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# DFPARTTIENT OF TRADH: AND COMEIERCE DOMINIUN BUREAU OF STATISTICS CEMSUS OF INDUSTRY MINING, METALLURGICIL AND CHEMCAL BRANCH OTTAFA - CANADA 

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ANNUAL INDUSTFY RFPORT
CHDIICALS AMD ALLIED PRODUCIS GROUP

## THE ADHESIVES INDUSTRY_1939

Statistics in this report on the Adhesives Industry cover only those factories which make glue, mucilage, paste or special cements as their chief product. During 1939 there vere 19 firms operating this group, 10 being located in Ontario, 7 in Quebec and 2 in British Columbia.

Production and employment in this industry rose slightly during 1939 compared with 1938; the value of production was reported at $\$ 2,110,806$ compared with $\$ 1,904,9.37$ in the previous year and employees numbered 427 against 415. Capital investment rose 5.9 per cent to $\$ 2,733,476$, expenditures for salaries and wages increased 4.8 per cent to $\$ 520,662$ and the cost of materiels purchased for use in manufacturing operations rose 6.3 per cent to $\$ 905,411$.

Production of bone and hide glue decreased in quantity to 2,258 tons from 2,530 tons and in velue from $\$ 754,867$ in 1938 to $\$ 672,193$ in 1939 . Output of other glues advanced in value to $\$ 25,811$ from $\$ 611,032$, and the value of mucilage and paste increased to $\$ 144,808$ from $\$ 120,099$. Mucilage and paste were also made by concerns in other industries, particularly by the manufacturers of writing inks, the total production from all sources amounting to $\$ 231,813$ in 1939 and $\$ 202,088$ in 1958.

Imports of adhesives into Canada during 1939 were as follows:- 669 tons of vegetable glues valued at $\$ 47,937 ; 746$ tons of animel glue at $\$ 143,607 ; 61$ tons of liquid glue at $\$ 28,355$, and 186 tons of mucilage and paste at $\$ 37,926$.

Exports of glue amounted to 233 tons at $\$ 57,113$ and exports of glue stock totalled 3,377 tons appraised at $\$ 35,726$.

Table 1 PRINCIPAL STATISIICS OE THE ADIESIVES INDUSIRV 1929-1939

| Years | Number of plants | Capitel employed | Average number of enpluyees | $\begin{aligned} & \text { Salaries } \\ & \text { and } \\ & \text { mages } \\ & \frac{\delta}{\$} \end{aligned}$ | Cost of fuel and electricity $\frac{\text { at }}{\frac{30}{} \text { ris: }}$ | Cost of materials $-\frac{a t}{8} \frac{\text { nows }}{4}$ | Gross selling value of products at morks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1929 | 13 | 1,850,27\% | 267 | 321,296 | 65,157 | 962,940 | 1,8301,644 |
| 1930 | 12 | 1,921,406 | 226 | 286,825 | 64,380 | 882,908 | 1.,650,634 |
| 1931 | 13 | 2,850,507 | 297 | 375,598 | 75,149 | 877,802 | 1,742,555 |
| 1932 | 14 | 2,501,171 | 229 | 263,142 | 53, 300 | 457,146 | 1,087,215 |
| 1933 | 16 | 2,271,071 | 283 | 314,005 | 78,712 | 463,199 | 1,141,76]. |
| 1934 | 16 | 2,123,205 | 332 | 366,008 | 77,198 | 587,535 | 1, 507, $39 \%$ |
| 1935 | 17 | 2,066,754 | 389 | 423,513 | 114,604 | 550,700 | 1,430,259 |
| 1936 | 19 | 2,266,199 | 420 | 457,170 | 123,865 | 813,291 | 1,793,200 |
| 1937 | 18 | 2,357,662 | 416 | 483,813 | 116,84? | 901,194 | 1,904,137 |
| 1938 | 19 | 2,580,265 | 415 | 490,950 | 115,972 | 851,529 | 1,904,258 |
| 1939 | 19 | 2,735,476 | 427 | 580,662 | 89,573 | 905,411 | 2,110,806 |

