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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE ADHESIVES INDUSTRY, 1944

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 1944 there were 24 establishments in this group, 15 being located in Ontario, 7 in Quebec and 2 in British Columbia.

Production declined 1.9 per cent in 1944 to \$5,626,892, the number of employees decreased 3.1 per cent to 631 and salaries and wages increased 2.8 per cent to \$1,123,129. The cost of fuel and electricity at \$232,435 was greater by 9.4 per cent than in 1943, and the value of materials used directly in manufacturing processes was 3.3 per cent higher at \$3,139,664.

The output of bone and hide glue declined to 2,347 tons worth \$927,820 from 2,651 tons at \$1,039,063 in 1943; vegetable glues increased to 9,563 tons at \$1,259,888 from 9,000 tons at \$1,198,399; and other glues totalled 6,280 tons valued at \$1,344,732 as against 6,271 tons at \$1,355,043 in the previous year and the value of mucilage and paste increased to \$376,161 from \$357,263 in 1943. Mucilage and paste were also made by concerns in other industries, particularly by the manufacturers of inks, and the total production from all sources amounted to \$474,225 in 1944 and to \$465,536 in 1943.

Table 1 - Principal Statistics of the Adhesives Industry 1934 - 1944

Year	No. of plants	Average No. of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1934	16	332	366,008	77,198	587,535	1,307,393
1935	17	389	423,513	114,604	550,700	1,436,259
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	2,739,389
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
Per cent change, 1944 from 1943.....		-3.1	+2.8	+9.4	+3.3	-1.9

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, 1943 and 1944

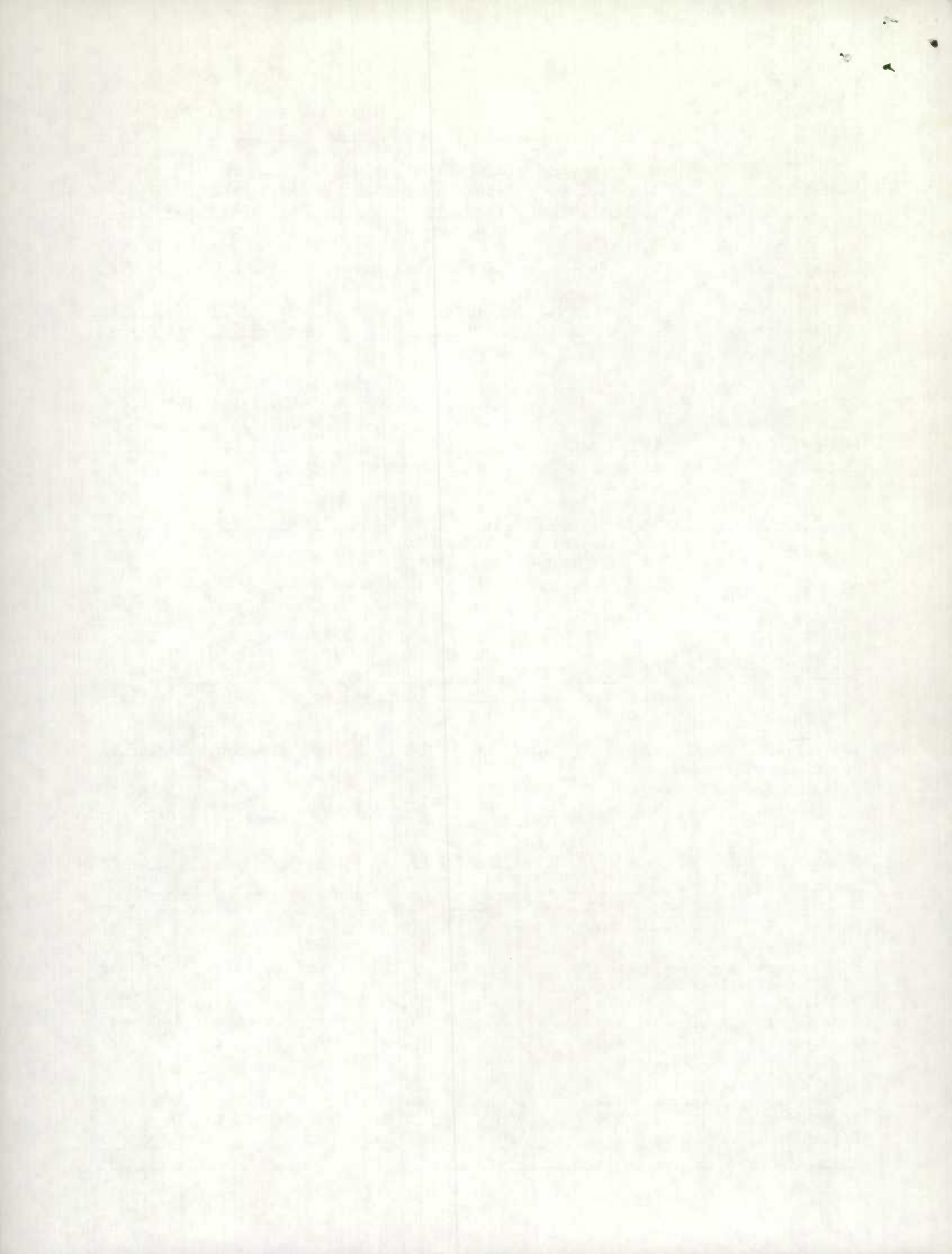
Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
<u>1943</u>						
Quebec.....	7	183	243,533	56,606	545,971	1,254,763
Ontario	13)					
British Columbia	2)	468	848,138	155,283	2,491,678	4,481,338
CANADA	22	651	1,091,721	211,889	3,037,649	5,736,151
<u>1944</u>						
Quebec.....	7	176	278,633	53,927	637,171	1,377,366
Ontario	15)	455	844,496	178,508	2,502,493	4,249,526
British Columbia	2)					
CANADA	24	631	1,123,129	232,435	3,139,664	5,626,892

