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

REPORT

ON THE

SUGAR INDUSTRY

IN

CANADA

1932

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THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Statistics of the sugar refining industry in Canada for the year 1932 are presented in this report. The refineries operating during the year were located as follows: - Ontario two (Chatham and Wallaceburg), Quebec two (both at Montreal), New Brunswick one (Saint John), Nova Scotia one (Dartmouth), Alberta one (Raymond) and British Columbia one (Vancouver). These eight sugar refineries in 1932 reported a capital investment of \$37,654,457 and a value of production of \$41,022,589. They also employed 2,140 persons who received \$3,147,753 in salaries and wages and paid out \$25,716,922 for raw materials, while the value added by manufacture amounted to \$15,305,667. The sugar refining industry is, therefore, of considerable importance in the industrial life of Canada. The demand created by the war gave it a great impetus. All things considered, 1919 was a record year. The number of persons employed (3,491), the value added by manufacture (\$16,321,882) and the exports (\$22,953,135) were the highest recorded, while the volume of sugar manufactured was only ten per cent lower than that of the peak year 1925 when 11,714,967 cwt. were produced. Since 1925, however, exports of sugar have declined with the result that production and employment slackened considerably. Exports of sugar in 1932 amounted to only 90,483 cwt. valued at \$428,337.

Detailed statistics of production, capital invested, materials used, employment, imports and exports, etc., are given in the tables following. In order that there may be no disclosure of statistical information regarding individual plants, the statistics are shown for the Dominion only.

Principal Statistics Compared

A comparative study of the principal statistics relating to the industry is presented in the accompanying table for the past five years. Decreases from the 1931 figures appear in the items of capital, wage-earners, wages, the cost of fuel, the cost of materials and the value of production.

Table 1. - Principal Statistics Compared, 1928-1932.

	1932	1931	1930	1929	1928
Refineries No.	8	8	8	8	8
Capital invested \$	37,654,457	37,691,433	43,855,155	43,534,113	48,625,818
Employees on salaries -					
Male No.	247	247	231	246	239
Female No.	77	76	63	61	60
Total salaries \$	941,509	935,346	908,670	937,641	922,969
Employees on wages -					
Male No.	1,731	1,856	1,839	1,916	1,979
Female No.	85	86	98	102	103
Total wages \$	2,206,244	2,372,334	2,651,590	2,748,396	2,748,117
Cost of fuel \$	981,458	993,340	1,029,175	1,032,909	1,163,859
Cost of materials \$	25,716,922	29,196,494	30,610,701	35,640,124	40,551,874
Gross value of products \$	41,022,589	43,962,061	42,935,722	47,151,960	52,085,155
Value added by manufacture \$	15,305,667	14,765,567	12,325,021	11,511,836	11,533,281

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Production in Sugar Refineries.

Table 2 gives the production of sugar and its by-products by class, quantity and selling value at the refinery for the years 1931 and 1932. The quantity of refined granulated sugars produced in Canadian refineries during 1932 was less than that of 1931 by 47,061,139 pounds and the value by \$2,545,360. The quantity of beet sugar increased by 24,877,730 pounds and the quantity of cane sugar decreased by 71,938,869 pounds, making the decrease as stated above. Soft sugars also decreased by 6,579,134 pounds and in value by \$249,557. Syrups show a decrease in value of \$17,113 and molasses a decrease of \$96,232. Of the eight refineries reporting, three showed a value of production between one and three million dollars and five a production between four and nine million dollars.

Table 2. - Sugar and By-Products, 1931 and 1932.

	1 9 3 1		1 9 3 2	
	Quantity	Selling Value at Factory	Quantity	Selling Value at Factory
	Lb.	\$	Lb.	\$
<i>all sugar</i> Granulated sugars Total	978,139,312		944,499,039	40,514
Made from cane	893,127,950	39,246,357	846,066,811	36,700,997
Made from beets	785,988,821	34,451,806	714,049,952	30,911,792
	107,139,129	4,794,551	132,016,859	5,789,205
Soft sugars -				
Made from cane	105,011,362	4,092,612	98,432,228	3,843,055
Syrups -				
Made from cane	5,556,705	194,046	6,117,879	176,933
Molasses Total	61,855,448	259,222	46,801,154	162,990
Made from cane	20,491,448)	259,222	13,975,908)	162,990
Made from beets	41,364,000)		32,825,246)	
Beet pulp, wet and dried	78,058,000	169,824	105,718,000	138,614
TOTAL VALUE OF PRODUCTS ..	-	43,962,061	-	41,022,589

Comparative Production and Consumption of Sugars.

