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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE ADHESIVES INDUSTRY, 1943

This report on the Adhesives Industry in Canada covers the operations of all factories which made glue, mucilage, paste or special cements as their chief products. In 1943 there were 22 establishments in this group, 13 being located in Ontario, 7 in Quebec and 2 in British Columbia.

Production advanced 23.9 per cent in 1943 to \$5,736,151; the number of employees increased 16.4 per cent to 651; and salaries and wages increased 29.7 per cent to \$1,091,721. The cost of fuel and electricity at \$211,889 was greater by 6.0 per cent than in 1942, and the value of materials used directly in manufacturing processes was 34.1 per cent higher at \$3,037,649.

The quantity of bone and hide glue made amounted to 2,651 tons worth \$1,039,063 against 2,964 tons at \$1,157,762 in 1942. Output of other glues advanced in value to \$2,535,822 from \$1,766,186 and the value of mucilage and paste increased to \$357,268 from \$328,273. Mucilage and paste were also made by concerns in other industries, particularly by ink manufacturers, and the total production from all sources amounted to \$465,536 in 1943 and to \$458,299 in 1942.

Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES 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 ....	16	2,271,071	283	314,005	78,712	463,199	1,141,761
1934 ....	16	2,123,205	332	366,008	77,198	537,535	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
1938 ....	19	2,580,263	415	496,950	115,372	851,529	1,904,258
1939 ....	19	2,733,476	427	520,662	89,573	905,411	2,110,806
1940 ....	21	2,742,463	497	621,451	146,661	1,120,288	2,789,389
1941 ....	22	3,016,349	539	753,491	164,820	1,858,728	3,675,631
1942 ....	21	3,523,541	559	842,026	200,142	2,265,181	4,630,667
1943 ....	22	4,408,819	651	1,091,721	211,889	3,037,649	5,736,151
Per cent change, 1943 from 1942 ....	..	+25.1	+16.4	+29.7	+6.0	+34.1	+23.9

NOTE: Profits or losses cannot be calculated from above figures 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, 1942 and 1943

Year	Number of plants	Capital employed	Average		Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			number of employees	Salaries and wages			
				\$	\$	\$	\$
<u>1942</u>							
Quebec .....	9	1,079,103	157	203,622	55,612	532,846	1,115,244
Ontario .....	10)	2,444,438	402	638,404	144,530	1,732,335	3,515,423
British Columbia	2)						
CANADA ....	21	3,523,541	559	842,026	200,142	2,265,181	4,630,667
<u>1943</u>							
Quebec .....	7	1,034,688	183	243,533	56,606	545,971	1,254,763
Ontario .....	13)	3,374,131	468	848,188	155,283	2,491,678	4,481,388
British Columbia	2)						
CANADA ....	22	4,408,819	651	1,091,721	211,889	3,037,649	5,736,151

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1942 and 1943 (On the last day of the year)

Province	Present value of land, buildings, machinery and equipment	Value of Inventories			TOTAL CAPITAL EMPLOYED
		Raw materials, fuel and other supplies on hand and stocks in process	Finished products on hand	Cash, bills and accounts receivable	
	\$	\$	\$	\$	\$
<u>1942</u>					
Quebec .....	333,412	404,175	79,576	261,340	1,079,103
Ontario and British Columbia	808,830	386,318	349,029	900,261	2,444,438
CANADA ....	1,142,242	790,493	428,605	1,162,201	3,523,541
<u>1943</u>					
Quebec .....	504,988	197,948	93,783	237,969	1,034,688
Ontario and British Columbia	1,119,312	605,340	334,339	1,315,140	3,374,131
CANADA ....	1,624,300	803,288	428,122	1,553,109	4,408,819

