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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

REPORT
on the
SUGAR INDUSTRY

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

Ottawa, Canada.

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THE SUGAR REFINING INDUSTRY
IN CANADA
1924.

Ottawa, December, 1925.- Statistics of the Sugar Industry in Canada for the calendar year 1924 are presented in this report. The number of factories reporting operations during the year was 7, located by provinces as follows:-Ontario 2 (Chatham and Wallaceburg); Quebec 2 (Both in Montreal); New Brunswick 1, (St. John); Nova Scotia 1 (Dartmouth) and British Columbia 1 (Vancouver). In order that disclosure of information relating to individual plants may be prevented, statistics are shown for the Dominion only.

Principal Statistics Compared.

A comparative study of the principal statistics of the industry is presented in the accompanying table for the five year period 1920 - 1924.

Table 1. Principal Statistics Compared 1920 - 1924.

Principal Statistics	1924	1923	1922	1921	1920
Refineries No.	7	7	7	7	8
Capital invested \$	46,229,138	45,618,182	36,691,72	35,783,067	38,725,542
Employees on Salaries-					
Male No.	285	300	271	280	377
Female No.	50	48	46	53	68
Total Salaries \$	834,178	831,107	773,366	765,456	1,029,930
Employees on Wages-					
Male No.	1,955	1,961	2,331	2,042	2,573
Female No.	97	84	97	94	100
Total wages \$	2,565,648	2,498,55	2,492,606	2,417,438	3,602,884
Cost of fuel \$	1,414,339	1,510,367	1,918,987	1,810,176	2,907,861
Cost of materials \$	55,071,573	61,817,862	56,093,912	56,882,242	103,639,088
Value of products and by-products \$	67,292,122	77,004,026	70,822,782	69,509,827	119,036,731
Value added by manufacture \$	12,220,549	15,186,164	14,728,840	12,627,585	15,397,443

THE SUGAR REFINING INDUSTRY IN CANADA, 1924.

Sugar Production and Consumption.

A comparative view of the production and consumption of sugar in Canada by classes, quantity and value is presented in tables 2(a) and 2(b) for the calendar years 1920 to 1924 inclusive. Consumption of any commodity is computed by adding together home production and imports and deducting therefrom the exports of goods the produce of Canada. The per capita consumption of sugar of all kinds by quantity and value based on estimated population is shown for each year covered by this report.

Table 2.(a) Production of Sugars, 1920-1924.

Kinds of Sugar	1924	1923	1922	1921	1920
Granulated Sugars:-					
Made from Cane	(lb. 696,756,646	718,049,089	1,006,099,197	636,446,914	604,178,160
Made from Beets	(lb. 85,770,709	39,423,160	29,911,770	52,862,377	89,280,719
Total value granulated	(\$ 59,152,471	68,990,279	63,518,155	60,185,249	104,697,061
Soft sugars from cane	(lb. 89,100,877	84,506,388	112,093,407	94,754,353	88,760,215
Value of soft sugars	(\$ 6,749,838	7,154,355	6,148,861	8,442,174	12,649,281
Total production					
all sugars	(lb. 871,628,232	841,978,637	1,148,104,374	784,063,644	782,219,094
Total value					
all sugars	(\$ 65,922,309	76,144,634	69,667,016	68,627,423	117,346,342

Table 2.(b) Consumption of Sugars, 1920-1924.

Sugar manufactured	(lb. 871,628,232	841,978,637	1,148,104,374	784,063,644	782,219,094
Value	(\$ 65,922,309	76,144,634	69,667,016	68,627,423	117,346,342
Plus					
Sugar, imported	(lb. 42,926,370	17,039,979	2,654,290	20,571,959	9,684,531
Value	(\$ 2,624,126	1,241,491	36,692	2,051,780	1,375,932
Totals	(lb. 914,554,602	859,018,616	1,150,758,664	804,635,603	791,903,625
Less	(\$ 68,546,435	77,385,125	69,763,708	70,679,203	118,722,274
Sugar, exported	(lb. 84,029,266	119,121,347	316,651,937	86,765,970	69,014,171
Value	(\$ 7,412,153	12,023,173	20,567,055	7,383,245	12,278,792
Sugar available for Consumption	(lb. 830,525,336	739,297,269	834,106,727	717,869,633	722,889,454
(\$ 61,134,282	65,362,952	49,197,653	63,295,958	106,443,473	
Per Capita Consumption by quantity & value	(lb. 90.01	81.46	93.30	81.68	83.75
	(\$ 6.62	7.20	5.50	7.20	12.23

Sugar Beet Production 1920-1924.

The acreage sown to sugar beets, the total yield and average yield per acre and the total value of the crop are shown in Table 3 for the calendar years 1920 to 1924.

Table 3. Sugar Beet Production 1920-1924.

