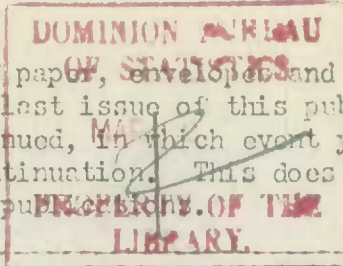


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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE ADHESIVES INDUSTRY, 1941

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 1941 there were 22 establishments in this group, 11 being located in Ontario, 8 in Quebec, 2 in British Columbia and 1 in Nova Scotia.

Production and employment in this industry rose abruptly during 1941 compared with 1940. The value of production advanced 31.2 per cent to \$3,675,631; the number of employees, 20.5 per cent to 599, and total salaries and wages 21.2 per cent to \$753,491. The cost of fuel and electricity at \$164,820 was greater by 12.4 per cent than in 1940, and the value of materials used directly in manufacturing processes was 65.2 per cent higher at \$1,852,728.

The quantity of bone and hide glue made amounted to 3,122 tons worth \$1,105,247 against 2,932 tons at \$946,840 in 1940. Output of other glues advanced in value to \$1,228,389 from \$836,940, and the value of mucilage and paste decreased to \$233,018 from \$369,837. Mucilage and paste were also made by concerns in other industries, particularly by ink manufacturers, and the total production from all sources amounted to \$314,613 in 1941 and to \$433,639 in 1940.

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Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1929 - 1941

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 \$
1929	13	1,850,273	367	351,296	63,157	362,040	1,830,644
1930	12	1,921,406	226	233,825	64,330	382,203	1,650,334
1931	13	2,350,507	297	375,593	75,149	377,302	1,742,553
1932	14	2,501,171	239	263,142	53,300	457,146	1,037,215
1933	16	2,271,071	233	314,005	73,712	463,199	1,141,761
1934	16	2,123,205	332	336,008	77,133	537,535	1,307,393
1935	17	2,066,754	339	423,513	114,604	550,700	1,436,259
1936	19	2,266,139	420	457,170	123,865	313,291	1,729,200
1937	19	2,357,362	416	437,319	116,242	901,194	1,304,137
1938	19	2,530,263	415	493,950	115,972	351,529	1,204,258
1939	19	2,733,476	427	520,662	89,573	905,411	2,110,806
1940	21	2,742,463	497	621,451	146,361	1,120,233	2,739,339
1941	22	3,016,349	539	733,491	164,320	1,353,723	3,675,631
Per cent change-- 1941 from 1940 ....	..	+10.0	+20.5	+21.2	+12.4	+65.9	+31.8

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, 1940 and 1941

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 \$
1940							
Quebec	7	592,742	132	150,508	35,936	333,601	342,271
Ontario	11	1,236,489	333	431,462	103,533	632,473	1,771,746
Nova Scotia	1)						
British Columbia	2)	163,232	27	39,431	2,142	104,209	175,372
CANADA	21	2,742,463	497	621,451	146,361	1,120,233	2,739,339
1941							
Quebec	8	853,354	153	133,374	45,753	433,362	931,503
Ontario	11	1,836,342	334	493,640	116,373	1,101,235	2,367,922
Nova Scotia	1)						
British Columbia	2)	270,153	47	70,977	2,633	233,481	326,301
CANADA	22	3,016,349	539	733,491	164,320	1,353,723	3,675,631

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1940 and 1941

Provinces	Present value	Inventory value	Operating	TOTAL CAPITAL EMPLOYED
	of lands, build- ings, machinery and equipment	materials, finished products, fuel and other supplies on hand, and stocks in process	capital (cash, bills and accounts re- ceivable	
	\$	\$	\$	\$
<u>1940</u>				
Quebec	270,517	186,660	135,565	592,742
Ontario	902,170	583,386	500,933	1,986,489
Other provinces	39,346	95,743	27,543	163,632
CANADA	1,212,633	865,789	664,041	2,742,463
<u>1941</u>				
Quebec	359,320	294,095	205,939	859,354
Ontario	869,694	416,644	600,004	1,886,342
Other provinces	51,409	167,725	51,019	270,153
CANADA	1,280,423	878,464	856,962	3,016,849

Table 4 - EMPLOYEES, SALARIES AND WAGES, 1940 and 1941

Provinces	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1940</u>								
Quebec	26	9	39	3	132	64,940	95,560	150,508
Ontario	47	17	267	7	333	132,939	298,473	431,462
Other provinces	12	3	12	..	27	26,531	12,350	38,881
CANADA	85	29	368	15	497	224,468	396,983	621,451
<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

Table 5 - WAGE-EARNERS, BY MONTHS, 1940 and 1941 (On the last work-day of each month)

