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REPORT

on the

STARCH & GLUCOSE INDUSTRY

in

CANADA

1923

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CENSUS OF INDUSTRY

OTTAWA, CANADA

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THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1923

Ottawa, April 1925.- A report is herewith presented on the Starch and Glucose Industry in Canada for the calendar year 1923. Reports were received from 8 establishments 4 of which were located in the province of Prince Edward Island, 2 in Ontario, 1 in Quebec and 1 in British Columbia. Statistics for Ontario, Quebec and British Columbia have been combined in order not to disclose the operations of any individual establishment, and are presented under the heading of "Other Provinces."

PRINCIPAL STATISTICS

A summary of the principal statistics of the industry is given by provinces in Table I.

Table I.- Principal Statistics by provinces - 1923

	Canada	Prince Edward Island	Other Provinces x
Establishments.....No..	8	4	4
Capital investment.....\$	4,380,179	34,856	4,345,323
Employees on salaries - Male.....No.	53	1	52
Female.....No.	31	-	31
Salaries.....\$	182,936	150	182,786
Employees on Wages (average number)-			
Male.....No.	468	6	462
Female.....No.	27	1	26
Wages.....\$	471,197	2,078	469,119
Cost of fuel.....\$	265,805	869	264,936
Power Installation - Units.....No.	191	3	188
" " Capacity.....H.P.	4,494	75	4,419
Miscellaneous expenses.....\$	557,728	2,069	555,659
Cost of Materials.....\$	3,146,245	5,364	3,140,881
Value of Products.....\$	5,135,103	10,088	5,124,915
Value added by manufacture.....\$	1,988,858	4,724	1,984,134

x Includes,- Ontario 2; Quebec 1; British Columbia 1.

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1923

PRODUCTION

The quantity and value of the various products of the industry will be found by provinces in Table II for the calendar year 1923. There was a considerable increase in the value of products, the amount reported for the year 1922 being \$3,871,977 whilst for the period covered by this report, the total value was \$5,135,103, an increase of \$1,263,126 over the two year period.

TABLE II.- Production by Provinces - 1923

Principal Products	CANADA		P. E. ISLAND		OTHER PROVINCES	
	Quantity	Value \$	Quan.	Value \$	Quantity	Value \$
Edible corn starch.....lb	11,610,522	677,019	-	-	11,610,522	677,019
Laundry starch (corn)... "	12,855,347	726,748	-	-	12,855,347	726,748
Potato Starch..... "	490,874	25,148	228,900	10,088	261,974	15,060
Glucose or dextrose..... "	42,315,062	1,608,980	-	-	42,315,062	1,608,980
Grape sugar..... "	2,046,432	72,823	-	-	2,046,432	72,823
Corn syrup..... "	15,178,390	833,188	-	-	15,178,390	833,188
Corn oil..... "	4,591,680	577,313	-	-	4,591,680	577,313
Gluten..... "	33,391,784	559,295	-	-	33,391,784	559,295
All other products..... -	-	54,589	-	-	-	54,589
TOTAL	-	5,135,103	-	10,088	-	5,125,015

CAPITAL INVESTMENT

The capital employed in the industry during the calendar year 1923 is shown in Table III by provinces. The total capitalization in 1922 was reported at \$5,874,843 whilst for 1923 the amount was \$4,380,179 a decrease of \$1,294,664. To this decrease fixed capital contributed \$336,662 whilst working capital was accountable for \$958,002.

TABLE III.- Capital Employed by Provinces - 1923

Items of Capital	CANADA	PRINCE EDWARD ISLAND	OTHER PROVINCES
Land, buildings and fixtures.....	2,048,010	27,156	2,020,854
Machinery and tools.....	1,436,022	7,000	1,489,022
Total fixed capital	3,544,032	34,156	3,509,876
Materials on hand, stocks in process.	513,010	700	513,310
Cash, trading and operating accounts and bills receivable.....	323,137	-	323,137
Total working capital	836,147	700	835,447
Total Capitalization	4,380,179	34,856	4,345,323

EMPLOYEES, SALARIES AND WAGES, 1923

The number of persons employed in the industry during the calendar year 1923 is shown in Table IV by (a) classes of employment (b) sex and (c) salary and wage payments. The total number of employees in all classes rose from 523 in 1922 to 579 in 1923. Also there was a corresponding increase in expenditure on account of salaries and wages over the two year period,- the amount reported for 1922 being \$515,502 whilst for 1923 the total reached \$654,133, an increase of \$138,631

TABLE IV.- Employees, Salaries and Wages - 1923

Classes of employment	Male No.	Female No.	Salaries and wages \$
Salaried Officers of corporations.....	9	-	47,020
General superintendents, managers.....	7	-	26,800
Technical experts, chemists, accountants.	7	-	16,377
Clerks, stenographers, salesmen, etc....	30	31	92,739
Employees on wages (average number)....	468	27	471,197
Total	521	58	654,133

OTHER EMPLOYMENT STATISTICS

The number of days the establishments were in operation during the calendar year 1923 together with the number of hours per day or shift and per week normally worked by wage earners is shown in Table V(a). The number of wage earners employed throughout the year is given by sex and by months in Table V(b). The maximum number employed was 557 in the month of May whilst the minimum number reported was 407 in August.

