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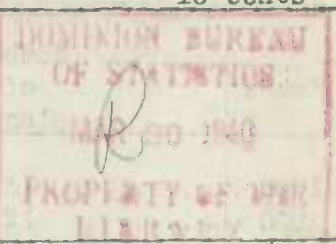
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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA



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ANNUAL INDUSTRY REPORT - CHEMICALS AND ALLIED PRODUCTS GROUP

THE ADHESIVES INDUSTRY, 1938

Statistics in this report on the Adhesives Industry cover only those factories which make glue, mucilage or paste as their chief product. During 1938 there were nineteen firms operating in this group, 10 being located in Ontario, 7 in Quebec and 2 in British Columbia.

Production and employment in the industry remained steady during 1938 compared with 1937, the value of production being reported at \$1,904,258 compared with \$1,904,137 in the previous year, and employment at 415 against 416. Capital investment rose 9.4 per cent to \$2,580,263, expenditures for salaries and wages increased 2.7 per cent to \$496,950, but the cost of materials purchased for use in manufacturing operations dropped 5.6 per cent to \$851,529.

Production of bone and hide glue increased in quantity to 2,530 tons from 2,468 tons but the value declined to \$754,867 from \$802,572. Output of other glues advanced in value to \$611,032 from \$548,129, and the value of mucilage and paste increased to \$120,099 from \$109,856. Mucilage and paste were made also by concerns in other industries, particularly by the manufacturers of writing inks, the total production from all sources amounting to about \$202,000 in 1938 against \$182,000 in 1937.

Imports of adhesives into Canada during 1938 were as follows: 575 tons of vegetable glues valued at \$38,373; 654 tons of animal glue at \$130,369; 88 tons of liquid glue at \$31,608; and 80 tons of mucilage and paste at \$18,906.

Exports of glue amounted to 100 tons at \$33,763 and exports of glue stock totalled 1,070 tons appraised at \$22,995.

Faint table with multiple columns and rows, likely containing statistical data related to the industry report.

Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1929 - 1938

Years	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
		\$		\$	\$	\$	\$
1929	13	1,850,273	267	321,296	68,157	962,940	1,830,644
1930	12	1,921,406	226	286,825	64,380	882,908	1,650,634
1931	13	2,850,507	297	375,598	75,149	877,802	1,742,553
1932	14	2,501,171	229	263,142	53,300	457,146	1,087,215
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	587,535	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	115,972	851,529	1,904,258
Per cent change							
1938 from 1937.	..	+ 9.4	-0.2	+2.7	-0.7	-5.5	+ 0.0..

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.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1937 and 1938

Years	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
		\$		\$	\$	\$	\$
<u>1937</u>							
Quebec	7)						
British Columbia	2)	652,482	133	136,204	26,746	286,484	645,826
Ontario	9	1,705,180	283	347,615	90,096	614,710	1,258,311
CANADA	18	2,357,662	416	483,819	116,842	901,194	1,904,137
<u>1938</u>							
Quebec	7)						
British Columbia	2)	629,963	151	142,567	28,700	308,903	591,250
Ontario	10	1,950,300	284	354,383	87,272	542,626	1,313,008
CANADA	19	2,580,263	415	496,950	115,972	851,529	1,904,258

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1937 and 1938

Provinces	Present value of lands, buildings, machinery and equipment	Inventory value of materials, finished products, fuel and other supplies on hand, and stocks in process	Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1937</u>				
Quebec				
British Columbia)	309,035	158,706	184,741	652,482
Ontario	848,284	615,045	241,851	1,705,180
CANADA	1,157,319	773,751	426,592	2,357,662

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1937 and 1938 (Concluded)

Provinces	Present value	Inventory value of	Operating	TOTAL
	of lands, build- ings, machinery and equipment	materials, finished products, fuel and other supplies on hand, and stocks in process	capital (cash, bills and accounts re-	CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1938</u>				
Quebec)	315,712	167,198	147,053	629,963
British Columbia)				
Ontario	1,009,364	594,565	346,371	1,950,300
CANADA	1,325,076	761,763	493,424	2,580,263

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1938

	Number of plants	Capital employed	Number of employees	Gross selling value of products at works
		\$		\$
<u>(a) PRODUCTION</u>				
Under \$10,000	6	175,994	26	34,063
\$10,000 to \$50,000	4	116,888	25	122,552
Over \$50,000	9	2,287,381	364	1,747,643
TOTAL	19	2,580,263	415	1,904,258
<u>(b) EMPLOYEES</u>				
1 to 10	9	165,769	34	188,096
Over 10	10	2,414,494	381	1,716,162
TOTAL	19	2,580,263	415	1,904,258
<u>(c) CAPITAL</u>				
Under \$25,000	7	51,218	20	55,745
\$25,000 to \$100,000	6	328,390	75	439,519
Over \$100,000	6	2,200,655	320	1,408,994
TOTAL	19	2,580,263	415	1,904,258

