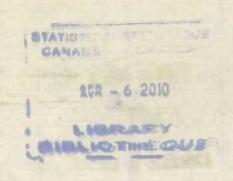
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CANADA

#### DOMINION BUREAU OF STATISTICS

R. H. COATS, Dominion Statistician



THE GLUE INDUSTRY
IN CANADA IN 1918

Advance Chapter of

"Chemicals and Allied Products in Canada in 1918"

Prepared under the direction of

S. J COOK,

Chief of the
MINING, METALLURGICAL
and CHEMICAL Division

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#### DOMINION BUREAU OF STATISTICS

MINING, METALLURGICAL and CHEMICAL Division.

# THE CLUB INDUSTRY IN CANADA

Eleven plants in Canada made glue and mucilage in 1918. They produced fish glue and other glues having a selling value at the factory of \$897.353; wet paste and other adhesives worth \$23,145; and other products and by-products such as grease, fertilizer, neatsfood oil, etc., to a value of \$544,665. The total production for the year was valued at \$1,465,163.

of the eleven firms, five were in Ontario, four in Quebec, and one in each of the provinces of New Brunswick and Nova Scotia.

The total investment in land, buildings, fixtures, machinery and tool was \$816,420; materials on hand, stocks in process, finished products, fuel and miscellaneous supplies on hand, \$342,640; while the cash trading and operating accounts and bills receivable amounted to \$403,026, making the total assets at the end of the year \$1,562,086.

#### EMPLOYEES, SALARIES AND WAGES

The average number of persons finding employment in this industry during the year was 315, of whom 49 were salaried employees and 266 wage-earners. The total payment in salaries and wages was \$4295,364, a per capita payment of \$937,66.

The following table shows the distribution of employees in December, the month in which the largest number of employees were engaged.

#### CLASSIFICATION OF EMPLOYEES

SALARIED EMPLOYEES:	Male	Female
Officers, superintendents & Managers Clerks, stenographers, and other	14	
salaried employees	28 42	7 7
"AGE-EARNERS: receiving per week,		
Dess than \$10	76 98 77 6	10 5
WORKS SUB-TOTAL	273	15
GRAND TOTAL	315	22

The total value of fuel used in the manufacture of glues, exclusive of any supplied to employees, was \$84.968, of which the larger portion or \$83,237 was paid for 12,903 tons of bituminous coal of various grades. The following table shows the source, quantity and cost at the works of the different kinds of fuel used.

	FUEL USED		
Unit Measu Sho	of CANADIAN requantity Cost at Works	Quantity FOREI	Cost at Works
Bituminous Coal, slack To " , lump " Coke	ns 108 \$ 775 988 8,760 50 450 mp.gals1000 320	7#737 2,554 1,516 174	45,223 13,335 15,144 834
TOTAL			\$74,536

### MATERIALS USED

A large part of the glue stock used was obtained as a byproduct from the leather tanning industry. A separate chapter has
been prepared covering the manufacture of leather, but the by-products
of the tannery enter so largely into the materials used in the
manufacture of glue that the reader who is interested in the general
subject is referred to both publications.

The following table shows the kind and cost at the works of the materials used.

	arts Durier 6500 Philip Dallip Mallip Stepp gauge Shillip artery gains ga a s
KIND	CCST AT_WORKS
Fish products	. \$ 14,820
Fleshings	. 100,600
Glue stock	. 397,552
Starch	. 36,811
Chemicals	31,485
Guns	1,825
All other materials	
TOTAL COST OF MATERIALS USED	\$812,923

That the vagueness of the terms "chemicals" and "all other materials is unsatisfactory is admitted, but it is to be pointed out that no oetter detail has been furnished by the firms reporting and as a consequence, the items have to stand. In subsequent reports, the Bureau will likely be able to furnish more detailed statistics which in turn will serve to inform the trade more accurately regarding this industry.

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#### PRODUCTS

Animal glues predeminate among the products although the manufacture of fish glue in Canada reaches quite respectable proportions, amounting, as it did in 1918 to over \$180,000 in value.

The next table shows the products manufactured, with their selling value at the works:

	PRODUCTS	VALUE	
	Fish Glue		
	Other Glue		
	Fish Scrap		
	Grease	319,159	
	Fertilizer	93,209	
	Dextrine	17,459	
	Size	16,114	
	Gum	8,176	
	Veatsfoot oil	7,537	
1	Wet paste and other adhesives	23, 145	
1	all other products		
	COTAL VALUE OF PRODUCTS	\$3,465,3.63	-

#### TIMPORTS AND EXPORTS

During the calendar year 1918, 387,736 pounds of glue, powdered or in sheets was imported for consumption in Canada. Liquid glue valued at \$151,039, mucilage and paste at \$62,210, and fish offal and refuse at \$33,425 were also imported during the same period.

Exports of glue stock during the year amounted to \$77,690 in value.



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