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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.) Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc. Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE ADHESIVES INDUSTRY, 1936.

The statistics in this report on the Adhesives Industry cover only the factories which make glue, paste, etc., as their <u>chief</u> products. Nineteen firms were classified to this group in 1936, 9 being in Ontario, 8 in Quebec, and 2 in British Columbia.

Compared with 1935, production for the industry increased 25 per cent in 1936 to \$1,799,200; the number of employees advanced 8 per cent to 420 and payments for salaries and wages increased 8 per cent to \$457,170. The capital investment also rose to \$2,266,199 from \$2,066,754, and the cost of materials for manufacturing increased to \$813,291 from \$550,700.

Output of animal glue increased 17 per cent in quantity and 37 per cent in value to 2,428 tons worth \$691,926 from 2,073 tons at \$503,900 in 1935. Other glues also advanced in value to \$544,160 in 1936 from \$354,086 in 1935, but mucilage and paste declined to \$140,060 from \$203,871. Mucilage and paste were made also in other industries, particularly by the manufacturers of writing inks; the total production from all sources was about \$228,897 in 1936 compared with \$269,525 in 1935.

Imports of adhesives into Canada during 1936 were as follows - vegetable glue, 901 tons at \$58,348; animal glue, 926 tons at \$141,064; liquid glue, 99 tons at \$31,158; and mucilage and paste, 173 tons at \$36,082.

Exports of glue amounted to 43 tons valued at \$15,181 and exports of glue stock totalled 1,458 tons appraised at \$28,372.

46-203 Table 1 - PRINCIPAL STATISTICS OF THE ADHESIVES INDUSTRY, 1929 - 1936. Cost of Gross sell-Average ing value Capital number Salaries fuel and Cost of Number electricity materials of products of employed of emand Years at works at works at works ployees plants wages \$ \$ \$ 321,296 1929 13 1,850,273 267 68,157 962,940 1,830,644 1,921,406 226 286,825 64,380 882,908 1,650,634 1930 12 1,742,553 2,850,507 297 375,598 75,149 877,802 1931 13 457,146 53,300 1,087,215 1932 14 2,501,171 229 263,142 2,271,071 314,005 78,712 463,199 1,141,761 16 283 1933 77,198 587,535 1,307,393 1934 2,123,205 332 366,008 16 2,066,754 114.604 550,700 1,436,259 1935 17 389 423,513 457,170 123,865 813,291 1,799,200 1936 2,266,199 420 19 Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1935 and 1936. Cost of Gross sell-Average Salaries fuel and ing value Number : Capital number Cost of electricity materials of products Provinces of employed of emand at works at works wages at works plants ployees 1935 Quebec) 218,898 126,963 512,546 612,758 119 31,672 British Columbia) 1 923,713 331,802 Ontario 1,453,996 270 296,550 82,932 8 CANADA 17 389 114,604 550,700 1,436,259 2,066,754 423,513 1936 Quebec) 134,575 31,360 303,713 622,474 678,460 130 British Columbia) 2 290 322,595 92,505 509,578 1,176,726 9 1,587,739 Ontario CANADA 420 457,170 123,865 813,291 1,799,200 19 2,266,199 Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1935 and 1936. Inventory value of materials, finished Present value Operating of lands, build-products, fuel and capital (cash, TOTAL ings, machinery other supplies on bills and CARITAL Provinces hand, and stocks in accounts re-EMPLOYED and equipment ceivable, etc.) process \$ \$ 1935 Quebec 612,758 349,180 114,482 149,096 British Columbia) 1,453,996 Ontario 874,867 386,243 192,886 1,224,047 500,725 341,982 2,066,754 CANADA 1936 Quebec) 172,851 678,460 364,718 140,891 British Columbia)

522,690

663.581

1,587,739

2,266,199

193,596

366,447

Ontario

CANADA

871,453

1,236,171

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND

	CAPITA	L EMPLOYED.	1936.	
	Number of	Capital	Number of	Gross selling value
	plants	employed	employees	of products at works
		\$		\$
(a) PRODUCTION				
Under \$10,000	6	29,918	17	36,761
\$10,000 to \$50,000	5	170,477	31	136,607
Over \$50,000	8	2,065,804	372	1,625,832
TOTAL	19	2,266,199	420	1,799,200
(b) EMPLOYEES				
1 to 10	10	163,304	33	133,015
Over 10	9	2,102,895	387	1,666,185
TOTAL	19	2,266,199	420	1,799,200
(c) CAPITAL				
Under \$25,000	9	64,334	28	87,110
\$25,000 to \$100,000	4	203,114	45	266,620
Over \$100,000	6	1,998,751	347	1,445,470
TOTAL	19	2,266,199	420	1,799,200

