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CANADA



THE ADHESIVES INDUSTRY

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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, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - 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
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- 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



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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¢

(27 Apr 56)

THE ADHESIVES INDUSTRY

1954

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 1954 there were 28 establishments in this group, 14 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 \$12,772,801 in 1954, an increase of 5.7 per cent over the 1953 total of \$12,082,115. The number of employees declined from 707 to 621 with a corresponding decline in salaries and wages from \$2,144,997 in 1953 to \$1,987,142 in 1954. The cost of fuel and electricity at \$367,922 was lower by 8.7 per cent than in 1953 and the value of materials used directly in manu-

facturing processes was 4.3 per cent lower at \$6,213,522.

Output of adhesives during 1954, including small amounts from other industries, was as follows: linoleum cement, 14,847,000 pounds at \$1,197,000; rubber cement, 703,000 gallons at \$1,604,000; bone and hide glue, 6,955,000 pounds at \$1,858,000; casein glue, 803,000 pounds at \$218,000; flexible glue, 2,105,000 pounds at \$535,000; synthetic resin glue, 28,913,000 pounds at \$3,797,000; vegetable glues, 19,757,000 pounds at \$2,188,000; mucilage and paste valued at \$848,000; fish glue valued at \$335,000 and miscellaneous adhesives at \$829,000. The total value of all adhesives, including mucilage and paste, was \$13,409,000 in 1954, compared with \$12,317,000 in 1953 and \$11,283,000 in 1952.

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, 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 figure for 1954.

TABLE 1. Principal Statistics of the Adhesives Industry, Significant Years 1929-1954, and by Provinces, 1953 and 1954

Year and province	Estab-lish-ments	Em-ployees	Earnings	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
1950.....	28	669	1,723,015	364,849	5,086,086	4,228,461	9,679,396
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							
Quebec.....	10	137	373,871	47,427	1,943,856	1,174,980	3,166,263
Ontario.....	15	493	1,593,731	345,875	3,660,551	3,443,193	7,449,619
British Columbia.....	3	77	177,395	9,816	886,390	570,027	1,466,233
Manitoba.....	1						
Canada.....	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

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.

CHEMICALS AND ALLIED PRODUCTS

TABLE 2. Inventories¹, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	299,239	6,969	197,775	493,983
Ontario	728,847	40,304	1,189,718	1,958,869
Other provinces	193,047	3,528	161,431	358,006
Canada.....	1,211,133	50,801	1,548,924	2,810,858
Closing:				
Quebec.....	332,418	6,648	162,541	501,607
Ontario.....	611,603	154,806	1,039,007	1,805,416
Other provinces	169,045	1,766	102,195	273,006
Canada.....	1,113,066	163,220	1,303,743	2,580,029

1. (a) Book value of all manufacturing inventories 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.

TABLE 3. Products Made in the Adhesives Industry, 1953 and 1954

Product	1953		1954	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	lb.	\$	lb.	\$
Cement:				
Linoleum.....	6,926,710	447,577	8,225,970	501,168
Other (rubber, etc.)	—	386,309	—	381,354
Glue:				
Bone and hide.....	6,918,316	2,085,001	6,954,985	1,857,627
Casein.....	865,578	260,141	803,064	218,397
Flexible.....	2,378,926	574,437	2,104,512	535,397
Synthetic resin.....	21,396,542	2,653,157	27,696,664	3,597,792
Vegetable:				
Dry.....	2,026,523	225,175	2,234,343	258,665
Liquid	17,770,291	1,848,967	17,522,598	1,928,818
Other	—	622,035	—	425,353
Mucilage and paste	5,697,026	675,459	6,151,586	731,675
All other products ¹	—	2,303,857	—	2,336,555
Total	—	12,082,115	—	12,772,801