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1943 and 1944

	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<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	535,013	848,138
CANADA	129	63	414	55	651	413,465	673,256	1,091,721
<u>1944</u>								
Quebec	26	16	108	26	176	105,137	173,496	278,633
Ontario and British Columbia	89	41	293	32	455	304,003	540,493	844,496
CANADA	115	57	401	58	631	409,140	713,989	1,123,129

Table 4 - WAGE-EARNERS, BY MONTHS, 1943 and 1944 (On the last work-day of each month)

Month	1943			1944		
	Male	Female	TOTAL	Male	Female	TOTAL
January	425	40	465	417	57	474
February	426	44	470	397	60	457
March	423	42	465	397	61	458
April	416	49	465	414	58	472
May	418	53	471	398	59	457
June	419	57	476	415	55	470
July	429	62	491	412	65	477
August	411	60	471	404	62	466
September	391	67	458	390	55	445
October	405	65	470	386	58	444
November	424	59	483	405	51	456
December	411	60	471	393	46	439
AVERAGE	414	55	469	401	58	459



Adhesives

Table 5 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1943 and 1944 (In one week of highest employment; overtime included)

Hours worked per week	Number of Wage-Earners			
	1 9 4 3		1 9 4 4	
	Male	Female	Male	Female
30 hours or less	32	13	38	12
31-43 hours	42	9	34	1
44 hours	56	15	72	22
45-47 hours	61	28	56	39
48 hours	58	1	114	-
49-50 hours	13	...	19	1
51-54 hours	77	...	51	-
55 hours	16	...	16	-
56-64 hours	55	...	32	-
65 hours and over	49	1	21	-
TOTAL	459	67	453	75
Total wages paid in selected week..	\$ 12,861	1,187	13,911	1,046

TABLE 6 - FUEL AND ELECTRICITY USED, 1943 and 1944

Kind	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Anthracite coal	ton	22	283	15	186
Bituminous coal - Canadian	ton	4,330	40,701	2,454	22,063
Foreign	ton	18,103	132,233	19,894	159,604
Coke	ton	124	1,523	49	635
Gasoline	Imp.gal.	33,659	9,844	39,685	12,092
Kerosene	Imp.gal.	100	22	140	25
Fuel oil	Imp.gal.	18,034	1,329	151,883	9,854
Wood	cord	30	325	45	600
Gas - Manufactured	M cu.ft.	1,526	1,280	3,432	2,072
Electricity purchased.....	K.W.H.	1,918,171	24,344	1,865,957	25,304
TOTAL.....	...	...	211,889	-	232,435
Electricity generated for own use	K.W.H.	603,200	...	446,400	-

TABLE 7 - POWER EQUIPMENT, 1943 and 1944

	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 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	11	60
<u>1 9 4 4</u>				
Steam engines and steam turbines	6	610	2	90
Electric motors run by purchased power	312	1,528	21	127
TOTAL	318	2,138	23	217
Electric motors run by power generated in establishment	19	258	5	61
Stationary power boilers	14	1,521	1	60