A comparative study of the production and consumption of sugars in Canada for the past five years by classes, quantity and value is presented in table 3. Consumption of any commodity is computed on the basis of production plus imports, less exports. The per capita consumption of sugar of all kinds by quantity and value (based on an estimated population) is shown for a five year period.

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Table 3. - Production of Sugars, 1928-1932.

Kind of Sugar	1 9 3 2	1 9 3 1	1 9 3 0	1 9 2 9	1 9 2 8
Granulated sugars -					
Made from cane .. Lb.	714,049,952	785,988,821	747,662,301	767,307,786	765,197,219
Made from beets . "	132,016,859	107,139,129	94,624,701	69,399,213	64,653,348
Total Value . \$	36,700,997	39,246,357	37,956,583	41,756,126	46,158,093
Soft sugars -					
Made from cane .. Lb.	98,432,228	105,011,362	100,570,771	95,194,213	97,766,317
Value \$	3,843,055	4,092,612	4,193,662	4,403,782	5,144,504
TOTAL PRODUCTION					
OF SUGAR Lb.	944,499,039	998,139,312	942,857,773	931,901,212	927,616,884
TOTAL VALUE . \$	40,544,052	43,338,969	42,150,245	46,159,908	51,302,597

Consumption of Sugars, 1928-1932.

	1 9 3 2	1 9 3 1	1 9 3 0	1 9 2 9	1 9 2 8
Sugar production . Lb.	944,499,039	998,139,312	942,857,773	931,901,212	927,616,884
\$	40,544,052	43,338,969	42,150,245	46,159,908	51,302,597
plus					
Sugar imports Lb.	3,786,600	20,706,000	50,812,600	41,593,500	46,034,100
\$	143,930	547,411	1,402,808	1,254,373	1,728,550
TOTAL Lb.	948,285,639	1,018,845,312	993,670,373	973,494,712	973,650,984
\$	40,687,982	43,886,380	43,553,053	47,414,281	53,031,147
less					
Sugar exports Lb.	9,048,300	14,938,400	21,815,000	28,531,000	48,140,300
\$	428,337	728,825	1,025,073	1,407,349	2,444,624
SUGAR AVAILABLE) Lb.	939,237,339	1,003,906,912	971,855,373	944,963,712	925,510,684
FOR CONSUMPTION) \$	40,259,645	43,157,555	42,527,980	46,006,932	50,586,523
Per Capita) Lb.	90.51	96.77	97.83	96.46	95.82
Consumption) \$	3.88	4.16	4.28	4.70	5.24

Production of Sugar Beets and Beetroot Sugar.

The acreage sown to sugar beets, the total yield and average yield per acre and the total value of the crop delivered at the factory are shown in table 4 for the years 1918-1932. Acreage sown to sugar beets increased during the year by 1,480, the total yield by 69,679 tons but the total value of the crop decreased by \$76,255.

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Table 4. - Area, Yield and Value of Sugar Beets in Canada and Production of Refined Beetroot Sugar Compared, 1918-1932.

