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REPORT

on the

STARCH & GLUCOSE INDUSTRY

in

CANADA

1924

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Published by Authority of the Hon. J. A. Robb, M. P.,
Acting Minister of Trade and Commerce.

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OTTAWA - CANADA

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 Chief, Census of Industry: J. C. Macpherson.

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1924.

Ottawa, November 20th. A report on the Starch and Glucose Industry is herewith presented for the calendar year 1924. Returns were received from 7 individual factories, located by provinces as follows:- Prince Edward Island 4, Ontario 2 and Quebec 1. Statistics of the industry for Ontario and Quebec have been combined throughout this report in order to avoid the disclosure of the operation of individual plants.

Principal Statistics, by Provinces, 1924.

A summary of the principal statistics relating to this industry is shown by provinces in Table 1. The total value of production increased from \$5,135,103 in 1923 to \$5,182,291 in 1924 notwithstanding a decrease of one in the number of operating plants.

Table 1. Principal Statistics of the Starch and Glucose Industry,
by Provinces, 1924.

Principal Statistics		Canada	P. E. Island	Ontario & Quebec
Establishments reporting	No.	7	4	3
Capital invested	\$	4,803,122	72,657	4,730,465
Employees on salaries				
Males	No.	42	2	40
Females	No.	26	-	26
Total salaries	\$	144,879	650	144,229
Employees on wages, Average				
Males	No.	461	10	451
Females	No.	27	1	26
Total wages	\$	505,101	4,507	500,594
Cost of fuel	\$	227,650	2,983	224,667
Power equipment				
Units	No.	13	5	8
Capacity	H.P.	2,055	120	1,935
Cost of materials	\$	3,625,350	5,27	3,627,163
Gross value of products	\$	5,241,908	59,617	5,182,291
Net value of products	\$	1,576,558	21,430	1,555,128

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1924.

Production Statistics

The quantity and selling value at the factory of the various products of this industry are shown in table 2 by provinces. Increases in the quantity of production will be noted in each of the following commodities: edible corn starch (4,651,277 lb.), potato starch (832,726 lb.), corn syrup (895,191 lb.), and corn oil (115,172 lb), whilst decreases appear in laundry starch (4,248,095 lb.), glucose (1,484,486 lb.), grape sugar (30,511 lb.) and gluten (443,628 lb.). In value of production increases will be noted in edible corn starch (\$239,737), potato starch (\$34,969), glucose (\$97,694), grape sugar (\$5,112), gluten (\$12,151) and all other products (\$23,605), whilst decreases appear in the value of laundry starch (\$243,184) corn syrup (\$28,222), and corn oil (\$34,559), the net increase in the total value of products being \$106,805.

Table 2. Production, by provinces, 1924.

Classes of Products	Canada		P.E. Island		Ontario & Quebec	
	Quantity	Selling Value \$	Quantity	Selling Value \$	Quantity	Selling Value \$
Edible corn starch lb.	16,261,799	916,756	-	-	16,261,799	916,756
Laundry starch "	8,607,252	483,564	-	-	8,607,252	483,564
Potato starch "	1,322,600	59,617	1,322,600	59,617	-	-
Glucose or dextrose "	40,830,576	1,706,674	-	-	40,830,576	1,706,674
Grape sugar "	2,015,921	77,935	-	-	2,015,921	77,935
Corn syrup "	16,073,581	804,966	-	-	16,073,581	804,966
Corn oil "	4,706,852	542,756	-	-	4,706,852	542,756
Gluten "	32,948,156	571,446	-	-	32,948,156	571,446
All other products -	-	78,194	-	-	-	78,194
Total Value	-	5,241,908	-	59,617	-	5,182,191

Capital Investment.

The amount of capital invested in the industry during the calendar year 1924 is shown by provinces in Table 3 divided as between fixed capital including land, buildings, machinery and tools and working capital including materials on hand, finished products on hand, fuel and miscellaneous supplies on hand and cash, trading and operating accounts etc. Compared with 1923 there was an increase in total capital invested of \$422,943.

Table 3. Capital Investment, by Provinces, 1924.

Items of Capital	Canada	Prince Edward Island	Ontario and Quebec
Fixed capital -			
Land, buildings and fixtures, machinery and tools & total fixed	2,783,652	33,800	2,749,852
Working capital -			
Materials and stocks on hand, fuel, etc.	1,244,231	26,200	1,218,031
Cash trading and operating accounts, etc.	775,239	12,657	762,582
Total working capital	2,019,470	38,857	1,980,613
Grand total of capital	4,803,122	72,657	4,730,465

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1924

Employment Statistics

Table 4, 5 and 6 present statistics of employment under three heads. Table 4 shows the number of persons employed according to classes, sex and remuneration by provinces, table 5 the number of wage-earners employed by month according to sex and Table 6 the operating time of plants and employees.

Employees, salaries and wages: The number of persons employed in the industry in the Dominion in 1924 on salaries was 68 with salaries totalling \$144,879. Wage-earners totalled 488 in number and \$505,191 for wages. Employment was highest in Ontario and Quebec and lowest in Prince Edward Island, the industry in that province being a seasonal one.