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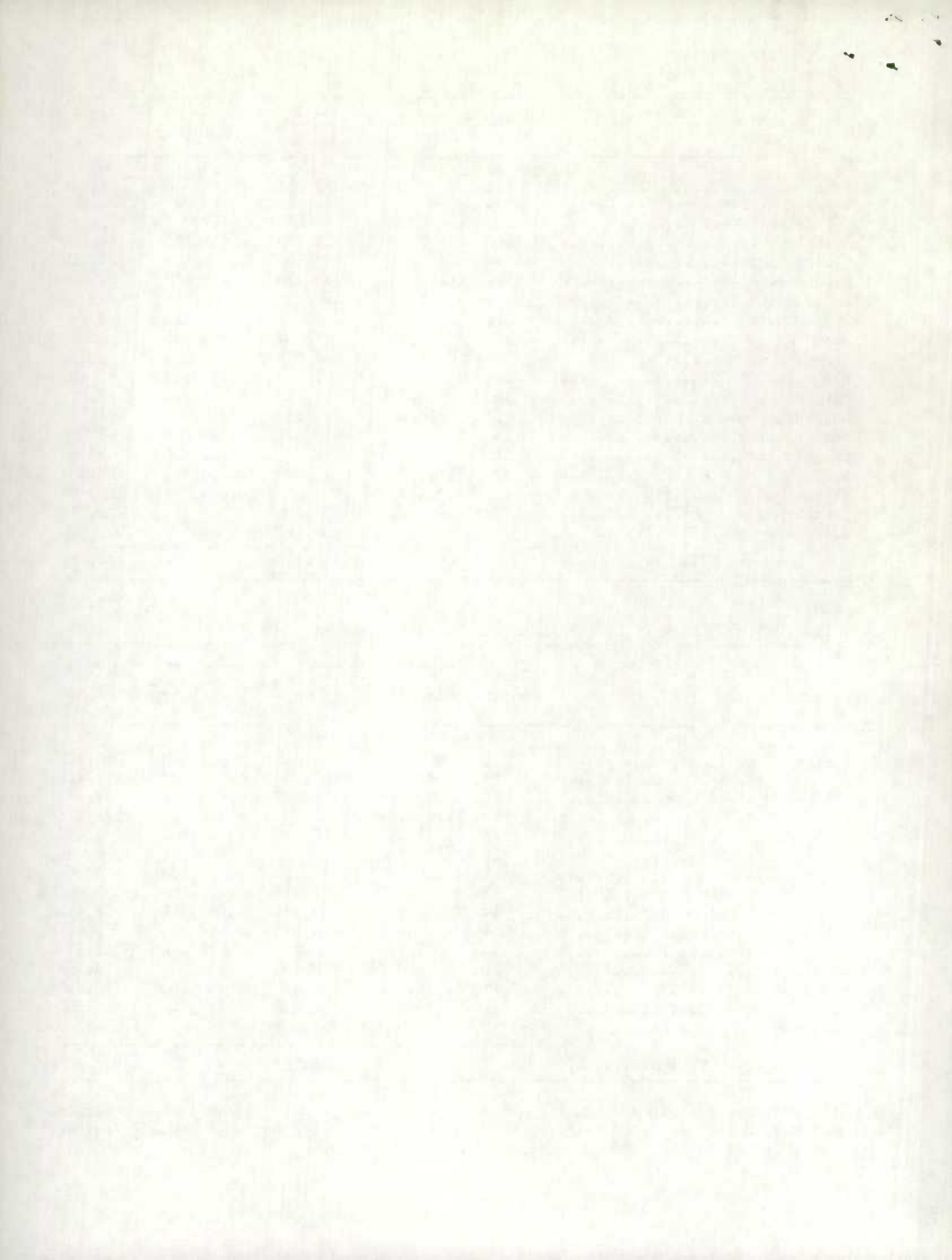
Table 8 - MATERIALS USED IN MANUFACTURING, 1943 and 1944