Table 5 - EMPLOYEE				S, 1935 F EMPLOY		•		TOTAL
Provinces	On S	laries Female	On Wa			Salaries	Wages	SALARIES and WAGES
1075	Male	1 CMAIC	Mare	remare	TOTAL	\$	\$	\$
1 9 3 5 Quebec)	27	5	81	6	119	49,019	77,944	126,963
Ontario	24	13	230	3	270	79,944	216,606	296,550
CANADA	51	18	311	9	389	128,963	294,550	423,513
1936								
Quebec) British Columbia.)	33	6	81	10	130	56,948	77,627	134,575
Ontario	36	12	238	4	290	91,370	231,225	322,595
CANADA	69	18	319	14	420	148,318	308,852	457,170

Table 6 - WAGE-EARNERS, BY MONTHS, 1935 and 1936. (On 15th or nearest representative

	date)						
	1	9 3	5		1 9 3	6	
Months	Male	Female	TOTAL	Male	Female	TOTAL	
January	308	9	317	311	12	323	
February	312	10	322	314	15	327	
March	311	9	320	317	14	331	
April	315	10	325	322	14	336	
lay	315	9	324	323	13	336	
une	322	10	332	324	15	339	
uly	302	8	310	316	15	331	
August	294	10	304	304	15	319	
September	279	10	289	315	13	328	
october	279	10	289	319	14	333	
lovember	325	11	336	324	14	338	
ecember	343	10	353	338	13	351	
AVERAGE	311	9	320	319	14	333	

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Table 7 - FUEL AND ELECTRICITY USED	, 1935				
		1 9			3 6
Kinds Unit			Cost at		Cost at
meas	ure	Quantity		Quantity	
			\$		\$
	t tons	6	85	7	99
	t tons	,		2,292	12,287
	t tons	,	_	13,795	83,692
	t tons	11	87	8	82
	gal.	205,111	9,809	215,366	10,300
Wood cord		6	43	4	28
	.ft.	70	61	189	191
Electricity purchased K.W.	Н.	1,314,403		1,246,048	17,186
TOTAL \$		000	114,604	000	123,865
Table 8 - POWER EQUIPMENT, 1935 and	1936.	9 3 5		1 9 3	6
N	mber		rated Num		al rated
74	units	horse			se power
		110000	2	11.02	DO PONOL
Steam engines and steam turbines .	6		580	7	685
Hydraulic turbines and waterwheels	0.00		0 0 0	1	25
Total Primary Equipment			580	8	710
Electric motors run by purchased					
power	133	1,0	018	142	1,270
TOTAL	139		598	150	1,980
Boilers	19		000	14	1,165
DOTTC1D 000000000000000000000000000000000000	10	. ~ 9	700	7.1	1,100
Table 9 - MATERIALS USED IN MANUFAC	TIRTNG	1935 and	1936		
Z GOZO MILEDECTION ON THE MENTOR IN	. 0 1 0 1 1 0 1	1 9	3 5	1 9	3 6
Materials Un:	it of		Cost at		Cost at
	asure	Quantity		Quantity	works
			\$	424.02.03	\$
Bones, hides and glue stock	ton	18,598	W	23,797	T .
Dextrine					
Flour, tapioca		328,554	16,199	447,911	22,243
Flour, other		1,648,193	42,960	2,989,313	78,079
Glycerine		85,414	11,916	131,473	18,610
Gums		48,461	5,228	27,888	3,161
Lime		740	11,628	819	6,388
Resin		37,398	1,201	72,473	2,366
Rubber		26,361	4,946	22,080	4,242
Shellac		11,100	1,720	10,200	1,700
Soda ash		7,250	142	18,280	393
Solvents (benzol, naphtha, etc.)		50,548	8,094	48,762	8,431
Starch	-	685,175	35,391	635,150	29,422
Sulphur	_	134,000	2,187	118,700	1,963
Sulphuric acid, 66° Be		505,936	6,870	1,180,291	9,869
Tallow		1,570,368	15,704	1,760,177	18,347
All other materials		1,070,000	127,249	191009111	200,156
Bottles, tops, brushes, boxes, etc.			39,220		41,036
TOTAL			550,700	900	813,291
	all line	000	000.100		OTUGADI

Table 10 - PRODUCTS MADE, 1935 and 1936.

10010 10 11000011	3				
		1 9	3 5	1 9	3 6
Products	Unit of	Se	lling value	Se	lling value
	measure	Quantity	at works	Quantity	at works
			\$		\$
Bone and hide glue	lb.	4,145,216	503,900	4,855,379	691,926
Vegetable glue (including					
flexible glue), dry and liqu	uid lb.	4,146,490	262,409	7,237,347	435,317
Other glues (casein, soya bea	an,				
fish, etc.)	XX	0 0 0	91,677		108,843
Grease	1b.	3,296,934	107,419	4,042,486	116,329
Mucilage and paste (xx)	XX	0 0 0	203,871		140,060
All other products (x)	XX	0 + +	266,983		306,725
TOTAL	\$		1,436,259		1,799,200

- (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 \$228,897 in 1936 compared with \$269,525 in 1935.
- (x) Includes liquid solder, sealing wax, mixed fertilizers, poultry food, fox food, raw bone, steamed bone, and other such products which were reported by only one or two firms in this industry.