Table 4 - EMPLOYEES, SALARIES AND WAGES, 1942 and 1943

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
					\$	\$	\$	
<u>1942</u>								
Quebec .....	34	14	106	3	157	82,664	120,958	203,622
Ontario and British Columbia	64	30	296	12	402	201,012	437,392	638,404
CANADA ....	98	44	402	15	559	283,676	558,350	842,026
<u>1943</u>								
Quebec .....	33	18	104	28	183	105,295	138,238	243,533
Ontario and British Columbia	96	35	310	27	468	313,170	535,018	848,188
CANADA ....	129	63	414	55	651	418,465	673,256	1,091,721



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Table 5 - WAGE-EARNERS, BY MONTHS, 1942 and 1943 (On the last work-day of each month)

Month	1 9 4 2			1 9 4 3		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	419	8	427	425	40	465
February .....	416	9	425	426	44	470
March .....	424	13	437	423	42	465
April .....	419	13	432	416	45	465
May .....	419	19	438	418	53	471
June .....	421	14	435	419	57	476
July .....	407	14	421	429	62	491
August .....	386	14	400	411	60	471
September .....	377	14	391	391	67	458
October .....	378	15	393	405	65	470
November .....	385	30	405	424	59	483
December .....	390	21	411	411	60	471
AVERAGE .....	402	15	417	414	55	469

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1942 and 1943 (In one week of highest employment; overtime included)

Hours worked per week	Number of Wage-Earners			
	1 9 4 2		1 9 4 3	
	Male	Female	Male	Female
30 hours or less .....	16	...	32	13
31-43 hours .....	31	...	42	9
44 hours .....	71	9	56	15
45-47 hours .....	32	5	61	28
48 hours .....	59	...	58	1
49-50 hours .....	16	...	13	...
51-54 hours .....	95	...	77	...
55 hours .....	8	...	16	...
56-64 hours .....	92	...	55	...
65 hours and over .....	26	...	49	1
TOTAL .....	446	14	459	67
Total wages paid in selected week ... \$	11,059	209	12,861	1,187

Table 7 - FUEL AND ELECTRICITY USED, 1942 and 1943

Kind	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Anthracite coal .....	ton	4	57	22	285
Bituminous coal - Canadian .....	ton	2,454	21,958	4,330	40,701
Foreign .....	ton	16,442	115,725	18,193	132,238
Coke .....	ton	123	1,379	124	1,523
Gasoline .....	Imp.gal.	63,204	16,467	33,659	9,844
Kerosene .....	Imp.gal.	...	...	100	22
Fuel oil .....	Imp.gal.	340,565	22,817	18,034	1,329
Wood .....	cord	9	80	30	325
Gas - Manufactured .....	M cu.ft.	314	341	1,526	1,290
Electricity purchased ....	K.W.H.	1,803,337	21,318	1,918,171	24,344
TOTAL .....	...	...	200,142	...	211,889
Electricity generated for own use .....	K.W.H.	525,000	...	603,200	...

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Table 8 - POWER EQUIPMENT, 1942 and 1943

	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 2</u>				
Steam engines and steam turbines	7	620	1	15
Gasoline engines .....	1	55	...	...
Electric motors run by purchased power .....	248	1,213	21	223
TOTAL .....	256	1,888	22	238
Electric motors run by power generated in establishment ....	19	258	5	61
Stationary boilers .....	9	1,261	1	60
<u>1 9 4 3</u>				
Steam engines and steam turbines	6	610	2	90
Electric motors run by purchased power .....	301	1,402	28	174
TOTAL .....	307	2,012	30	264
Electric motors run by power generated in establishment ....	19	258	8	61
Stationary boilers .....	12	1,465	1	60

