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Published by Authority of Hon. H. H. Stevens, M.P.,
Minister of Trade and Commerce.

80-29-1-34
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CHEMICALS AND ALLIED PRODUCTS.

THE ADHESIVES INDUSTRY, 1932.

Production from the 14 factories in Canada which made adhesives as their chief products was valued at \$1,087,215 in 1932 compared with a total of \$1,742,553 from 13 factories in 1931. Capital employed was reported at \$2,501,171, the average number of workers was 229, and the cost of materials used in manufacturing was \$457,146.

Seven plants were in Quebec and 7 in Ontario. Output of glue of all kinds was valued at \$726,122 at factory prices compared with \$1,068,968 in 1931 and \$1,018,731 in 1930. Bone and hide glue was made in 5 establishments in 1932, fish glue was reported by only one concern and vegetable glues by 3 companies. Casein glue, rosin size, sealing wax, rubber cement, mucilage, paste and glue factory by-products made up the remainder of the production.

Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY IN CANADA, BY PROVINCES, 1931 and 1932.

Provinces	No. of plants	Capital employed \$	Average number of em- ployees	Salaries and wages \$	Cost of materials at works \$	Selling value of products at works \$	Value added by manu- facturing \$
<u>1931</u>							
Quebec	8	730,744	118	136,624	271,700	614,786	343,086
Ontario	5	2,119,763	179	238,974	606,102	1,127,767	521,665
CANADA	13	2,850,507	297	375,598	877,802	1,742,553	864,751
<u>1932</u>							
Quebec	7	509,785	63	61,097	150,954	396,636	245,682
Ontario	7	1,991,386	166	202,045	306,192	690,579	384,387
CANADA	14	2,501,171	229	263,142	457,146	1,087,215	630,069

Table 2 - CAPITAL EMPLOYED, BY PROVINCES, 1931 and 1932.

Provinces	Present value of lands, build- ings, machinery and equipment \$	Inventory value of materials on hand, stocks in process, fuel and other supplies \$	Inventory value of finished products on hand \$	Operating capital (cash, bills and accounts re- ceivable, etc.) \$	TOTAL CAPITAL EMPLOYED \$
<u>1931</u>					
Quebec	357,369	58,464	139,755	175,156	730,744
Ontario	1,193,245	186,969	371,977	367,572	2,119,763
CANADA ...	1,550,614	245,433	511,732	542,728	2,850,507
<u>1932</u>					
Quebec	326,963	75,190	13,239	94,393	509,785
Ontario	1,166,010	124,653	403,897	296,826	1,991,386
CANADA ...	1,492,973	199,843	417,136	391,219	2,501,171

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Table 3 - EMPLOYEES, SALARIES AND WAGES, 1931 and 1932.

Provinces	Number of employees				Salaries and Wages			
	On salaries		On wages		TOTAL	Salaries	Wages	TOTAL
	Male	Female	Male	Female				
					\$	\$	\$	
<u>1931</u>								
Quebec	22	5	86	5	118	59,770	76,854	136,624
Ontario	14	9	153	3	179	60,674	178,300	238,974
CANADA .	36	14	239	8	297	120,444	255,154	375,598
<u>1932</u>								
Quebec	13	...	46	4	63	23,683	37,414	61,097
Ontario	21	10	129	6	166	80,069	121,976	202,045
CANADA .	34	10	175	10	229	103,752	159,390	263,142

Table 4 - WAGE-EARNERS, BY MONTHS, 1931 and 1932.

Months	1931			1932		
	Male	Female	TOTAL	Male	Female	TOTAL
January	249	8	257	209	10	219
February	248	8	256	205	13	218
March	242	8	250	198	10	208
April	240	8	248	178	10	188
May	246	8	254	156	8	164
June	237	8	245	155	7	162
July	241	8	249	150	12	162
August	231	8	239	152	10	162
September	233	8	241	153	10	163
October	230	8	238	157	8	165
November	228	8	236	163	7	170
December	243	8	251	210	9	219
AVERAGE	239	8	247	175	10	185

Table 5 - TOTAL OF WAGE-EARNERS IN MONTHS OF HIGHEST EMPLOYMENT ACCORDING TO REGULAR HOURS WORKED PER WEEK, 1931 and 1932. (Overtime not included)

Regular hours per week	Number of wage-earners		Regular hours per week	Number of wage-earners	
	1931	1932		1931	1932
40 hours or less .....	...	25	51 - 53 hours	12	4
41 - 43 hours	1	5	54 hours	102	104
44 hours	10	17	55 hours .....	...	6
45 - 47 hours	1	...	56 - 59 hours	10	...
48 hours	16	20	60 hours	85	31
49 - 50 hours	4	9	Over 60 hours	30	7

Table 6 - FUEL AND ELECTRICITY USED, 1931 and 1932.

