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THE ADHESIVES INDUSTRY

1955

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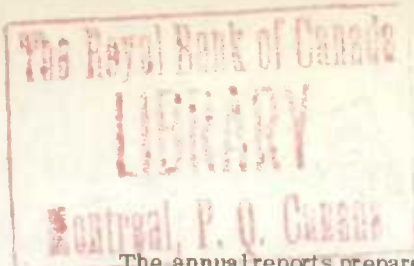
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NOTICE

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 or provinces 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 of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 50¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 40¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III - Foods and Beverages
- IV - Tobacco and Tobacco Products
- V - Rubber Products
- VI - Leather Products
- VII - Textile Mills
- VIII - Knitting Mills
- IX - Clothing
- X - Wood and Paper Products
- XI - Printing Trades
- 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
- XIX - Miscellaneous Manufactures

The present report belongs in Part XVIII, 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¢

(March 29, 1957)

THE ADHESIVES INDUSTRY

1955

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 1955 there were 29 establishments in this group, 15 being located in Ontario, 10 in Quebec, 3 in British Columbia and 1 in Manitoba.

Factory shipments by firms in the Adhesives Industry were valued at \$10,908,938 in 1955, a decrease of 14.6 per cent from the \$12,772,801 reported in 1954. The number of employees declined from 621 to 576, with a corresponding decline in salaries and wages from \$1,987,142 in 1954 to \$1,934,597 in 1955. The cost of fuel and electricity at \$369,578 was up slightly over the \$367,922 reported in 1954 and the value of the materials used directly in manufacturing processes was 19.0 per cent lower at \$5,030,858.

Output of adhesives during 1955, including small amounts from other industries, was as follows: linoleum cement, 15,402,000 pounds at \$1,208,000; rubber cement, 1,061,000 gallons at \$2,185,000; bone

and hide glue, 8,848,000 pounds at \$2,174,000; casein glue, 792,000 pounds at \$230,000; flexible glue, 2,383,000 pounds at \$584,000; synthetic resin glue, 31,493,000 pounds at \$4,083,000; vegetable glues, 21,962,000 pounds at \$2,589,000; mucilage and paste valued at \$651,000; fish glue valued at \$316,000 and miscellaneous adhesives at \$972,000. The total value of all adhesives, including mucilage and paste, was \$14,992,000 in 1955 compared with \$13,409,000 in 1954 and \$12,317,000 in 1953.

Note: Figures for value added by manufacture, shown in Table 1, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 and 1955 information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures for 1954 and 1955.

TABLE 1. Principal Statistics of the Adhesives Industry, Significant Years 1929-1955, and by Provinces, 1954 and 1955

Year and province	Estab- lish- ments	Em- ployees	Salaries and Wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
1929.....	13	267	321,296	68,157	962,940	799,547	1,830,644
1932.....	14	229	263,142	53,300	457,146	576,769	1,087,215
1937.....	18	416	483,819	116,842	901,194	886,101	1,904,137
1939.....	19	427	520,662	89,573	905,411	1,115,822	2,110,806
1943.....	22	651	1,091,721	211,889	3,037,649	2,486,613	5,736,151
1946.....	22	674	1,223,032	222,384	3,749,579	2,812,350	6,784,313
1949.....	25	749	1,727,848	339,839	4,218,359	3,266,366	7,824,564
1951.....	29	714	1,971,906	369,465	6,280,084	4,787,488	11,437,037
1952.....	30	706	2,128,897	367,382	6,106,121	4,365,376	10,838,879
1953.....	29	707	2,144,997	403,118	6,490,797	5,188,200	12,082,115
1954							
Quebec	10	145	401,276	47,073	1,931,678	1,945,151	3,959,136
Ontario	14	418	1,402,634	309,785	3,306,955	3,322,982	7,090,433
British Columbia	3	58	183,232	11,064	974,889	678,043	1,723,232
Manitoba	1						
Canada	28	621	1,987,142	367,922	6,213,522	5,946,176	12,772,801
1955							
Quebec	10	134	369,186	50,734	1,480,297	1,130,913	2,760,042
Ontario	15	429	1,526,122	315,751	3,396,668	3,934,864	7,704,657
British Columbia	1	13	39,289	3,093	753,893	302,486	444,239
Manitoba	3						
Canada	29	576	1,934,597	369,578	5,030,858	5,368,263	10,908,938