Months	1940			1941		
	Male	Female	TOTAL	Male	Female	TOTAL
January	366	11	377	405	16	421
February	303	11	374	410	17	427
March	367	12	379	409	13	427
April	371	22	393	412	35	447
May	367	13	380	403	25	428
June	355	13	368	406	27	433
July	348	12	360	423	27	450
August	361	18	379	424	27	451
September	308	12	366	435	37	472
October	375	17	392	459	31	481
November	392	12	410	454	31	485
December	390	14	404	459	22	472
AVERAGE	368	15	383	423	26	449

Adhesives

Table 6 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1940 and 1941 (in one week of normal employment; overtime included)

Regular hours worked per week	Number of wage-earners		Regular hours worked per week	Number of wage-earners	
	1940	1941		1940	1941
30 hours or less	15	4	55 hours	18	7
31 - 43 hours ..	5	9	58 - 64 hours ...	40	34
44 hours	54	45	65 hours and over	22	14
45 - 47 hours ..	54	83	Total	415	491
48 hours	77	74	Total wages paid		
49 - 50 hours ..	6	10	in selected week \$	8,365	11,834
51 - 54 hours ..	144	207			

Table 7 - FUEL AND ELECTRICITY USED, 1940 and 1941

Kinds	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Anthracite coal	tons	404	2,661	5	71
Bituminous coal - Canadian	tons	3,699	21,697	3,332	25,413
Foreign.	tons	14,307	85,111	15,343	94,720
Coke	tons	103	1,038	136	1,423
Gasoline	Imp. gal.	15,816	3,215	13,364	3,640
Fuel oil	Imp. gal.	265,403	13,636	314,690	16,513
Wood	cords	10	93	26	222
Gas - Manufactured	M cu. ft.	336	323	377	371
Electricity purchased	K.W.H.	1,422,841	19,257	2,208,574	22,247
TOTAL .....	...	...	146,631	...	164,820
Electricity generated for own use	K.W.H.	553,000	...	...	...

Table 8 - POWER EQUIPMENT, 1940 and 1941

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1	2	4	0
Steam engines and steam turbines	10	837	1	15
Diesel engines	1	10	...	...
Electric motors run by purchased power	178	1,483	4	6
TOTAL	189	2,330	5	21
Electric motors run by power generated in establishment	19	253	5	61
Stationary boilers	13	2,136	...	...
	1	2	4	1
Steam engines and steam turbines	9	732	1	15
Diesel engines .....	...	...	...	...
Electric motors run by purchased power	223	1,596	13	64
TOTAL	237	2,328	14	79
Electric motors run by power generated in establishment	12	253	5	61
Stationary boilers	15	1,951	...	...

Table 9 - MATERIALS USED IN MANUFACTURING, 1940 and 1941

Materials	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bones	ton	9,566	109,572	10,571	134,674
Hides and hide trimmings	ton	19,233	225,708	18,547	376,067
Casein	lb.	292,752	38,190	515,776	89,193
Dextrine	lb.	3,174,102	172,200	4,642,616	239,519
Flour, tapioca	lb.	373,313	18,023	531,033	38,521
Flour, soya bean	lb.	2,154,739	66,649	2,196,343	66,310
Flour, other	lb.	2,514,267	59,378	4,904,052	100,522
Glycerine	lb.	141,512	19,330	172,177	25,143
Gums	lb.	124,251	14,557	152,995	21,018
Lime	ton	1,102	13,837	1,036	10,318
Resin	lb.	88,896	5,556	319,699	45,298
Rubber	lb.	26,237	24,370	146,525	44,299
Solvents (benzol, naphtha, etc.)	gal.	85,341	21,339	100,259	43,195
Starch	lb.	474,419	19,715	833,100	44,535
Sulphur	lb.	140,393	2,429	164,030	3,031
Sulphuric acid, 66° Be	lb.	1,082,474	10,156	2,273,434	21,673
Tallow and fat	lb.	694,905	11,481	149,547	6,317
Containers and packing materials	...	...	67,951	...	127,451
All other materials .....	...	...	227,541	...	310,144
TOTAL .....	...	...	1,120,233	...	1,358,728

Table 10 - PRODUCTS MADE, 1940 and 1941

Products	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$	
Bone and hide glue	lb.	5,964,845	946,340	6,244,004	1,105,247
Vegetable glue, dry and liquid	lb.	3,614,333	523,322	15,572,228	323,666
Other glues (casein, soya bean, fish, flexible, etc.)	...	...	303,548	...	374,723
Grease	lb.	1,053,377	36,132	1,432,272	69,941
Mucilage and paste (xx) .....	...	...	362,837	...	238,018
All other products (x) .....	...	...	599,533	...	964,036
TOTAL .....	...	...	2,739,339	...	3,675,631

(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 \$314,613 in 1941 compared with \$433,639 in 1940.

(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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