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THE ADHESIVES INDUSTRY  
1949

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## NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada—mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

For the purpose of annual compilation and publication, the manufacturing industries have been classified into major groups, prefaced by two reports of a general nature, as follows:

- I Summary Report on Manufacturing Industries
- II Manufacturing Industries by Geographical Distribution
- III Foods and Beveragee
- IV Tobacco and Tobacco Products
- V Rubber Products
- VI Leather Products
- VII Miscellaneous Manufactures
- VIII Textiles
- IX Wood and Paper Products
- X Printing Trades
- XI Operations in the Woods
- XII Iron and Steel Products
- XIII Transportation Equipment
- XIV Non-ferrous Metal Products
- XV Electrical Apparatus and Supplies
- XVI Non-metallic Mineral Products
- XVII Products of Petroleum and Coal
- XVIII Chemicals and Allied Products

The present report belongs in Group XVIII. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A General Review
- B The Acids, Alkalies and Salts Industry
- C The Fertilizers Industry
- D The Fertilizer Trade in Canada
- E The Medicinal and Pharmaceutical Preparations Industry
- F The Paints, Varnishes and Lacquers Industry
- G The Primary Plastics Industry
- H The Soaps, Washing Compounds and Cleaning Preparations Industry
- I The Toilet Preparations Industry
- J The Vegetable Oil Industry
- K The Inks Industry
- L The Adhesives Industry
- M The Polishes and Dressings Industry
- N The Compressed Gases Industry
- O The Coal Tar Distillation Industry
- P The Miscellaneous Chemical Products Industry

# THE ADHESIVES INDUSTRY

## 1949

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 1949 there were 25 establishments in this group, 16 being located in Ontario, 7 in Quebec and 2 in British Columbia.

A general decline was registered by this industry in 1949, production decreased 9.7 per cent to \$7,824,564, the number of employees 2.9 per cent to 749, and salaries and wages 5.6 per cent to \$1,727,848. The cost of fuel and electricity at \$339,839 was lower by 4.6 per cent than in 1948 and the value of materials used direct in manufacturing processes was 10.3 per cent lower at \$4,218,359.

Output of adhesives during 1949, including small amounts from other industries, was as follows: linoleum cement, 3,884,000 pounds at \$242,000; rubber cement, 344,000 gallons at \$426,000; bone and hide glue, 8,002,000 pounds at \$1,975,000; casein glue, 505,000 pounds at \$140,000; flexible glue, 1,403,000 pounds at \$314,000; fish glue valued at \$491,000; synthetic resin glue, 7,662,000 pounds at \$813,000; vegetable glues, 19,967,000 pounds at \$1,723,000; mucilage and paste valued at \$600,000 and miscellaneous adhesives at \$957,000. The total value of all adhesives, including mucilage and paste, was \$7,681,000 in 1949 compared with \$7,775,000 in 1948 and \$6,995,000 in 1947.

**TABLE 1. Principal Statistics of the Adhesives Industry, 1945-1949**

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
			\$	\$	\$	\$
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
1947 .....	26	729	1,551,084	274,789	4,303,021	7,415,610
1948 .....	25	771	1,829,603	356,191	4,701,297	8,660,211
1949 .....	25	749	1,727,848	339,839	4,218,359	7,824,564
Per cent change 1949 from 1948 .....	—	-2.9	-5.6	-4.6	-10.3	-9.7

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.

**TABLE 2. Principal Statistics, by Provinces, 1948 and 1949**

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
			\$	\$	\$	\$
<b>1948</b>						
Quebec .....	6	171	354,972	33,554	960,339	1,758,288
Ontario .....	17	600	1,474,631	322,637	3,740,958	6,901,923
British Columbia .....	2					
<b>Canada</b> .....	<b>25</b>	<b>771</b>	<b>1,829,603</b>	<b>356,191</b>	<b>4,701,297</b>	<b>8,660,211</b>
<b>1949</b>						
Quebec .....	7	177	360,117	35,058	1,272,306	2,355,280
Ontario .....	16	572	1,367,731	304,781	2,946,053	5,469,284
British Columbia .....	2					
<b>Canada</b> .....	<b>25</b>	<b>749</b>	<b>1,727,848</b>	<b>339,839</b>	<b>4,218,359</b>	<b>7,824,564</b>

