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**THE ADHESIVES INDUSTRY**  
**1952**

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### NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** - The Primary Industries, including mining, forestry and fisheries; **Volume II** - Manufacturing; **Volume III** - Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I - General Review of the Manufacturing Industries, \$1.50
- II - The Manufacturing Industries, by Provinces
  - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢
  - Section 2. Principal Statistics of Individual Industries, 75¢
  - Section 3. Principal Statistics by Regional Distribution, 75¢
- III - Foods and Beverages
- IV - Tobacco and Tobacco Products
- V - Rubber Products
- VI - Leather Products
- VII - Textiles
- VIII - Wood and Paper Products
- IX - Printing Trades
- X - Iron and Steel Products
- XI - Transportation Equipment
- XII - Non-ferrous Metal Products
- XIII - Electrical Apparatus and Supplies
- XIV - Non-metallic Mineral Products
- XV - Products of Petroleum and Coal
- XVI - Chemicals and Allied Products
- XVII - Miscellaneous Manufactures

The present report belongs in Part XVI, Chemicals and Allied Products. 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, 25¢
- B - The Acids, Alkalies and Salts Industry, 25¢
- C - The Fertilizers Industry, 25¢
- D - The Fertilizer Trade in Canada, 25¢
- E - The Medicinal and Pharmaceutical Preparations Industry, 25¢
- F - The Paints, Varnishes and Lacquers Industry, 25¢
- G - The Primary Plastics Industry, 25¢
- H - The Soaps, Washing Compounds and Cleaning Preparations Industry, 25¢
- I - The Toilet Preparations Industry, 25¢
- J - The Vegetable Oils Industry, 25¢
- K - The Inks Industry, 25¢
- L - The Adhesives Industry, 25¢
- M - The Polishes and Dressings Industry, 25¢
- N - The Compressed Gases Industry, 25¢
- O - The Coal Tar Distillation Industry, 25¢
- P - The Miscellaneous Chemical Products Industry, 25¢

# THE ADHESIVES INDUSTRY

## 1952

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 1952 there were 30 establishments in this group, 16 being located in Ontario, 9 in Quebec, 4 in British Columbia and 1 in Manitoba.

Factory shipments by firms in the Adhesives Industry were valued at \$10,838,879 in 1952, a decline of 5.2 per cent from the 1951 total of \$11,437,037. The number of employees decreased 1.1 per cent to 706 while salaries and wages at \$2,128,897 were up 8.0 per cent from the \$1,971,906 paid in 1951. The cost of fuel and electricity at \$367,382 was lower by 0.6 per cent than in 1951 and the value of materials used directly in manufacturing processes was 2.8 per cent lower at \$6,106,121.

Output of adhesives during 1952, including small amounts from other industries, was as follows: linoleum cement, 12,679,000 pounds at \$706,000; rubber cement, 648,000 gallons at \$1,488,000; bone and hide glue, 5,140,000 pounds at \$1,666,000; casein glue, 861,000 pounds at \$260,000; flexible glue, 2,084,000 pounds at \$509,000; fish glue, 1,671,000 pounds at \$456,000; synthetic resin glue, 17,300,000 pounds at \$2,150,000; vegetable glues, 19,956,000 pounds at \$2,051,000; mucilage and paste valued at \$746,000 and miscellaneous adhesives at \$1,458,000. The total value of all adhesives, including mucilage and paste, was \$11,490,000 in 1952, compared with \$10,924,000 in 1951 and \$9,130,000 in 1950.

Note: Data presented in this bulletin for 1952 under the heading of "Production" actually represent "Factory Shipments" and therefore, are not exactly comparable with previous years.

**TABLE 1. Principal Statistics of the Adhesives Industry, 1948-1952**

Year	Number of plants	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
			\$	\$	\$	\$
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
1950 .....	28	669	1,723,015	364,849	5,086,086	9,679,396
1951 .....	29	714	1,971,906	369,465	6,280,084	11,437,037
1952 .....	30	706	2,128,897	367,382	6,106,121	10,838,879
Per cent change, 1952 from 1951 .....	-	- 1.1	+ 8.0	- 0.6	- 2.8	- 5.2

1. The 1952 total represents the value of "Factory Shipments". The inventory value of finished products at plant at end of 1951 amounted to \$1,244,000 and at end of 1952 to \$1,496,000.

