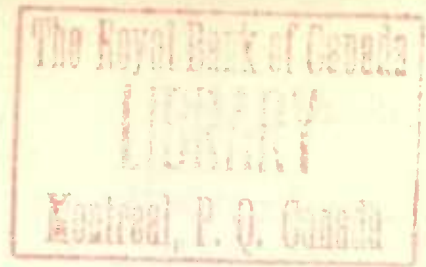


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Annual Industry Report

Chemicals and Allied Products Group

THE ADHESIVES INDUSTRY, 1948



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 1948 there were 25 establishments in this group, 17 being located in Ontario, 6 in Quebec and 2 in British Columbia.

Production increased 16.8 per cent in 1948 to \$8,660,211, the number of employees increased 5.8 per cent to 771, and salaries and wages increased 18.0 per cent to \$1,829,603. The cost of fuel and electricity at \$356,191 was greater by 29.6 per cent than in 1947, and the value of materials used direct in manufacturing processes was 9.3 per cent higher at \$4,701,297.

Output of adhesives during 1948, including small amounts from other industries, was as follows: linoleum cement, 3,314,280 pounds at \$194,918; rubber cement, 253,010 gallons at \$350,834; bone and hide glue, 9,618,597 pounds at \$2,597,995; casein glue, 557,026 pounds at \$166,771; flexible glue, 1,868,851 pounds at \$371,680; fish glue valued at \$488,091; synthetic resin glue, 5,326,529 pounds at \$581,753; vegetable glues, 19,956,124 pounds at \$1,755,925; mucilage and paste valued at \$601,824 and miscellaneous adhesives at \$665,351. The total value of all adhesives, including mucilage and paste, was \$7,775,142 in 1948 compared with \$6,994,878 in 1947 and \$5,798,264 in 1946.

Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1944-1948

| 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 |
|----------------------------------|------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
| | | | \$ | \$ | \$ | \$ |
| 1944 | 24 | 631 | 1,123,129 | 232,435 | 3,139,664 | 5,626,892 |
| 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 |
| Per cent change 1948 from 1947.. | .. | +5.8 | +18.0 | +29.6 | +9.3 | +16.8 |

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.

THIS REPORT WAS PREPARED IN THE MINING, METALLURGICAL AND CHEMICAL SECTION.

(13 Feb 50)

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1947 and 1948

| 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 |
|---------------------|------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
| | | | \$ | \$ | \$ | \$ |
| <u>1947</u> | | | | | | |
| Quebec | 8 | 174 | 364,634 | 42,141 | 1,028,917 | 1,710,883 |
| Ontario | 16) | 555 | 1,186,450 | 232,648 | 3,274,104 | 5,704,727 |
| British Columbia .. |) | | | | | |
| | 2) | | | | | |
| CANADA ... | 26 | 729 | 1,551,084 | 274,789 | 4,303,021 | 7,415,610 |
| <u>1948</u> | | | | | | |
| 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) | | | | | |
| CANADA ... | 25 | 771 | 1,829,603 | 356,191 | 4,701,297 | 8,660,211 |

Table 3 - PRODUCTS MADE IN THE ADHESIVES INDUSTRY, 1947 and 1948

| Product | 1947 | | 1948 | |
|------------------------------|------------|------------------------|------------|------------------------|
| | Quantity | Selling value at works | Quantity | Selling value at works |
| | lb. | \$ | lb. | \$ |
| Cements - Linoleum | 2,230,276 | 133,432 | 3,314,280 | 194,918 |
| Other | ... | 164,359 | ... | 168,128 |
| Glue - Bone and hide | 5,802,196 | 1,557,285 | 8,937,495 | 2,488,093 |
| Casein | 731,838 | 200,049 | 557,026 | 166,771 |
| Flexible | 1,116,738 | 217,718 | 1,868,851 | 371,680 |
| Synthetic resin | 7,239,294 | 729,672 | 5,325,529 | 581,753 |
| Vegetable - Dry | 3,638,631 | 320,476 | 2,386,362 | 319,871 |
| Liquid .. | 17,724,886 | 1,289,565 | 17,569,762 | 1,436,054 |
| Other | 2,196,334 | 209,896 | 408,079 | 83,309 |
| Mucilage and paste | 6,008,233 | 414,194 | 6,056,980 | 499,665 |
| All other products (*) | ... | 2,178,964 | ... | 2,349,969 |
| TOTAL | ... | 7,415,610 | ... | 8,660,211 |