TABLE 3. Products Made in the Adhesives Industry, 1948 and 1949

Product	1948		1949	
	Quantity	Selling value at works	Quantity	Selling value at works
	lb.	\$	lb.	\$
<b>Cements:</b>				
Linoleum.....	3,314,280	194,918	3,444,500	220,930
Other.....	—	168,128	—	305,535
<b>Glue:</b>				
Bone and hide.....	8,937,495	2,488,093	7,026,432	1,825,268
Casein.....	557,026	166,771	505,011	140,441
Flexible.....	1,868,851	371,680	1,402,606	313,728
Synthetic resin.....	5,326,529	581,753	7,329,736	770,817
<b>Vegetable:</b>				
Dry.....	2,386,362	319,871	2,370,582	239,556
Liquid.....	17,569,762	1,436,054	17,596,294	1,483,286
Other.....	—	551,887	—	511,052
Mucilage and paste.....	6,056,980	499,665	6,681,399	514,196
All other products <sup>1</sup> .....	—	1,881,391	—	1,499,755
<b>Total.....</b>	<b>—</b>	<b>8,660,211</b>	<b>—</b>	<b>7,824,564</b>

1. Includes sealing wax, grease, tallow, tankage, blended starches, dextrines, steamed bone, and other such products which were reported by only one or two firms in this industry.

TABLE 4. Materials Used in the Adhesives Industry, 1948 and 1949

	1948		1949	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Alcohol, ethyl, denatured or not (including tax)..... imp. gal.	20,814	28,134	30,580	27,006
Bones..... tons	14,353	555,362	12,987	538,128
Borax..... lb.	692,266	23,170	747,380	27,196
Hides and hide trimmings..... tons	20,482	701,556	18,645	563,613
Casein..... lb.	520,534	142,850	639,474	145,719
China clay..... "	1,004,880	12,657	1,239,304	14,709
Dextrine..... "	8,256,938	781,155	7,690,674	652,801



TABLE 4. Materials Used in the Adhesives Industry, 1948 and 1949 - Concluded

	1948		1949	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Flour:				
Potato .....	lb. 562,767	48,776	515,932	35,829
Soya bean .....	" 1,294,660	83,274	577,962	34,285
Tapioca .....	" 856,202	104,456	614,831	68,226
Wheat .....	" 6,060,125	242,523	5,913,880	222,360
Other .....	" 673,633	48,644	1,283,243	78,601
Formaldehyde .....	" 2,439,276	101,983	4,969,879	204,507
Glucose .....	" 259,204	22,280	298,843	21,709
Glue:				
Bone and hide .....	" 585,074	172,096	324,911	98,161
Fish .....	" 273,620	43,598	207,726	28,485
Glycerine .....	" 139,363	47,921	142,254	39,227
Gums and resins, natural:				
Arabic .....	" 157,431	24,591	137,943	22,840
Tragacanth .....	" 1,680	911	1,008	587
Other .....	" 248,745	27,472	251,988	24,669
Lime .....	tons 638	7,169	627	8,505
Phenol .....	lb. 1,190,270	151,000	1,362,291	183,066
Resins, synthetic .....	" 454,611	80,567	425,121	101,279
Rubber or latex .....	" 338,547	92,535	381,096	83,447
Sodium fluoride .....	" 40,845	6,301	46,291	6,671
Sodium hydroxide (caustic soda) .....	" 928,133	22,510	622,802	19,750
Solvents (benzol, naphtha, etc.) .....	imp. gal. 136,761	42,223	158,758	36,602
Starch .....	lb. 1,144,000	93,610	976,933	66,168
Sulphur .....	" 121,640	1,461	165,790	2,100
Sulphuric acid (as 100%) .....	" 1,689,361	15,872	1,197,757	11,204
Tallow and fat .....	" 5,392,586	272,017	5,597,378	85,823
Urea, crystal .....	" 476,458	33,671	1,475,820	89,935
Whiting .....	" 21,240	531	15,670	929
Zinc sulphate .....	" 239,998	14,073	231,252	15,385
Containers and packing materials .....	-	347,898	-	379,077
All other materials .....	-	306,450	-	279,760
Total .....	-	4,701,297	-	4,218,359