Year	Acres Grown	Total Yield	Yield per Acre	Total Value	Average price per ton	Production and Value (at the refinery) of refined beetroot sugar		
	Acres	Tons	Tons	\$	\$ cts.	Lb.	\$	Cents per lb.
1918 ..	18,000	204,000	11.25	2,593,715	12.71	50,092,835	4,358,077	8.70
1919 ..	18,600	180,000	9.50	2,630,027	14.61	37,839,271	3,924,411	10.40
1920 ..	34,491	343,000	9.94	5,307,243	15.47	89,280,719	12,856,424	14.40
1921 ..	25,535	199,334	7.80	1,974,384	9.90	52,862,377	3,554,203	6.70
1922 ..	14,955	127,807	8.55	966,521	7.56	29,911,770	1,645,885	5.50
1923 ..	17,941	159,200	8.87	1,922,668	12.08	39,423,160	3,745,200	9.50
1924 ..	31,111	295,177	9.50	1,704,791	5.78	85,770,709	6,192,645	7.30
1925 ..	34,803	370,047	10.63	2,688,302	7.27	72,819,919	5,206,624	7.15
1926 ..	30,073	267,754	8.90	2,286,761	8.54	70,388,105	4,269,076	6.06
1927 ..	25,961	206,713	7.96	2,012,134	9.73	60,969,131	3,719,117	6.10
1928 ..	34,323	244,930	7.14	2,041,465	8.33	64,653,348	3,340,571	5.17
1929 ..	32,556	235,465	7.23	2,080,996	8.84	69,399,213	3,335,344	4.81
1930 ..	40,532	397,576	9.81	3,278,625	8.25	94,624,701	4,529,944	4.79
1931 ..	43,337	435,992	10.06	3,190,198	7.32	107,139,129	4,794,551	4.48
1932 ..	44,817	505,671	11.28	3,113,942	6.16	132,016,859	5,789,205	4.38

Materials Used.

The cost of materials used in the industry during 1932 is shown in table 5, the total amounting to \$25,716,922. This is a decrease from the previous year of \$3,479,572 and is accounted for by a decrease in the average cost price of raw cane sugar, which fell from \$2.58 per cwt. in 1931 to \$2.43 per cwt. in 1932. Home grown sugar beets also show a decrease in cost laid down at the factory from \$7.32 per ton in 1931 to \$6.16 in 1932, but this is counterbalanced by an increase of 69,679 in the tonnage of beets used in 1932. This decrease in the price of raw materials is reflected in the market selling prices of the products as indicated by the average wholesale prices for each grade of sugar in the following summary table.

Grades of Sugar	Average wholesale prices at Montreal		(+) Increase or (-) Decrease
	1931	1932	
	\$	\$	cents
Refined cane sugar Cwt.	4.55	4.38	- 17
Refined beet sugar 1/ "	4.48	4.38	- 10
Soft sugar (No. 1 Yellow, Light) "	4.27	4.09	- 18
1/ Prices at factory.			

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

The following table itemizes the various materials used, giving quantity and cost value. Raw materials constituted 91.8 per cent of the total cost, other materials 1.9 per cent and containers of all kinds 6.3 per cent.

Table 5. - Materials Used, 1931 and 1932.

Kinds of Materials	Unit of Measure	1 9 3 1		1 9 3 2	
		Quantity	Cost Value at the Refinery	Quantity	Cost Value at the Refinery
			\$		\$
Raw cane sugar	Lb.	923,590,979	23,806,890	842,928,411	20,493,284
Sugar beets	Tons	435,992	3,190,198	505,671	3,113,942
Boneblack purchased ..	Lb.	2,543,390	132,077	2,616,903	207,614
Infusorial earth	Lb.	1,909,256	50,119	2,577,585	73,309
Lime	Lb.	2,164,573	12,800	2,338,610	12,534
Limestone	Tons	21,974	45,932	26,190	65,034
Other chemicals (sulphur, sulphuric and hydrochloric acid, lead acetate, etc.)	-	-	34,486	-	39,305
Boxes, bags and other containers	-	-	1,783,741	-	1,619,995
All other materials ..	-	-	140,251	-	91,855
TOTAL COST OF MATERIALS	-	-	29,196,494	-	25,716,922

Table 6. - Capital Invested in the Sugar Industry, 1931 and 1932.

Items of Capital	1 9 3 1	1 9 3 2
	\$	\$
Fixed Capital -		
Present value of land, buildings, fixtures, machinery, tools, etc.	22,829,935	22,362,732
Working Capital -		
Inventory value of materials on hand, stocks in process, fuel and miscellaneous supplies on hand .	2,749,526	2,399,977
Inventory value of finished products on hand	6,282,059	6,777,147
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	5,829,913	6,114,601
TOTAL CAPITAL EMPLOYED	37,691,433	37,654,457

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Employment Statistics.