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, 1953 and 1954

Material	1953		1954	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Acid, hydrochloric (muriatic)..... lb.	21,629	1,895	34,445	2,102
Acid, sulphuric (as 100%)..... lb.	663,490	10,342	919,511	13,523
Alcohol, ethyl, denatured or not (including tax)..... Imp. gal.	34,541	37,481	21,122	21,023
Alcohol, isopropyl..... lb.	1	—	90,203	7,185
Alcohol, methyl..... Imp. gal.	2,627	2,697	13,755	11,627
Bones..... tons	16,703	759,732	14,001	439,214
Borax..... lb.	761,659	29,695	801,403	32,588
Hides and hide trimmings..... tons	19,391	377,460	17,599	285,771
Casein..... lb.	694,505	137,843	591,678	123,012
China-clay..... lb.	1,553,603	17,648	4,321,097	50,772
Dextrine..... lb.	7,134,126	715,952	8,741,044	888,949
Flour:				
Potato..... lb.	270,962	22,929	403,589	27,525
Soyabean..... "	449,422	32,465	274,559	19,297
Tapioca..... "	869,928	103,059	606,833	78,912
Wheat..... "	3,977,202	177,065	4,496,988	176,424
Other..... "	711,497	43,028	249,692	17,213
Formaldehyde..... "	11,813,285	452,838	14,081,413	499,010
Glucose..... "	569,229	43,074	612,387	47,541
Glue:				
Bone and hide..... "	948,481	285,802	895,863	253,102
Fish..... "	1,272,250	162,224	1,214,761	178,602
Glycerine..... "	91,688	37,307	103,567	37,947
Gums and resins, natural:				
Arabic..... lb.	205,722	28,764	139,590	23,141
Other..... "	102,445	11,021	121,859	15,670
Lignin liquor..... Imp. gal.	328,494	37,275	409,851	44,197
Lime..... tons	602	9,733	451	7,087
Phenol..... lb.	2,852,766	534,577	4,407,094	688,703
Resins, synthetic..... "	1,431,146	343,723	1,795,120	403,511
Rubber or latex..... "	569,756	167,717	503,827	129,980
Sodium carbonate (soda ash)..... "	49,954	1,689	72,098	2,482
Sodium fluoride..... "	37,610	4,747	41,893	5,300
Sodium hydroxide (caustic soda)..... "	1,265,670	29,390	1,725,732	35,220
Solvents (benzol, naphtha, etc.)..... Imp. gal.	226,141	187,905	173,664	81,326
Starch, corn..... lb.	993,648	74,695	1,495,977	110,033
Sulphur..... "	170,200	3,067	145,564	2,887
Tallow and fat..... "	75,385	10,256	82,122	7,936
Urea, crystal..... "	2,741,980	165,394	2,866,455	180,994
Whiting..... "	88,162	2,062	115,600	2,660
Zinc sulphate..... "	146,785	11,275	128,884	7,021
Containers and packing materials..... —	—	615,368	—	489,834
All other materials..... —	—	801,603	—	788,221
Total..... —	—	6,490,797	—	6,213,522

1. Not available separately.

TABLE 5. Factory Shipments of Adhesives, From All Industries, 1953 and 1954

Item	1953		1954	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Cement:				
Linoleum	lb. —	710,000	14,847,000	1,197,000
Rubber	gal. 699,000	1,523,000	703,000	1,604,000
Other	—	123,000	—	147,000
Glue:				
Bone and hide	lb. 6,918,000	2,085,000	6,955,000	1,858,000
Casein	lb. 866,000	260,000	803,000	218,000
Flexible	lb. 2,379,000	574,000	2,105,000	535,000
Fish	lb. 1,447,000	412,000	—	335,000
Synthetic resin	lb. 22,629,000	2,858,000	28,913,000	3,797,000
Vegetable:				
Dry	lb. 2,027,000	225,000	2,234,000	259,000
Liquid	lb. 17,770,000	1,849,000	17,523,000	1,929,000
Other	—	246,000	—	128,000
Mucilage and paste	—	790,000	—	848,000
Adhesives, other	—	662,000	—	554,000
Total	—	12,317,000	—	13,409,000

TABLE 6. Principal Statistics of the Adhesives Industry, Classified According to Type of Ownership, 1953 and 1954

Type	Estab-lish-ments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1953					
Individual ownership	2	14	25,693	35,514	95,253
Partnerships	3				
Incorporated companies	24	693	2,119,304	6,455,283	11,986,862
Total	29	707	2,144,997	6,490,797	12,082,115
1954					
Individual ownership	2	12	28,427	48,719	125,365
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

TABLE 7. Principal Statistics of the Adhesives Industry in Canada, Grouped According to Size of Establishment, 1953 and 1954

Establishments reporting value of factory shipments	Estab-lish-ments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1953					
Under \$25,000	5	9	11,993	18,179	42,075
\$25,000 to \$49,999	2	24	58,412	239,395	406,029
\$50,000 to \$99,999	4				
\$100,000 to \$199,999	2	84	262,741	1,071,791	2,169,973
\$200,000 to \$499,999	6				
\$500,000 to \$999,999	6	330	1,023,504	2,656,192	4,589,232
\$1,000,000 to \$4,999,999	4	260	788,347	2,505,240	4,874,806
Total	29	707	2,144,997	6,490,797	12,082,115
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

TABLE 8. Capital and Repair Expenditures in the Adhesives Industry, 1949-1954

Year	Total capital and repair expenditures	Year	Total capital and repair expenditures
	\$'000		\$'000
1949	1,090	1952	789
1950	948	1953	578
1951	763	1954 ¹	619