	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bones	ton	7,105	100,858	12,988	84,973
Hides and hide trimmings	ton	15,660	324,544	17,007	320,324
Casein	lb.	1,221,088	275,207	727,016	160,831
Dextrine	lb.	6,750,596	322,390	6,411,415	384,594
Flour, tapioca	lb.	969,097	69,769	1,238,198	103,732
Flour, soya bean	lb.	1,313,270	52,806	1,095,307	51,333
Flour, other	lb.	8,277,531	252,218	10,152,559	280,061
Glycerine	lb.	93,967	14,685	150,411	25,490
Gums	lb.	160,832	27,008	79,058	13,686
Lime	ton	1,016	10,573	814	8,475
Resin	lb.	458,678	31,296	497,704	87,828
Rubber	lb.	75,441	14,013	119,853	33,547
Solvents (benzol, naphtha, etc)	gal.	158,895	47,432	248,995	61,580
Starch	lb.	1,174,031	60,821	1,255,266	64,235
Sulphur	lb.	185,000	2,847	139,600	2,058
Sulphuric acid 66° Bé	lb.	1,625,040	14,679	1,608,771	13,981
Tallow and fat	lb.	4,321,651	217,880	4,564,538	229,733
Containers and packing materials	...	...	198,436	-	201,603
All other materials .....	...	...	950,187	-	1,013,600
TOTAL .....	...	...	3,037,649	-	3,139,664

Table 9 - PRODUCTS MADE IN THE ADHESIVES INDUSTRY 1943 and 1944

Product	Unit of Measure	1 9 4 3		1 9 4 4	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Cements - Linoleum	lb.	901,330	45,642	473,636	54,473
Other	lb.	867,220	180,800	1,079,500	287,222
Glue - Bone and hide	lb.	5,301,646	1,059,063	4,693,408	927,820
Casein	lb.	1,103,664	254,399	551,176	121,701
Fish	lb.	26,180	15,776	12,700	8,486
Flexible	lb.	790,693	117,620	764,864	116,998
Soya bean	lb.	1,506,000	92,370	1,222,900	76,454
Synthetic resin	lb.	8,977,932	963,876	9,783,555	1,005,493
Vegetable - dry	lb.	2,253,957	195,051	3,340,816	259,447
liquid	lb.	15,745,748	1,003,348	15,784,506	1,000,441
Other	lb.	137,533	11,002	210,000	15,600
Mucilage	lb.	74,000	40,900	117,350	59,580
Paste - Dry	lb.	4,214,912	276,043	4,584,165	299,918
Liquid	lb.	913,200	40,325	757,720	16,663
All other products (x)		-	1,459,956	-	1,376,596
TOTAL			5,736,151	-	5,626,892

(x) 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.



Adhesives

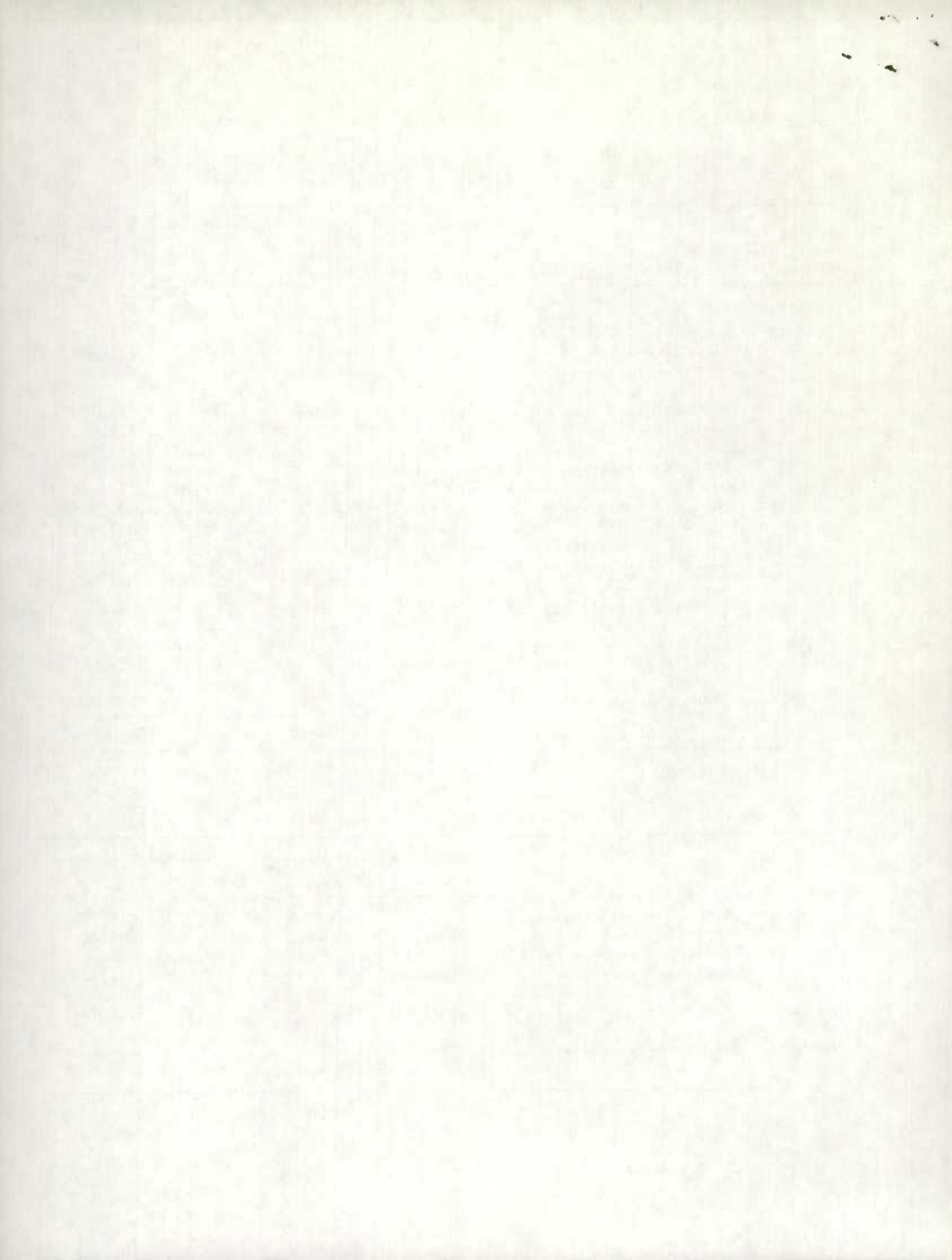
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Table 10 - TOTAL PRODUCTION OF ADHESIVES IN CANADA - 1943 and 1944
(From all industries)