Table 5 - EMPLOYEES, SALARIES AND WAGES, 1937 and 1938

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
					\$	\$	\$	
<u>1937</u>								
Quebec)	30	9	83	11	133	63,510	72,694	136,204
British Columbia)								
Ontario	40	12	228	3	283	107,171	240,444	347,615
CANADA	70	21	311	14	416	170,681	313,138	483,819
<u>1938</u>								
Quebec)	33	5	81	12	131	64,736	77,831	142,567
British Columbia)								
Ontario	43	14	224	3	284	123,223	231,160	354,383
CANADA	76	19	305	15	415	187,959	308,991	496,950

Table 6 - WAGE-EARNERS, BY MONTHS, 1937 and 1938 (On the last day of each month)

Months	1 9 3 7			1 9 3 8		
	Male	Female	TOTAL	Male	Female	TOTAL
January	312	14	326	308	14	322
February	308	15	323	311	15	326
March	322	15	337	308	15	323
April	321	15	336	307	15	322
May	321	15	336	312	14	326
June	306	15	321	307	15	322
July	303	15	318	295	15	310
August	295	14	309	299	16	315
September	312	14	326	283	17	300
October	304	15	319	299	15	314
November	307	15	322	314	15	329
December	323	14	337	308	14	322
AVERAGE	311	14	325	305	15	320

Table 7 - FUEL AND ELECTRICITY USED, 1937 and 1938

Kinds	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Anthracite coal	short tons	6	79	4	56
Bituminous coal - Canadian	short tons	2,174	11,418	2,109	12,920
Foreign	short tons	13,012	79,059	12,375	74,276
Coke	short tons	146	1,424	62	586
Fuel oil	Imp. gal.	155,053	6,450	210,178	8,917
Wood	cords	6	45	8	69
Gas - Manufactured	M cu. ft.	304	325	280	296
Electricity purchased	K. W. H.	1,325,201	18,042	1,228,793	18,852
TOTAL .....	\$	...	116,842	...	115,972

Table 8 - POWER EQUIPMENT, 1937 and 1938

	1 9 3 7		1 9 3 8	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines..	8	705	9	855
Hydraulic turbines and waterwheels	1	25	1	25
Total Primary Equipment	9	730	10	880
Electric motors run by purchased power	148	1,316	179	1,743
TOTAL	157	2,046	189	2,623
Stationary boilers	13	1,155	13	1,145

Table 9 - MATERIALS USED IN MANUFACTURING, 1937 and 1938

Materials	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bones	ton	10,057	63,793	7,386	75,416
Hides, hide trimmings and sinues	ton	13,400	276,925	13,518	261,538
Casein	lb.	82,935	11,590	104,836	12,448
Dextrine	lb.	2,330,441	108,702	2,310,858	97,223
Flour, tapioca	lb.)	204,697	9,063	233,542	11,363
Flour, soya bean	lb.)			928,737	23,990
Flour, other	lb.	3,313,048	87,947	2,012,487	40,901
Glycerine	lb.	90,201	16,756	108,261	16,510
Gums	lb.	32,282	4,118	60,532	5,692
Lime	ton	728	5,782	662	5,787
Resin	lb.	80,267	3,872	74,066	3,542
Rubber	lb.	22,164	4,791	27,666	5,872
Solvents (benzol, naphtha, etc.)	gal.	43,812	8,427	49,102	9,215
Starch	lb.	642,677	29,858	525,416	25,558
Sulphur	lb.	140,150	2,336	141,093	2,487
Sulphuric acid, 66° Be	lb.	1,309,889	11,312	1,107,636	10,075
Tallow and fat	lb.	1,712,762	17,824	1,732,061	13,677
Containers and packing materials	...	...	66,512	...	55,927
All other materials .....	...	...	171,586	...	174,308
TOTAL .....	...	...	901,194	...	851,529

Table 10 - PRODUCTS MADE, 1937 and 1938

Products	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
Bone and hide glue	lb.	4,935,901	802,572	5,059,032	754,867
Vegetable glue, dry and liquid	lb.	6,932,875	393,524	8,074,458	436,228
Other glues (casein, soya bean, fish, flexible, etc.)	xxx	...	154,605	...	174,804
Grease	lb.	3,115,823	97,438	3,183,118	84,685
Mucilage and paste (xx)	xxx	...	109,856	...	120,099
All other products (x)	xxx	...	346,142	...	333,575
TOTAL .....	\$	...	1,904,137	...	1,904,258

(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 \$202,000 in 1938 compared with \$182,000 in 1937.