Note. Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

1. See footnote to Text.

TABLE 2. Inventories¹, 1955

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	230,696	6,648	108,961	346,305
Ontario	611,603	154,806	1,039,007	1,805,416
Other provinces	35,091	—	17,094	52,185
Canada	877,390	161,454	1,165,062	2,203,906
Closing:				
Quebec	215,331	8,863	110,863	335,057
Ontario	611,118	75,738	981,633	1,668,489
Other provinces	39,916	—	32,327	72,243
Canada	866,365	84,601	1,124,823	2,075,789

1. (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Adhesives Industry for the year under review are shown in the above table.

(c) The opening inventory for 1955 does not necessarily agree with the closing inventory for 1954, because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Products Made in the Adhesives Industry, 1954 and 1955

Product	1954		1955	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	lb.	\$	lb.	\$
Cement:				
Linoleum	8,225,970	501,168	9,211,380	559,993
Other (rubber, etc.)	—	381,354	571,600	488,391
Glue:				
Bone and hide	6,954,985	1,857,627	8,847,746	2,173,614
Casein	803,064	218,397	392,976	112,763
Flexible	2,104,512	535,397	2,383,193	583,759
Synthetic resin	27,696,664	3,597,792	7,525,815	1,672,376
Vegetable:				
Dry	2,234,343	258,665	2,433,260	306,184
Liquid	17,522,598	1,928,818	18,638,962	2,147,512
Other	—	425,353	—	419,268
Mucilage and paste	6,151,586	731,675	4,678,728	532,078
All other products ¹	—	2,336,555	—	1,913,000
Total	—	12,772,801	—	10,908,938

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, 1954 and 1955

Material	1954		1955	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Acid, hydrochloric (muriatic)	lb. 34,445	2,102	12,350	548
Acid, sulphuric (as 100%)	lb. 919,511	13,523	329,260	4,679
Alcohol, ethyl, denatured or not (including tax)	Imp. gal. 21,122	21,023	21,962	21,469
Alcohol, isopropyl	lb. 90,203	7,185	111,001	9,035
Alcohol, methyl	Imp. gal. 13,755	11,627	20,409	17,671
Bones	tons 14,001	439,214	12,273	360,665
Borax	lb. 801,403	32,588	827,395	34,898
Hides and hide trimmings	tons 17,599	285,771	14,857	240,056
Casein	lb. 591,678	123,012	290,356	63,855
China-clay	lb. 4,321,097	50,772	4,597,209	54,687
Dextrine	lb. 8,741,044	888,949	9,070,195	820,661
Flour:				
Potato	lb. 403,589	27,525	306,661	22,740
Soyabean	" 274,559	19,297	170	13
Tapioca	" 606,833	76,912	629,970	61,202
Wheat	" 4,496,988	176,424	4,667,412	184,289
Other	" 249,692	17,213	87,870	8,375
Formaldehyde	" 14,061,413	499,010	92,390	10,149
Glucose	" 612,367	47,541	667,948	49,134
Glue:				
Bone and hide	" 895,663	253,102	886,225	235,512
Fish	" 1,214,761	178,602	964,170	179,808
Glycerine	" 103,567	37,947	91,024	31,290
Gums and resins, natural:				
Arabic	lb. 139,590	23,141	160,932	33,955
Other	" 121,659	15,670	147,032	27,292
Lignin liquor	Imp. gal. 409,851	44,197	454,903	54,734
Lime	tons 451	7,087	208	3,653
Phenol	lb. 4,407,094	688,703	12,006	2,396
Resins, synthetic	" 1,795,120	403,511	2,243,041	475,562
Rubber or latex	" 503,827	129,980	563,946	186,466
Sodium carbonate (soda ash)	" 72,098	2,462	61,034	1,915
Sodium fluoride	" 41,693	5,300	27,529	3,657
Sodium hydroxide (caustic soda)	" 1,725,732	35,220	164,828	8,771
Solvents (benzol, naphtha, etc.)	Imp. gal. 173,664	81,326	169,562	103,810
Starch, corn	lb. 1,495,977	110,033	1,426,454	116,367
Sulphur	" 145,564	2,887	58,505	747
Tallow and fat	" 82,122	7,936	86,807	9,775
Urea, crystal	" 2,866,455	180,994	391,143	35,552
Whiting	" 115,600	2,660	324,440	8,304
Zinc sulphate	" 128,864	7,021	81,117	4,285
Containers and packing materials	-	489,834	-	684,571
All other materials	-	766,221	-	858,310
Total	-	6,213,522	-	5,030,858