(*) 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, 1947 and 1948

| | Unit of measure | 1 9 4 7 | | 1 9 4 8 | |
|---|-----------------|-----------|---------------------|-----------|---------------------|
| | | Quantity | Cost at works \$ | Quantity | Cost at works \$ |
| Bones | ton | 7,809 | 169,313 | 14,353 | 555,362 |
| Hides and hide trimmings. | ton | 18,208 | 496,337 | 20,482 | 701,556 |
| Casein | lb. | 912,412 | 252,373 | 520,534 | 142,850 |
| Dextrine | lb. | 7,794,370 | 696,045 | 8,256,938 | 781,155 |
| Flour, tapioca | lb. | 888,909 | 106,569 | 956,202 | 104,456 |
| Flour, soya bean | lb. | 1,871,383 | 114,238 | 1,294,660 | 83,274 |
| Flour, other | lb. | 9,985,191 | 357,349 | 7,296,525 | 339,943 |
| Glycerine | lb. | 219,736 | 47,582 | 139,363 | 47,921 |
| Gums and resins, natural. | lb. | 347,612 | 45,704 | 407,856 | 52,974 |
| Lime | ton | 554 | 6,439 | 638 | 7,169 |
| Resins, synthetic | lb. | 160,360 | 35,506 | 454,611 | 80,567 |
| Rubber | lb. | 89,026 | 26,693 | 338,547 | 92,535 |
| Solvents (benzol, naphtha, etc.) | gal. | 197,993 | 43,869 | 136,761 | 42,223 |
| Starch | lb. | 1,344,680 | 96,288 | 1,144,000 | 93,610 |
| Sulphur | lb. | 185,930 | 2,199 | 121,640 | 1,461 |
| Sulphuric acid, 100% | lb. | 1,399,707 | 12,800 | 1,689,361 | 15,872 |
| Tallow and fat | lb. | 6,497,075 | 331,336 | 5,392,586 | 272,017 |
| Containers and packing materials | ... | ... | 213,061 | ... | 347,898 |
| All other materials | ... | ... | 1,249,320 | ... | 938,454 |
| TOTAL | ... | ... | 4,303,021 | ... | 4,701,297 |

Table 5 - TOTAL PRODUCTION OF ADHESIVES, FROM ALL INDUSTRIES, 1947 and 1948

| | Unit of measure | 1 9 4 7 | | 1 9 4 8 | |
|------------------------|-----------------|------------|------------------------------|------------|------------------------------|
| | | Quantity | Selling value at works \$ | Quantity | Selling value at works \$ |
| Cements - Linoleum .. | lb. | 2,230,276 | 133,432 | 3,314,280 | 194,918 |
| Rubber | gal. | 180,543 | 252,908 | 253,010 | 350,834 |
| Other | ... | ... | 301,929 | ... | 92,151 |
| Glue - Bone and hide.. | lb. | 11,225,276 | 2,450,474(*) | 9,618,597 | 2,597,995 |
| Casein | lb. | 731,838 | 200,049 | 557,026 | 166,771 |
| Flexible | lb. | 1,116,738 | 217,718 | 1,868,851 | 371,680 |
| Fish | ... | ... | 269,583 | ... | 488,091 |
| Synthetic resin | lb. | 7,239,294 | 729,672 | 5,326,529 | 581,753 |
| Vegetable - | | | | | |
| Dry | lb. | 3,638,631 | 320,476 | 2,386,362 | 319,871 |
| Liquid | lb. | 17,724,886 | 1,289,565 | 17,569,762 | 1,436,054 |
| Other | lb. | ... | 200,464 | ... | 250,773 |
| Mucilage and paste ... | ... | ... | 500,055 | ... | 601,824 |
| Adhesives, other | ... | ... | 128,553 | ... | 322,427 |
| TOTAL | ... | ... | 6,994,878 | ... | 7,775,142 |

(*) Revised.