Employment statistics are given in tables 7, 8 and 9. Wage-earners in 1932 numbered 1,731 males and eighty-five females with a payroll of \$2,206,244, while salaried employees numbered 247 males and seventy-seven females with salaries totalling \$941,509. Compared with 1931 there was a drop of 125 in the number of persons employed and \$159,977 in the salaries and wages paid. The maximum employment of wage-earners was reached in October with a total of 2,762 and the minimum in January with a total of 982.

The average number of hours worked per week by wage-earners in this industry totalled sixty-one for Canada. Ontario with seventy-two hours per week had the longest working day, while British Columbia with forty-eight hours had the shortest day.

The following employment figures illustrate the degree of large scale production obtaining in this industry. The average employment per factory for the industry as a whole was 268 in 1932 compared with 283 in 1931. Five of the eight factories employed between 100 and 300 persons (average 214) and the other three employed between 300 and 400 persons (average 356).

Table 7. - Employees by Classes, Number, Sex and Remuneration, 1932.

Classes of Employment	Persons Employed		Salaries and Wages
	Male	Female	
	No.	No.	\$
Salaried employees	247	77	941,509
Wage-earners (average number)	1,731	85	2,206,244
TOTAL NUMBER EMPLOYED IN 1932	1,978	162	3,147,753
TOTAL NUMBER EMPLOYED IN 1931	2,103	162	3,307,730

Table 8. - Number of Wage-earners Employed by Months and Sex, 1932.

Months	Number of Employees		Months	Number of Employees	
	Male	Female		Male	Female
	No.	No.		No.	No.
January	943	39	July	1,779	90
February	1,075	45	August	1,820	104
March	1,354	73	September	1,945	86
April	1,337	72	October	2,650	112
May	1,812	89	November	2,320	103
June	1,866	82	December	1,871	120
Total employment during year				20,772	1,015
Average monthly employment during year				1,731	85

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Table 9. - Hours worked by Wage-earners in Months of Highest Employment, 1931 and 1932.

Hours Worked per Week	Number of Wage-earners in Months of Highest Employment Whose Regular Hours per Week were:		
	1 9 3 2	1 9 3 1	
	No.	No.	
40 hours or less	-	12	
41-43 hours	45	-	
44 hours	3	5	
45-47 hours	4	134	
48 hours	571	562	
49-50 hours	20	21	
51-53 hours	-	21	
54 hours	369	355	
55 hours	-	16	
56-59 hours	14	32	
60 hours	518	744	
Over 60 hours	1,433	1,181	
AVERAGE HOURS PER WEEK	61	59	

The above table does not include overtime.

Power Equipment.

Table 10. - Power Equipment by Classes, 1932.

Classes of Power	Number of Units	Horse-power according to manufacturers' rating
Steam engines and turbines	89	14,500
Gasoline, gas and oil engines	18	180
Total Primary Power	107	14,680
Electric motors operated by purchased power ..	640	6,859
TOTAL POWER USED IN MANUFACTURING	747	21,539
Electric motors operated by power generated by the establishment	941	14,255
Total Electric Motor Installation	1,581	21,114
Boiler Installation for any purpose	68	30,605

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Table 11. - Fuel Used by Classes, 1932.

Classes of Fuel	Unit of Measure	Quantity	Cost Value Delivered at Works
			\$
Bituminous coal, Canadian	Short Ton	84,004	333,096
" " Imported	" "	56,675	240,665
Lignite coal, Canadian	" "	22,810	51,833
Coke	" "	2,884	22,237
Fuel and diesel oil	Imp. Gal.	8,170,473	331,593
Gasoline and coal oil	" "	6,550	1,110
Gas, manufactured	M cu. ft.	811	924
TOTAL COST OF FUEL	-	-	981,458
Electricity purchased during the year .	K.W.H.	12,198,520	78,350

Imports and Exports.