Sugar Beet Production	1924	1923	1922	1921	1920
Area sown to sugar beets ac.	31,111	17,941	14,955	25,325	34,491
Total yield ton	295,177	159,200	127,807	199,334	343,000
Average yield per acre ton	9.49	8.87	8.55	7.85	9.94
Total value of crop \$	1,704,791	1,992,668	967,522	1,374,384	5,307,243

THE SUGAR REFINING INDUSTRY IN CANADA 1924

Sugar Production, 1924.

Table 4 shows the production of sugar by class, quantity and selling value at the refinery as well as of the various by-products of the industry. The quantity of sugar refined in Canadian factories during 1924 exceeded that of 1923 by 29,649,595 pounds yet there was a decrease in total value of \$10,222,325. Further, cane sugars in 1924 showed a falling off in quantity of production of 16,697,954 pounds as compared with 1923, but on the other hand, beet sugars showed a greatly increased production during the same period amounting to 46,347,549 pounds, leaving a net increased production, as stated above. Molasses increased by 1,460,651 gallons and in value by \$251,775. The net decrease in total value of production is accounted for by the fall in the market prices of raw cane sugar and of sugar beets. (See also under Materials).

Table 4. Sugar Production, 1924.

Classes of Products	Unit of Measure	Products and By-products	
		Quantity	Selling Value \$
Granulated sugars made -			
From Cane	pound "	696,756,846)	59,152,471
From Beets	"	85,770,709)	
Soft sugars made	"	89,100,877	6,769,838
Syrups made	gallon	421,444	249,543
Molasses made -			
From Cane	"	1,724,321)	
From Beets	"	1,841,963)	547,054
Dried beet pulp	ton	15,977	419,234
All other by-products (value only)	-	-	153,982
Total value of products	-	-	67,292,122

Capital Investment.

The amount of capital invested in the industry in 1924 is shown in Table 5 under two heads: (a) fixed capital including land, buildings, machinery and tools and (b) working capital which includes materials, stocks and supplies on hand, fuel on hand and cash, trading and operating accounts and bills receivable. Total capital increased from \$45,618,182 in 1923 to \$46,229,188 in 1924, a net increase of \$611,006 or 13.4 per cent.

Table 5. Capital invested in the Sugar Industry, 1924.

Items of Capital	Amount
Fixed capital - total	\$ 30,854,500
Working capital - total	15,374,688
Materials, fuel, stocks in process and miscellaneous supplies on hand	7,055,769
Cash, trading and operating accounts and bills receivable	8,318,919
Total capital invested	46,229,188

THE SUGAR REFINING INDUSTRY IN CANADA 1924.

Employees, Salaries and Wages.

Statistics of employment are presented in the following series of tables:-

Table 6. Employees by number, sex and remuneration.

Table 7. Employees by months.

Table 8. Working time of plants and employees.

The total number of persons employed whether on salary or wages is shown by sex and remuneration in Table 6. Salaried employees numbered 335 of whom 280 were males and 55 females who received in salaries \$834,178. Employees working for wages numbered 2,052 of whom 1,955 were males and 97 females with a total payroll of \$2,565,648. Compared with 1923, salaried persons decreased in number by 13 but the payment for salaries increased by \$5,071; wage earners show an increase of 6 in the total number at employment with an increase of \$67,093 in the amount paid for wages.

Table 6. Employees, Salaries and Wages, 1924.

Classes of employees	No. of Employees		Salaries and Wages paid
	Male	Female	
Salaried employees	285	55	\$834,178
Wage earners, average number	1,955	97	2,565,648
T o t a l s	2,240	147	3,399,626

The number of wage earners employed during each month of the year is shown by sex in Table 7. The month of highest employment was October when 2,526 were entered on the payrolls, whilst that of lowest employment was in January when 1,419 persons were enrolled.

Table 7. Employment by months.

Month	No. Employees		Month	No. Employees	
	Male	Female		Male	Female
January	1,347	72	July	2,236	117
February	1,930	113	August	2,000	91
March	1,881	110	September	1,656	55
April	1,833	93	October	2,419	107
May	1,975	101	November	2,238	82
June	1,901	95	December	1,999	96
Total for the year				23,465	1,162
Average monthly employment				19.55	97

Working time of plants and of employees is presented in Table 8. The operating time of the various plants is shown according to (a) full time, (b) part time and (c) idle, and of employees by the number of hours worked (a) per day or per shift, (b) per week. A column showing averages per plant completes the table.

Table 8. Working Time of Plants and Employees, 1924.

Number of refineries reporting	Totals	Average per plant
Days in operation -		7
On full time	1,494	213.43
On part time	-	-
Idle	634	90.57
Hours worked by employees -		
Per day or shift	73	10.43
Per week	453	65.43

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THE SUGAR REFINING INDUSTRY IN CANADA 1924.

Fuel Consumption.

The quantity and the cost value delivered at the works, of the various classes of fuel used in the industry during the year are shown in Table 9. Bituminous coal comprised 66.25 per cent of the total cost of all fuel with fuel oil second with 31.35 per cent, the total cost reported amounting to \$1,414,339.