Table 9 - MATERIALS USED IN MANUFACTURING, 1942 and 1943

Material	Unit of measure	<u>1 9 4 2</u>		<u>1 9 4 3</u>	
		Quantity	Cost at works	Quantity	Cost at works
Bones .....	ton	9,165	119,772	7,105	100,858
Hides and hide trimmings .....	ton	21,465	359,165	15,660	324,544
Casein .....	lb.	666,407	145,378	1,221,088	275,207
Dextrine .....	lb.	6,175,498	390,331	6,750,596	322,390
Flour, tapioca .....	lb.	1,388,395	104,480	969,097	69,769
Flour, soya bean .....	lb.	2,354,148	78,059	1,313,270	52,806
Flour, other .....	lb.	5,066,498	128,423	8,277,531	252,218
Glycerine .....	lb.	66,632	10,469	93,967	14,635
Gums .....	lb.	121,867	18,922	160,832	27,008
Lime .....	ton	1,007	11,107	1,016	10,573
Resin .....	lb.	335,102	36,369	458,678	81,296
Rubber .....	lb.	88,781	16,192	75,441	14,013
Solvents (benzol, naphtha, etc.)	gal.	142,508	38,084	158,895	47,432
Starch .....	lb.	788,511	42,066	1,174,031	60,821
Sulphur .....	lb.	178,700	3,087	185,000	2,847
Sulphuric acid, 66° Bé .....	lb.	1,311,813	17,317	1,625,040	14,679
Tallow and fat .....	lb.	4,263,428	216,872	4,321,651	217,880
Containers and packing materials	...	...	83,705	...	198,436
All other materials .....	...	...	445,383	...	950,137
TOTAL .....	...	...	2,265,181	...	3,037,649



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Table 10 - PRODUCTS MADE, 1942 and 1943

Product	Unit of measure	1942		1943	
		Quantity	Selling value at works	Quantity	Selling value at works
Bone and hide glue .....	lb.	5,928,053	1,157,762	5,301,646	1,039,063
Vegetable glue, dry and liquid	lb.	19,619,457	1,240,709	11,751,309	1,337,423
Other glues (casein, soya bean, fish, flexible, etc.) .....	...	...	525,477	17,939,705	1,198,399
Grease .....	lb.	1,637,237	125,131	1,868,117	144,240
Mucilage and paste (xx) .....	...	...	323,273	...	357,268
All other products (x) .....	...	...	1,253,315	...	1,659,758
<b>TOTAL</b> .....	...	...	<b>4,630,667</b>	...	<b>5,736,151</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 \$465,536 in 1943 compared with \$458,299 in 1942.

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

LIST OF FIRMS IN THE ADHESIVES INDUSTRY, 1943

Name	Location of Plant
<u>QUEBEC -</u>	
B. B. Chemical Co. of Canada Limited	2610 Bennett Ave., Montreal
Bulldog Grip Cement Co. Inc.	2101 Bennett Ave., Montreal
Dominion Flour Paste Co., The	2135 Maisonneuve, Montreal
Hercules-Laux-Merritt Ltd.	Stanbridge
Le Page's Inc.	6892 Notre Dame St. E., Montreal
Marquis, F. Canac, Limited	3 Courcalette St., Quebec
Meredith, Simmons & Co. Limited	5565 Cote St. Paul Road, Montreal
<u>ONTARIO -</u>	
Canada Glue Co. Limited	Mohawk Road, Brantford
Dominion Glues Limited	1 Strange St., Kitchener
Dominion Starch Products Ltd.	Water St., Brockville
Delaney & Pettit Limited	133 Jefferson Ave., Toronto
Harris, W., & Co. Limited	200 Keating St., Toronto
McCormick & Co. (Canada) Limited	218 Front St. W., Toronto
Machon Sealing Wax Company, The	678 Parliament St., Toronto
Meredith Simmons & Co. Limited	263-379 Wallace Ave., Toronto
Perkins Glue Company of Canada Ltd.	629 Queen St. S., Kitchener
Toronto Adhesive Company	27 Jarvis St., Toronto
Stuart & Foster Limited	361 King St. E., Toronto
Stein-Hall Ltd.	250 Van Horne St., Toronto
Wolverine Cement Co.	200 Grand River Ave., Brantford
<u>BRITISH COLUMBIA</u>	
Laucks, I. F., Ltd.	Granville Island, Vancouver
Hasco Products Ltd.	131 Eighth St. (rear), New Westminster

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