Per ceint change
1939 from


NOTE - Profits or losses camot be csiculated from alove figures as deta are not available for genergl expense items such as,interest, rent, depreciation, taxes, insurance, advertising, etc.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1938 and 1939

|  |  |  | Average |  | Cost of |  | Gross sel |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Capital | number | Salarios | fuel and | Cost of | ing value |
| Years | of | employed | of ent- | and | electricity | materials | of products |
|  | plants |  | ployees | wages | at works | at works | at works |
|  |  | \$ |  |  | * | , | \$ | 1938


| Quebec $\qquad$ British Columbia | $\begin{aligned} & \text { 7) } \\ & \text { 2) } \end{aligned}$ | 629,963 | 131 | 1.41.,567 | 28,700 | 308,903 | 591,250 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ontario | 10 | 1,950,300 | 284 | 354,383 | 87,272 | 542,626 | 1, 215,008 |
| CANADA | 19 | 2,580,263 | 41.5 | 496,950 | 115,972 | 851,529 | 1,904,258 |

1939

| Quebec $\qquad$ British Columbia | 7) <br> 2) | 721,888 | 142 | 150,915 | 30,884 | 374,977 | 800,380 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ontario | 10 | 2,011,588 | 285 | 369,747 | 58,683 | 530,434 | 1,310,426 |
| CANADA | 19 | 2,733,476 | 427 | 520,662 | 89,573 | 905,411 | 2,110,806 |

Table 3 - CAPITAL HPIOIED, BI PPOVINCEN, 1938 and 1939


Inventory value of materials, finished Operating products, fuel and capital (cash, other supplies on hand, and stocks in process
bills ond accounts receivable

TOTAL CAPITAL FRPLOYED $\$$

| 13.8 \$ \$ \$ \$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Quebec © ${ }^{\text {British Columbia) }}$ | 315,712 | 167.198 | 147,053 | 629,963 |
| Onterio ........ | 1,009,364 | 594,565 | 346,371 | 1,950,300 |
| CAITADA | 1,325,076 | 761,763 | 493,424 | 2,580,263 |

1939
Quebec .........)

| British Columbja) | 334,219 | 210,099 | 177,570 | 721,888 |
| :---: | :---: | :---: | :---: | :---: |
| Ontario | 1,001,574 | 516,805 | 493,209 | 2,011,588 |
| CANADA | 1,335,793 | 726,904 | 670,779 | 2,733,476 |

Table 4 - RMPLOYEES, SALARIES AND WAGES, 1938 and 1939


1938

| Quebec ..........) <br> British Columbia) | 33 | 5 | 81 | 12 | 131 | 64,736 | 77,831 | 142,567 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ontario | 43 | 14 | 224 | 3 | 284 | 123,223 | 231,160 | 354,383 |
| CANTADA. | 76 | 19 | 305 | 15 | . 415 | 187,959 | 308,991 | 496,950 |


| Quebec ..........) <br> British Columbia) | 36 | 6 | -89 | 17 | 142 | 60,123 | 90,792 | 1.50,915 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ontario | 47 | 16 | 218 | 4 | 285 | 143,829 | 225,918 | 369,747 |
| CAITADA | 83 | 22 | 307 | 15 | 427 | 203,952 | 316,710 | 520,662 |

Table 5 - WAGE-EARTERS, BY MONPHS, 1933 and 1933 (On the last work day of each month)

| Months | Male | Femal | TOTAL | Male | Female | TOTAT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 308 | 14 | 322 | 310 | 14 | 324 |
| February | 313. | 15 | 326 | 309 | 15 | 324 |
| March | 308 | 15 | 323 | 315 | 15 | 330 |
| April ............... | 307 | 15 | 322 | 328 | 15 | 343 |
| May ................. | 312 | 14 | 326 | 324 | 17 | 341 |
| June ................ | 307 | 15 | 322 | 308 | 15 | 323 |
| July | 295 | 15 | 310 | 263 | 14 | 277 |
| August ............... | 239 | 16 | 315 | 278 | 14 | 232 |
| Septernber | 283 | 17 | 300 | 281 | 14 | 295 |
| October | 239 | 15 | 314 | 288 | 16 | 304 |
| November | 314 | 15 | 329 | 340 | 16 | 356 |
| Decertber | 308 | 14 | 322. | 350 | 15 | 365 |
| AVERAGE | 305 | 15 | 320 | 307 | 15 | 322 |