1. Preliminary.

TABLE 9. Employees and Their Earnings in the Adhesives Industry, 1953 and 1954

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1953								
Quebec	38	21	75	3	137	164,465	209,406	373,871
Ontario	89	49	321	34	493	561,357	1,032,374	1,593,731
Manitoba and British Columbia	45	8	23	1	77	101,456	75,939	177,395
Canada	172	78	419	38	707	827,278	1,317,719	2,144,997
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

TABLE 10. Production Workers in the Adhesives Industry, by Months, 1953 and 1954

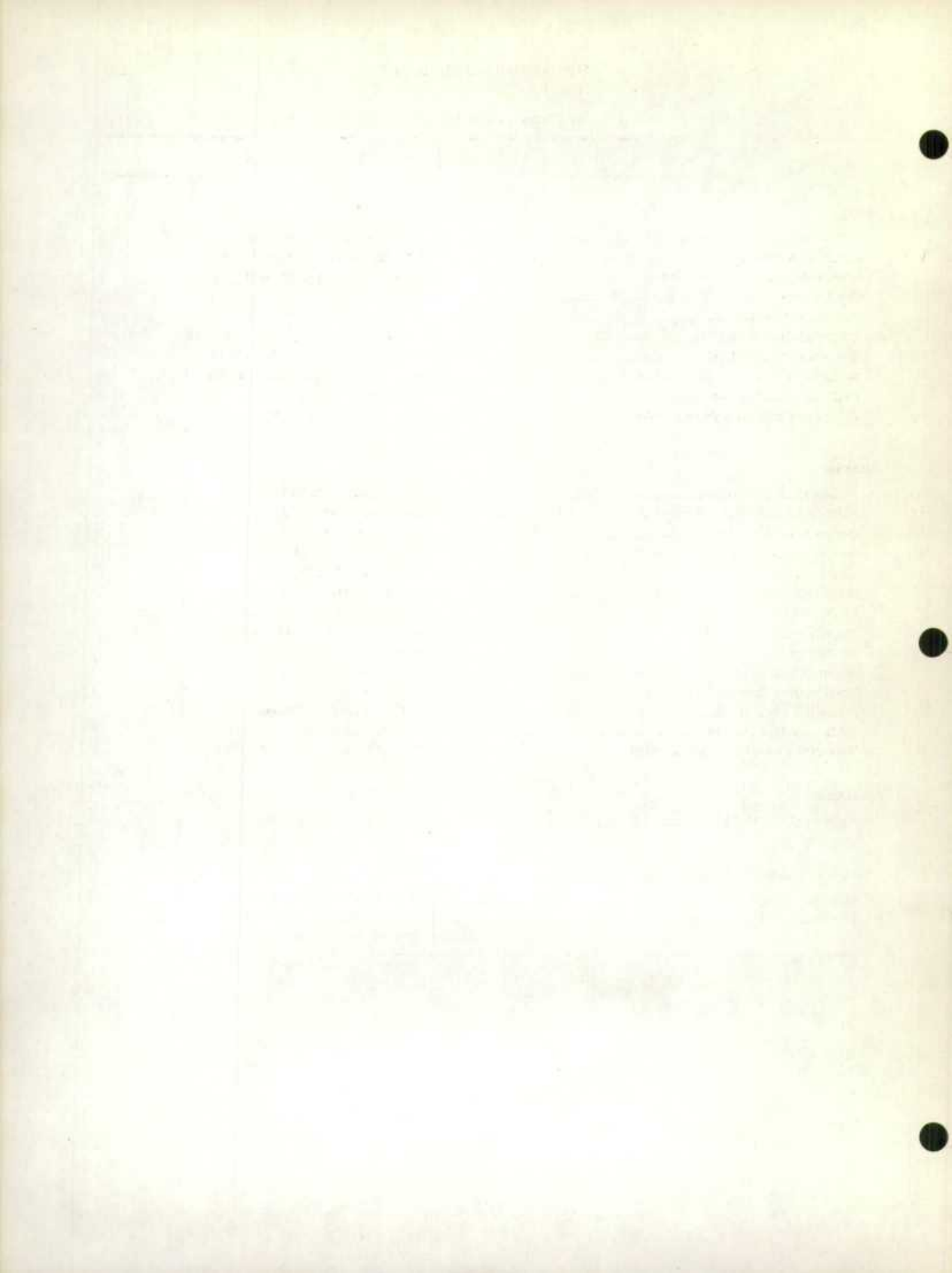
Month	1953			1954		
	Male	Female	Total	Male	Female	Total
January	394	31	425	380	31	411
February	397	31	428	375	28	403
March	407	43	450	362	32	394
April	413	46	459	368	37	405
May	415	41	456	360	35	395
June	414	35	449	363	30	393
July	414	36	450	356	28	384
August	430	35	465	349	26	375
September	426	35	461	344	26	370
October	426	40	466	341	32	373
November	448	41	489	345	28	373
December	434	38	472	341	29	370
Average	419	38	457	357	30	387