Table 11 - IMPORTS INTO CANADA AND EXPORTS OF GLUE, MUCILAGE AND PASTE, 1935 and

15	50.			
	1 9	3 5	1 9	3 6
	Quanti ty	Value	Quantity	Value
		\$		\$
(a) IMPORTS				
Clue, vegetable -				
TOTAL IMPORTS	1,210,897	44,575	1,801,329	58,348
From United Kingdom	5,366	363	7,460	604
United States	678,648	29,833	674,477	28,447
Mucilage and adhesive paste -				
	309,595	34,046	346,674	36,082
TOTAL IMPORTS				
From United Kingdom	37,237	5,952	34,011	5,592
United States	269,370	27,883	312,027	30,434
Glue, animal, powdered or sheet -				
TOTAL IMPORTS	1,760,814	135,577	1,851,230	141,064
From United Kingdom	1,429,907	101,380	1,581,507	109,866
United States	179,225	22,022	131,895	19,953
	210,000	22,022	202,000	20,000
Glue, liquid -	300 503	05 000	100 077	77 750
TOTAL IMPORTS	133,571	25,009	197,233	31,158
From United Kingdom	73,208	13,749	121,634	17,021
United States	60,323	11,226	75,599	14,137
(b) EXPORTS				
Glue -				
TOTAL EXPORTS	82,700	14,783	86,400	15,181
To United Kingdom	64,200	11,435	61,100	10,584
United States	7,500	695	6,000	718
	1,000	000	0,000	110
Glue stock -	7 767 700	57 070	9 016 700	20 279
TOTAL EXPORTS	7,767,700	57,072	2,916,300	28,372
To United Kingdom		111	* * * * * * * * * * * * * * * * * * * *	• • •
United States	7,767,700	57,072	2,916,300	28,372

Table 12 - PRODUCTION OF ANIMAL GLUES IN CANADA, 1926 - 1936.

Years	Short tons	Selling value at works	Years	Short tons	Selling value at works
		\$			\$
1926		583,928	1932	1,215	361,201
1927	NOT	726,915	1933	1,181	302,013
1928		759,977	1934	1,437	335,903
1929	AVAIL-	723,315	1935	2,073	503,900
1930		737,117	1936	2,428	691,926
1931	ABLE	659,410			

DIRECTORY OF FIRMS IN THE ADHESIVES INDUSTRY, 1936.

NOTE - The Adhesives Industry includes only the concerns which made adhesives as their main products. Some concerns 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

Auger, F. X. 2 Garagonthie St., St. Malo, P.Q. Boston Blacking Co. of Canada, Limited 1505 Cabot St., Cote St. Paul, Montreal, P.Q.

Bulldog Grip Cement Co. Inc., 2101 Bennett Ave., Montreal, P.Q.

Canada Glue Co. Limited, Brantford, Ont.

Dominion Flour Paste Co., 2122 Champlain St., Montreal, P.Q.

Gypsum, Lime & Alabastine, Canada, Ltd., 1 Strange St., Kitchener, Ont.

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

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

Hercules Glue Co., Bedford, P.Q.

Laucks Laboratories Ltd., 1206 Homer St., Vancouver, B.C.

Machon Sealing Wax Co., 678 Parliament St., Toronto, Ont.

Marquis, F. Canac, Reged., 3 Courcelette St., Quebec, P.Q. Main Products - 1936.

Bone and hide glue; grease and tallow.

Rubber cement and coated cotton duck,

Casein glue; buttermilk powder; casein.

Bone and hide glue; grease; steamed bone; raw bone meal.

Size and liquid glue and paste.

Hide glue; grease.

Bone and hide glue; grease; tankage; fox food; poultry food; hides; tallow; fertilizers.

Marine glue.

Casein glue; size.

Casein and dry vegetable glues.

Sealing wax:

Bone and hide glue; grease and tallow; fertilizers; tankage.

DIRECTORY OF FIRMS IN THE ADHESIVES INDUSTRY, 1936 (concluded)

Name of Firm and Location of Plant

Meredith, Simmons & Co. Limited, 5565 Cote St. Paul, Montreal, P.Q. and 371 Wallace Ave., Toronto, Ont.

Metalite Products, 347 Main St., Toronto, Ont.

Russia Cement Co., 4105 Richelieu St., Montreal, P.Q.

Stuart & Foster, Limited, 361 King St. E., Toronto, Ont.

Toronto Adhesive Co., 27 Jarvis St., Toronto, Ont.

Wolverine Cement Co., 99 Grand River Ave., Brantford, Ont. Main Products - 1936.

Liquid and dry vegetable glue; size; bone and hide glue; liquid and dry paste; grease.

Liquid solder and transparent cement.

Paste and mucilage; liquid solder.

Vegetable glue; paste; size; casein glue; mucilage; binders.

Bone and hide glue; liquid vegetable glue; laminated board; flexible glue.

Linoleum cement, and wax.

STATISTICS GANADA LIPRAR/ FIGURIFICADO STATISTICAL CANADA 1010681707