Table 12 shows the importation for consumption in Canada of the undermentioned commodities by countries, quantity and value. The total value of imports of sugar and molasses during the calendar year 1932 was \$15,994,771.

Table 12. - Imports for Consumption by Countries, Calendar Years 1931 and 1932.

Articles by Countries	1932		1931	
	Quantity	Value	Quantity	Value
		\$		\$
Sugar, n.o.p., not above No. 16 D.S. in colour, etc.Total Lb.	674,635,900	11,050,798	798,358,400	16,953,751
Australia	33,757,000	496,202	13,928,500	680,200
British East Africa ...	-	-	13,367,400	304,122
British South Africa ..	81,055,200	1,276,391	84,040,000	1,783,985
British Guiana	156,652,300	2,713,190	192,898,900	3,933,372
Barbados	91,251,200	1,660,965	76,001,000	1,611,434
Jamaica	66,678,200	1,117,924	86,736,900	1,799,205
Trinidad and Tobago ...	78,037,700	1,438,304	128,297,800	2,633,624
Other British West Indies"	31,422,600	594,663	43,180,600	934,441
Cuba	43,913,200	355,082	10,773,800	136,248
Fiji Islands	75,611,000	1,252,381	108,275,000	2,623,237
San Domingo	16,257,400	145,690	40,855,300	513,817
Other Countries	100	6	3,200	68

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Table 12. - Imports for Consumption by Countries, Calendar Years 1931 and 1932. -
(Cont'd.)

Articles by Countries	1 9 3 2		1 9 3 1	
	Quantity	Value	Quantity	Value
		\$		\$
Sugar above No. 16 D.S. in colour, for refining purposes only Total Lb.	189,929,200	3,087,745	132,458,800	2,837,397
Australia	54,599,200	872,331	29,056,200	597,339
British East Africa	16,215,000	367,492	45,994,500	1,033,023
British South Africa ...	74,225,100	1,114,465	39,176,900	816,828
British Guiana	-	-	50,000	1,120
Fiji Islands	44,889,400	733,440	15,941,900	345,197
Trinidad and Tobago	-	-	2,239,300	43,890
Hong Kong	500	17	-	-
Sugar above No. 16 D.S. in colour and all refined sugars Total Lb.	3,786,600	143,930	20,706,000	547,411
United Kingdom	1,715,200	62,417	323,500	10,244
United States	1,207,700	53,388	3,241,500	138,420
British East Africa	672,300	14,063	-	-
Cuba	40,000	1,019	12,739,500	270,570
Czechoslovakia	-	10,080	3,070,000	76,850
Netherlands	-	-	560,100	34,999
Hong Kong	3,100	84	604,100	12,085
Other Countries	148,300	2,879	167,300	4,243
Invert sugar and syrups, the product of the sugar cane or beet and all imitations and substitutes thereof Total Lb.	569,400	11,626	796,900	14,716
United Kingdom	-	-	2,200	118
United States	569,400	11,626	794,700	14,598
Molasses of cane, testing under 35° but not less than 20° Total Gal.	2,875,330	156,926	4,879,971	341,622
United States	1,648,869	89,002	3,546,171	271,680
British Guiana	768,001	33,239	640,000	31,680
Barbados	9,298	2,948	-	-
Trinidad and Tobago ...	380,000	16,509	566,667	28,050
Cuba	69,162	15,228	13,002	2,009
Other Countries	-	-	114,131	8,203

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Table 12. - Imports for Consumption by Countries, Calendar Years 1931 and 1932. -
(Concl'd.)

Articles by Countries	1 9 3 2		1 9 3 1	
	Quantity	Value	Quantity	Value
		\$		\$
Molasses of cane, testing under 56° but not less than 35°	Total Gal.			
United States	"			
Barbados	"			
Other British West Indies .	"			
Molasses, testing not more than 56° the produce of any British Country entitled to benefits under preferential tariff	Total Gal.			
Barbados	"			
Trinidad and Tobago	"			
Jamaica	"			
Other British West Indies .	"			
British Guiana	"			
Molasses and syrups of all kinds, the product of sugar cane or beet, n.o.p., and all imitations or substitutes	Total Lb.			
United Kingdom	"			
United States	"			
Barbados	"			
Other Countries	"			

Table 12(a) shows a summary, by countries, of the import value of the commodities mentioned in table 12.