TABLE 5. Total Production of Adhesives, From All Industries, 1948 and 1949

	1948		1949	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
<b>Cements:</b>				
Linoleum .....	3,314,280 lb.	194,918	3,884,000	242,000
Rubber .....	253,010 gal.	350,834	344,000	426,000
Other .....	—	92,151	—	173,000
<b>Glue:</b>				
Bone and hide .....	9,618,597 lb.	2,597,995	8,002,000	1,975,000
Casein .....	557,026 "	166,771	505,000	140,000
Flexible .....	1,868,851 "	371,680	1,403,000	314,000
Fish .....	—	488,091	—	491,000
Synthetic resin .....	5,326,529 lb.	581,753	7,662,000	813,000
<b>Vegetable:</b>				
Dry .....	2,386,362 "	319,871	2,371,000	240,000
Liquid .....	17,569,762 "	1,436,054	17,596,000	1,483,000
Other .....	—	250,773	—	139,000
Mucilage and paste .....	—	601,824	—	600,000
Adhesives, other .....	—	322,427	—	645,000
<b>Total .....</b>	<b>—</b>	<b>7,775,142</b>	<b>—</b>	<b>7,681,000</b>

TABLE 6. Imports of Adhesives, 1948 and 1949

	1948		1949	
	Pounds	\$	Pounds	\$
<b>Glue:</b>				
Animal .....	2,607,127	660,961	274,267	43,366
Synthetic resin .....	1,161,093	276,376	1,006,663	202,111
Vegetable .....	43,807	5,859	30,992	4,256
Other .....	210,379	72,315	264,310	67,510
Mucilage and adhesive paste .....	649,524	75,888	200,524	45,761
Rubber cement .....	—	510,299	—	487,921

TABLE 7. Employees and Their Earnings in the Adhesives Industry, 1948 and 1949

	Average number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
<b>1948</b>								
Quebec .....	26	26	100	19	171	106,704	248,268	354,972
Ontario and British Columbia .....	90	48	452	10	600	417,689	1,056,942	1,474,631
<b>Canada .....</b>	<b>116</b>	<b>74</b>	<b>552</b>	<b>29</b>	<b>771</b>	<b>524,393</b>	<b>1,305,210</b>	<b>1,829,603</b>
<b>1949</b>								
Quebec .....	39	25	97	16	177	135,008	225,109	360,117
Ontario and British Columbia .....	126	44	388	14	572	435,309	932,422	1,367,731
<b>Canada .....</b>	<b>165</b>	<b>69</b>	<b>485</b>	<b>30</b>	<b>749</b>	<b>570,317</b>	<b>1,157,531</b>	<b>1,727,848</b>

List of Firms in the Adhesives Industry, 1949

Name	Address
<b>Quebec:</b>	
B. B. Chemical Co. of Canada Limited .....	2610 Bennet Ave., Montreal
Canadian Adhesives Ltd. ....	2104 Aird Ave., Montreal
Dominion Flour Paste Co., The .....	2135 Maisonneuve, Montreal
Le Page's Inc. ....	6892 Notre Dame St. E., Montreal
Monsanto (Canada) Limited .....	425 St. Patrick St., Ville La Salle
National Adhesives (Canada) Limited.....	2125 Remembrance Road, Lachine
Solidex Limited .....	50 Hurtubise Blvd., Montreal East
<b>Ontario:</b>	
Canada Glue Co. Limited.....	Mohawk Road, Brantford
Cann, L. Lew., Sales.....	Streetsville
Delany & Petit Limited .....	133 Jefferson Ave., Toronto
Dixon, E. F., & Co. ....	R. R. #3, King
Dominion Starch Products, Limited .....	119 Water St., Brockville
Harris, W., & Co. Limited .....	200 Keating St., Toronto
Industrial Adhesives Ltd. ....	1255 College St., Toronto
Machon Sealing Wax Company, The .....	678 Parliament St., Toronto
McCleary, Allan R. & Co. ....	17 Carlaw Ave., Toronto
McCormick & Co. (Canada) Limited.....	454 King St. W., Toronto
National Adhesives (Canada) Limited.....	363-379 Wallace Ave., Toronto
Perkins Glue Company of Canada, Limited .....	629 Queen St. S., Kitchener
Stuart & Foster Limited.....	361 King St. E., Toronto
Stein-Hall Limited.....	1130 Dupont St., Toronto
Swift Canadian Co. Ltd. ....	1960 St. Clair Ave. W., Toronto
Wolverine Cement Company .....	200 Grand River Ave., Brantford
<b>British Columbia:</b>	
Hasco Products Limited .....	11th Avenue, New Westminster
Monsanto (Canada) Limited .....	Granville Island, Vancouver

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