(x) Includes liquid solder, 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.

Table 11 - IMPORTS INTO CANADA AND EXPORTS OF GLUE, MUCILAGE AND PASTE, 1937 and 1938

	1	9	3	7	1	9	3	8
	Quantity		Value		Quantity		Value	
	Lb.		\$		Lb.		\$	
(a) IMPORTS								
Glue, vegetable -								
TOTAL IMPORTS	2,813,415	75,903	1,149,690	38,373				
From United Kingdom ...	4,721	406	24,690	1,103				
United States	574,079	26,350	531,514	27,806				
Mucilage and adhesive paste -								
TOTAL IMPORTS	208,195	27,020	160,437	18,906				
From United Kingdom ...	36,835	7,153	31,899	5,963				
United States	170,373	19,805	128,452	12,923				
Glue, animal, powdered or sheet -								
TOTAL IMPORTS	2,270,047	218,865	1,308,994	130,369				
From United Kingdom ...	1,866,226	167,618	975,788	94,851				
United States	239,913	37,713	187,455	24,931				
Glue, liquid -								
TOTAL IMPORTS	159,576	33,155	175,112	31,608				
From United Kingdom ...	89,123	17,578	105,461	18,090				
United States	70,255	15,432	69,285	13,369				
(b) EXPORTS								
Glue -								
TOTAL EXPORTS	104,500	19,482	199,700	33,763				
To United Kingdom	89,300	16,050	159,800	28,177				
United States	2,000	181	16,900	924				
Glue Stock -								
TOTAL EXPORTS	5,748,400	72,738	2,140,900	22,995				
To United Kingdom .....	...	...	...	...
United States	5,748,400	72,738	2,140,500	22,984				

DIRECTORY OF FIRMS IN THE ADHESIVES INDUSTRY, 1938

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

Name of Firm and Location of Plant	Main Products, 1938
Boston Blacking Co. of Canada, Limited 1505 Cabot St., Cote. St. Paul, Montreal, P.Q.	Rubber cement; coated cotton duck.
Bulldog Grip Cement Co. Inc., 2101 Bennett Ave., Montreal, P.Q.	Casein glue; buttermilk powder; casein; dry and liquid paste.
Butterworth, A. & Son, Butterworth Ave., Scarboro, Ont.	Nitro-cellulose, cement and solvent.
Canada Glue Co. Limited, Mohawk Road, Brantford, Ont.	Bone and hide glue; grease; steamed bone; raw bone meal.

DIRECTORY OF FIRMS IN THE ADHESIVES INDUSTRY, 1938
(Concluded)

<u>Name of Firm and Location of Plant</u>	<u>Main Products - 1938</u>
Dominion Flour Paste Co., 2122 $\frac{1}{2}$ Champlain St., Montreal, P.Q.	Size and liquid glue and paste.
Gypsum, Lime & Alabastine, Canada, Ltd., 1 Strange St., Kitchener, Ont.	Hide glue; grease.
Harris, W., & Co. Limited, 200 Keating St., Toronto 2, Ont.	Bone and hide glue; grease; tankage; fox food; poultry food; hides; tallow; fer- tilizers.
Hasco Products Limited, 131-8th St., New Westminster, B.C.	Marine glue.
Hercules Laux-Merritt Co. Ltd., Stanbridge, P.Q.	Casein glue; size.
Laucks, I. F., Ltd. Granville Island, Vancouver, B.C.	Casein and dry vegetable glues; casein paints; synthetic resin sealers; pre- mixes for adhesives.
Machon Sealing Wax Co., 678 Parliament St., Toronto, Ont.	Sealing wax.
Marquis, F. Canac, Reg'd. 3 Courcelette St., Quebec, P.Q.	Bone and hide glue; grease and tallow; fertilizers.
Meredith, Simmons & Co. Limited, 5565 Cote St. Paul Road, Montreal, P.Q. and 371 Wallace Ave., Toronto, Ont.	Liquid and dry vegetable glue; size; bone and hide glue; liquid and dry paste; flexible glues.
Metalite Products, 347 Main St., Toronto, Ont.	Liquid solder and transparent cement.
Reanite Corporation Ltd. Hilton St., Eastview, Ont.	Rubber cement, latexed goods, paints.
Russia Cement Co., 4105 Richelieu St., Montreal, P.Q.	Paste and mucilage; liquid solder; fish glue.
Stuart & Foster, Limited, 361 King St. E., Toronto, Ont.	Vegetable glue; paste; size; casein glue; mucilage; binders.
Toronto Adhesive Co., 27 Jarvis St., Toronto, Ont.	Liquid vegetable glue; laminated board; flexible glue.
Wolverine Cement Co., 99 Grand River Ave., Brantford, Ont.	Linoleum cements.



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