Table 6 - IMPORTS OF ADHESIVES, 1947 and 1948

| | 1 9 4 7 | | 1 9 4 8 | |
|-----------------------------|-----------|-----------|-----------|---------|
| | Pounds | \$ | Pounds | \$ |
| Glue - Animal | 4,478,037 | 1,098,459 | 2,607,127 | 860,961 |
| Synthetic resin | 802,221 | 140,154 | 1,161,093 | 276,376 |
| Vegetable | 156,753 | 23,683 | 43,807 | 5,859 |
| Other | 225,227 | 67,311 | 210,379 | 72,315 |
| Mucilage and adhesive paste | 304,302 | 44,960 | 349,524 | 75,888 |
| Rubber cement | ... | 546,288 | ... | 510,299 |

Table 7 - EMPLOYEES, SALARIES AND WAGES IN THE ADHESIVES INDUSTRY, 1947 and 1948

| | Average number of employees | | | | | Salaries | Wages | TOTAL SALARIES and WAGES |
|---------------------------------------|-----------------------------|--------|----------|--------|-------|----------|-----------|--------------------------------|
| | On salaries | | On wages | | Total | | | |
| | Male | Female | Male | Female | | | | |
| | | | | | | \$ | \$ | \$ |
| <u>1 9 4 7</u> | | | | | | | | |
| Quebec | 33 | 21 | 100 | 20 | 174 | 154,260 | 210,374 | 364,634 |
| Ontario and British Columbia .. | 101 | 52 | 391 | 11 | 555 | 402,697 | 783,753 | 1,186,450 |
| CANADA ... | 134 | 73 | 491 | 31 | 729 | 556,957 | 994,127 | 1,551,084 |
| <u>1 9 4 8</u> | | | | | | | | |
| 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 |
| CANADA ... | 116 | 74 | 552 | 29 | 771 | 524,393 | 1,305,210 | 1,829,603 |

LIST OF FIRMS IN THE ADHESIVES INDUSTRY, 1948

| Name of firm | Location of plant |
|--------------------------------------|-----------------------------------|
| <u>Quebec -</u> | |
| 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 |
| Meredith, Simmons & Co. Ltd. | 2125 Remembrance Road, Lachine |
| Solidex Limited | 50 Hurtubise Blvd., Montreal East |
| <u>Ontario -</u> | |
| Butterworth, A. C. | 103 Oak Crest Ave., Toronto |
| Canada Glue Co. Limited | Mohawk Road, Brantford |
| Cann, Lew., Sales | Streetsville |

LIST OF FIRMS IN THE ADHESIVES INDUSTRY, 1948
(Concluded)

| <u>Name of Firm</u> | <u>Location of plant</u> |
|---|---------------------------------|
| <u>Ontario (Concluded) -</u> | |
| Delany & Pettit 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 |
| Industrial Grain Products, Limited | 741 Talbot St., London |
| Machon Sealing Wax Company, The | 678 Parliament St., Toronto |
| McCleary, Allan R. & Co. | 17 Carlaw Ave., Toronto |
| McCormick & Co. (Canada) Limited | 218 Front St. E., Toronto |
| Meredith Simmons & Co. 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 |
| <u>British Columbia -</u> | |
| Hasco Products Limited | 11th Avenue, New Westminster |
| Monsanto (Canada) Limited | Granville Island, Vancouver |

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