TABLE 5. Factory Shipments of Adhesives, From All Industries, 1954 and 1955

Item	1954		1955	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Cement:				
Linoleum lb.	14,847,000	1,197,000	15,402,000	1,208,000
Rubber gal.	703,000	1,604,000	1,061,000	2,185,000
Other	-	147,000	-	130,000
Glue:				
Bone and hide lb.	6,955,000	1,858,000	8,848,000	2,174,000
Casein lb.	803,000	218,000	792,000	230,000
Flexible lb.	2,105,000	535,000	2,383,000	584,000
Fish	-	335,000	-	316,000
Synthetic resin lb.	28,913,000	3,797,000	31,493,000	4,083,000
Vegetable:				
Dry lb.	2,234,000	259,000	2,881,000	382,000
Liquid lb.	17,523,000	1,929,000	19,081,000	2,207,000
Other	-	128,000	-	123,000
Mucilage and paste	-	848,000	-	651,000
Adhesives, other	-	554,000	-	719,000
Total	-	13,409,000	-	14,992,000

TABLE 6. Principal Statistics of the Adhesives Industry, Classified According to Type of Ownership, 1954 and 1955

Type	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1954					
Individual ownership	2	12	28,427	48,719	125,866
Partnerships	2				
Incorporated companies	24	609	1,958,715	6,164,803	12,646,935
Total	28	621	1,987,142	6,213,522	12,772,801
1955					
Individual ownership	2	13	29,515	66,729	139,373
Partnerships	3				
Incorporated companies	24	563	1,905,082	4,964,129	10,769,565
Total	29	576	1,934,597	5,030,858	10,908,938

TABLE 7. Principal Statistics of the Adhesives Industry in Canada, Grouped According to Size of Establishment, 1954 and 1955

Establishments reporting value of factory shipments	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1954					
Under \$25,000	4	14	28,438	30,295	81,380
\$25,000 to \$49,999	1				
\$50,000 to \$99,999	3	9	24,147	110,793	208,303
\$100,000 to \$199,999	3	13	41,330	218,068	418,185
\$200,000 to \$499,999	6	63	187,075	845,004	1,473,012
\$500,000 to \$999,999	6	252	862,796	1,940,820	4,082,006
\$1,000,000 to \$4,999,999	5	270	843,356	3,068,542	6,509,915
Total	28	621	1,987,142	6,213,522	12,772,801
1955					
Under \$10,000	3	4	5,000	4,045	9,857
\$10,000 to \$24,999	2	10	24,500	31,645	79,022
\$25,000 to \$49,999	1				
\$50,000 to \$99,999	3	10	25,198	90,616	209,426
\$100,000 to \$199,999	5	28	86,303	402,854	540,785
\$200,000 to \$499,999	6	67	198,485	877,364	1,918,478
\$500,000 to \$999,999	6	248	927,964	2,080,164	4,307,236
\$1,000,000 to \$4,999,999	3	209	667,147	1,544,170	3,844,134
Total	29	576	1,934,597	5,030,858	10,908,938