TABLE V(a).— Days in Operation and Hours worked - 1923

Number of Establishments in Operation	8	
	Total	Average
Days in operation on full time.....	885	110.6
" " " " part time.....	60	7.5
Days idle.....	1,487	185.9
Hours worked by wage earners - per day or shift.....	75	9.4
Hours worked by wage earners - per week.....	436	54.5

TABLE V(b).—Wage Earners by Months - 1923

Months	Male No.	Female No.	Months	Male No.	Female No.
January	468	29	July	449	34
February	482	9	August	404	3
March	492	27	September	414	28
April	480	28	October	496	29
May	520	37	November	466	30
June	497	38	December	451	30
Total				5,619	322
Average number employed during the year				468	27

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1923

MATERIALS USED

The quantity and value of the various materials used in the industry is given by provinces in Table VI for the calendar year 1923. The total value of all materials used during the year 1922 was \$2,242,282. The amount reported for the year 1923 was \$3,146,245, an increase of \$903,963. There was an increase in the cost value of most of the materials over the two year period with the exception of corn, potatoes, cane syrups and hydrochloric acid.

TABLE VI.- Materials Used by Provinces - 1923

Principal Materials.	CANADA		P. E. ISLAND		OTHER PROVINCES	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Corn.....lb.	128,478,000	2,199,785	-	-	128,478,000	2,199,785
Corn starch....."	817,217	44,621	-	-	817,217	44,621
Potatoes....."	2,030,400	6,914	1,473,400	5,253	552,000	1,656
Sugar....."	125,200	11,730	-	-	125,200	11,730
Cane syrup for mixing....."	1,161,012	37,585	-	-	1,161,012	37,585
Boneblack (purchased)....."	333,775	13,731	-	-	333,775	13,731
Hydrochloric acid....."	460,596	8,212	-	-	460,596	8,212
Sulphuric acid, 50° Be.....-	-	115	-	-	-	115
Other chemicals.....-	-	20,806	-	-	-	20,806
Containers, boxes, barrels, etc.....-	-	637,759	-	106	-	637,653
All other materials.....-	-	164,987	-	-	-	164,987
TOTAL	-	3,146,245	-	5,364	-	3,140,881

POWER INSTALLATION

The power installed in the industry for the calendar year 1923 is given in Table VII by (a) classes of power, (b) number of units in each class and (c) horse-power capacity according to manufacturers' rating. The total number of units rose from 179 in 1922 to 191 in 1923, an increase of 12, whereas the capacity fell from 5,652 horse-power in 1922 to 4,494 horse-power in 1923, a decrease of 1,158 horse-power over the two year period.

TABLE VII .- Power Installed - 1923

Classes of power	No. of Units	H.P. Capacity
Steam engines and turbines.....	9	3,030
Electric motors operated by power generated at the factory.	178	3,443
" " " " purchased power...	4	22
Total	191	4,494

FUEL CONSUMPTION

The quantity and value of the various kinds of fuel consumed in the industry during the calendar year 1923 is given in Table VIII. The total cost of all fuel fell from \$289,684 in 1922 to \$265,805 in 1923, a decrease of \$23,879. Bituminous coal takes first place in importance with \$252,460 followed by anthracite coal with \$8,283, whilst fuel oil occupies third position with \$4,510.

TABLE VIII.- Fuel Consumption - 1923

Kinds of fuel	Unit of Measure	Quantity	Value
Bituminous coal.....	ton	38,964	252,460
Anthracite coal.....	"	1,048	8,283
Gasoline.....	gallon	1,300	440
Oil (fuel).....	"	51,386	4,510
Wood.....	cord	30	112
Total	-	-	265,805

MISCELLANEOUS EXPENSES

The miscellaneous expenses or overhead charges incurred in the industry during the calendar year 1923 amounted to \$557,728 which was an increase of \$31,226 over the amount reported for the previous year. Miscellaneous expenses include rents, taxes of all kinds, insurance premiums, telephone and postal charges, advertising and travelling expenses and repairs to buildings and machinery.

THE STARCH AND GLUCOSE INDUSTRY IN CANADA, 1923

IMPORTS AND EXPORTS

The quantity and value of the various products of the industry, imported into and exported from Canada during the calendar year 1923 will be found in Table IX.

Table IX(a).- Imports of Starch and Glucose, etc. by countries - 1923

Articles Imported	UNITED KINGDOM		UNITED STATES		OTHER COUNTRIES	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
British gum, dry sizing, cream and enamel sizing.....lb.	141,904	7,253	370,778	52,448	-	-
Dextrine, dry.....lb.	584	69	2,737,774	130,602	161,364	6,669
Starch, including farina corn and potato starch.....lb.	84,743	4,935	2,427,740	109,068	997,273	30,666
Glucose or grape sugar, glucose syrup or any other admixture thereof.....lb.	17,920	1,902	3,023,423	119,071	317	17
Total	245,151	14,209	9,059,715	411,189	1,158,954	37,352

Table IX(b).- Exports of Starch and Glucose, etc. by countries - 1923

Articles exported	UNITED KINGDOM		UNITED STATES		OTHER COUNTRIES	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Corn starch.....lb.	-	-	-	-	271,630	18,531
Potato starch.....lb.	-	-	500	30	300	64
Glucose or glucose syrup.....	-	-	-	-	-	274
Total	-	-	500	30	272,430	18,869

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