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REPORT
on the
SUGAR INDUSTRY

in
CANADA
1922

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OTTAWA

1924

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

OTTAWA, CANADA

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THE SUGAR INDUSTRY IN CANADA, 1922.

Ottawa, February, 1924.- The Dominion Bureau of Statistics presents herewith a report on the Sugar industry in Canada for the calendar year 1922. In order to prevent disclosure of statistics relating to individual plants, the information is not available by provinces, as the following statement of the location of refineries will indicate: British Columbia, 1; Ontario, 2; Quebec, 2; New Brunswick, 1 and Nova Scotia, 1.

COMPARATIVE STATISTICS

The accompanying table gives the principal statistics of the industry for the Dominion for the calendar years 1918 to 1922.

Principal Statistics, 1918 - 1922.

	1922	1921	1920	1919	1918
Establishments No.	7	7	8	8	8
Capital invested \$	36,691,472	35,783,067	46,719,034	38,725,542	37,256,851
Employees on Salaries -					
Male No.	271	280	377	385	270
Female ... No.	46	53	68	51	63
Salaries . \$	773,366	765,456	1,029,930	883,709	576,489
Employees on Wages -					
Male No.	2,331	2,042	2,573	2,923	2,116
Female ... No.	97	94	100	132	109
Wages \$	2,492,606	2,417,438	3,602,884	3,294,185	2,050,400
Cost of fuel \$	1,918,987	1,810,176	2,807,861	2,083,315	1,560,218
Miscellaneous expences ... \$	6,149,384	4,768,134	7,270,267	6,374,053	3,856,131
Cost of materials .. \$	56,093,942	56,882,242	103,689,088	86,308,204	45,403,037
Value of products and by-products. \$	70,822,782	69,509,827	119,086,731	102,630,086	58,812,219

2

THE SUGAR INDUSTRY IN CANADA, 1922.

SUGAR PRODUCTION, 1918 - 1922, COMPARED BY CLASSES

The quantity of sugar produced annually by classes is shown in the following summary for the five year period beginning with 1918. The acreage of Canadian grown beets is also shown by quantity and value for the same period.

Sugar Production, 1918-1922

Unit	1922	1921	1920	1919	1918
Granulated Sugar -					
From Cane lb.	1,006,099,197	636,446,914	604,178,160	823,213,445	601,848,130
From Beets lb.	29,911,770	52,862,377	89,280,719	37,839,342	50,092,835
Total Value, Granulated . \$	63,518,155	60,185,249	104,697,061	86,423,297	57,080,353
Soft sugar -					
From Cane lb.	112,093,407	94,754,353	88,760,215	156,005,630	1
Total Value, Soft sugar . \$	6,148,861	8,442,174	12,649,281	14,288,582	1
Total quantity, all sugar lb.	1,148,104,374	784,063,644	782,219,094	1,017,058,417	651,940,965
Total value of all sugar \$	69,667,016	68,627,423	117,346,342	100,711,879	57,080,353

Beet Production, 1918-1922.

Unit	1922	1921	1920	1919	1918
Acreage ac.	14,955	25,335	34,491	18,800	18,000
Total yield ton	127,807	199,334	343,000	180,000	204,000
Total value \$	966,522	1,974,384	5,307,243	2,630,027	2,593,715

¹ Indicates that quantity or value was not reported.

THE SUGAR INDUSTRY IN CANADA, 1922

IMPORTS AND EXPORTS

The following tables show respectively the quantity and value of sugar and molasses imported into Canada and exported from Canada during the calendar years 1918, 1919, 1920, 1921 and 1922.

Imports for Consumption, 1918-1922.