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, 1951 and 1952**

Province	Number of plants	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>1951</b>						
Quebec .....	9	177	462,700	55,877	1,808,382	3,055,195
Ontario .....	16	492	1,385,674	305,404	3,861,722	7,330,280
British Columbia .....	3	45	123,532	8,184	609,980	1,051,562
Manitoba .....	1					
<b>Canada .....</b>	<b>29</b>	<b>714</b>	<b>1,971,906</b>	<b>369,465</b>	<b>6,280,084</b>	<b>11,437,037</b>
<b>1952</b>						
Quebec .....	9	147	398,473	39,224	2,009,085	3,078,102
Ontario .....	16	514	1,604,057	319,664	3,348,737	6,592,443
British Columbia .....	4	45	126,367	8,494	748,299	1,168,334
Manitoba .....	1					
<b>Canada .....</b>	<b>30</b>	<b>706</b>	<b>2,128,897</b>	<b>367,382</b>	<b>6,106,121</b>	<b>10,838,879</b>

TABLE 3. Products Made in the Adhesives Industry, 1951 and 1952

Product	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
	lb.	\$	lb.	\$
Cement:				
Linoleum .....	5,239,540	354,713	6,599,430	437,383
Other (rubber, etc.) .....	—	341,992	—	390,357
Glue:				
Bone and hide .....	8,541,868	2,664,870	5,139,554	1,665,703
Casein .....	871,496	290,348	861,386	260,177
Flexible .....	1,948,717	504,621	2,083,501	509,060
Synthetic resin .....	13,159,685	1,752,850	16,400,681	2,058,749
Vegetable:				
Dry .....	2,454,197	284,456	2,231,032	261,181
Liquid .....	16,157,470	1,684,592	17,725,157	1,790,459
Other .....	—	505,543	—	683,631
Mucilage and paste .....	6,439,434	640,235	5,341,941	633,369
All other products <sup>1</sup> .....	—	2,412,817	—	2,148,810
<b>Total</b> .....	—	<b>11,437,037</b>	—	<b>10,838,879</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, 1951 and 1952

Material	1951		1952	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Acid, hydrochloric (muriatic) 20 <sup>0</sup> Bc..... lb.	1	1	18,110	782
Acid, sulphuric (as 100%) .....	1,436,427	18,244	936,183	12,372
Alcohol, ethyl, denatured or not (including tax) .... Imp. gal.	34,157	44,000	59,631	90,533
Alcohol, methyl .....	1	1	27,388	28,352
Bones .....	13,917	799,830	12,717	442,469
Borax .....	910,734	35,371	876,527	42,149
Hides and hide trimmings.....	21,352	610,337	19,330	486,577
Casein .....	652,493	213,084	669,510	159,550
China clay .....	1,098,380	17,139	1,608,022	23,941
Dextrine .....	8,192,603	813,376	7,459,731	810,665

TABLE 4. Materials Used in the Adhesives Industry, 1951 and 1952 - Concluded

Material	1951		1952		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
<b>Flour:</b>					
Potato .....	lb.	281,990	23,423	43,829	4,355
Soya bean .....	"	332,758	20,386	503,124	34,469
Tapioca.....	"	830,846	79,382	583,074	67,325
Wheat .....	"	5,496,204	234,017	4,247,680	188,677
Other .....	"	824,766	65,060	707,367	45,013
Formaldehyde.....	"	9,080,773	411,842	9,672,684	372,305
Glucose.....	"	545,462	46,686	475,663	38,914
<b>Glue:</b>					
Bone and hide .....	lb.	698,355	214,271	686,887	194,389
Fish .....	"	1,004,430	104,667	1,597,886	230,296
Glycerine .....	"	109,032	60,460	83,514	32,147
<b>Gums and resins, natural:</b>					
Arabic .....	lb.	192,607	29,775	150,254	25,178
Other .....	"	494,620	63,952	117,836	14,458
Lignin liquor .....	Imp. gal.	345,106	34,043	343,085	52,261
Lime .....	tons	724	10,352	680	10,389
Phenol .....	lb	2,021,033	378,263	2,376,652	467,676
Resins, synthetic .....	"	969,351	278,062	1,361,829	433,109
Rubber or latex .....	"	427,699	172,736	471,104	150,436
Sodium carbonate (soda ash) .....	"	1	1	155,710	4,838
Sodium fluoride .....	"	36,639	4,849	53,299	7,291
Sodium hydroxide (caustic soda).....	"	1,064,525	26,147	1,035,694	25,200
Solvents (benzol, naphtha, etc.).....	Imp. gal.	226,417	73,945	169,029	106,685
Starch, corn .....	lb.	876,186	68,993	724,986	61,148
Sulphur .....	"	151,910	2,266	144,800	2,411
Tallow and fat .....	"	5,559,342	176,874	3,414,097	81,978
Urea, crystal .....	"	2,457,701	160,244	2,362,505	151,749
Whiting .....	"	35,503	2,138	63,587	2,545
Zinc sulphate.....	"	251,604	22,531	145,974	12,050
Containers and packing materials.....	-	-	461,143	-	411,394
All other materials .....	-	-	502,196	-	780,045
<b>Total .....</b>	<b>-</b>	<b>-</b>	<b>6,280,084</b>	<b>-</b>	<b>6,106,121</b>