TABLE 8. Capital and Repair Expenditures in the Adhesives Industry, 1950-1955

Year	Total capital and repair expenditures	Year	Total capital and repair expenditures
	\$'000		\$'000
1950	948	1953	578
1951	763	1954	598
1952	789	1955 ¹	401

1. Preliminary.

TABLE 9. Employees and Their Earnings in the Adhesives Industry, 1954 and 1955

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1954								
Quebec.....	38	29	75	3	145	194,337	206,939	401,276
Ontario.....	80	51	260	27	418	546,500	856,134	1,402,634
Manitoba and British Columbia	27	9	22	—	58	108,244	74,988	183,232
Canada.....	145	89	357	30	621	849,081	1,138,061	1,987,142
1955								
Quebec.....	34	30	68	2	134	189,407	179,779	369,186
Ontario.....	101	50	253	25	429	655,420	870,702	1,526,122
Manitoba and British Columbia	4	2	7	—	13	19,131	20,158	39,289
Canada.....	139	82	328	27	576	863,958	1,070,639	1,934,597

TABLE 10. Production Workers in the Adhesives Industry, by Months, 1954 and 1955

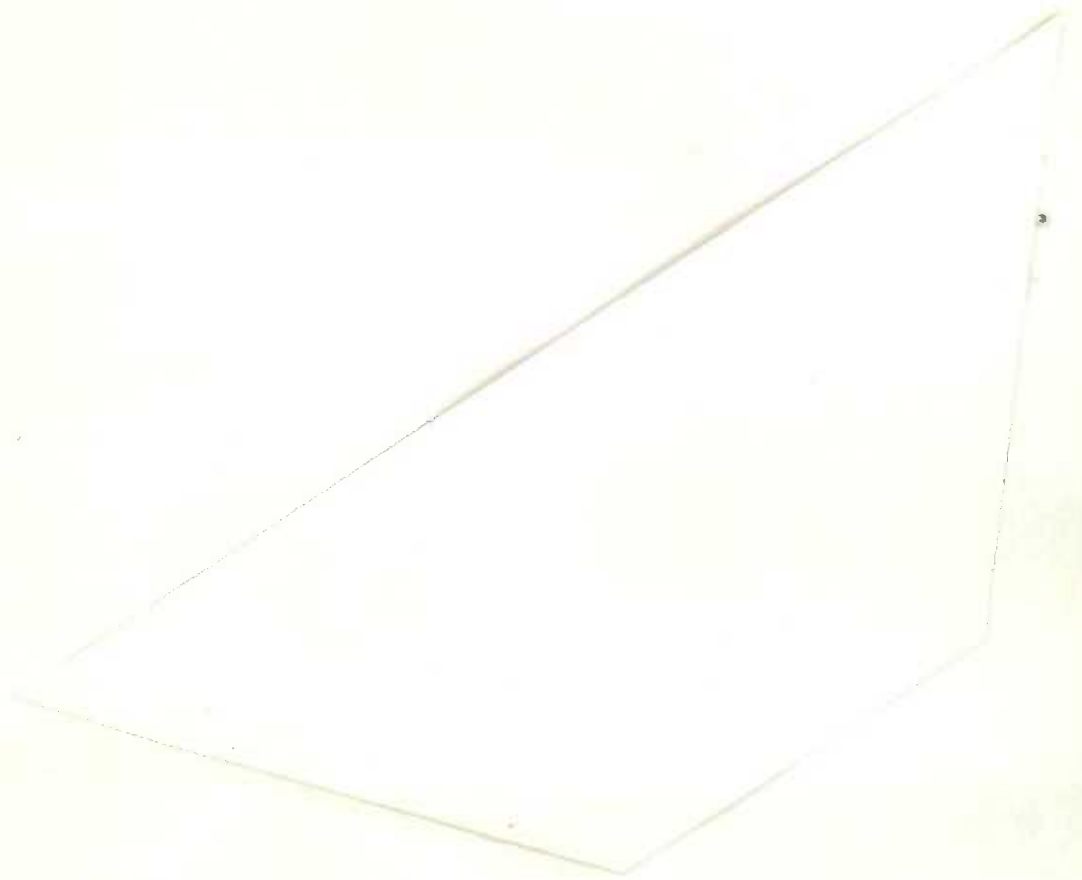
Month	1954			1955		
	Male	Female	Total	Male	Female	Total
	Number					
January	380	31	411	309	25	334
February	375	28	403	313	25	338
March	362	32	394	318	32	350
April.....	368	37	405	322	31	353
May.....	360	35	395	327	31	358
June.....	363	30	393	331	28	359
July.....	356	28	384	334	25	359
August.....	349	26	375	334	27	361
September.....	344	26	370	337	24	361
October.....	341	32	373	335	30	365
November.....	345	28	373	341	24	365
December.....	341	29	370	341	24	365
Average.....	357	30	387	328	27	355