Articles	Unit	1922	1921	1920	1919	1918
Sugar, n.o.p. not above No.16 D.S. in colour, etc.....	lb. \$	1,197,609,110 33,822,577	749,163,894 54,381,011	771,187,636 75,198,252	1,059,175,934 60,639,545	657,846,109 31,000,376
Sugar, above No.16 D.S. in colour, when imported by sugar refineries only	lb. \$	1 1	1 1	9,684,531 1,375,932	716,984 58,058	74,632 5,176
Sugar above No.16 D.S. in colour, n.o.p. and all refined sugar of whatever kind grade or standard	lb. \$	2,654,178 96,685	20,571,959 2,051,780	1 1	1 1	1 1
Sugar cane, shredded	lb. \$	1 2,050	1 1,874	1 1,476	1 187	1 275
Glucose, glucose syrup, corn syrup, etc.....	lb. \$	5,187,973 141,899	6,094,036 211,414	3,430,553 269,497	2,345,905 151,183	2,852,516 169,362
Molasses of cane testing under 35 degrees but not less than 20 degrees	gal. \$	153,048 33,832	244,914 30,312	549,535 124,658	534,000 106,740	471,900 132,025
Molasses produced in the manufacture of cane sugar, not less than 35 degrees and not more than 56 degrees	gal. \$	103,973 30,416	237,961 117,566	92,759 67,877	142,221 47,935	162,298 50,919
Molasses testing over 56 degrees	lb. \$	1 1	1 1	1 1	1 1	109,332 3,021
Molasses testing not more than 56 degrees to produce of any British Country	gal. \$	5,292,181 2,417,797	2,807,033 1,521,931	5,571,410 6,298,303	5,744,591 3,580,674	5,856,649 3,214,453
Molasses and syrups of all kinds, the product of the sugar cane or beet, n.o.p.	lb. \$	8,456,450 247,049	4,201,278 184,940	10,528,959 452,949	8,421,437 287,642	5,557,641 225,161

1 Indicates that quantity or value was not reported.

THE SUGAR INDUSTRY IN CANADA, 1922.

IMPORTS AND EXPORTS (Continued).

Exports of Canadian Produce, 1918 - 1922 inclusive

Articles	Unit	1922	1921	1920	1919	1918
Sugar, all kinds, n.o.p.	lb.	316,651,937	86,765,970	69,014,171	242,972,128	2,324,818
	\$	20,566,055	7,383,245	12,278,795	22,113,389	178,374
Molasses and syrups, n.o.p.	gal.	1,064,188	1,004,921	1	1	1
	\$	31,319	59,002	247,607	749,758	1
Sucrose syrup	gal.	1	1	232,779	216,955	1
	\$	1	1	104,903	89,988	1
Glucose and glucose syrups	\$	19,257	11,581	1	1	1

* Indicates that quantity or value was not reported.

THE SUGAR INDUSTRY IN CANADA, 1922.

PRODUCTION

The quantity and value of the output of the sugar factories of the Dominion are shown in Table 1 of this report for the calendar year 1922.

Table 1.- Sugar Production, 1922.

	Unit	Made for Sale	
		Quantity	Selling Value at Factory
Granulated sugars -			
From Cane	lb.	1,006,099,197	
From Beets	lb.	29,911,770	63,518,155
Soft sugars	lb.	112,093,407	6,148,861
Syrup	gal.	606,015	368,773
Molasses	gal.	2,918,628	606,075
Dried beet pulp for feed	ton	5,318	142,108
All other products and by-products	-	-	38,810
TOTAL VALUE OF ALL PRODUCTS AND BY-PRODUCTS			\$70,822,782

CAPITAL INVESTMENT

The capital invested in the industry is shown by items in Table 2. The first two items relate to capital of a fixed character and the latter two to what may be described as working capital of a more or less fluctuating character. There was an increase in the total capital invested in 1922 of \$908,405 over 1921.

Table 2.- Capital Investment, 1922.

