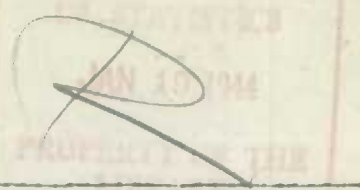


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DEPARTMENT OF TRADE AND COMMERCE
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ANNUAL INDUSTRY REPORT CHEMICALS AND ALLIED PRODUCTS GROUP
THE ADHESIVES INDUSTRY, 1942

This report on the Adhesives Industry in Canada covers the operations of all factories which made glue, mucilage, paste or special cements as their chief products. In 1942 there were 21 establishments in this group, 10 being located in Ontario, 9 in Quebec and 2 in British Columbia.

Production advanced 25.9 per cent in 1942 to \$4,630,667, the number of employees declined 6.8 per cent to 559, and salaries and wages increased 11.7 per cent to \$842,026. The cost of fuel and electricity at \$200,142 was greater by 21.4 per cent than in 1941, and the value of materials used directly in manufacturing processes was 25.9 per cent higher at \$4,630,667.

The quantity of bone and hide glue made amounted to 2,964 tons worth \$1,157,762 against 3,122 tons at \$1,105,247 in 1941. Output of other glues advanced in value to \$1,766,186 from \$1,298,389 and the value of mucilage and paste increased to \$328,273 from \$238,018. Mucilage and paste were also made by concerns in other industries, particularly by ink manufacturers, and the total production from all sources amounted to \$458,299 in 1942 and to \$314,613 in 1941.

Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1932 - 1942

Year	Number of plants	Capital employed	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
		\$		\$	\$	\$	\$
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	1,141,761
1934	16	2,125,205	332	366,008	77,198	587,535	1,307,393
1935	17	2,066,754	339	423,513	114,604	550,700	1,436,259
1936	19	2,266,199	420	457,170	123,865	813,291	1,799,200
1937	18	2,357,662	416	483,819	116,842	901,194	1,904,137
1938	19	2,580,263	415	496,950	115,972	851,529	1,904,258
1939	19	2,753,476	427	520,632	89,573	905,411	2,110,806
1940	21	2,742,463	497	621,451	146,661	1,120,288	2,789,389
1941	22	3,016,349	599	753,491	164,820	1,858,728	3,675,631
1942	21	3,523,541	559	842,026	200,142	2,265,181	4,630,667
Per cent change --							
1942 from 1941	-	+16.8	-6.8	+11.7	+21.4	+21.9	+25.9

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

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1941 and 1942

Year	Number of plants	Capital employed \$	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>1941</u>							
Quebec	8	859,854	158	183,874	45,753	493,962	981,508
Ontario	11	1,886,342	394	498,640	116,379	1,101,285	2,367,922
Nova Scotia	1)						
British Columbia	2)	270,153	47	70,977	2,688	263,481	326,201
CANADA	22	3,016,349	599	753,491	164,820	1,858,728	3,675,631
<u>1942</u>							
Quebec	9	1,079,103	157	203,622	55,612	532,946	1,115,244
Ontario	10)						
British Columbia	2)	2,444,438	402	638,404	144,530	1,732,335	3,515,423
CANADA	21	3,523,541	559	842,026	200,142	2,265,181	4,630,667

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1941 and 1942. (on the last day of the year)

Provinces	Present value of lands, buildings, machinery and equipment \$	Value of inventories			TOTAL CAPITAL EMPLOYED \$
		Raw materials, fuel and other supplies on hand, and stocks in process \$	Finished Products on hand \$	Operating capital (cash, bills and accounts receivable) \$	
<u>1941</u>					
Quebec	359,820	205,827	88,268	205,939	859,854
Ontario	869,694	162,834	253,810	600,004	1,886,342
Other provinces	51,409	138,094	29,631	51,019	270,153
CANADA	1,280,923	506,755	371,709	856,962	3,016,349
<u>1942</u>					
Quebec	333,412	404,175	79,576	261,940	1,079,103
Ontario and British Columbia	808,830	386,318	549,029	900,261	2,444,438
CANADA	1,142,242	790,493	428,605	1,162,201	3,523,541

Table 4 - EMPLOYEES, SALARIES AND WAGES, 1941 and 1942

Provinces	Average Number of Employees				TOTAL	Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1941</u>								
Quebec	35	10	99	14	158	82,313	101,561	183,874
Ontario	60	24	297	13	394	155,050	343,590	498,640
Other provinces	13	5	29	..	47	33,663	37,314	70,977
CANADA	108	39	425	27	599	271,026	482,465	753,491
<u>1942</u>								
Quebec	34	14	106	3	157	82,664	120,958	203,622
Ontario and British Columbia	64	30	296	12	402	201,012	437,392	638,404
CANADA	98	44	402	15	559	283,676	558,350	842,026

Table 5 - WAGE-EARNERS, BY MONTHS, 1941 and 1942 (On the last work-day of each month)