TABLE 11. Imports of Adhesives, 1954 and 1955

Item	1954		1955	
	Pounds	\$	Pounds	\$
Glue:				
Animal.....	1,597,176	256,859	2,162,609	352,967
Synthetic resin.....	1,555,118	482,509	1,487,315	483,326
Vegetable.....	21,454	4,227	30,488	4,267
Other.....	135,846	43,353	103,120	43,453
Mucilage and adhesive paste.....	281,728	68,580	324,277	74,386
Rubber cement.....	—	1,058,261	—	1,308,914

List of Firms in the Adhesives Industry, 1955

Name	Address
Quebec:	
Arol Chemical Co. Ltd.	2115 Old Orchard, Montreal
B.B. Chemical Co. of Canada	2610 Bennett Ave., Montreal
Canadian Adhesives Ltd.	420 Marier Ave., Montreal
Dominion Flour Paste Co., The	2135 Maisonneuve, Montreal
Dural Products Ltd.	41 Dollard Ave., Dorval
General Adhesives	St. Janvier
Industrial Adhesives Ltd.	121 Bois Franc Rd., Ville St. Laurent
National Adhesives (Canada) Limited	2125 Remembrance Road, Lachine
Swift Canadian Co. Ltd.	215 Maguire St., Montreal
Wolverine Products & Sales Limited	1501 Bercy St., Montreal
Ontario:	
Canada Glue Co. Limited	Mohawk Road, Brantford
Continental Chemical Company	859 Eastern Ave., Toronto
Deplex Adhesives Ltd.	133 Jefferson Ave., Toronto
Dominion Starch Products, Limited	119 Water St., Brockville
Harris, W., & Co. Limited	200 Keating St., Toronto
Industrial Adhesives Ltd.	90 Tycos Drive, Toronto
Le Page's Inc.	404 Kipling Ave., Toronto
Llew-Cann Sales	Streetsville.
Machon Sealing Wax Company, The	678 Parliament St., Toronto
McCormick & Co. (Canada) Limited	18 Holly St. W., Toronto
National Adhesives (Canada) Limited	363-379 Wallace Ave., Toronto
Perkins Glue Company of Canada, Limited	629 Queen St. S., Kitchener
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
Manitoba:	
Swift Canadian Co. Ltd.	Archibald St., St. Boniface
British Columbia:	
McKenzie Linoleum Cement Co. Ltd.	505 East Georgia St., Vancouver
Swift Canadian Co. Ltd.	Brunette St., New Westminster
Universal Enterprises Ltd.	236 Esplande E., N. Vancouver



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