1. Not classified separately in 1951.

TABLE 5. Total Production of Adhesives, From All Industries, 1951 and 1952

Item	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Cement:				
Linoleum..... lb.	11,971,000	606,000	12,679,000	706,000
Rubber..... gal.	393,000	893,000	648,000	1,488,000
Other..... —	—	161,000	—	196,000
Glue:				
Bone and hide..... lb.	8,542,000	2,665,000	5,140,000	1,666,000
Casein..... lb.	871,000	290,000	861,000	260,000
Flexible..... lb.	1,949,000	505,000	2,084,000	509,000
Fish..... lb.	1,482,000	400,000	1,671,000	456,000
Synthetic resin..... lb.	14,802,000	1,931,000	17,300,000	2,150,000
Vegetable:				
Dry..... lb.	2,455,000	284,000	2,231,000	261,000
Liquid..... lb.	16,157,000	1,685,000	17,725,000	1,790,000
Other..... —	—	175,000	—	295,000
Mucilage and paste..... —	—	753,000	—	746,000
Adhesives, other..... —	—	576,000	—	760,000
<b>Total..... —</b>	<b>—</b>	<b>10,924,000</b>	<b>—</b>	<b>11,283,000</b>

TABLE 6. Imports of Adhesives, 1951 and 1952

Item	1951		1952	
	Pounds	\$	Pounds	\$
Glue:				
Animal.....	3,023,227	407,504	1,500,594	216,586
Synthetic resin.....	912,048	255,797	892,529	277,025
Vegetable.....	93,804	9,496	62,315	5,525
Other.....	207,699	67,009	163,762	52,796
Mucilage and adhesive paste.....	301,109	65,316	301,764	74,151
Rubber cement.....	—	857,575	—	872,519

TABLE 7. Employees and Their Earnings in the Adhesives Industry, 1951 and 1952

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
					\$	\$	\$	
<b>1951</b>								
Quebec.....	43	25	107	2	177	172,582	290,118	462,700
Ontario.....	80	47	325	40	492	471,128	914,546	1,385,674
Manitoba and British Columbia..	16	7	22	—	45	57,204	66,328	123,532
<b>Canada.....</b>	<b>139</b>	<b>79</b>	<b>454</b>	<b>42</b>	<b>714</b>	<b>700,914</b>	<b>1,270,992</b>	<b>1,971,906</b>
<b>1952</b>								
Quebec.....	46	23	76	2	147	188,340	210,133	398,473
Ontario.....	87	50	339	38	514	516,957	1,087,100	1,604,057
Manitoba and British Columbia..	17	9	19	—	45	59,330	67,037	126,367
<b>Canada.....</b>	<b>150</b>	<b>82</b>	<b>434</b>	<b>40</b>	<b>706</b>	<b>764,627</b>	<b>1,364,270</b>	<b>2,128,897</b>

TABLE 8. Capital Investment in the Adhesives Industry, 1949-1952

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital investment
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	\$'000						
1949 .....	256	521	777	46	267	313	1,090
1950 .....	131	550	681	42	225	267	948
1951 .....	54	348	402	47	314	361	763
1952 <sup>1</sup> .....	242	200	442	56	311	367	809

1. Preliminary.

List of Firms in the Adhesives Industry, 1952

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
Dural Products Ltd. ....	41 Dollard Ave., Dorval
Industrial Adhesives Ltd. ....	121 Bois Franc Rd., Ville St. Laurent
Monsanto (Canada) Limited .....	425 St. Patrick St., Ville LaSalle
National Adhesives (Canada) Limited .....	2125 Remembrance Road, Lachine
Swift Canadian Co. Ltd. ....	215 Maguire St., Montreal
Wolverine Products & Sales Limited .....	1501 Bercy St., Montreal
<b>Ontario:</b>	
Canada Glue Co. Limited .....	Mohawk Road, Brantford
Cann Llew Sales .....	Streetsville
Continental Chemical Company .....	859 Eastern Ave., Toronto
Delany & Petit Limited .....	133 Jefferson Ave., Toronto
Dominion Starch Products, Limited .....	119 Water St., Brockville
Harris, W., & Co. Limited .....	200 Keating St., Toronto
Industrial Adhesives Ltd. ....	1255 College St., Toronto
Le Page's Inc. ....	404 Kipling Ave., Toronto
Machon Sealing Wax Company, The .....	678 Parliament St., 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 Limited .....	200 Grand River Ave., Brantford
<b>Manitoba:</b>	
Swift Canadian Co. Ltd. ....	Archibald St., St. Boniface
<b>British Columbia:</b>	
Hasco Products Limited .....	11th Avenue, New Westminster
McKenzie Linoleum Cement Co. Ltd. ....	505 East Georgia St., Vancouver
Monsanto (Canada) Limited .....	Granville Island, Vancouver
Swift Canadian Co. Ltd. ....	Brunette St., New Westminster

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