...	...	2,662,236	...	3,749,579

Table 8 - PRODUCTS MADE IN THE ADHESIVES INDUSTRY, 1945 and 1946

Product	1 9 4 5		1 9 4 6	
	Quantity lb.	Selling value at works \$	Quantity lb.	Selling value at works \$
Cements - Linoleum	1,043,205	51,965	1,624,790	87,800
Other	881,778	181,787	761,925	119,276
Glue - Bone and hide	4,178,085	843,957	5,224,629	1,081,705
Casein	460,588	104,738	1,085,248	257,881
Flexible	944,664	144,188	1,235,638	228,415
Soya bean	1,704,838	110,051	2,684,604	190,747
Synthetic resin	7,373,607	738,867	7,288,511	769,024
Vegetable - dry	2,287,089	170,191	2,668,283	206,407
liquid ..	15,699,975	978,807	17,979,398	1,276,163
Other	231,750	26,157	163,944	38,913
Mucilage	131,141	49,814	312,940	47,057
Paste - Dry	4,159,875	272,191	4,187,357	277,115
Liquid	856,022	21,396	2,041,201	120,810
All other products (x) .....	...	1,728,379	...	2,083,000
TOTAL .....	...	5,422,488	...	6,784,313

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

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Table 9 - TOTAL PRODUCTION OF ADHESIVES IN CANADA, FROM ALL INDUSTRIES, 1945 and 1946

	1 9 4 5		1 9 4 6	
	Quantity	Selling value at works	Quantity	Selling value at works
	lb.	\$	lb.	\$
Cements - Linoleum	1,523,205	66,165	1,814,790	95,895
Rubber .....	...	353,500	...	226,429
Other .....	...	454,398	...	577,888
Glue - Bone and hide	4,178,085	843,957	5,224,629	1,081,705
Casein	460,588	104,738	1,085,248	257,881
Flexible	944,664	144,188	1,235,638	228,415
Soya bean	1,704,838	110,051	2,684,604	190,747
Synthetic resin ..	7,373,607	738,867	7,288,511	769,024
Vegetable - dry ..	2,287,089	170,191	2,668,283	206,407
liquid	15,699,975	978,807	17,979,398	1,276,163
Other	305,768	43,112	256,626	60,958
Mucilage .....	...	83,091	...	94,806
Paste - Dry	4,268,786	285,260	4,187,357	277,115
Liquid .....	...	80,509	...	165,090
Adhesives, other (kind not stated) .....	...	224,603	...	252,550
TOTAL .....	...	4,681,437	...	5,761,500

Table 10 - IMPORTS OF ADHESIVES INTO CANADA, 1945 and 1946

	1 9 4 5		P
	Pounds	\$	
Glue - Animal	3,929,178	652,848	
Synthetic resin ..	516,306	135,202	
Vegetable	27,840	2,754	
Other	264,344	58,420	
Mucilage and adhesive paste	240,058		
Rubber cement .....	...	



LIST OF FIRMS IN THE ADHESIVES INDUSTRY, 1946

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 Courcellette 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
Delany & Pettit Limited	133 Jefferson Ave., Toronto
Harris, W., & Co. Limited	200 Keating St., Toronto
Machon Sealing Wax Company, The	678 Parliament St., 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
Poole Adhesives Limited	741 Talbot Street, London
Stuart & Foster Limited	361 King St. E., Toronto
Stein-Hall Limited	250 Van Horne 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