CANADA

DOMINION BUREAU OF STATISTICS

R. H. COATS,
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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
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DEPARTMENT OF TRADE AND COMMERCE
CANADA

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THE GLUE INDUSTRY IN CANADA
in
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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, neatsfoot 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 tools 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 $295,364, 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	14	...
Clerks, stenographers, and other salaried employees.....	28	7
OFFICE SUB-TOTAL.....	42	7
WAGE-EARNERS: receiving per week,		
Less than $10.....	76	10
$10 but less than $15.....	98	5
$15 but less than $20.....	47	...
$20 but less than $25.....	26	...
$25 and over.....	26	...
WORKS SUB-TOTAL.....	273	15
GRAND TOTAL.....	315	22

FUEL

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 of Measure	CANADIAN Quantity	CANADIAN Cost at Works	FOREIGN Quantity	FOREIGN Cost at Works
Bituminous Coal, slack	Short Tons	108	$ 775	7,737	$ 45,223
" " , lump	"	...	...	2,554	13,335
" " run of mine	"	988	8,760	1,516	15,144
Coke	"	50	450	174	834
Gasoline	Imp.gals	1000	320	...	...
Gas	1000 cu.ft.	242	127	...	...
TOTAL			$10,432		$74,536

MATERIALS USED

A large part of the glue stock used was obtained as a by-product 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.

KIND	COST AT WORKS
Fish products	$ 14,820
Fleshings	100,600
Glue stock	397,552
Starch	36,811
Chemicals	31,485
Gums	1,825
All other materials	229,830
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 better 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.

PRODUCTS

Animal glues predominate 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	$182,082
Other Glue	715,271
Fish Scrap	9,000
Grease	319,159
Fertilizer	93,209
Dextrine	17,459
Size	16,114
Gum	8,176
Neatsfoot oil	7,537
Wet paste and other adhesives	23,145
All other products	74,011
TOTAL VALUE OF PRODUCTS	$1,465,163

IMPORTS AND EXPORTS

During the calendar year 1918, 887,736 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.