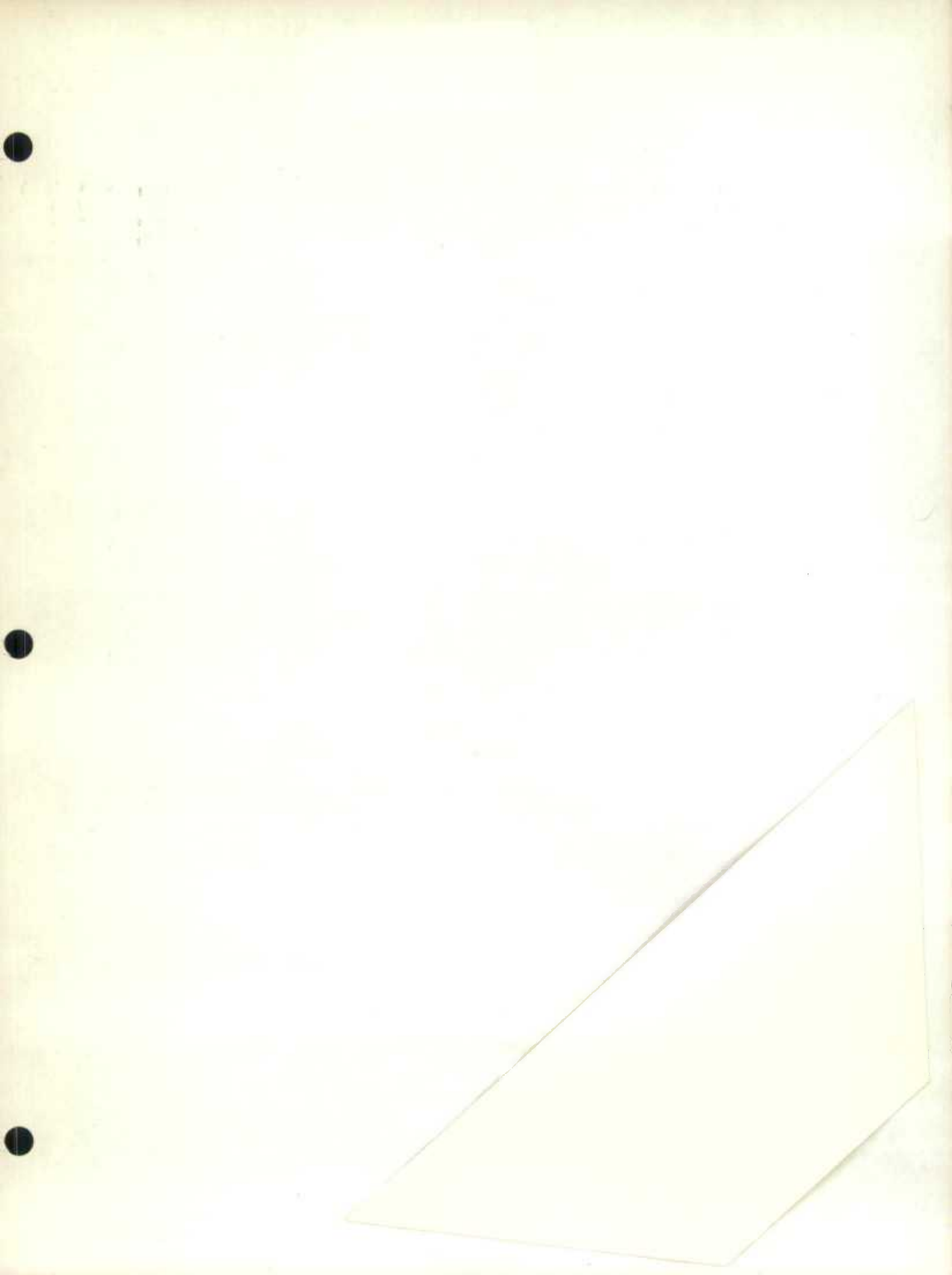
TABLE 11. Imports of Adhesives, 1953 and 1954

Item	1953		1954	
	Pounds	\$	Pounds	\$
Glue:				
Animal	1,480,838	234,363	1,597,176	256,859
Synthetic resin	1,375,735	433,930	1,555,118	482,509
Vegetable	11,985	2,402	21,454	4,227
Other	226,367	69,308	135,846	43,353
Mucilage and adhesive paste	552,895	126,316	281,728	68,580
Rubber cement	—	1,138,683	—	1,058,261

List of Firms in the Adhesives Industry, 1954

Name	Address
Quebec:	
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
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
Ontario:	
Canada Glue Co. Limited	Mohawk Road, Brantford
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.	90 Tycos Drive, 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
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
Monsanto (Canada) Limited	Granville Island, Vancouver
Swift Canadian Co. Ltd.	Brunette St., New Westminster





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