Kinds	Unit of measure	1931		1932	
		Quantity	Cost at works	Quantity	Cost at works
Anthracite coal	short tons	6	91	111	600
Bituminous coal - Canadian ..	short tons	1,493	11,884	801	6,166
Foreign	short tons	9,986	52,335	7,038	36,493
Lignite coal - Canadian	short tons	2	26	...	...
Coke	short tons	30	350	41	396
Wood	cords	72	64	63	60
Gas - Manufactured	M cu.ft.	642,948	10,399	486,015	9,563
Electricity purchased	K.W.H.	...	75,149	...	53,300
TOTAL .....	...	...	...	...	...

Table 7 - POWER EQUIPMENT, 1931 and 1932.

	1931		1932	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	6	477	6	477
Total Primary Equipment	6	477	6	477
Electric motors run by purchased power	109	896	109	953
Total Power Equipment	115	1,373	115	1,430
Boilers	14	1,155	17	1,975

Table 8 - MATERIALS USED IN MANUFACTURING, 1931 and 1932.

Materials	Unit of measure	1931		1932	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bones, hides and glue stock	-	...	324,134	...	125,695
Dextrine and glucose	lb.	1,512,149	72,565	2,049,214	100,953
Flour	lb.	206,947	4,100	1,907,952	21,215
Gums	lb.	27,666	2,867	19,927	2,186
Lime	ton	476	4,511	313	2,899
Rosin	lb.	3,550,709	65,324	4,095,124	60,881
Rubber	lb.	61,199	15,362	21,435	2,031
Shellac	lb.	9,000	3,875	8,200	1,905
Soda ash	lb.	467,720	7,272	525,400	8,251
Solvents (benzol, naphtha, etc.) ..	gal.	72,424	15,567	41,273	9,534
Starch	lb.	146,904	5,724	234,964	7,528
Sulphur	lb.	161,285	2,534	97,700	1,669
Sulphuric acid, 66° Bé	lb.	182,096	3,890	127,590	2,417
All other materials	-	...	323,069	...	82,530
Bottles, tops, brushes, boxes, etc. -	-	...	26,999	...	27,452
TOTAL	-	...	877,802	...	457,146

Table 9 - PRODUCTS MADE, 1930, 1931 and 1932.

Products	Selling value at works		
	1930 \$	1931 \$	1932 \$
Bone, hide, fish and vegetable glue (xx) ..	1,018,731	1,068,968	726,122
Mucilage and paste (xx)	54,004	31,836	52,722
All other products (x)	577,899	641,749	308,371
TOTAL	1,650,634	1,742,553	1,087,215

(xx) In addition to the output here reported there was some glue, mucilage and paste made in other industries.

(x) Includes rosin size, rubber cement, casein glue, sealing wax, mixed fertilizers, poultry food, ~~fox food~~ and other such products which were reported by only 1 or 2 firms in this industry and therefore cannot be shown separately.

DIRECTORY OF FIRMS IN THE ADHESIVES INDUSTRY, 1932.

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

<u>Name of Firm</u>	<u>Location of Plant</u>	<u>Main Products, 1932.</u>
Auger, F. X.	2 Garagonthier St., St. Malo, P.Q.	Bone and hide glue; grease; tallow and tankage.
Boston Blacking Co. of of Canada, Ltd.	1450 Cabot St., Cote St. Paul, Montreal, P.Q.	Rubber cement.
Bulldog Grip Cement Co. Inc.	2101 Bennett Ave., Montreal, P.Q.	Casein glue.
Canada Glue Co. Ltd.	Brantford, Ont.	Bone and hide glue; grease; tankage.
Dominion Flour Paste Co., The	2122 $\frac{1}{2}$ Champlain St., Montreal, P.Q.	Flour paste; size.
Fox, T. M., and Sons Ltd.	Cote St. Paul, Montreal, P.Q.	Vegetable glue; bone and hide glue; size.
Harris, W., & Co. Ltd.	200 Keating St., Toronto, 2, Ont.	Bone and hide glue; grease; tankage; fox food; poultry food; hides.
Machon Sealing Wax Co.	Rear 47 St. James Ave., Toronto, 5, Ont.	Sealing wax.
Marquis, F. Canac, Reg'd.	3 Courcelette St., Quebec, P.Q.	Bone and hide glue; grease; tallow; fertilizers.
Meredith, Simmons & Co. Ltd.	371 Wallace Ave., Toronto, Ont.	Liquid and dry vegetable glue; paste.
Paper Makers Chemical Corp. Ltd.	Burlington Junction, Ont.	Rosin size; sal soda and soap powder.
Russia Cement Co.	2551 Pius IX Ave., Montreal, P.Q.	Fish glue; paste and mucilage.
Stuart & Foster Ltd.	361 King St. E., Toronto, Ont.	Vegetable glue; paste.
Wolverine Cement Co.	145 Dalhousie St., Brantford, Ont.	Linoleum cement.