Table 12(a). - Summary of Import Values, by Countries, 1931 and 1932.

Countries	1 9 3 2	1 9 3 1
	\$	\$
United Kingdom	83,382	41,100
Australia	1,368,533	1,277,539
British East Africa	381,555	1,337,145
British South Africa	2,390,856	2,600,813
British Guiana	2,763,673	3,983,796
Barbados	2,913,093	2,836,929
Jamaica	1,119,527	1,799,205
Trinidad and Tobago	1,470,312	2,705,751
Other British West Indies	777,113	1,076,803
Fiji Islands	1,985,821	2,968,434
Cuba	371,329	408,827
Hong Kong	101	12,085
San Domingo	145,690	513,817

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

Table 12(a). - Summary of Import Values, by Countries, 1931 and 1932. - (Concl'd.)

Countries	1 9 3 2	1 9 3 1
	\$	\$
Import Values Carried Forward	15,770,985	21,562,244
United States	213,646	509,123
All other countries	10,140	125,157
TOTAL VALUE OF IMPORTS	15,994,771	22,196,524

The exports of sugar, etc., are shown in table 13 for the calendar years 1931 and 1932. The total value of the exports in 1932 amounted to \$536,477, a decrease of \$341,809 as compared with the previous year. Sugar of all kinds, valued at \$428,337 was the principal item of export, of which \$364,327 or over 85 per cent went to Newfoundland.

Table 13. - Exports of Canadian Produce, Calendar Years 1931 and 1932.

Articles by Countries	1 9 3 2		1 9 3 1	
	Quantity	Value	Quantity	Value
		\$		\$
Sugar of all kinds, n.o.p. Total Lb.	9,048,300	428,337	14,938,400	728,825
United States	1,700	84	4,600	309
British Guiana	41,300	2,006	99,900	5,041
British Honduras	835,700	38,708	2,075,700	99,095
Bermuda	14,800	833	16,100	894
Barbados	29,600	1,858	23,500	1,510
Jamaica	10,300	526	78,800	3,976
Trinidad and Tobago	73,200	4,471	80,500	4,965
Other British West Indies	167,000	8,064	846,600	40,478
Newfoundland	7,721,500	364,327	11,473,200	560,525
St. Pierre and Miquelon .	151,100	7,354	239,200	12,018
Other Countries	2,100	106	300	14
Molasses and syrups of all kinds Total Gal.	1,175,373	59,818	2,030,089	116,263
United Kingdom	3,668	4,669	9,668	10,548
United States	1,168,313	53,727	2,019,052	104,939
Other Countries	3,392	1,422	1,369	776
Sugar beets Total Ton	9,911	48,322	6,115	33,198
United States	9,911	48,322	6,115	33,198
TOTAL VALUE OF EXPORTS. -	-	536,477	-	878,286

THE SUGAR REFINING INDUSTRY IN CANADA, 1932.

List of Sugar Refineries Operating in 1932.

NOVA SCOTIA

- (1) Acadia Sugar Refining Company Limited, Dartmouth.

NEW BRUNSWICK

- (1) Atlantic Sugar Refineries Limited, Saint John.

QUEBEC

- (1) Canada & Dominion Sugar Company Limited, 1410 Montmorency Street, Montreal.
(1) St. Lawrence Sugar Refineries Limited, Maisonneuve (Montreal).

ONTARIO

- (3) Canada & Dominion Sugar Company Limited, Chatham.
(2) Canada & Dominion Sugar Company Limited, Wallaceburg.

ALBERTA

- (3) Canadian Sugar Factories Limited, Raymond.

BRITISH COLUMBIA

- (1) The British Columbia Sugar Refining Company Limited, Rogers Street, Vancouver.

oOo

- (1) Make cane sugar only.
(2) Make cane and beet sugar.
(3) Make beet sugar only.

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