	1943		1944	
	Quantity	Selling value at works \$	Quantity	selling value at works \$
Cements - Linoleum	-	51,642	-	64,473
Rubber	-	415,036	-	485,684
Other	-	198,724	-	288,387
Glue - Bone and hide	5,301,646 lb.	1,039,063	4,693,408	927,820
Casein	1,103,664 lb.	254,399	551,176	121,701
Fish	80,237 gal.	192,230	84,500	167,264
Flexible	790,693 lb.	117,620	764,864	116,998
Soya bean	1,506,000 lb.	92,370	1,222,900	76,454
Synthetic resin	8,977,932 lb.	963,876	9,783,555	1,005,493
Vegetable - dry	2,253,957 lb.	195,051	3,340,816	259,447
liquid ...	15,745,748 lb.	1,003,343	15,784,506	1,000,441
Other	-	47,214	-	34,951
Mucilage	194,530 lb.	84,904	221,210	99,611
Paste - Dry	4,214,912 lb.	276,043	4,659,870	309,003
Liquid	1,159,069 lb.	104,589	896,396	65,611
Adhesives, other (kind not stated)	-	169,760	-	189,836
TOTAL	-	5,205,869	-	5,213,174

Table 11 - IMPORTS OF ADHESIVES INTO CANADA, 1943 and 1944

	1943		1944	
	Pounds	\$	Pounds	\$
Glue - Animal	2,426,898	401,713	2,601,445	435,957
Synthetic resin	144,070	38,153	1,029,297	290,343
Vegetable	15,220	1,749	19,206	1,668
Other	342,255	102,093	138,717	46,083
Mucilage and Adhesive paste	330,991	42,178	388,078	47,060
Rubber cement	-	132,614	-	194,450



LIST OF FIRMS IN THE ADHESIVES INDUSTRY, 1944

<u>Name</u>	<u>Location of Plant</u>
<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 Courcelette St., Quebec
Meredith, Simmons & Co. Limited	5565 Cote St. Paul Road, Montreal
<u>ONTARIO -</u>	
Butterworth, A. C.	103 Oak Crest Ave., Toronto
Canada Glue Co. Limited	Mohawk Road, Brantford
Dominion Glues Limited	1 Strange St., Kitchener
Dominion Starch Products 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, Limited	629 Queen St., S., Kitchener
Poole Adhesives Limited	741 Talbot Street, London
Toronto Adhesive Company	27 Jarvis Street, Toronto
Stuart & Foster Limited	361 King St. E., Toronto
Stein-Hall Limited	250 Van Horne Street, 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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