Items of Capital	Amount
Lands, buildings and fixtures	12,861,179
Machinery and tools	12,289,660
Materials on hand, stocks in process, etc... Cash, trading and operating accounts, etc...	6,951,082 4,589,551
Total Investment	\$36,691,472

EMPLOYEES, SALARIES AND WAGES

Employment statistics are presented in Table 3 for the Dominion, by classes, sex and remuneration. Compared with 1921 salaried officers and employees decreased in number by 16, but show an increase in salary payments of \$7,910, whilst employees on wages increased during the period by 292 in number and by \$75,168 in the amount paid for wages.

Table 3.- Employees, Salaries and Wages, 1922.

Classes of Employees	No. of Employees		Salaries and Wages
	Male	Female	
Salaried officers of corporations ..	15	-	\$198,330
General superintendents, managers ..	14	-	82,300
Technical experts, engineers, chemists, accountants	28	-	84,625
Clerks, stenographers, salesmen and other salaried employees	214	46	408,111
Wage earners, average number	2,331	97	2,492,606
TOTAL	2,602	143	3,265,972

THE SUGAR INDUSTRY IN CANADA, 1922.OTHER LABOUR STATISTICS

Statistics of the working time of plants and employees are shown for the Dominion in Table 4. The time plants were in operation is shown under three heads: (a) on full time (b) on part time and (c) idle. The working time of employees is shown by the number of hours worked per day and per week.

Table 4.- Working time, 1922.

Number of plants	7
Days plants were in operation -	
On full time	1,776
On part time	56
Idle	296
Hours worked by employees -	
Per day	73
Per week	434
Averages per plant of -	
Days in operation	261.71
Hours worked per day	10.43
Hours worked per week	62.00

FUEL CONSUMPTION

Table 5 gives the quantity and cost value delivered at the factory or works of the various classes of fuel used during the year. Bituminous coal formed 65 per cent of the total fuel consumed and fuel oils approximately 33 per cent.

Table 5.-Fuel Used, 1922.

Classes of fuel	Unit of measure	Quantity	Cost value at factory
Bituminous coal	ton	206,135	\$ 1,250,412
Anthracite coal	"	658	5,058
Coke	"	2,660	32,663
Fuel oils	gal.	14,532,360	629,854
TOTAL COST OF FUEL			1,913,987

POWER EMPLOYED

The classes of power employed in the industry during 1922 are shown in Table 6 by (a) the number of units of each class and (b) the horsepower according to the manufacturer's rating. Steam with 12,332 horsepower and electric power with 13,070 horsepower were the only powers reported. The number of boilers and their horsepower are included in the table.

Table 6.- Power employed, 1922.

Description	No. of Units	H.P. according to mfr's. rating
Steam engines and turbines	127	12,332
Electric motors -		
Operated by owned power	475	4,651
Operated by rented power	390	8,419
TOTAL POWER INSTALLATION	992	25,402
Boilers installed	78	26,994

7.

THE SUGAR INDUSTRY IN CANADA, 1922.

MISCELLANEOUS EXPENSES

The total cost of overhead or miscellaneous expenses, including rents, taxes, travelling and advertising expenses, insurance, repairs to buildings and machinery, and sundry other expenses incurred during the year was \$6,149,384.

MATERIALS USED

The quantity and cost value delivered at the works of the various classes of materials used in the industry for the calendar year 1922 is presented in Table 7.

Table 7.- Materials Used, 1922.

Classes of materials	Unit of measure	Quantity	Cost value at works
Raw sugar	lb.	1,185,662,244	52,365,226
Sugar beets	ton	127,807	966,522
Boneblack, purchased	lb.	1,673,058	148,980
Infusorial earth, purchased	lb.	2,667,571	62,336
Lime	lb.	1,080,315	7,011
Limestone	ton	17,068	45,183
Sulphur	lb.	85,040	1,968
Sulphuric and hydrochloric acids	lb.	198,670	5,149
Other chemicals(value only)	-	-	9,440
All other materials, not specified	-	-	469,782
Boxes, bags & other containers -		-	2,412,345
TOTAL COST OF MATERIALS			\$56,493,942

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