Table 4. Employees, Salaries and Wages, by Provinces, 1924.

	Salaried employees			Wage-earners			Total employees			Total salaries and wages
	Male	Female	Total	Male	Female	Total	Male	Female		
	No.	No.	\$	No.	No.	\$	No.	No.	\$	
Canada	42	26	144,879	461	27	505,191	503	53	649,980	
Prince Edward Island	2	-	650	10	1	4,507	12	1	5,157	
Ontario and Quebec	41	26	144,229	451	26	500,594	491	52	644,823	

Employment by months:- The number of persons at employment by months is shown in Table 5, for the Dominion. The months of highest employment were from September to November and those of lowest employment June and July. The average male employment throughout the year was 461 and female employment 27.

Table 5. Employment by months, 1924.

Months	Wage-earners		Months	Wage-earners	
	Male	Female		Male	Female
January	463	30	July	432	33
February	466	25	August	450	31
March	458	27	September	468	26
April	467	28	October	478	18
May	464	28	November	512	25
June	434	29	December	438	26
Total by months				5,528	327
Average monthly employment during year				461	27

Working time:- Table 6 shows the totals and averages of the working time of plants and employees during the calendar year 1924. Owing to the seasonal nature of the plants making potato starch the average working time of plants is reduced by one half.

Table 6. Working time of Plants and Employees, 1924.

Establishments in operation	7	
	Total	Average
Days in operation on full time	930	132.86
Days in operation on part time	-	-
Days idle	1,198	171.14
Hours worked per day or shift by wage-earners	5,480	9.4
Hours worked per week by wage-earners	402	57.4

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1924.

Fuel Consumption

The consumption of fuel is shown in Table 7 by classes, quantity and cost value delivered at the factory. Coal of all kinds represented nearly 97 per cent of the cost of all fuel used during the year. The only others reported were fuel oil, to the value of \$6,919 and wood to the value of \$37.

Table 7.- Fuel Consumption, 1924.

Kinds of fuel		Quantity	Cost Value \$
Bituminous coal	ton.	39,157	214,070
Anthracite coal	ton.	1,034	6,624
Fuel oil	Gal.	60,000	6,919
Wood	Cord	10	37
Total cost of fuel used		-	227,650

Power Equipment

The power equipment employed in the Starch and Glucose industry in the Dominion in 1924 is given in Table 8, according to manufacturers' rating. The cost reported for electricity purchased during the year was \$422, an average of \$28. per horsepower of motors operated by purchased power. There was an increase of 9 in the total number of motors and of 98 in rated horsepower as compared with 1923.

Table 8.- Power Equipment, 1924.

Description	Number of Units	Horse power accord- ing to mfrs.' rating
Steam engines	10	2,040
Total primary power equipment	10	2,040
Electric motors operated by purchased power	3	15
Total power used in manufacturing	13	2,055
Electric motors operated by power generated by establishment	189	2,547
Total Electric motors	202	4,602

There were 18 boilers installed for steam heating and other purposes with an aggregate boiler h.p. capacity of 3,320.

Materials Used

The quantity and the value of the different classes of materials used during 1924 were not asked for on the questionnaire for that year, only the total cost of all materials being required, which for the year in question amounted to \$3,665,350. The importance of the information regarding materials being recognized it is the intention to resume its collection in future questionnaires.

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1924

Imports and Exports

The quantity and value of starch and similar preparations are shown in table 9 for imports and in Table 10 for exports. The total value of imports for consumption in Canada for the calendar year 1924 was \$556,976 as compared with \$462,750 in 1923. Exports of goods the produce of Canada were valued at \$28,219 in 1924 as against \$18,899 in 1923.

Table 9. Imports by Classes, Countries, Quantity and Value, 1924.

Articles imported by countries	Quantity Lb.	Value \$
Starch, including farina, corn starch, potato starch, potato flour and similar preparations -		
United Kingdom	178,347	11,234
United States	2,381,058	117,191
Netherlands	1,905,051	69,857
Other Countries	30,108	2,125
Total	4,494,564	200,407
British gum, dry sizing cream and enamel sizing -		
United Kingdom	113,084	4,162
United States	452,900	30,951
Total	565,984	35,113
Dextrine, dry		
United Kingdom	7,834	542
United States	3,272,478	263,608
Netherlands	78,146	3,383
Other Countries	97,981	4,676
Total	3,456,439	172,209
Glucose or grape sugar, glucose syrup and corn syrup or any syrups containing admixtures thereof -		
United Kingdom	24,573	2,068
United States	3,594,210	147,179
Total	3,618,783	149,247

Table 10. Exports of Canadian Produce by Countries, Quantity and Value, 1924.

Articles Exported by Countries	Quantity Lb.	Value \$
Corn Starch -		
United Kingdom	14,000	318
New Zealand	387,580	27,310
Other Countries	600	48
Total	402,180	27,676
Potato starch -		
Other Countries	2,230	172
Glucose or glucose syrup -		
Other Countries	-	271
Total Value of Exports	-	28,119

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