Months	1941			1942		
	Male	Female	TOTAL	Male	Female	TOTAL
January	405	16	421	419	8	427
February	410	17	427	416	9	425
March	409	18	427	424	13	437
April	412	35	447	419	13	432
May	403	25	428	419	19	438
June	408	27	433	421	14	435
July	423	27	450	407	14	421
August	424	27	451	386	14	400
September	435	37	472	377	14	391
October	450	31	481	378	15	393
November	454	31	485	385	20	405
December	450	22	472	390	21	411
AVERAGE	423	26	449	402	15	417

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 and 1942 (In one week of highest employment; overtime included)

Hours worked per week	Number of wage-earners		Hours worked per week	Number of wage-earners	
	1941	1942		1941	1942
30 hours or less	4	16	55 hours	7	8
31 - 43 hours ..	8	31	56 - 64 hours ...	34	92
44 hours	45	80	65 hours and over	14	26
45 - 47 hours ..	88	37	Total	491	460
48 hours	74	59	Total wages paid		
49 - 50 hours ..	10	16	in selected week \$	11,294	11,268
51 - 54 hours ..	207	95			

Adhesives

Table 7 - FUEL AND ELECTRICITY USED, 1941 and 1942

Kinds	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Anthracite coal	tons	5	71	4	57
Bituminous coal - Canadian	tons	3,932	25,413	2,454	21,958
Foreign	tons	15,348	94,720	16,442	115,725
Coke	tons	136	1,423	123	1,379
Gasoline	Imp. gal.	13,364	3,840	63,204	16,467
Fuel oil	Imp. gal.	314,690	16,513	340,565	22,817
Wood	cords	26	222	9	80
Gas - Manufactured	M cu. ft.	377	371	314	341
Electricity purchased	K.W.H.	2,208,574	22,247	1,803,337	21,318
TOTAL .....	...	...	164,820	...	200,142
Electricity generated for own use	K.W.H.	...	...	525,000	...

Table 8 - POWER EQUIPMENT, 1941 and 1942

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 1</u>				
Steam engines and steam turbines	9	732	1	15
Electric motors run by purchased power	228	1,596	13	64
TOTAL	237	2,328	14	79
Electric motors run by power generated in establishment ...	19	258	5	61
Stationary boilers	15	1,951	...	...
<u>1 9 4 2</u>				
Steam engines and steam turbines	7	620	1	15
Gasoline engines	1	55	...	...
Electric motors run by purchased power	248	1,213	21	223
TOTAL.....	256	1,888	22	238
Electric motors run by power generated in establishment ...	19	258	5	61
Stationary boilers	9	1,261	1	60

Table 9 - MATERIALS USED IN MANUFACTURING, 1941 and 1942

Materials	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bones	ton	10,571	194,674	9,165	119,772
Hides and hide trimmings	ton	18,547	376,067	21,465	359,165
Casein	lb.	515,776	89,193	666,407	145,378
Dextrine	lb.	4,642,616	289,519	6,175,498	390,331
Flour, tapioca	lb.	591,038	38,521	1,388,395	104,480
Flour, soya bean	lb.	2,196,843	66,810	2,354,148	78,059
Flour, other	lb.	4,004,052	100,522	5,066,498	128,423
Glycerine	lb.	172,177	25,143	66,632	10,469
Gums	lb.	152,995	21,018	121,667	18,922
Lime	ton	1,036	10,818	1,007	11,107
Resin	lb.	319,609	45,298	335,102	36,369
Rubber	lb.	146,525	44,999	88,781	16,192
Solvents (benzol, naphtha, etc.)	gal.	160,259	43,195	142,508	38,084
Starch	lb.	893,100	44,325	788,511	42,066
Sulphur	lb.	164,080	3,031	178,700	3,087
Sulphuric acid, 66° Be	lb.	2,273,434	21,673	1,311,813	17,317
Tallow and fat	lb.	149,547	6,317	4,263,428	216,872
Containers and packing materials	...	...	127,451	...	83,705
All other materials .....	...	...	310,144	...	445,383
TOTAL .....	...	...	1,858,728	...	2,265,181

Table 10 - PRODUCTS MADE, 1941 and 1942

Products	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$	
Bone and hide glue	lb.	6,244,004	1,105,247	5,928,053	1,157,762
Vegetable glue, dry and liquid	lb.	15,572,928	923,666	19,619,457	1,240,709
Other glues (casein, soya bean, fish, flexible, etc.)	...	...	374,723	...	525,477
Crease	lb.	1,482,272	69,941	1,637,237	125,131
Mucilage and paste (xx) .....	...	...	238,018	...	328,273
All other products (x) .....	...	...	964,036	...	1,253,315
TOTAL .....	...	...	3,675,631	...	4,630,667

(xx) 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 industries was about \$458,299 in 1942 compared with \$314,613 in 1941.

(x) Includes sealing wax, mixed fertilizers, buttermilk powder, rubber and linoleum cements, poultry food, fox food, raw bone, steamed bone, and other such products which were reported by only one or two firms in this industry.

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