Table 9.: Fuel used by classes, 1924.

Classes of fuel	Unit of measure	Quantity	Cost Value at Works
Bituminous Coal	ton	208,529	937,028
Anthracite Coal	ton	79	926
Coke	ton	3,098	30,788
Gasoline	gal.	9,037	2,221
Oil (fuel)	"	8,888,179	443,376
Total cost of fuel	-	-	1,414,339

Power Installation

The power installed in the sugar industry is presented in Table 10 by classes, number of units in each class, and the rated horse power capacity according to the manufacturer. Primary power installation totalled 90 units of 11,005 h.p. capacity. Electric motors operated by purchased power numbered 378 with a h.p. capacity of 8,381 at an average cost per h.p. of \$16.54. The number of boilers installed for all purposes was 78 with a boiler h.p. capacity of 22,269, and the total cost of electricity purchased during the year amounted to \$138,601.

Table 10.: Power Installation, 1924.

Classes of Power	Number of Units	Horse power capacity
Steam engines and turbines	89	11,000
Oil, gas and gasoline engines	1	5
Electric motors operated by purchased power	378	8,381
Total power installed for manufacturing purposes	468	19,386
Electric motors operated by power generated by the establishment	577	9,886
Total electric motor installation	955	18,267

Materials Used.

The total cost of materials fell from \$61,817,862 in 1923 to \$55,071,573 in 1924, due to a decline in the market prices of raw cane sugar and of sugar beets. The average price per cwt. of raw cane sugar laid down at Montreal fell from \$7.0063 in 1923 to \$5.655 in 1924, whilst the prices of home-grown sugar beets fell from \$12.08 per ton in 1923 to \$5.87 per ton in 1924. This decline in the prices of raw materials is reflected in the market selling prices of the refined products as is indicated by the average of wholesale prices for each grade of sugar in the summary table following:-

Grades of Sugar	Average Wholesale Prices		Decrease in wholesale prices during year
	1923	1924	
Refined cane sugar	cwt. \$ 9,583	\$ 8,323	\$ 1,260
Refined beet sugar	cwt. 9,500	7,300	2,200
Soft sugars	cwt. 9,203	7,944	1,259

Imports and Exports.

Table 11 gives the imports of sugar for consumption in Canada by principal countries, and Table 12 the exports of Canadian produce, both for the calendar year 1924.

Table 11. Imports for Consumption by Countries for the calendar year 1924.

Articles imported, by countries.	Quantity	Value
Sugar, n.c.p. not above No. 16 D.S. in colour etc.		\$
United States	Total	328,030,881
" lb.	121,382,290	6,245,913
Br. Guiana	"	137,045,681
Barbados	"	72,972,541
Jamaica	"	44,538,077
Trinidad and Tobago	"	46,584,241
Cuba	"	153,220,790
Dutch East Indies	"	51,718,859
Fiji Islands	"	11,920,000
Peru	"	23,725,892
San Domingo	"	79,372,410
Other Br. W. Indies	"	30,608,755
Other Countries	"	42,941,345
Sugar above No. 16 D.S. and all refined sugar whatever grade or standard		
United Kingdom	lb.	42,924,370
United States	"	12,241,559
Barbados	"	21,871,455
Guatemala	"	282,669
Nicaragua	"	2,153,635
Salvador	"	1,759,874
Other Countries	"	1,745,359
Sugar cane, shredded	"	2,871,819
Glucose, glucose syrup and corn syrup or any mixture thereof		
United Kingdom	lb.	3,613,783
United States	"	24,573
Molasses of cane, testing under 35° but not less than 20°		
United States	gal.	3,594,210
Other Countries	"	250,799
" "	"	236,550
" "	"	14,249
Molasses produced from the manufacture of cane sugar not less than 35° and not more than 56 degrees		
United States	gal.	11,143
Barbados	"	9,005
Other Countries	"	47
Molasses testing not more than 56 degrees, the produce of any British Country, etc.		
Barbados	gal.	2,078
Trinidad & Tobago	"	4,285,275
Other Br. West Indies	"	4,071,961
Molasses and syrups of all kinds the product of sugar cane or beet, n.c.p. and all imitations or substitutes thereof		
United Kingdom	lb.	72,200
United States	"	796,050
Other Countries	"	8,246,242
Total value of Imports		3,660
		45,449,413

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THE SUGAR REFINING INDUSTRY IN CANADA 1924.

Table 12. Exports of Canadian Produce calendar year 1924.

Articles		Quantity	Value
Sugar of all kinds	lb.	84,029,266	\$ 7,412,153
Molasses and syrups of all kinds	gal.	1,085,965	96,433
Sugar house syrup	gal.	1,794	544
Glucose and glucose syrups	-	-	271
Sugar beets	ton	22,032	132,855
Total Value of Exports	-	-	7,642,256

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