Table 7 - FUEI, AND ELECTRICITY USED, 1938 and 1939


Table 8 - POWER EQUIPMENT, 1938 and 1939

| Ota | In reserve or idle |
| :---: | :---: |
| Number of Total rated units horse power | Number of Total rated units horse power |

1938
Steam engines and steam turbines. Hydraulic turbines and waterwheels Total Primary Equipment Electric motors run by purchased


| 7 | 595 | 2 | 260 |
| ---: | ---: | ---: | ---: |
| -1 | 25 | $\cdots$ | $\cdots$ |
|  | 620 | 2 | 260 |


| TOTAL |  |
| ---: | :--- |
| Stationary |  |
| boilers | $\ldots \ldots \ldots \ldots \ldots$ |

$$
1939
$$

Steam engines and steam turbines., Hydraulic turbines and waterwheels Total Prinary Equipment ...... Electric notors run by pucchased

| power |
| ---: |
| TOTAL |
| Stationary boilers |

Table 9 －MATERIALS USED IN MANUFACTURING， 1938 and 1939

|  |  | 19 | 38 | 19 | 39 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Materials | Unit of measure | Quantity | Cost at works | Quentity | Cost at works |
|  |  |  | \＄ |  | \＄ |
| Bones | ton | 7，386 | 75，416 | 6，193 | 68，373 |
| Hides and hide trimmings | ton | 13，518 | 261，538 | 14，736 | 211，975 |
| Casoin ．． | 1 b ． | 104，836 | 12，448 | 175，193 | 15，533 |
| Dextrine | $1 \mathrm{~b}^{\text {a }}$ | 2，310，958 | 97，223 | 2，848，194 | 153，904 |
| Flour，tapioca | 1 b ． | 233，542 | 11，363 | 321，847 | 16，394 |
| Flour，soya bean | 1 b 。 | 928，737 | 23，990 | 1，440，000 | 37，993 |
| Flour，other | 1 b 。 | 2，012，487 | 40，901 | 2，380，344 | 47，466 |
| Glycemine | 1 b ． | 108，261 | 16，510 | 145，359 | 20，152 |
| Gums ． | 1 b ． | 60，532 | 5，692 | 105，019 | 15，849 |
| Lime | ton | 662 | 5，787 | 612 | 6，817 |
| Resin | 1 b 。 | 74，066 | 3，542 | 62，367 | 3，422 |
| Rubber | $1 \mathrm{lb}^{\text {a }}$ | 27，666 | 5，872 | 75，302 | 15，979 |
| Solvents（benzol，naphtis，etc．） | gal， | 49，102 | 9，215 | 74，468 | 12，825 |
| Starch ．．． | 1b。 | 525，416 | 25，558 | 500，688 | 19，696 |
| Sulphur | 1 b 。 | 141，093 | 2，487 | 131，900 | 1，904 |
| Sulphuric acid， $66^{\circ} \mathrm{Be} . . . \mathrm{Co..}$. ． | Ib． | 1，107，636 | 10，075 | 625，105 | 5，911 |
| Tallow and fat． | 1 b 。 | 1，732，061 | 13，677 | 2，578，877 | 28，006 |
| Containers and packing materials | ．．． | ．．． | 55，927 | －．． | 69，662 |
| All other materials | ．．． |  | 174， 308 |  | 173,550 |
| TOTAL ．．．．．．．．．．．．． | －•• |  | 851，529 | $\cdots$ | 905，411 |

Table 10 －PRODUCTS MADE， 1938 and 1939

|  |  |  | 1893 |  |
| :---: | :---: | :---: | :---: | :---: |
| Products | Quantity | Selling value at norks | Quantity | Selling value at works |
|  |  | \＄ |  | \＄ |
| Bone and hide glue ．．．．．．．．．．． 1 lb ． | 5，059，032 | 754，867 | 4，515，629 | 672，193 |
| Vegetable glue，dry and liquid lb． | 8，074，458 | 436，228 | 9，318，525 | 597，188 |
| Other glues（casein，soya bean， fish，flexible，etc．）．．．．．．．． |  | 174，804 |  | 228，625 |
| Grease ．．．．．．．．．．．．．．．．．．．．．．． 1 l ． | 3，183，118 | 84，685 | 3，470，424 | 113，057 |
| Mucilage and paste（ xx ） |  | 120，099 | －．． | 144，808 |
| All other products（ x ） | $\cdots$ | 333，575 | $\cdots$ | 354，937 |
| TOTAL ．．．．．．．．．．．\＄ | $\cdots$ | 1，904，258 | ．． | 2，110，806 |

（ $x x$ ）In addition to the output here reported，there was some mucilage and paste made in other industries．The total output of mucilage and paste from all indus－ txies was about $\$ 231,813$ in 1939 compared with $\$ 202,088$ in 1938.
（x）Includes liquid solder，sealing wax，mixed fertilizers，buttermilk powder，rub－ ber and linoleum cements，poultry food，fox food，raw bone，steamed bone，and other such products which were reported by only one or tro firms in tht s industry．

Table 11 = IMPORTS INTO CANADA AND EXPORTS OF CLIJF LGUCLLAGF ANI PASTE 1938 and 1959


## DIRECTORY UF FIBMS IN TFIE ADHESIVES INDUSTRX. 1939

NOTE - The Adhesives Industry includes only the concerns which made adhesives as their main products. Some cancerns in other industrial groups made paste, mucilage, etc., as minor products but these works are not listed in this directory.
Name of Firm and
Location of Plant
Main Products, 1939

Boston Blacking Co. of Canada, iimited 1505 Cabot St., Cote St. Paul, Montreal, P.Q.

Bulldog Grip Cement Co. Inc., 2101 Bennett Ave, Montreal, P.Q.
Butterworth, A. \& Son, Butterworth Ave., Scarboro, Ont,

Caseir glue; Duttermilk jowder; casein; liquid paste; Ilquia vegetable glue.

Cement and solvent.

## DIRECTORY OF FIRMS IN TIE ADIESIVES INDUSTRY，1939－（Concluded）

## Name of FIrm and

Location of Plant

## Main Products， 1939

Canada Glue Co．Limited，
Hohaw＇s Road，Brantford，Ont．
Doninion Flour Paste Co．， 2122立 Champlain St．，Montreal，P．Q．

Cypsum，Lime \＆Alabastine，Canade，Ltd．， 1 Strange St．，Kitchener，Ont．

Harris，W．，\＆Co，Limited， 200 Keating St．，Toronto 2，Ont．

Hasco Products Limited， 131－8th St．，New Nestminster，B．C．

Hercules Laux－Merritt Co，Ltd．， Stanbridge，P。Q．
Laucks，I．$F_{0}$ ，Ltifo， Granville Island，Vancouver，B．C．

Hachon Sealing Wax Co．，
678 Parliament St．，Toronto，Ont．
Marquis，F．Canac，Reg＇d．
3 Courcelette Sto，Quebec，P．Q．
Meredith，Simmons \＆Co．Limited， 5565 Cote St．Paul Road，Montreal，P．Q． and
371 Wallace Ave．，Toronto，Ont．
Reanite Corporation Ltd．， Hilton St．，Eastview，Ont．

Russia Cement Co．，
4105 Richelleu St．，Montreal，$P_{\circ}$ Q。
Stuart \＆Foster，Limited，
361 King St．E．，Toronto，Ont．
Toronto Adhest ve CO．，
27 Jarvis St．，Toronto，Ont．
Wolverine Gement Co．，
99 Grand River Ave．，Brantford，Ont．Linoleum cements．


